PART - A

SELF ASSESSMENT REPORT (SAR)

For

Accreditation of

Bachelor of Technology (B. Tech) in

Mechanical Engineering

By

National Board of Accreditation

NBCC Place, 4th Floor East Tower, Bhisham Pitamah
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DEPARTMENT OF MECHANICAL ENGINEERING

ADITYA COLLEGE OF ENGINEERING

Aditya Nagar, ADB Road, Surampalem- 533 437

PART - A

SAR Contents

PART – A: INSTITUTIONAL INFORMATION

1. **NAME AND ADDRESS OF THE INSTITUTION:** Aditya College of Engineering, Aditya Nagar, ADB Road, Surampalem
2. **Name and Address of Affiliating University:** JNTUK Kakinada
3. **Year of establishment of the Institution:** 2008
4. **Type of the Institution:**

☐ University	☐ Autonomous
☐ Deemed University	☑ Affiliated
☐ Government Aided	

5. **Ownership Status:**

☐ Central Government	☐ Trust
☐ State Government	☑ Society
☐ Government Aided	☐ Section 25 Company
☐ Self-financing	☐ Any Other (Please Specify)

6. **Other Academic Institutions of the Trust/Society/Company etc., if any:**

Name of Institutions	Year of Establishment	Programs of Study	Location
Aditya College of Engineering & Technology	2004	Engineering, MCA, MBA & Diploma Courses	Surampalem
Aditya College of Pharmacy	2006	Pharmacy	Surampalem

PART - A

7. Details of all the programs being offered by the institution under consideration:

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
B. Tech	UG	2012	2012	60	Yes	60	Applying for 1st Time	----	----	Yes	4

Sanctioned Intake for Last Five Years for the B. Tech	
Academic Year	**Sanctioned Intake**
2022 – 23	60
2021 – 22	120
2020 – 21	120
2019 -20	180
2018 – 19	180
2017 – 18	180
2016 - 17	180

8. Programs to be considered for Accreditation vide this application:

S. No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Electrical & Electronics Engineering
2	Under Graduate	Engineering & Technology	Mechanical Engineering

PART - A

9. Total number of employees in the institution:

A) Regular Employees (Faculty and Staff):

Item	2021-22		2020-21		2019-20	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	135	137	111	113	111	119
Faculty in Engineering (Female)	45	46	44	46	35	36
Faculty in Maths, Science & Humanities (Male)	26	26	29	30	25	26
Faculty in Maths, Science & Humanities (Female)	19	19	19	19	23	23
Non-teaching staff (Male)	65	66	64	65	61	62
Non-teaching staff (Female)	30	30	27	27	23	24

B) Contractual Employees (Faculty and Staff):

Item	2021-22		2020-21		2019-20	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)						
Faculty in Engineering (Female)						
Faculty in Maths, Science & Humanities (Male)						
Faculty in Maths, Science & Humanities (Female)						
Non-teaching staff (Male)						
Non-teaching staff (Female)						

10. Total number of Engineering Students:

Engineering and Technology- UG	☐ Shift 1	☐ Shift 1
Engineering and Technology- PG	☐ Shift 1	☐ Shift 1
Engineering and Technology- Polytechnic	☐ Shift 1	☐ Shift 1
MBA	☐ Shift 1	☐ Shift 1
MCA	☐ Shift 1	☐ Shift 1

PART - A

11. Vision of the Institution:

To induce higher planes of learning by imparting technical education with

- ❖ International standards
- ❖ Applied research
- ❖ Creative Ability
- ❖ Value based instruction

and to emerge as a premiere institute.

12. Mission of the Institution:

Achieving academic excellence by providing globally acceptable technical education by forecasting technology through

- ❖ Innovative Research And development
- ❖ Industry Institute Interaction
- ❖ Empowered Manpower

13. Contact Information of the Head of the Institution and NBA coordinator, if designated:

Head of the Institution		**NBA Coordinator**	
Name	: Dr. A Ramesh	Name	: Dr. Pullela SVVSR Kumar
Designation	: Principal	Designation	: Dean Academics & Administration
Mobile No	: 9000476662	Mobile No	: 9848163227
Email ID	**:** principal@acoe.edu.in	Email ID	**:** dean.a_a@acoe.edu.in

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PART B: Criteria Summary

Name of the program: B. Tech in Mechanical Engineering**.**

Criteria No.	Criteria	Marks/Weightage	
		Max.	Claimed
	Program Level Criteria		
1	Vision, Mission and Program Educational Objectives	50	
2	Program Curriculum and Teaching – Learning Processes	120	
3	Course Outcomes and Program Outcomes	120	
4	Students' Performance	150	
5	Faculty Information and Contributions	200	
6	Facilities and Technical Support	80	
7	Continuous Improvement	50	
	Institute Level Criteria		
8	First Year Academics	50	
9	Student Support Systems	50	
10	Governance, Institutional Support and Financial Resources	120	
	Total	1000	

CRITERION 1	Vision, Mission and Program Educational Objectives	60

1.1. State the Vision and Mission of the Department and Institute (5)

Vision of the Department:

To be recognized as a Centre of Excellence in Mechanical Engineering towards imparting quality education.

Mission of the Department:

The department strives to provide the engineering foundation as well as professional, innovative and leadership, skills to the students through the following activities.

M1: Provide the state-of- art facilities.

M2: Disseminate knowledge by recruiting qualified and experienced staff members.

M3: Enhance innovative activities by collaborating with industry and research establishments.

M4: Encourage citizenship activities with knowledge and skills

Vision of the Institute:

To induce higher planes of learning by imparting technical education with

International standards

Applied research

Creative Ability

Value based instruction and to emerge as a premiere institute.

Mission of the Institute:

Achieving academic excellence by providing globally acceptable technical education by forecasting technology through

M1: Innovative Research And development

M2: Industry Institute Interaction

M3: Empowered Manpower

1.2. State the Program Educational Objectives (PEOs) (5)

Mechanical Engineering is an ancient discipline of Engineering that teaches all the basic skills along with the advanced courses include materials, design, manufacturing, industrial and thermal engineering which are essential to industrial sector.

Bachelor's program in Mechanical Engineering is aimed at preparing graduates who will

PEO-1: Apply learned technical knowledge and acquired skills as Mechanical Engineer to provide best and optimal solutions to industrial and real-life problems.

PEO-2: Pursue advanced education to perform research and development activities and other innovative efforts in Engineering and Technology to adopt professional career.

PEO-3: Practice engineering profession with ethics and values and to provide meaningful and qualitative engineering solutions to the society.

PEO-4: Excel as a leader with expertise and contribute the services to the economic and social development of the nation.

1.3. Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders (10)

Locations where the Vision, Mission, PEOs and PSOs are display/published:

S. No	Published	Institute		Department			
		Vision	Mission	Vision	Mission	PEOs	PSOs
1	Institute Website	√	√	√	√	√	√
2	HOD Office	√	√	√	√	√	√
3	Departmental Staff Rooms	√	√	√	√	√	√
4	Department / Student Notice Board	√	√	√	√	√	√
5	Entrance of the Department	√	√	√	√	√	√
6	Departmental Laboratories	√	√	√	√	√	√
7	Departmental Corridors	√	√	√	√	√	√

8	Departmental Seminar Hall	√	√	√	√	√	√
9	Course Files	√	√	√	√	√	√
10	Student Attendance Register	√	√	√	√	√	√
11	Students Records	√	√	√	√	√	√
12	Students Project Books	√	√	√	√	√	√
13	Department News Letters	√	√	√	√	√	√
14	Student Handouts	√	√	√	√	√	√
15	College Brochure	√	√	√	√	√	√

Vision, Mission and PEOs of the Department Disseminated.

Internal Stakeholders: Dissemination is ensured as follows:

1. **Students:**
   - ❖ Display in the college website under the Department of Mechanical Engineering
   - ❖ Display in the Notice Board of the Department
   - ❖ Display at Head of the Dept. office
   - ❖ Display in the Dept. Conference Hall
   - ❖ Display in Laboratories
   - ❖ Projected for students before expert lectures or other technical meets
   - ❖ Head of the department makes use of the occasions of gatherings of students like expert lectures, technical meets, parent-teacher meetings, alumni meetings to read out the same. HOD also invites comments from students so that they ponder over and become better aware.
   - ❖ Printed in the department newsletter.
   - ❖ Lab Manuals.
2. **Faculty:** Each faculty member is given a copy to be placed in the course file. Faculty participate in review of the statements, and HOD also ensures that faculty pay due attention to the statements of the college and the department.
3. **Support staff:** Display in the laboratories.

External Stake holders:

1. **Alumni:** Alumni awareness is ensured through college website and by faculty highlighting the same in Dept. or college alumni meets and through dept. newsletters displayed in website.
2. **Employers:** Placement and Training office provides the prospective employers with college brochures as well as handouts giving the Vision, Mission and PEOs of the concerned departments.

1.4. State the process for defining the Vision and Mission of the Department, and PEOs of the program (25)

Steps for Defining Vision and Mission of the Department:

The process for defining Vision and Mission of the Department was discussed in the various Department level meetings and it was formulated through a consultative process involving the stakeholders of the Department, the future scope of the Department and the societal requirements.

In formulating the Vision and Mission of the Department, the following steps are followed:

Step: 1. The Vision**,** Mission statements of the institute and other colleges are considered as reference document.

Step: 2. The Perspectives and Suggestions from department stakeholders (internal & External) such as faculty, students, senior technical staff, alumni, employers & parents are collected.

Step:3. The inputs collected from the department stakeholders (internal & external) were composed and initial draft of department vision, mission was framed by programme assessment committee (PAC).

Step:4. The Department Committee (DC) reviews the Vision and Mission of the department and checks the consistency with the Vision and Mission of the Institute and finalizes the Vision and Mission of the department. If the statements are not consistent then it sends them to Department Advisory Committee (DAC) to conduct brainstorming session for refining the Vision and Mission statements.

Step: 5. DAC reviews and finalizes Vision and Mission statements and sends them to Principal for approval.

Step:6. Vision and Mission statements of the department are published, displayed and disseminated among Stake Holders.

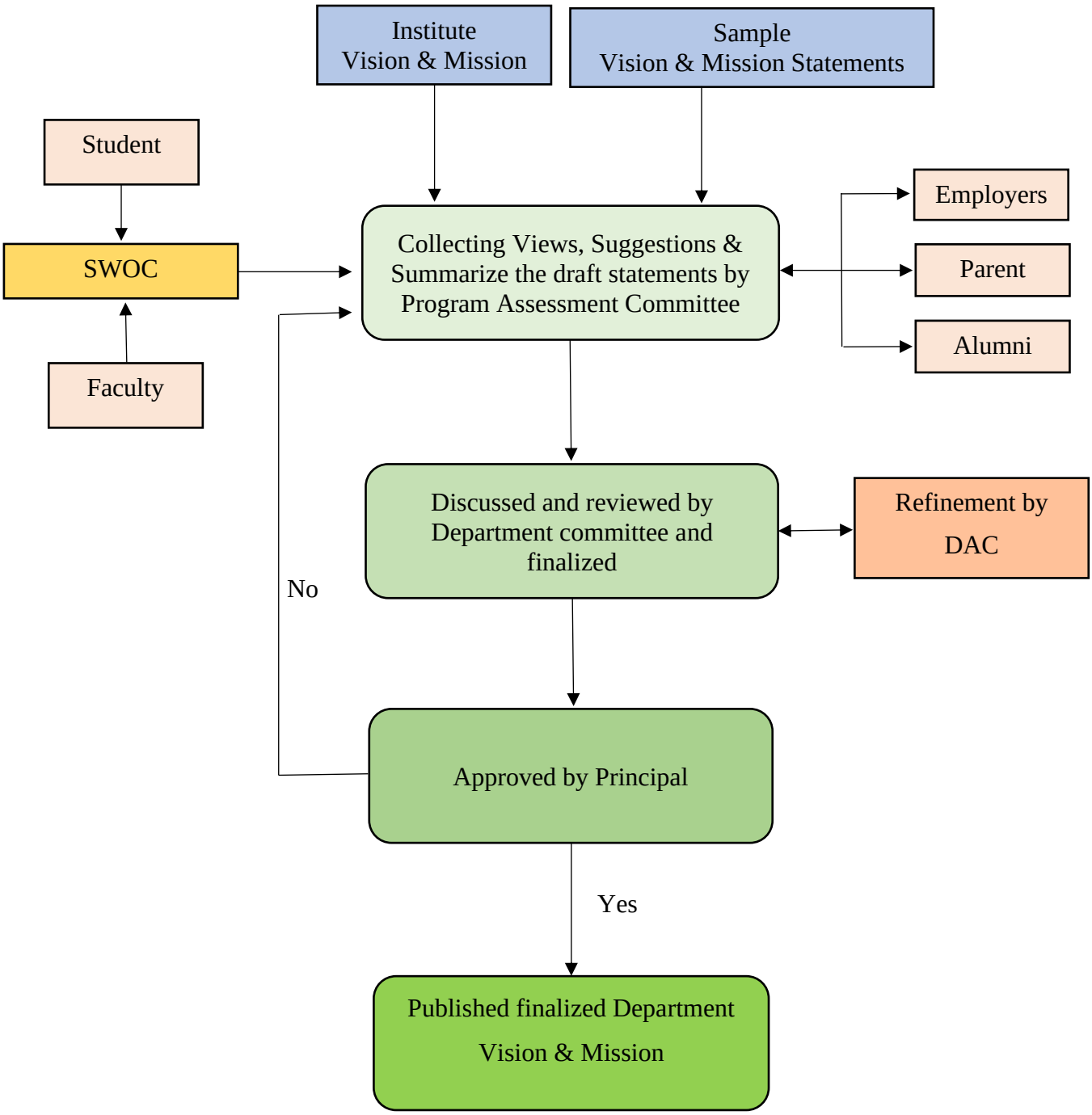

Fig 1.1 Process chart of defining Vision, Mission of the department

Process for defining PEOs for the Program:

Step 1. The initial draft of department PEOs were framed by the PAC setup under the chairmanship of Head of the Department (HOD) by considering the Vision and Mission of the Department & Institute and Graduate attributes after vagarious brine storming sessions.

Step 2. The initial draft of PEOs were communicated among the stakeholders of the department to collect the suggestions and feedback.

Step 3. The Collected Suggestions and feedback from stakeholders are incorporated and updated and finalized PEOs are formulated.

Step 4. The Finalized PEOs were sent to the Department Advisory Committee (DAC) to validate with vision, mission of the department & institute and POs for further approval.

Step 5. Head of the Department will present the finalized PEOs to Principal for final approval.

Step 6. Department PEOs are displayed, published and disseminated among the stakeholders

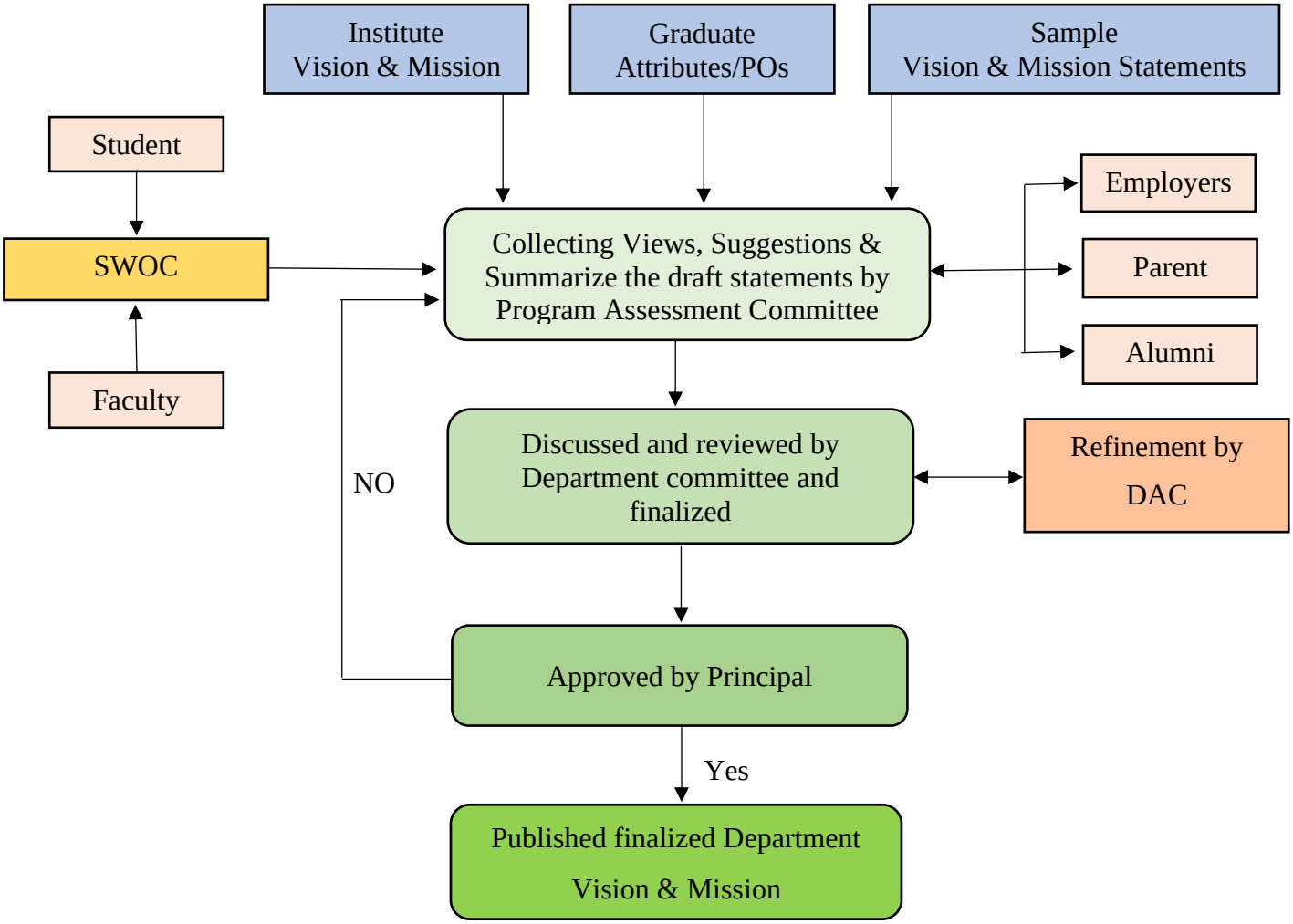

Fig 1.2 Process for defining PEOs for the Program

1.5 Establish consistency of PEOs with Mission of the Department (15)

PEO/Mission Mapping	**M1:** Provide the state-of- art facilities	**M2:** Disseminate knowledge by recruiting qualified and experienced staff members	**M3:** Enhance innovative activities by collaborating with industry and research establishments	**M4:** Encourage citizenship activities with knowledge and skills
PEO1: Apply learned technical knowledge and acquired skills as Mechanical Engineer to provide best and optimal solutions to industrial and real-life problems.	3	2	3	2
PEO2: Pursue advanced education to perform research and development activities and other innovative efforts in Engineering and Technology to adopt professional career.	3	2	2	3
PEO3: Practice engineering profession with ethics and values and to provide meaningful and qualitative engineering solutions to the society.	2	3	2	3
PEO4: Excel as a leader with expertise and contribute the services to the economic and social development of the nation.	1	2	3	3

JUSTIFICATION

Justification for Correlation (PEO to Mission Statements)

PEO/Mission Mapping	**M1:** Provide the state-of- art facilities	**M2:** Disseminate knowledge by recruiting qualified and experienced staff members	**M3:** Enhance innovative activities by collaborating with industry and research establishments.	**M4:** Encourage citizenship activities with knowledge and skills
PEO1: Apply learned technical knowledge and acquired skills as Mechanical Engineer to provide best and optimal solutions to industrial and real-life problems.	3	2	3	2
Justification for PEO1 Mapping				
PEO1 is mapped strongly to M1 as graduate engineer shall be able to make use of available facilities to provide optimal solutions to industrial and real-life problems. PEO1 is mapped moderately to M2 as graduate engineer shall be able acquire knowledge and apply the acquired technical knowledge to provide optimal solutions to industrial and real-life problems. PEO1 is mapped strongly to M3 as graduate engineer shall be able to collaborate with industry and research establishments with his/her knowledge to create and implement innovative activities. PEO1 is mapped moderately to M4 as graduate engineer shall be able to provide solutions to the society with his/her knowledge and skills.				
PEO2: Pursue advanced education to perform research and development activities and other innovative efforts in Engineering and Technology to adopt professional career.	3	2	2	2
Justification for PEO2 Mapping				
PEO2 is mapped strongly to M1 as graduate engineer shall be able to make use of state-of-art facilities to perform R&D activities in his/her career. **PEO2** is mapped moderately to M2 as graduate engineer shall be able to take the help of experienced and qualified teaching staff members to pursue further education as well as in performing R&D activities.				

PEO2 is mapped moderately to M3 as graduate engineer shall be able to perform and perceive R&D activities and innovations by collaborating with the industry and other research establishments.

PEO2 is mapped moderately to M4 as graduate engineer shall be able to perform meaningful, qualitative R&D activities and innovations which are useful to the society.

PEO3: Practice engineering profession with ethics and values and to provide meaningful and qualitative engineering solutions to the society.	2	3	2	3

Justification for PEO3 Mapping

PEO3 is mapped moderately to M1 as graduate engineer shall be able to provide meaningful and qualitative solutions using the best available facilities with ethics and values.

PEO3 is mapped strongly to M2 as graduate engineer shall be able to practice his/her engineering profession by taking the view of experienced staff members in providing meaningful and qualitative solutions to the problems of the society.

PEO3 is mapped moderately to M3 as graduate engineer shall be able to collaborate with the industry and research establishments and practice his/her profession with ethics and values to provide engineering solutions to the problems of the society.

PEO3 is mapped strongly to M4 as graduate engineer shall be able to encourage his team members with ethics and values in providing the meaningful and qualitative engineering solutions to the problems of the society.

PEO4: Excel as a leader with expertise and contribute the services to the economic and social development of the nation.	1	2	3	3

Justification for PEO4 Mapping

PEO4 is mapped at low level to M1 because graduate engineer shall make use of best equipment's to contribute to the growth of the nation.

PEO4 is mapped moderately to M2 because graduate engineer shall be in line with the views of experienced staff members to contribute his services to the growth of the nation.

PEO4 is mapped strongly to M3 because graduate engineer shall be able to lead the teams with his/her expertise in providing technical solutions by collaborating with research establishments and industries and in turn contribute to the growth of the nation.

PEO4 is mapped strongly to M3 because graduate engineer shall be able to become a leader with his/her expertise and should be able to provide engineering solutions to the society and hence contribute to the social and economic development of the nation.

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CRITERION 2	Program Curriculum and Teaching – Learning Processes	120

2.1. Program Curriculum **(20)**

2.1.1 State the process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure I. Also mention the identified curricular gaps, if any. **(10)**

A) Process used to identify extent of compliance of the University Curriculum for attaining the Program Outcomes and Program Specific Outcomes

Aditya College of Engineering, Surampalem is permanently affiliated to Jawaharlal Nehru Technological University Kakinada, Kakinada. Board of Studies (BOS) of the university has taken enough care to see that, all the POs are attained through prescribed curriculum. The course outcomes as prescribed by the University are adopted with minor changes. The Course Outcomes are mapped with POs and PSOs and rubrics are formulated from Blooms Taxonomy. With the matrix obtained, the weakly mapped POs and PSOs are identified. University Curriculum maintains a balance in the composition of basic sciences, humanities and social sciences, professional courses and their distribution in program core and program elective offerings. The department has put additional efforts to fill the identified gaps through Workshops, Guest Lectures, Seminars, Technical training and delivery of content beyond syllabus etc.

The following table shows the applicable regulations, academic year wise for different years of study:

Year	I	II	III	IV
2021-2022	R20	R20	R19	R16
2020-2021	R20	R19	R16	R16
2019-2020	R19	R16	R16	R16
2018-2019	R16	R16	R16	R16
2017-2018	R16	R16	R16	R16

Table 2.1.1(a): Academic Regulations

The following table illustrates the list of courses prescribed by the affiliated university (JNTUK) for R19 regulation.

I Year – I Semester

S. No	Course Code & (Category)	Subjects	L	T	P	Credits
1	C111 BS)	Mathematics – I	3	-	-	3
2	C112 (BS)	Mathematics – II	3	-	-	3
3	C113 (BS)	Engineering Physics	3	-	-	3
4	C114 (ES)	Programming for Problem Solving Using C	3	-	-	3
5	C115 (PC)	Engineering Drawing	1	-	3	2.5
6	C116 (HS)	English Lab	-	-	3	1.5
7	C117 (BS)	Engineering Physics Lab	-	-	3	1.5
8	C118 (ES)	Programming for Problem Solving Using C Lab	-	-	3	1.5
9	C119 (MC)	Constitution of India	2	-	-	-
Total Credits			**15**	**-**	**12**	**19**

I Year – II Semester

S. No	Course Code & (Category)	Subjects	L	T	P	Credits
1	C121 (HS)	English	3	-	-	3
2	C122 (BS)	Engineering Chemistry	3	-	-	3
3	C123 (PC)	Engineering Mechanics	3	-	-	3
4	C124 (ES)	Basic Electrical & Electronics Engineering	3	-	-	3
5	C125 (PC)	Computer Aided Engineering Drawing	1	-	3	2.5
6	C126 (HS)	Communication Skills Lab	-	-	2	1
7	C127 (BS)	Engineering Chemistry Lab	-	-	2	1.5
8	C128 (ES)	Basic Electrical & Electronics Engineering Lab	-	-	3	1.5
9	C129 (ES)	Workshop Practice Lab	-	-	3	1.5
10	C1210 (PR)	Engineering Exploration Project	-	-	2	1
Total Credits			**13**	**-**	**15**	**21**

II Year I Semester:

S. No.	Course Code & (Category)	Course Title	L	T	P	Credits
1	C211 (BS)	Vector Calculus & Fourier Transforms	3	--	--	3
2	C212 (PC)	Mechanics of Solids	3	--	--	3
3	C213 (PC)	Material Science & Metallurgy	3	--	--	3
4	C214 (PC)	Production Technology	3	--	--	3
5	C215 (PC)	Thermodynamics	3	--	--	3
6	C216 (PC)	Machine Drawing	1	--	3	2.5
7	C217 (PC)	Metallurgy & Mechanics of Solids Lab	--	--	3	1.5
8	C218 (PC)	Production Technology Lab	--	--	3	1.5
9	C219 (MC)	Environmental Science	3	--	--	--
10	C211- (PR)	Socially Relevant Project				0.5
Total Credits			**19**	**--**	**9**	**21**

II Year II Semester:

S. No	Course Code & (Category)	Course Title	L	T	P	Credits
1	C221 (BS)	Complex Variables & Statistical Methods	3	--	--	3
2	C222 (PC)	Kinematics of Machinery	3	--	--	3
3	C223 (PC)	Applied Thermodynamics	3	--	--	3
4	C224 (PC)	Fluid Mechanics & Hydraulic Machines	3	--	--	3
5	C225 (PC)	Metal Cutting & Machine Tools	3	--	--	3
6	C226 (PC)	Design of Machine Members-I	3	--	--	3
7	C227 (PC)	Fluid Mechanics & Hydraulic Machines Lab	--	--	3	1.5
8	C228 (PC)	Machine Tools Lab	--	--	3	1.5
9	C229 (MC)	Essence of Indian Traditional Knowledge	2	--	--	--
Total Credits			**20**	**--**	**6**	**21**

III Year I Semester:

S. No.	Course Code & (Category)	Course Title	L	T	P	Credits
1	C311 (PC)	Dynamics of Machinery	3	--	--	3
2	C312 (PC)	Design of Machine Members-II	3	--	--	3
3	C313 (PC)	Mechanical Measurements & Metrology	3	--	--	3
4	C314 (HS)	Managerial Economics and Financial Accountancy	3	--	--	3
5	C315 (PC)	IC Engines & Gas turbines	3	--	--	3
6	C316 (PC)	Thermal Engineering Lab	--	--	3	1.5
7	C317 (PC)	Theory of Machines Lab	--	--	3	1.5
8	C318 (PC)	Mechanical Measurements & Metrology Lab	--	--	3	1.5
9	C319 (PR)	Socially Relevant Project				0.5
Total Credits			**15**	**--**	**9**	**20**

III Year II Semester:

S. No	Course Code & (Category)	Course Title	L	T	P	Credits
1	C321 (PC)	Operations Research	3	--	--	3
2	C322 (PC)	Heat Transfer	3	--	--	3
3	C323 (PC)	CAD/CAM	3	--	--	3
4	C324 (PE)	1. Composite Materials 2. Refrigeration & Air Conditioning 3. Unconventional Machining Processes 4. Advanced Mechanics of Solids 5. MOOCS (NPTEL/Swayam)	3	--	--	3
5	C325 (PE)	1. Material Characterization 2. Tribology 3. Automobile Engineering 4. Mechatronics 5. MOOCS (NPTEL/Swayam)	3	--	--	3
6	C326 (PC)	Simulation of Mechanical Systems Lab	--	--	2	1
7	C327 (PC)	Heat Transfer Lab	--	--	3	1.5
8	C328 (PC)	CAD /CAM Lab	--	--	3	1.5
9	C329 (PR)	Summer Internship*	--	--		1
		Total Credits	**15**	**--**	**9**	**20**

IV Year I Semester:

S. No	Course Code & (Category)	Course Title	L	T	P	Credits
1	C411 (HS)	Industrial Management	3	--	--	3
2	C412 (PC)	Finite Element Methods	3	--	--	3
3	C413 (PE)	1. Mechanical Vibrations 2. Renewable Energy Sources 3. Production Planning & Control 4. Machine Tool Design 5. MOOCs (NPTEL/Swayam)	3	--	--	3
4	C414 (PE)	1. Industrial Automation and Robotics 2. Micro and Nano manufacturing 3. Power Plant Engineering 4. Optimization Techniques 5. MOOCS (NPTEL/Swayam)	3	--	--	3
5	C415 (OE)	Open Elective –I	3	--	--	3
6	C416 (PC)	Finite Element Simulation Lab	--	--	2	1
7	C417 (PR)	Project-I	--	--	4	1.5
Total Credits			**15**	--	**6**	**18**

IV Year I Semester:

S. No	Course Code & (Category)	Course Title	L	T	P	Credits
1	C421 (PE)	1. Additive Manufacturing 2. Gas Dynamics and Jet Propulsion 3. Product design and development 4. Reliability Engineering 5. MOOCs (NPTEL/Swayam)	3	--	--	3
2	C422 (PE)	1. Condition Monitoring 2. Computational Fluid Dynamics 3. Non-Destructive Evaluation 4. Control Systems. 5. Entrepreneurship Development	3	--	--	3
3	C423 (OE)	Open Elective -II	3	--	--	3
4	C424 (OE)	Open Elective -III	3	--	--	3
5	C425 (PR)	Project-II	3	--	--	3
Total Credits			**15**	--	**6**	**18**

Open Elective -I:

1. MEMS
2. Optimization Methods
3. Operations Management
4. Nano Technology
5. Finite Element Analysis

Open Elective-II:

1. Green Energy Systems
2. Robotics
3. Energy Consumption and Management
4. 3D Printing Technologies
5. Mechatronics.

Open Elective-III:

1. Total Quality Management
2. Supply Chain Management
3. Product Design & Development
4. Entrepreneurship
5. Advanced Materials

Note:

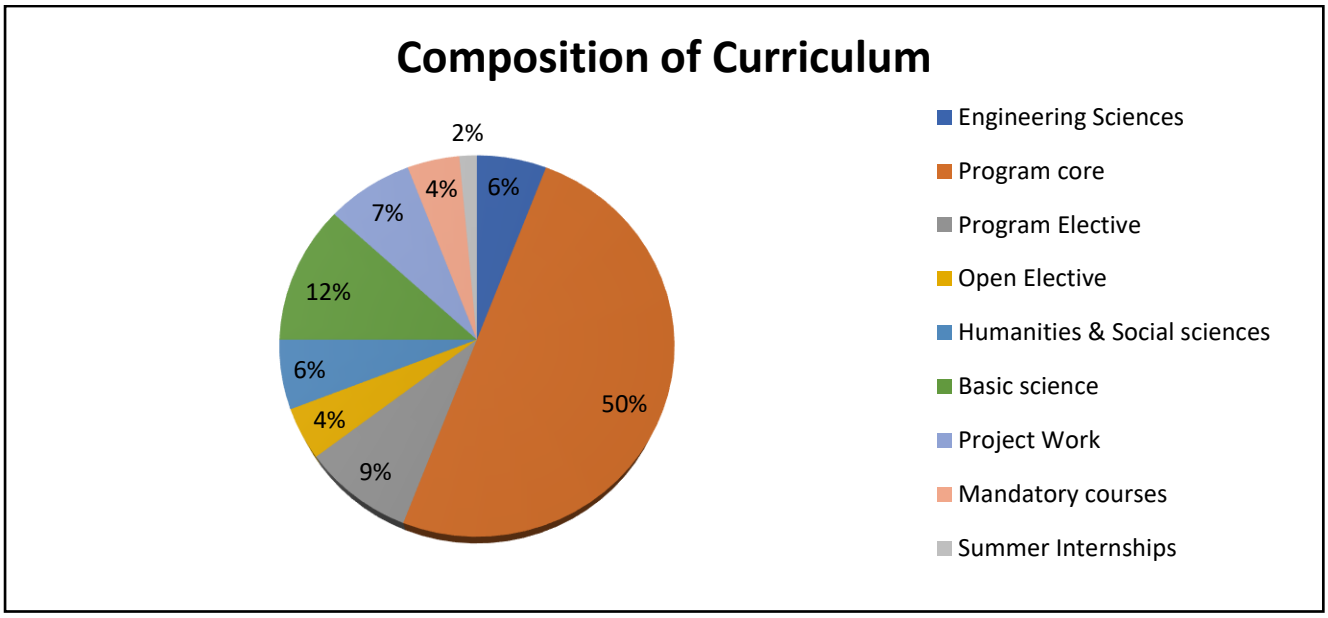
ES-Engineering Science.
PC-Program Core.
PE-Program Elective.
OE-Open Elective.
HS-Humanities & Social Sciences.
BS-Basic Sciences.
PR-Project work.
MC-Mandatory Course.

University Curriculum Analysis:

University curriculum maintains a balance in the composition of basic sciences, humanities and social sciences, professional courses and their distribution in program core and program elective offerings. The R19 curriculum for the Mechanical engineering program prescribed by the university has

Category	Courses	Category	Courses
Engineering Sciences	4	Humanity & Social Sciences	04
Program Core	34	Basic Science	8
Program Elective	06	Project Work	5
Open Elective	03	Mandatory Courses	3
Summer Internship	1		

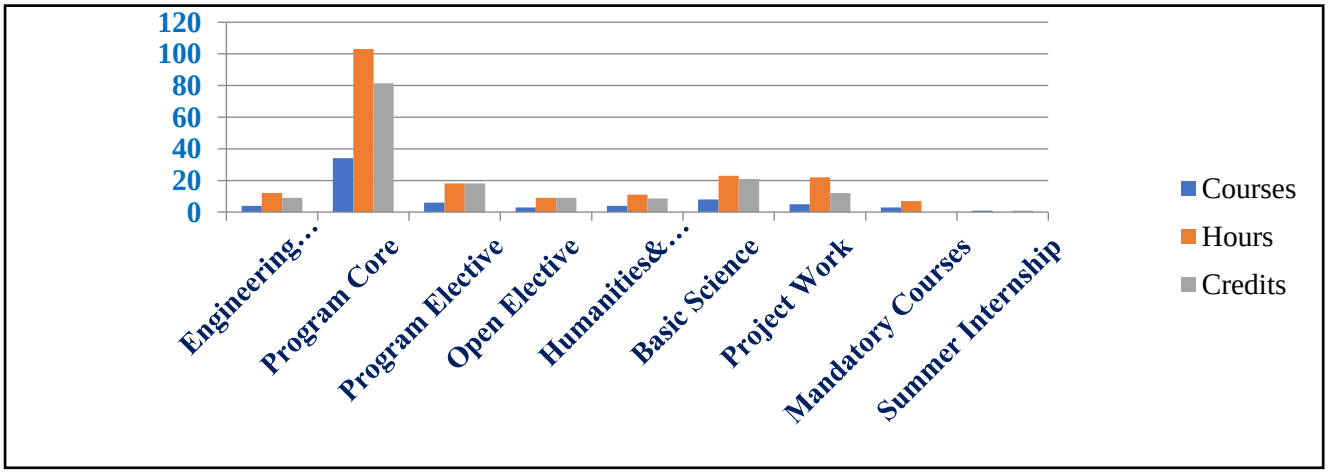
Table 2.1.1(b): Composition of Curriculum



The following table depicts the University curriculum analysis for R19 regulation of UG program.

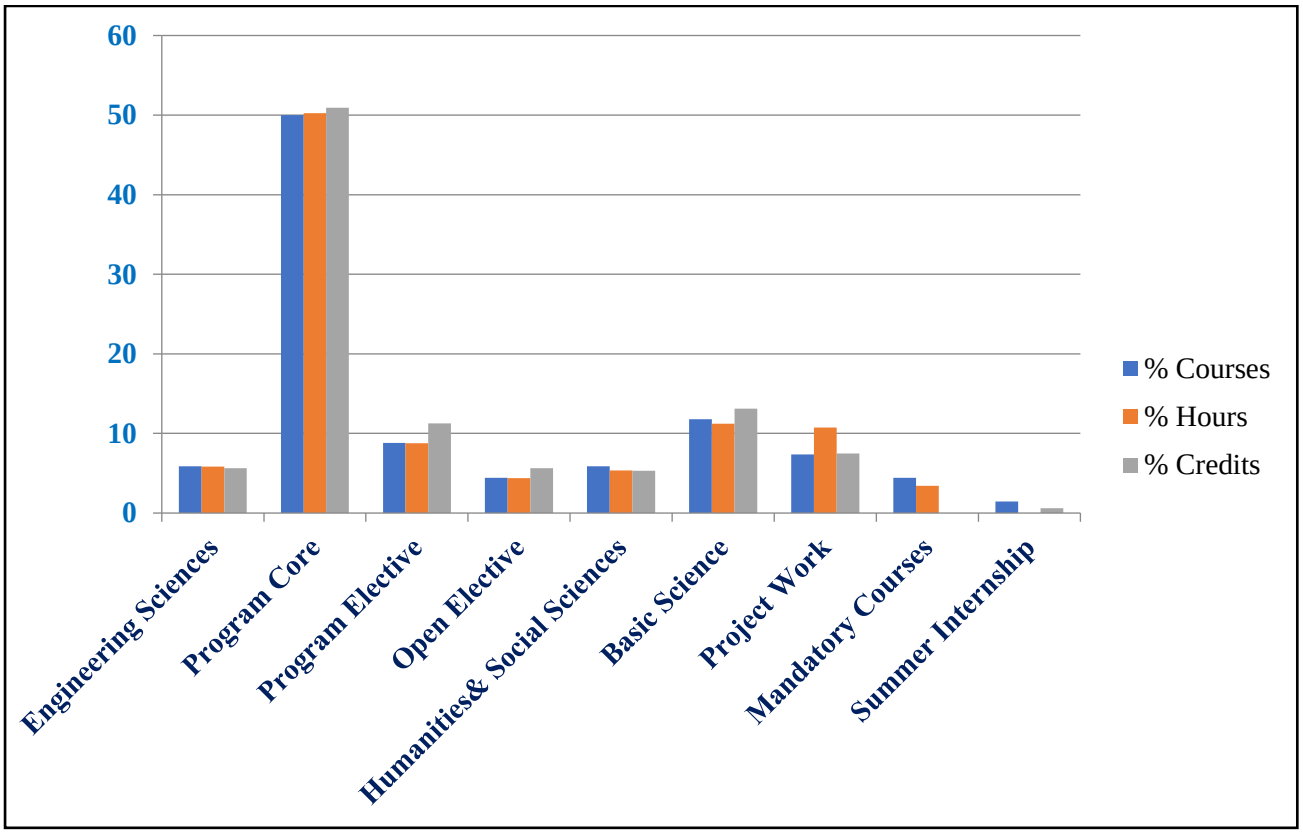
Category	Courses	Hours	Credits
Engineering Sciences	4	12	9
Program Core	34	103	81.5
Program Elective	6	18	18
Open Elective	3	9	9
Humanities& Social Sciences	4	11	8.5
Basic Science	8	23	21
Project Work	5	22	12
Mandatory Courses	3	7	0
Summer Internship	1	0	1

Table 2.1.1(c): University Curriculum Analysis (Numbers)



Category	% Courses	% Hours	% Credits
Engineering Sciences	5.88	5.85	5.625
Program Core	50	50.24	50.94
Program Elective	8.82	8.78	11.25
Open Elective	4.41	4.39	5.62
Humanities& Social Sciences	5.88	5.36	5.31
Basic Science	11.8	11.22	13.13
Project Work	7.35	10.73	7.5
Mandatory Courses	4.41	3.42	0
Summer Internship	1.47	0	0.625

Table 2.1.1(c): University Curriculum Analysis (Percentage)



Program Outcomes (POs) & Program Specific Outcomes (PSOs) along with their Mapped Courses are given in the following table:

S. No	POs and PSOs	Mapped Courses
1	**PO1:** Engineering Knowledge	**Theory Courses:** C111, C112, C113, C115, C121, C122, C123, C124, C125, C211, C212, C213, C214, C215, C221, C222, C223, C224, C225, C226, C311, C312, C314, C315, C321, C322, C323, C411, C412, C413, C414, C415, C416 C421, C423, C424. **Laboratory Courses and Project:** C116, C117, C126, C127, C128, C217, C218, C227, C228, C317, C318, C327, C328, C417.
2	**PO2:** Problem Analysis	**Theory Courses:** C111, C112, C113, C121, C122, C123, C124, C125, C211, C212, C213, C214, C215, C221, C222, C223, C224, C225, C226, C311, C312, C314, C315, C321, C322, C323, C325, C411, C412, C413, C414, C415, C416, C421, C423, C424. **Laboratory Courses and Project:** C116, C117, C126, C127, C128, C217, C227, C228, C317, C318, C327, C328, C417.
3	**PO3:** Design/Development of Solution	**Theory Courses:** C113, C115, C124, C221, C222, C223, C224, C225, C226, C321, C322, C323, C325, C421, C423. **Laboratory Courses and Project:** C117, C128, C227, C228, C327, C328.
4	**PO4:** Conduct Investigations of Complex Problems	**Theory Courses:** C221, C223, C224, C225, C226, C323, C421. **Laboratory Courses and Project:** C127, C228, C327.
5	**PO5:** Modern Tool	**Theory Courses:** C112, C123, C115, C225, C322. **Laboratory Courses and Project:** C116, C328.
6	**PO6:** The Engineer and Society	**Theory Courses:** C114, C423, C424
7	**PO7:** Environment and Sustainability	**Theory Courses:** C122, C125, C223, C325, C423, C424 **Laboratory Courses and Project:** C126, C127
8	**PO8:** Ethics	**Theory Courses:** C114
9	**PO9:** Individual and Team Work	**Theory Courses:** C325 **Laboratory Courses and Project:** C116, C126, C127, C128, C227, C228

10	**PO10:** Communication	**Theory Courses:** C114, C325 **Laboratory Courses and Project:** C118, C227
11	**PO11:** Project Management & Finance	**Theory Courses:** C325, C421
12	**PO12:** Life - long Learning	**Theory Courses:** C112, C223, C321, C421, C423 **Laboratory Courses and Project:** C116, C126, C128, C327, C328
13	**PSO1:** Apply the analytical skills of Mathematics, Basic science and Mechanical Engineering Streams to formulate, analyze and proved solution to complex engineering problems.	**Theory Courses:** C111, C112, C113, C114, C119, C121, C122, C123, C124, C211, C212, C215, C223, C224, C226, C311, C313, C314, C315, C323, C324, C413**.** **Laboratory Courses and Project:** C116, C117, C118, C126, C127, C128, C217, C227, C318, C326, C328, C417, C426
14	**PSO 2:** Design system components or process of Manufacturing, Thermal Engineering Machine Elements and inter-disciplinary fields by applying appropriate techniques to meet the needs of industry and society	**Theory Courses:** C115, C125, C213, C214, C216, C225, C228, C312, C321, C323, C325, C411, C412, C414, C415, C416, C421, C422, C423, C424, C426 **Laboratory Courses and Project:** C129, C1210, C217, C218, C227, C316, C317, C318, C326, C327, C328, C418, C425, C426

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B) Process for curriculum gap identification:

The curriculum for Mechanical Engineering program is designed by affiliated university (JNTU - Kakinada) in consent with subject experts of university, affiliated colleges, personnel from industry and R&D. The curriculum comprises 60% of theory and 40% of practicals in tune with the current trends in the industry. The course outcomes for each subject are stated in the printed syllabus copies. The syllabus copies are distributed to individual students and also uploaded in the college website for stake holders. Course contents and scheme of instructions are revised every four years by Board of Studies in consultation with faculty handling the subjects of all affiliated colleges.

Lectures are delivered as per the curriculum and academic calendar designed by the department.

Curriculum gaps are identified by correlating the course outcomes with POs & PSOs. Gaps thus identified are submitted to Board of studies of JNTU - Kakinada for the revision of courses.

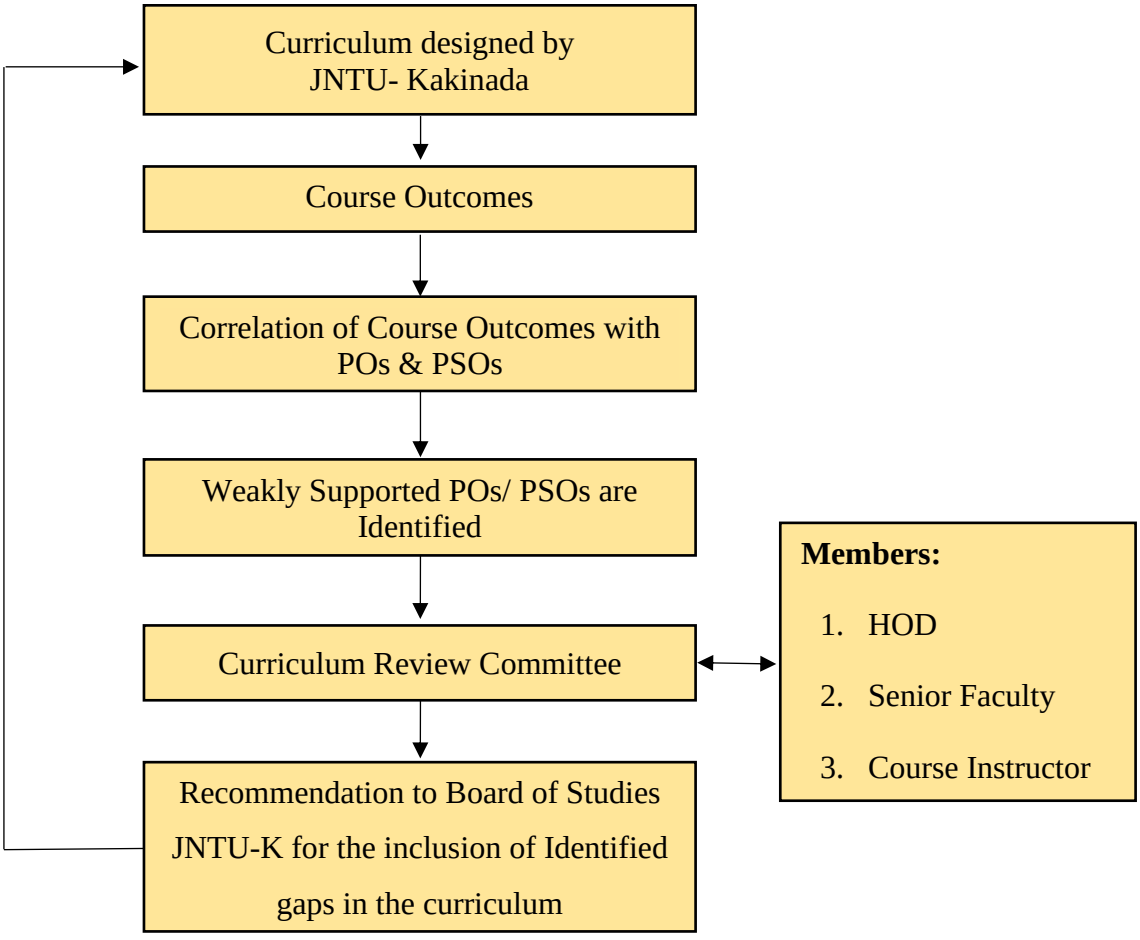

Fig: - Process for identifying the curricular gaps

Each Faculty will follow the process mentioned above meticulously for identifying the gaps in the curriculum. The following table illustrates a few of the gaps identified during the various academic years under consideration. Each faculty analyses the curriculum for the courses they have taken up and finds the PO relevance considering the COs framed by them for the course.

C. Gaps identified in the following aspects are filled through Guest Lectures, Hands-on workshops, seminars, training sessions etc.

1. Technical skills to suit the industry needs.
2. Practical applications.
3. Knowledge about new technologies and tools.
4. Soft skills for employability.

A.Y: 2021 - 2022

S. No.	Course Name	Identified Gaps
1	Mechanics of Solids	Design of springs
2	Thermal Engineering-I	I.C Engines and Combustion Technology
3	Finite Element Methods	Modelling of simple truss and beam problems using ANSYS to find the solution for displacements and stresses.
4	Metallurgy and material science	Latest applications & Properties of ceramic and composite materials.
5	Heat Transfer	Bio-Heat Equation
6	Kinematics of Machinery	Transmission Angle and Toggle Positions of single Slider Mechanisms

A. Y: 2020-21

S. No.	Subject	Identified Gaps
1	Mechanics of Solids	Theories of elastic failure.
2	Dynamics Of Machinery	Practical approach in design of mechanical systems.
3	MCMT	Automated systems and equipment used in manufacturing.
4	Operations Research	Sensitivity analysis of linear programming problems.
5	Thermal Engineering-II	Understanding the operations & maintenance of Thermal Power Plants.
6	Mechatronics	Exposure on ladder interfacing software to develop a programme has to be provided.
7	CAD/CAM	CNC coding skills are lagging.
8	Finite Element Methods	Solving of complex large size stiffness matrices using MATLAB.
9	DMM-I	Design of Fasteners.

10	Metrology	Geometric dimensioning & tolerancing.
11	R&AC	Practical knowledge on R&AC equipment is lagging.
12	Heat Transfer	Numerical methods in conduction Steady state one dimensional and two-dimensional problems.
13	Additive Manufacturing	Selection of Additive manufacturing technologies using decision methods.
14	Automobile Engineering	Servicing and maintenance of Automobiles.

A.Y: 2019-20

S. No.	Subject	Identified Gaps
1	Mechanics of Solids	Coloums & Struts
2	Power Plant Engineering	Recent improvements in power industry.
3	MMS	Advanced Materials
4	Managerial Economics and Financial Analysis	Financial Management
5	Thermal engineering-I	Recent developments in IC Engines
6	Production Technology	Skill Upgradations in Welding techniques
7	CAD/CAM	CNC coding skills are lagging
8	Finite Element Methods	Moving beyond finite elements: towards mesh less iso-geometric approaches.
9	FM&HM	Compressible flow and shock waves
10	Industrial Engineering and Management	Project and quality management
11	R&AC	Design of Industrial air-conditioning equipment
12	Production planning and control	Process Automation
13.	Automobile Engineering	Innovative methods: advancements in automobile applications
14	Instrumentation and Control Systems	Smart sensors
15	Design of machine members	Design & Analysis of mechanical systems
16	MCMT	Knowledge on Advanced manufacturing methods

A.Y: 2018-19

S. No.	Subject	Identified Gaps
1	Thermal Engineering-I	Latest developments in IC Engines
2	Production technology Lab	Skill Upgradations in Welding techniques
3	Kinematics of machinery	Displacement analysis of plane mechanisms
4	Dynamics of Machinery	Instruments for dynamic measurements
5	Operations Research	Sensitivity analysis of linear programming problems
6	IPR & Patents	Understanding of Intellectual properties & Rights is Lagging
7	Refrigeration & Air conditioning	Servicing and maintenance R & AC equipment
8	Automobile Engineering	Servicing and maintenance Automobiles
9	CAD/CAM	Training on CNC Coding is required
10	Unconventional machining processes	Advanced machining techniques
11.	Automobile Engineering	Advancements in Automobile Applications
12	CAEDP	Skill Upgradations in modern tools
13	Professional Ethics & Human values	Awareness of Ethical values in technical education
14	Thermal engineering-II	Modern tool usage in analysis of thermal systems

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2.1.2 State the delivery details of the content beyond the syllabus for the attainment of POs and PSOs. (10)

Academic Year: 2021-2022

S. No.	Gap identified	Action taken	Date	Resource Person with designation	% of students present	Relevance to POs, PSOs
1	Design of springs	One NPTEL Lecture	18-01-22	Dr. S. K. Bhattacharya, Professor, Civil Eng. IIT Kharagpur	100%	PO1, PO2, PO3, PSO1, PSO2
2	I.C engines and combustion technology	One Day Guest lecture delivered	22-04-22	Dr. T. Karthikeya Sharma, Assistant Professor, Mechanical engineering, NIT, Andhra Pradesh	100	PO1, PO2, PO6, PO12, PSO1, PSO2
3	Modelling of simple truss and beam problems using ANSYS to find the solution for displacements and stress	One Day Guest Lecture	14-12-21	Mr. Shiva Rama Krishna AGM Production M & M, Tambaram, Chennai	100	PO1, PO2, PO3, PO5, PSO1, PSO2
4	Latest applications & properties of ceramic and composite materials	One NPTEL lecture video class	19-05-22	Dr. Inderdeep Singh, Professor, Department of Mechanical Engineering, IIT Roorkee	100	PO1, PO3, PO7, PSO1, PSO2
5	Bio-heat equation	One day Guest Lecture on Bio-Heat equation	26-04-22	Dr. N. Alagumurthi, Professor, Mechanical Engineering, PTU, Puducherry	95	PO1, PO2, PO3, PO4, PO12, PSO1, PSO2
6	Transmission angle and toggle positions of single slider mechanisms	One Guest lecture video class	8-01-2022	Mr. Veeresh Prasad Tiruvuri Head -India Services: Process Automation, Schneider electric	100	PO1, PO2, PO3, PSO1, PSO2

Academic Year: 2020-2021

S. No	Gap identified	Action taken	Date	Resource Person with designation	% Of students present	Relevance to POs, PSOs
1	Theories of elastic failure	One NPTEL lecture video class	12-11-2020	Prof. Ratna kumar Annabattula, IIT MADRAS	95%	PO1, PO2
2	Practical approach in design of mechanical systems	A guest lecture on "DESIGN OF MECHANICAL SYSTEMS"	2-12-2020	Dr. N Alagamurthi, Professor Puducherry technological university	100	PO2, PO3, PSO2
3	Automated systems and equipment used in manufacturing	One NPTEL lecture video class	18-02-2021	Dr. Shrikrishna N. Joshi, Assoc. Prof IIT Guwahati	100	PO1, PO5
4	Sensitivity analysis of linear programming problems.	One NPTEL lecture video class	16-11-2020	Prof. G. Srinivasan IIT Madras	100	PO2, PSO1
5	Understanding the operations & maintenance of Thermal Power Plants	Guest delivered on "Thermal Power Plant Operations"	19-01-2021	Mr. A. Sainadh, Senior Engineer, RKM Power Gen. Ltd. Chattisgarh	100	PO1, PO6, PO7, PO8, PO12
6	Exposure on ladder interfacing software to develop a programme has to be provided.	A two-day workshop on "PROGRAMMING(LADER) FOR LOGICAL CONTROL"	18-01-2021 to 19-01-2021	Mr. Veeresh Prasad Tiruvuri Head-India services, Process automation, Schneider electric.	100	PO1, PO5, PO6, PO10, P012, PSO2
7	CNC coding skills are lagging	One-week APSSDC training on "CNC"	29-03-2021 to 03-04-2021	APSSDC	85	PO1, PO2, PSO1

8	Solving of complex large size stiffness matrices using MATLAB.	A guest lecture on “Improving problem solving skills in FEM”	17-12-2020	Dr. K Mallikarjuna Rao, Prof (Retd.) UCEK JNTUK	100	PO3, PO5, PSO1
9	Boundary layer separation	One NPTEL lecture video class	30-04-2021	Prof. Suman Chakrabarthy IIT Kharagpur	95	PO2, PO4
10	Design of Fasteners	One NPTEL lecture video class	12-01-2021	Prof. Goutham Chakraborthy IIT Kharagpur	95	PO2, PO3
11	Geometric dimensioning & tolerancing	Three NPTEL lecture videos classes	08-04-2021 to 10-04-2021	Prof. Sajan Kapil IIT Guwahati	100	PO1, PO2
12	Practical knowledge on R&AC equipment is lagging	One-week APSSDC training on R&AC Foundation	15-04-2021 to 21-04-2021	APSSDC	100	PO2, PO3, PSO2
13.	Numerical methods in conduction Steady state one dimensional and two-dimensional problems	Two NPTEL lecture video classes	07-05-2021 to 08-05-2021	Prof. S.P. Sukhatme IIT Bombay	100	PO3, PO5, PO12
14	Selection of Additive manufacturing technologies using decision methods	One NPTEL lecture video class	15-02-2021	Prof. Sajan Kapil IIT Guwahati	90	PO1, PO2, PSO1
15	Servicing and maintenance of Automobiles	One-week APSSDC training on 4-wheeler	21-06-2021 to 26-06-2021	APSSDC	90	PO2, PO3, PSO2

Academic Year: 2019-2020

S. No.	Gap identified	Action taken	Date	Resource Person with designation	% Of students present	Relevance to Pos, PSOs
1	Innovative Methods: Advancements in Automobile Applications	SAE-BAJA-2019 National level Competitions at Chitkara University, Punjab, India.	12-04-2019	Faculty of the Department (SAE Collegiate Club)	25	PO1, PO2, PO3, PO5, PO8, PO9, PO11, PO12, PSO1
2	Design & Analysis of Mechanical Systems	SAE-NIS Efficycle-2019 National level Competitions at GMRIT, Rajam, AP, India.	01-10-19 to 05-10-19	Faculty of the Department (SAE Collegiate Club)	25	PO1, PO2, PO3, PO5, PO8, PO9, PO11,
3	Recent developments in IC Engines	Two-days' workshop on "Advanced IC Engines"	12-08-19 to 13-08-19	Prof. V Pamdu Ranga Rao, IIT Bhubaneswar	100	PO1, PO4, PO12, PSO1, PSO2
4	Advanced Materials	Guest lecture delivered on "Recent Advances in Composites."	23-09-19	Dr. Amritham Raja Gopal, Associate professor IIT H	100	PO1, PO2, PO3, PO5, PO12, PSO1
5	Skill upgradations in "CNC Coding."	One-week APSSDC training on "CNC coding"	23-09-19 to 28-09-19	S. Shiva Ram CNC CODING Trainer APSSDC	85	PO1, PO2, PSO1
6	Skill upgradations in Welding techniques	One-week APSSDC training on "Latest Welding Techniques"	16-09-19 to 21-09-19	Y. Srinu babu Welding Trainer APSSDC	100	PO3, PO5, PSO1
7	Compressible flow	One NPTEL lecture video class is presented	30-08-19	Prof Suman Chakrabarthy IIT Kharagpur	95	PO2, PO4
8	Knowledge on Advanced manufacturing methods is lagging	Guest lecture delivered on "Recent trends in manufacturing"	09-09-19	Prof. CSP Rao, NIT Warangal	95	PO2, PO3, PO6

9	Advanced Computational Methods	Moving Beyond Finite Elements: Towards Mesh less Iso- parametric Approaches.	04-10-2019	Dr. K. Mallikarjuna Rao, Professor (Retd), UCEK JNTUK	100	PO1, PO2, PO3, PO5, PO12, PSO1
10	Design of Industrial air-conditioning equipment	Workshop on "Industrial air-conditioning"	19-03-2020 to 20-03-2020	Prof. L S V Prasad, Andhra university	100	PO2, PO3, PSO2
11	Recent improvements in power industry	Guest lecture delivered on "Latest improvements in power industry"	03-10-2019	Mr. Viswanath Kiran Executive Engineer NTPC	100	PO3, PO5, PO12
12	Smart sensors	One Nptel lecture Video class is presented	20-03-2020	Prof. A. Barua, Dept of Electrical Engineering, IIT Kharagpur	90	PO1, PO3, PO5, PSO1
13	Financial Management	One Nptel lecture Video class is presented	04-10-2019	Mrs. Padmini Srinivasan, Associate Professor, IIM Bangalore.	95	PO3, PO5, PO1
14	Project Management	One Nptel lecture Video class is presented	18-03-2020	Prof. M. K. Barua, Associate Professor, IIT Roorkee	95	PO2, PO3, PSO1
15	Process Automation	Guest lecture delivered on "Industrial automation & Turbo machinery	19-08-2019	Mr. Veeresh Prasad Tiruvuri; Associate General manager, Schneider Electric Systems India Pvt Ltd	100	PO2, PO5, PO6, PO10, PO12
16	Columns and struts	One Nptel lecture Video class is presented	09-09-2019	Prof. SP Sharma, IIT Roorkee	100	PO1, PO2, PO4, PSO1, PSO2

Academic Year: 2018-2019

S. No.	Gap identified	Action taken	Date	Resource Person with designation	% of students present	Relevance to Pos, PSOs
1	Latest developments in IC Engines	Workshop on "IC Engines"	24-01-19 to 25-01-19	Prof. V Pamdu Ranga Rao, IIT Bhubaneswar	100	PO1, PO5
2	Skill upgradations in welding techniques	One-week APSSDC training on "WELDING TECNIQUES"	31-12-18 to 07-01-19	Y. Srinubabu, Trainer - APSSDC	100	PO1, PO2, PO3, PO5, PO12, PSO1
3	Displacement analysis on plane mechanisms	Two NPTEL lecture video classes are presented	19-11-18 to 20-11-18	Prof. Ashok K Mallik IIT Kanpur.	100	PO3, PO5, PSO1
4	Sensitivity analysis of linear programming problems	Two NPTEL lecture video classes are presented	28-06-18 to 29-06-18	Prof. G. Srinivasan IIT Madras	95	PO2, PO4
5	Understanding of Intellectual properties & Rights	Workshop held on "Intellectual properties & Rights"	06-10-18	D. Karthik, Data scientist Karvy Analytics & Cotiviti healthcare.	95	PO2, PO3
6	Innovative Methods : Advancements in Automobile Applications	Students are encouraged to participate in "Champion of Champions" organized by ISIE and APSSDC	22-02-19 to 25-02-19	Mr. P Satish Assistant Professor Aditya College of Engineering	25	PO1, PO2, PO3, PO5, PO12, PSO1
7	Servicing & maintenance of R & AC equipment	One-week APSSDC training on "R&AC"	18-03-19 to 23-03-19	APSSDC	100	PO2, PO3, PSO2

8	Modern tool usage in analysis of thermal systems	One day Guest lecture on Analysis of Thermal systems using Ansys.	14-03-19	Prof. B. Bala Krishna, JNTUK, Kakinada	100	PO3, PO5, PO12
9	Servicing and maintenance of Automobiles	One-week APSSDC training on “Automobile 4-wheeler”	18-03-19 to 23-03-19	APSSDC	90	PO1, PO2, PSO1
10	CNC Coding skills are lagging	One-week APSSDC training on “CNC”	24-09-18 to 29-09-19	S. Shiva Ram CNC CODING Trainer APSSDC	90	PO2, PO3, PSO2
11	Advanced machining techniques	One day Guest lecture on “Micro Machining Techniques”	12-09-18	Prof. A. Sridhar Dept oh ME Gitam University	100	PO1, PO2, PSO1
12	Skill Upgradations in modern tools	One-week APSSDC training on “Design CBT (Solid Edge)”	17-09-18 to 22-09-18	V. Murali Mohan Trainer - APSSDC	100	PO5, PSO2
13	Awareness of Ethical values in technical education	Guest lecture on “Inculcating Human values abd Ethics in Technical education”	02-03-19	Dr. J. Hanumant Rao Professor, ACET, Surampalem	95	PO6, PO8
14	Instruments for Dynamic measurements	Two NPTEL lecture video classes are presented	05-10-18 to 06-10-18	Prof. Ashok K Mallik IIT Kanpur.	100	PO1, PO5

2.2 Teaching Learning Processes (100)

2.2.1 Describe Processes followed to improve quality of Teaching & Learning (25)

A. Adherence to Academic calendar

JNTUK issues the calendar in the beginning of every academic year. The institute follows this calendar, as it is affiliated to JNTUK and web-link: www.jntuk.edu.in (http://www.jntuk.edu.in/).

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Directorate of Academic Planning
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
KAKINADA-533003, Andhra Pradesh, INDIA
(Established by AP Government Act No. 30 of 2008)

Lr. No. DAP/RAC/ II,III & IV Year /B. Tech/B. Pharmacy/2021 *Date 08.10.2021*

Dr. R. Srinivasa Rao,
Director, Academic Planning
JNTUK, Kakinada

To
All the Principals of Affiliated Colleges,
JNTUK, Kakinada.

Revised Academic Calendar for II, III, IV Year - B. Tech/B. Pharmacy for the AY 2021-22
(As per G.O. Rt. No. 242, Higher Education (U.E) Dept., dated 13.09.2021)

I SEMESTER			
Description	**From**	**To**	**Weeks**
Commencement of Class Work	**01.10.2021**		
I Unit of Instruction	01.10.2021	20.11.2021	7W
I Mid Examinations	22.11.2021	27.11.2021	1W
II Unit of Instructions	29.11.2021	15.01.2022	7W
II Mid Examinations	17.01.2022	22.01.2022	1W
Preparation & Practicals	24.01.2022	29.01.2022	1W
End Examinations	31.01.2022	12.02.2022	2W
Commencement of II Semester Class Work	**14.02.2022**		
II SEMESTER			
I Unit of Instructions	**14.02.2022**	02.04.2022	7W
I Mid Examinations	04.04.2022	09.04.2022	1W
II Unit of Instructions	11.04.2022	28.05.2022	7W
II Mid Examinations	30.05.2022	04.06.2022	1W
Preparation & Practicals	06.06.2022	11.06.2022	1W
End Examinations	13.06.2022	25.06.2022	2W
Commencement of next Year Class Work			
Note: Calendar is prepared with 8 hrs/day hence 7 weeks per instruction period			

R. Srinivasa Rao
Director Academic Planning
Director
Academic Planning
JNTUK Kakinada

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Directorate of Academic Planning
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
KAKINADA-533003, Andhra Pradesh, INDIA
(Established by AP Government Act No. 30 of 2008)

Lr. No. 01-08/ JNTUK/DAP/AC/B. Tech-B. Pharmacy/II-III-IV Year/2020-21 *Date: 29-12-2020*

Dr. R. Srinivasa Rao,
Director, Academic Planning
JNTUK, Kakinada

To
All the Principals of Affiliated Colleges,
JNTUK, Kakinada.

Academic Calendar for II, III and IV - B. Tech & B. Pharmacy
Academic year 2020-21

I SEMESTER			
Description	**From**	**To**	**Weeks**
Commencement of Class Work	**02.11.2020**		
I Unit of Instruction	02.11.2020	19.12.2020	7W
II Unit of Instructions	21.12.2020	23.01.2021	5W
I Mid Examinations	25.01.2021	30.01.2021	1W
II Unit of Instructions(Continued)	01.02.2021	20.02.2021	3W
II Mid Examinations	22.02.2021	27.02.2021	1W
Preparation & Practicals	01.03.2021	06.03.2021	1W
End Examinations	08.03.2021	20.03.2021	2W
Commencement of II Semester Class Work	**22.03.2021**		
II SEMESTER			
I Unit of Instructions	**22.03.2021**	08.05.2021	7W
I Mid Examinations	10.05.2021	12.05.2021	1/2W
II Unit of Instructions	13.05.2021	30.06.2021	7W
II Mid Examinations	01.07.2021	03.07.2021	1/2W
Preparation & Practicals	05.07.2021	10.07.2021	1W
End Examinations	12.07.2021	24.07.2021	2W
Commencement of next Year Class Work			
Note: Calendar is prepared with 8 hrs/day hence 7 weeks per instruction period			

R. Srinivasa Rao
Director Academic Planning
Director
Academic Planning
JNTUK Kakinada

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Directorate of Academic & Planning
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(Established by AP Government Act No. 30 of 2008)

Lr. No. JNTUK/DAP/AC/B. Tech/II Year/2019-20 *Date: 30-05-2019*

Dr. A. Mallikarjuna Prasad
M.E, Ph.D.,
Director, Academic Planning

To
All the Principals of Affiliated Colleges,
JNTUK, Kakinada

ACADEMIC CALENDAR FOR B.TECH II YEAR (2018 BATCH)

I SEMESTER			
Description	**From**	**To**	**Weeks**
Commencement of Class Work	**10.06.2019**		
I Unit of Instructions	10.06.2019	03.08.2019	8W
I Mid Examinations	05.08.2019	10.08.2019	1W
II Unit of Instructions	12.08.2019	05.10.2019	8W
II Mid Examinations	07.10.2019	12.10.2019	1W
Preparation & Practicals	14.10.2019	19.10.2019	1W
End Examinations	21.10.2019	02.11.2019	2W
Commencement of II Semester Class Work	**18.11.2019**		
II SEMESTER			
I Unit of Instructions	**18.11.2019**	11.01.2020	8W
I Mid Examinations	13.01.2020	23.01.2020	1W
II Unit of Instructions	24.01.2020	21.03.2020	8W
II Mid Examinations	23.03.2020	28-03-2020	1W
Preparation	30.03.2020	04.04.2020	1W
End Examinations	06.04.2020	18.04.2020	2W
Commence of III Year Class Work	**08.06.2020**		

A.m.prasad
Director Academic Planning

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Directorate of Academic & Planning
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
KAKINADA-533003, Andhra Pradesh, INDIA
(Established by AP Government Act No. 30 of 2008)

Lr. No. JNTUK/DAP/AC/B. Tech/III Year/2019-20 *Date: 30-05-2019*

Dr. A. Mallikarjuna Prasad
M.E, Ph.D.,
Director, Academic Planning

To
All the Principals of Affiliated Colleges,
JNTUK, Kakinada

ACADEMIC CALENDAR FOR B.TECH III YEAR (2017 BATCH)

I SEMESTER			
Description	**From**	**To**	**Weeks**
Commencement of Class Work	**10.06.2019**		
I Unit of Instructions	10.06.2019	03.08.2019	8W
I Mid Examinations	05.08.2019	10.08.2019	1W
II Unit of Instructions	12.08.2019	05.10.2019	8W
II Mid Examinations	07.10.2019	12.10.2019	1W
Preparation & Practicals	14.10.2019	19.10.2019	1W
End Examinations	21.10.2019	02.11.2019	2W
Commencement of II Semester Class Work	**18.11.2019**		
II SEMESTER			
I Unit of Instructions	**18.11.2019**	11.01.2020	8W
I Mid Examinations	13.01.2020	23.01.2020	1W
II Unit of Instructions	24.01.2020	21.03.2020	8W
II Mid Examinations	23.03.2020	28-03-2020	1W
Preparation	30.03.2020	04.04.2020	1W
End Examinations	06.04.2020	18.04.2020	2W
Commence of IV Year Class Work	**08.06.2020**		

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Lr. No. JNTUK/DAP/AC/B. Tech/IV Year/2019-20 *Date: 30-05-2019*

Dr. A. Mallikarjuna Prasad
M.E, Ph.D.,
Director, Academic Planning

To
All the Principals of Affiliated Colleges,
JNTUK, Kakinada

ACADEMIC CALENDAR FOR B.TECH IV YEAR (2016 BATCH)

I SEMESTER			
Description	**From**	**To**	**Weeks**
Commencement of Class Work	**10.06.2019**		
I Unit of Instructions	10.06.2019	03.08.2019	8W
I Mid Examinations	05.08.2019	10.08.2019	1W
II Unit of Instructions	12.08.2019	05.10.2019	8W
II Mid Examinations	07.10.2019	12.10.2019	1W
Preparation & Practicals	14.10.2019	19.10.2019	1W
End Examinations	21.10.2019	02.11.2019	2W
Commencement of II Semester Class Work	**18.11.2019**		
II SEMESTER			
I Unit of Instructions	**18.11.2019**	11.01.2020	8W
I Mid Examinations	13.01.2020	23.01.2020	1W
II Unit of Instructions	24.01.2020	21.03.2020	8W
II Mid Examinations	23.03.2020	28-03-2020	1W
Preparation	30.03.2020	04.04.2020	1W
End Examinations	06.04.2020	18.04.2020	2W

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(Established by AP Government Act No. 30 of 2008)

Lr. No. JNTUK/DAP/Aca.Cal/ II B.Tech/2018-19 Date: 24-05-2018

Dr. Ch. Satyanarayana
M.Tech, Ph.D.,
Director, Academic & Planning

To
The Principals of All Affiliated Colleges,
JNTUK, Kakinada

ACADEMIC CALENDAR
for
B.TECH II YEAR
2017 BATCH

B.TECH II YEAR I Semester			
Description	**From**	**To**	**Weeks**
Commencement of Class Work	**11-06-2018**		
I Unit of Instructions	11-06-2018	04-08-2018	8W
I Mid Examinations	06-08-2018	11-08-2018	1W
II Unit of Instructions	13-08-2018	06-10-2018	8W
II Mid Examinations	08-10-2018	13-10-2018	1W
Preparation & Practicals	15-10-2018	20-10-2018	1W
End Examinations	22-10-2018	03-11-2018	2W
Commencement of Class Work	**19-11-2018**		
B.TECH II YEAR II Semester			
I Unit of Instructions	**19-11-2018**	12-01-2019	8W
I Mid Examinations	17-01-2019	23-01-2019	1W
II Unit of Instructions	24-01-2019	23-03-2019	8W
II Mid Examinations	25-03-2019	30-03-2019	1W
Preparation & Practicals	01-04-2019	06-04-2019	1W
End Examinations	08-04-2019	20-04-2019	2W
Commence of III Year Class Work	**10-06-2019**		

Director Academic and Planning

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(Established by AP Government Act No. 30 of 2008)

Lr. No. JNTUK/DAP/Aca.Cal/ B.Tech&B.Pharm/III Year/2018-19 Date: 24-05-2018

Dr. Ch. Satyanarayana
M.Tech, Ph.D.,
Director, Academic & Planning

To
The Principals of All Affiliated Colleges,
JNTUK, Kakinada

ACADEMIC CALENDAR
for
B.TECH& B.PHARM III YEAR
2016 BATCH

B.TECH & B.PHARM III YEAR I Semester			
Description	**From**	**To**	**Weeks**
Commencement of Class Work	**11-06-2018**		
I Unit of Instructions	11-06-2018	04-08-2018	8W
I Mid Examinations	06-08-2018	11-08-2018	1W
II Unit of Instructions	13-08-2018	06-10-2018	8W
II Mid Examinations	08-10-2018	13-10-2018	1W
Preparation & Practicals	15-10-2018	20-10-2018	1W
End Examinations	22-10-2018	03-11-2018	2W
Commencement of Class Work	**19-11-2018**		
B.TECH & B.PHARM III YEAR II Semester			
I Unit of Instructions	**19-11-2018**	12-01-2019	8W
I Mid Examinations	17-01-2019	23-01-2019	1W
II Unit of Instructions	24-01-2019	23-03-2019	8W
II Mid Examinations	25-03-2019	30-03-2019	1W
Preparation & Practicals	01-04-2019	06-04-2019	1W
End Examinations	08-04-2019	20-04-2019	2W
Commence of IV Year Class Work	**10-06-2019**		

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Lr. No. JNTUK/DAP/Aca.Cal/ IV B.Tech & B.Pharm/2018-19 Date: 24-05-2018

Dr. Ch. Satyanarayana
M.Tech, Ph.D.,
Director, Academic & Planning

To
The Principals of All Affiliated Colleges,
JNTUK, Kakinada

ACADEMIC CALENDAR
for
B.TECH& B.PHARM IV YEAR
2015 BATCH

B.TECH & B.PHARM IV YEAR I Semester			
Description	**From**	**To**	**Weeks**
Commencement of Class Work	**11-06-2018**		
I Unit of Instructions	11-06-2018	04-08-2018	8W
I Mid Examinations	06-08-2018	11-08-2018	1W
II Unit of Instructions	13-08-2018	06-10-2018	8W
II Mid Examinations	08-10-2018	13-10-2018	1W
Preparation & Practicals	15-10-2018	20-10-2018	1W
End Examinations	22-10-2018	03-11-2018	2W
Commencement of Class Work	**19-11-2018**		
B.TECH & B.PHARM IV YEAR II Semester			
I Unit of Instructions	**19-11-2018**	12-01-2019	8W
I Mid Examinations	17-01-2019	23-01-2019	1W
II Unit of Instructions	24-01-2019	23-03-2019	8W
II Mid Examinations	25-03-2019	30-03-2019	1W
Preparation & Practicals	01-04-2019	06-04-2019	1W
End Examinations	08-04-2019	20-04-2019	2W

Director Academic and Planning

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The Department/Program calendar of events is prepared before the commencement of the semester based on the academic schedule issued by university.

The department academic calendar consists of the activities which include instructional period, examination dates, display of internal marks, conducting of guest lectures, seminars, technical events etc.

DEPARTMENT OF MECHANICAL ENGINEERING
Academic Year: 2021-2022
Academic Calendar for II, III & IV B. Tech I Semester

Week No:	Month	Week Days							No. Of Working Days			Events
		MON	TUE	WED	THUR	FRI	SAT	SUN	II	III	IV	
1	OCTOBER					1	2	3	2	2	2	01-10-2021 Commencement of class work for II, III, & IV years I semester
2		4	5	6	7	8	9	10	6	6	6	
3		11	12	13	14	15	16	17	5	5	5	15-10-2021 Vijayadashami
4		18	19	20	21	22	23	24	6	6	6	
5		25	26	27	28	29	30	31	6	6	6	
	NOVEMBER	1	2	3	4	5	6	7	5	5	5	04-11-2021 Diwali
6		8	9	10	11	12	13	14	6	6	6	23-11-2021 NPTEL video on Alignment test of machine tools
7		15	16	17	18	19	20	21	6	6	6	15-11-21 One day Guest lecture on Maintenance and operations of thermal power plants
8		22	23	24	25	26	27	28	6	6	6	1st Mid Examinations
9		29	30						6	6	6	29-11-2021 One day guest lecture on Usage of modern tools in design of machine
	DECEMBER			1	2	3	4	5				
10		6	7	8	9	10	11	12	6	6	6	
11		13	14	15	16	17	18	19	6	6	6	14-12-2021 One day Guest lecture on Modelling of simple truss and beam problems using ANSYS to find the solution for displacements and stress.

12		20	21	22	23	24	25	26	5	5	5	25-12-2021 Christmas
13		27	28	29	30	31			5	5	5	28-12-22 One day Guest Lecture on Roto-dynamic Pump
14	JANUARY						1	2				1St New year
15		3	4	5	6	7	8	9	6	6	6	8-01-2022 One day Guest lecture on Transmission angle and toggle positions of Single slider mechanisms
16		10	11	12	13	14	15	16	4	4	4	14-01-2022 Bhogi 15-01-2022 Pongal
17		17	18	19	20	21	22	23				18-01-2022 One NPTEL Lecture on Design of springs 2nd MID Exams II, III, & IV years
18		24	25	26	27	28	29	30				26-01-2022 Republic Day
19	FEBRUARY		1	2	3	4	5	6				Theory Examinations for II, III and IV years I semester
20		7	8	9	10	11	12	13				Theory Examinations for II, III and IV years I semester
21		14	15	16	17	18	19	20				Theory Examinations for II, III and IV years I semester
22		21	22	23	24	25	26	27				Practical examinations for II, III and IV years I semester
23		28										
Total No. Of Working Hours									75	75	75	

	Term Start	**Last Working Day**	**Practical Examinations**	**Theory Examinations (JNTUK)**
II, III & IV Year	01-10-2021	22-01-2022	21-02-2022 to 26-02-2022	01-02-2022 TO 12-02-2022

	Internal Examinations

	Public Holidays

	Online/ Training Sessions (NPTEL/ Workshops/ Guest Lectures)

DEPARTMENT OF MECHANICAL ENGINEERING
Academic Year: 2021-2022
Academic Calendar for II, III & IV B. Tech II Semester

Week No:	Month	Week Days							No. Of Working Days			Events
		MON	TUE	WED	THUR	FRI	SAT	SUN	II	III	IV	
1	MARCH		1	2	3	4	5	6	4	4	4	01-03-2022 Maha Shivarathri
2		7	8	9	10	11	12	13	6	6	6	
3		14	15	16	17	18	19	20	5	5	5	18-03-2022 Holi
4		21	22	23	24	25	26	27	6	6	6	
5		28	29	30	31				5	5	5	
	APRIL					1	2	3				02-04-2022 Ugadhi
6		4	5	6	7	8	9	10	5	5	5	05-04-2022 Babu jagajjivanram Jayanthi 10-04-2022 Ramanavami
7		11	12	13	14	15	16	17	4	4	4	14-04-2022 Ambedkar Jayanthi 15-04-2022 Good Friday
8		18	19	20	21	22	23	24	5	5	5	1st Mid Examinations
9		25	26	27	28	29	30		6	6	6	
	MAY							1				
10		2	3	4	5	6	7	8	6	6	6	
11		9	10	11	12	13	14	15	6	6	6	
12		16	17	18	19	20	21	22	6	6	6	
13		23	24	25	26	27	28	29	6	6	6	
14		30	31									
15	JUNE			1	2	3	4	5	6	6	6	

16		6	7	8	9	10	11	12				2nd MID Exams for II, III, & IV years
17		13	14	15	16	17	18	19				End semester Theory examinations
18		20	21	22	23	24	25	26				End semester Theory examinations
19		27	28	29	30							Practical examinations for II, III and IV years I semester
Total No. Of Working Hours									75	75	75	

	Term Start	Last Working Day	Practical Examinations	Theory Examinations (JNTUK)
II, III & IV Year	14-02-2022	04-06-2022	27-06-2022	13-06-2022 TO 25-06-2022

	Internal Examinations

	Public Holidays

	Online/ Training Sessions (NPTEL/ Workshops/ Guest Lectures)

Department of Mechanical Engineering
Academic Year: 2020-2021
Academic Calendar for II, III & IV B. Tech I Semester

Week No	Month	Week Days							No. Of Working Days			Events
		MON	TUE	WED	THUR	FRI	SAT	SUN	II	III	IV	
	NOVEMBER							1				
1		2	3	4	5	6	7	8	6	6	6	02 November Commencement of Class Work for II, III & IV Years I Semester.
2		9	10	11	12	13	14	15	5	5	5	12th – NPTEL Online Session for II Year Students on Theories of Failure. 14th – Deepavali
3		16	17	18	19	20	21	22	6	6	6	16th – NPTEL Online Session for III Year Students on (Topic Name)
4		23	24	25	26	27	28	29	6	6	6	
5		30							6	6	6	
	DECEMBER		1	2	3	4	5	6	5	5	5	2nd – Guest Lecture for III Year Students on
6		7	8	9	10	11	12	13	6	6	6	
7		14	15	16	17	18	19	20	6	6	6	17th Guest lecture on "Improving problem solving skills in FEM" for IV Year students.
8		21	22	23	24	25	26	27	5	5	5	25th Christmas Holiday
9		28	29	30	31				5	5	5	
	JANUARY					1	2	3				
10		4	5	6	7	8	9	10	6	6	6	
11		11	12	13	14	15	16	17	2	2	2	13th – 16th Pongal Holydays.

12		18	19	20	21	22	23	24	6	6	6	18th & 19th – Workshop on Programming (Ladder)For Logical Control for IV Year Students.
13		25	26	27	28	29	30	31	5	5	5	26th – Republic Day Holiday. 25th – 30th I Mid Examinations.
14	FEBRUARY	1	2	3	4	5	6	7	6	6	6	
15		8	9	10	11	12	13	14	6	6	6	12th- NPTEL Online Session for II Year Students on Design of Fasteners
16		15	16	17	18	19	20	21	6	6	6	18th – NPTEL Online Session for III Year Students on (Topic). 15th- NPTEL Online Session for IV Year Students on Additive Manufacturing Technologies using Decision Method.
17		22	23	24	25	26	27	28	6	6	6	22nd- 27th II Mid Examinations.
18	MARCH	1	2	3	4	5	6	7				1st – 6th Lab External Examinations (JNTUK)
19		8	9	10	11	12	13	14				8th – 20th Theory Examinations (JNTUK) 11th Maha Shivarathri Holiday.
20		15	16	17	18	19	20	21				
21		22	23	24	25	26	27	28				
22		29	30									
Total No. Of Working Hours									100	100	100	

	Term Start	Last Working Day	Practical Examinations	Theory Examinations (JNTUK)
II, III & IV Year	02-11-2020	27-02-2021	01-03-2021 to 06-03-2021	08-03-2021 to 20-03-2021

Internal Examinations

Public Holidays

Online/ Training Sessions (NPTEL/ Workshops/ Guest Lectures)

Department of Mechanical Engineering
Academic Year: 2020-2021
Academic Calendar for II, III & IV B. Tech II Semester

Week No:	Month	Week Days							No. Of Working Days			Events
		MON	TUE	WED	THUR	FRI	SAT	SUN	II	III	IV	
	MARCH	1	2	3	4	5	6	7				
		8	9	10	11	12	13	14				
		15	16	17	18	19	20	21				
1		22	23	24	25	26	27	28	6	6	6	22nd Commencement of Class Work for II, III & IV Year.
2		29	30	31					6	6	6	29th – 3rdAPSSDC Training Programme for IV Year Students on CNC Part Programming and Machining on Lathe & Milling Machines.
	APRIL				1	2	3	4				
3		5	6	7	8	9	10	11	6	6	6	8th – 10th: NPTEL Online Sessions for III Year Students on Geometric dimensioning &Tolerancing.
4		12	13	14	15	16	17	18	6	6	6	15th – 21st: APSSDC Training Programme for III Year Students on R&AC Foundation and Maintainces
5		19	20	21	22	23	24	25	6	6	6	22nd – 25th APSSDC Training Programme for II Year Students Solid Edge Foundation Course.
6		26	27	28	29	30			6	6	6	30th – NPTEL Online Session for II Year Students on Separation of Boundary Layer Concept.
	MAY						1	2				
7		3	4	5	6	7	8	9	6	6	6	7th& 8th NPTEL Online Session for III Year Students on Numerical Methods in Conduction Steady State on One dimensional and Two-dimensional Problems.
8		10	11	12	13	14	15	16	6	6	6	10th – 12th I Mid Examinations.
9		17	18	19	20	21	22	23	6	6	6	

10		24	25	26	27	28	29	30	6	6	6	
11		31							6	6	6	
	JUNE		1	2	3	4	5	6				
12		7	8	9	10	11	12	13	6	6	6	
13		14	15	16	17	18	19	20	6	6	6	
14		21	22	23	24	25	26	27	6	6	6	21st to 26th – APSSDC Training Programme for IV Year Students on 4-Wheeler Maintainces.
15		28	29	30					6	6	6	
	JULY				1	2	3	4				1st – 3rd II Mid Examinations. 3rd – End of Semester Class Work.
16		5	6	7	8	9	10	11				
17		12	13	14	15	16	17	18				
18		19	20	21	22	23	24	25				
19		26	27	28	29	30	31					
Total No. Of Working Hours									100	100	100	

	Term Start	**Last Working Day**	**Practical Examinations**	**Theory Examinations (JNTUK)**
II, III & IV Year	22-03-2021	03-07-2021	05-07-2021 to 10-07-2021	12-07-2021 to 24-07-2021

	Internal Examinations

	Public Holidays

	Online/ Training Sessions (NPTEL/ Workshops/ Guest Lectures)

B: Details of initiatives to improve quality of teaching and learning.

1. Course allotment based on faculty options is done before the commencement of the semester. Every course coordinator along with course instructors prepares a lesson plan with its course outcomes, question bank and lecture notes.
2. The faculty members of the department adopt various Teaching & Learning methodologies to create an effective learning environment for student. These methodologies include chalk and talk, power point presentations, collaborative learning, video lectures (NPTEL, QEEE etc.), and problem/project-based learning.
3. For every course, outcomes are defined and the teaching learning process is carried out to attain the outcomes. Outcomes are measured using continuous assessment (Internal examination and assignment), semester end examinations results.
4. Problem based learning is a student-cantered pedagogy in which students learn about a subject through the experience of solving problems. This will be practiced during tutorial classes.
5. In project-based learning, students identify problems and implement the solution for the problem through hardware or simulation. Students gain knowledge and skills by working for an extended period of time to implement the solution. Project is implemented as an individual or as a team work.
6. To facilitate project-based learning, the department has an exclusive project laboratory. The students are encouraged to participate in various project exhibitions.
7. College management provides necessary facilities and financial support to encourage the students to implement real time projects.
8. Invited talks by experts and seminars on the current trends are arranged regularly.
9. Technical events such as paper presentations, technical quizzes, poster presentations etc. are organized by the department association for the overall personality development of the student.
10. Industrial visits are arranged at least once in a year for exposure to industrial environment.
11. Workshops are organized to help the students to understand the concepts beyond curriculum.

Teaching Methodologies:

S. No	Methodology	S. No	Methodology
1	Chalk & Talk	**7**	Seminar
2	PPT	**8**	Animated lectures
3	Co-operative learning	**9**	Quiz
4	Enquiry based instruction	**10**	Web reference
5	Guest lecture	**11**	Journal article review
6	NPTEL Video	**12**	Demo

ACADEMIC YEAR 2021-22 ODD SEM (II Year-R20, III Year-R19, IV Year-R16)

S.NO	Course Name	Year/ Sem	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
1	Mechatronics	IV - I	Y	Y							Y				3
2	CAD/CAM	IV - I	Y	Y				Y	Y		Y				5
3	FEM	IV - I	Y	Y	Y		Y			Y					5
4	PPE	IV - I	Y	Y			Y			8	Y				5
5	ADM	IV - I	Y	Y											2
6	AM	IV - I	Y	Y				Y			Y	Y			5
7	CAD/CAM Lab	IV - I	Y											Y	2
8	Mechatronics lab	IV - I	Y											Y	2
9	DOM	III - I	Y	Y	Y			Y			Y				5
10	DMM-II	III - I	Y	Y	Y			Y			Y				5
11	MM&M	III - I	Y	Y				Y		Y	Y	Y			6
12	MEFA	III - I	Y	Y	Y			Y	Y		Y				6
13	ICE & GT	III - I	Y	Y			Y								3
14	TE LAB	III - I	Y											Y	2
15	TOM LAB	III - I	Y											Y	2
16	MMM LAB	III - I	Y											Y	2

17	SR PROJECT	III - I	Y	Y						Y					3
18	VC&FT	II - I	Y	Y											2
19	MOS	II - I	Y	Y				Y					Y	Y	5
20	FM&HM	II - I	Y	Y	Y		Y				Y	Y			6
21	PT	II - I	Y	Y				Y							3
22	KOM	II - I	Y	Y				Y		Y	Y				5
23	CAEDP	II - I	Y	Y	Y	Y				Y	Y				6
24	EITK	II - I	Y	Y		Y		Y			Y				5
25	FMHM LAB	II - I	Y											Y	2
26	PT LAB	II - I	Y											Y	2
27	D&M LAB	II - I	Y											Y	2
Total			27	27	8		1		1	8	16	18			

ACADEMIC YEAR 2021-22 EVEN SEM (II Year-R20, III Year-R19, IV Year-R16)

S.NO	Course Name	Year/ Sem	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
1	PPC	IV-II	Y	Y	Y		Y				Y				5
2	UCMP	IV-II	Y	Y						Y	Y	Y			5
3	AE	IV-II	Y	Y			Y			Y	Y	Y			6
4	NDE	IV-II	Y	Y				Y			Y				4
5	Seminar	IV-II	Y	Y					Y						3
6	Project	IV-II	Y	Y					Y						3
7	OR	III-II	Y	Y				Y							3
8	HT	III-II	Y	Y	Y		Y	Y			Y				6
9	CAD/CAM	III-II	Y	Y				Y	Y		Y				5
10	UCMP	III-II	Y	Y						Y	Y	Y			5
11	Mechatronics	III-II	Y	Y							Y				3
12	simulation lab	III-II	Y											Y	2
13	CAD/CAM LAB	III-II	Y											Y	2

14	H.T LAB	III-II	Y										Y	5
15	Summer Internship	III-II	Y	Y	Y				Y					4
16	MS&M	II-II	Y	Y				Y		Y				5
17	CV&SM	II-II	Y	Y										2
18	DOM	II-II	Y	Y	Y			Y			Y			5
19	TE-I	II-II	Y	Y			Y							3
20	IE&M	II-II	Y	Y	Y		Y				Y			5
21	MD	II-II	Y	Y						Y		Y		4
22	MOS & Metrology Lab	II-II	Y										Y	2
23	TOM Lab	II-II	Y										Y	2
24	Python Lab	II-II	Y										Y	2
Total			24	24	7		3		4	7	13	15			

C. Methodologies used to support slow learners and encourage fast learners:

Identification and supporting slow learners

- The department has a well-defined process of monitoring, guiding and assisting slow learners (weak students)
- The course teacher concerned identifies the students who scored less than 40% marks in their internals and conduct remedial classes. The class teacher/student counsellor monitors the attendance and progress of those students who failed in some subjects and considers them as academically weak students and the same is also intimated to their parents.

Identification Criteria	Measures taken
Students scoring less than 40% of marks in Internal Assessment. (Academically Slow Learners.)	1. Conducting remedial classes. 2. Faculty mentor monitors their progress continuously and advises students to attend classes regularly, and to make up for the classes missed. 3. Intimating parents to counsel their wards. 4. Special counselling and tutorial classes are conducted by the faculty for those students who have failed in any subject for improving performance in subsequent exam.
Lateral entry students who entered with deficiency in basic mathematics	Conducting special classes to fill the gaps.

Identification & Encouraging the Fast learners:

The College always had a culture of encouraging bright students (fast learners) by providing them necessary incentives, guidance and support.

Identification Criteria	Actions taken/Encouragement given
Students with more than 70% of marks in semester exams.	The students are encouraged to participate in inter college fests and to plan for higher studies through GATE etc. They are also motivated to appear for All India Services exam etc. Conducting CRT and GATE classes by professional agencies.
Top three students of each section.	These students are awarded with cash prize and merit Certificate.
Roll of Honor	The topper of each branch is awarded ―Roll of Honor gold medal every year.
Best EAMCET Rank Holders	College provides merit scholarships to best EAMCET Rank holders admitted to encourage them to perform even better in future.
Endowment awards	College Toppers among boys and girls are awarded with silver medal and certificate. Student securing highest marks in all Mathematics courses taken together during the 1st year is awarded with cash prize and certificate.
Best outgoing student award at college level (All-rounder)	The student is awarded with gold medal and certificate.
Students securing ranks at university level.	Award of Gold medal by the University.

Process for Encouraging Fast Learners and Assisting Slow Learners:

1. Attendance &Academic Performance –Identification of Slow Learners (Assisting Slow Learners, Counselling, Remedial classes, Assignments)
2. Identification of Fast Learners -Academic and Overall performance
   - ❖ Active participation in various Extra-curricular activities for improving communication and personality development**.**
   - ❖ Technical Training
   - ❖ Internship

- ❖ Motivation for Participating in technical events and competitions

Impact analysis:

- ➢ The number of slow learners is reduced in number.
- ➢ Improved results and a smaller number of failures in each subject.
- ➢ Improvement in practical knowledge of students.
- ➢ New project ideas are derived.
- ➢ Active participation of students in technical events.
- ➢ Appreciation from the parents.
- ➢ The students could perform well in placement interviews because of the CRT classes.
- ➢ The following table provides the details of the students who are identified to receive cash prizes during the academic year 2020-21.
- ➢ Cash prizes: 1st Prize: 1000/- 2nd Prize: 750/- 3rd Prize: 500/-

Assisting weak students:

- ➢ Based on the analysis of the test results, remedial classes are arranged in various subjects to strengthen the concepts, knowledge and skills in concerned subject.
- ➢ Tutorial classes are provided to improve the problem-solving skills through interaction among the students and faculty members.
- ➢ A qualified Counsellor helps students to develop their academic pursuits by boosting their confidence and removing psychological barriers among them.
- ➢ Student Counsellors at department level also guides the students.

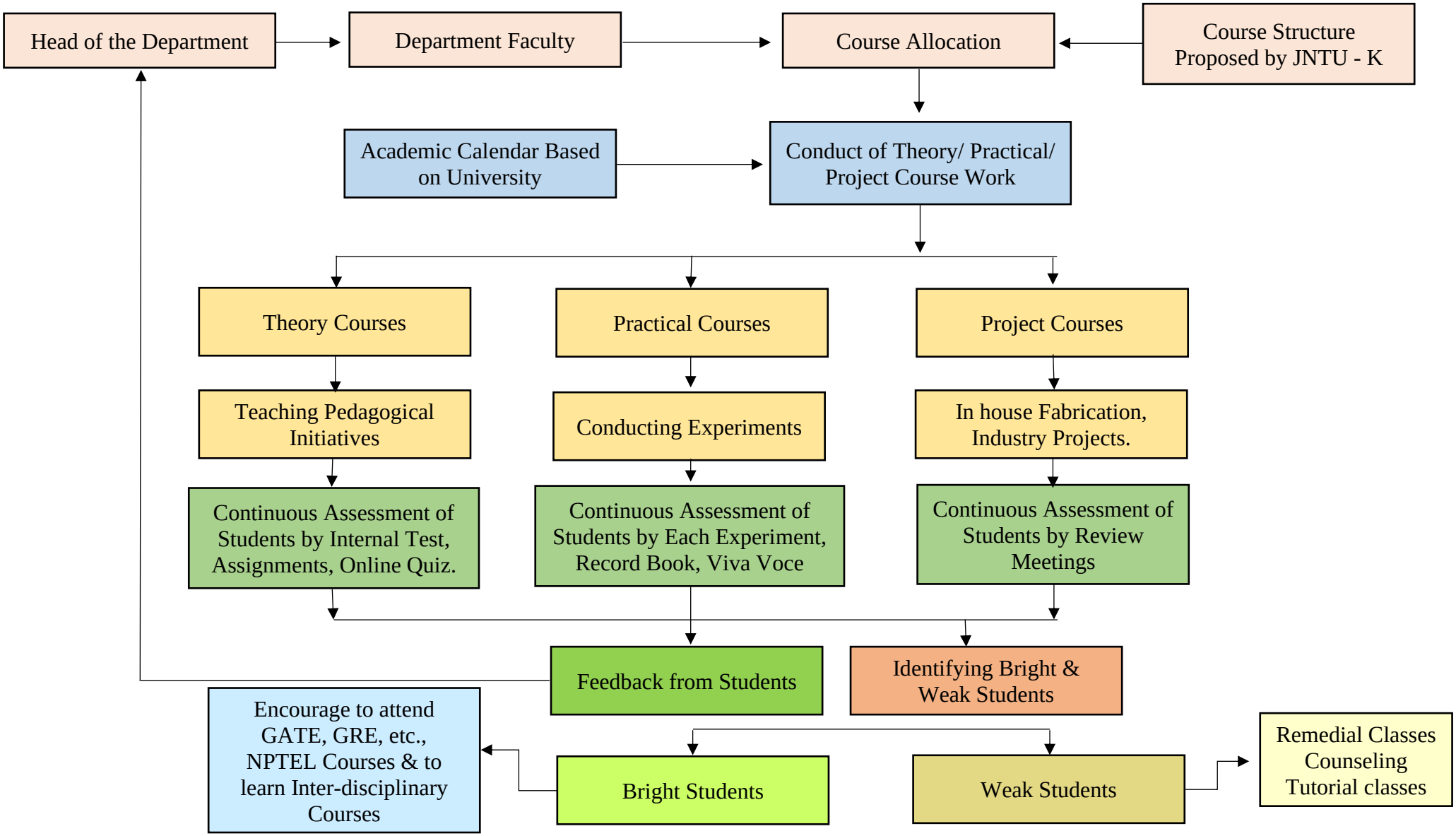
Encouraging bright students:

- ➢ Best Academic Performance Awards are given to top 3 students of each section, for all the courses, based on their performance in University Examination in the preceding year.
- ➢ Prescribed text books for the succeeding semester/academic year are presented to the students for their best academic performance.
- ➢ Encouraged to appear for GATE, GRE, IELTS, CAT etc.
- ➢ College pays the total fee for higher education of the students who secured Top 10 ranks in GATE.
- ➢ Encouraged to participate and involve in different clubs/societies such as Student Technical Society activities, Departmental Association Activities, technical fests and cultural fests
- ➢ Best Attendance Awards are given to all those students who have secured more than 90% of attendance in the preceding academic year.
- ➢ Short term courses are organized beyond curriculum topics.

- Campus Recruitment Training (CRT) classes are organized by the college so as to enable them to obtain placement through campus interviews.
- Students are encouraged to register in professional societies like SAE student chapter. College sponsors fund for the development of Automobile vehicles to compete in National level competitions organized by SAE.
- Access to latest E-learning (NPTEL) content and reference materials.

D. Quality of classroom teaching:

- Course allotment based on faculty options is done before the commencement of the semester. Every course coordinator along with course instructors prepares a lesson plan with its course outcomes, question bank and lecture notes.
- The faculty members of the department adopt various Teaching & Learning methodologies to create an effective learning environment for student. These methodologies include chalk and talk, power point presentations, collaborative learning, video lectures (NPTEL, QEEE etc.), and problem/project-based learning.
- For every course, outcomes are defined and the teaching learning process is carried out to attain the outcomes. Outcomes are measured using continuous assessment (Internal examination and assignment), semester end examinations results.
- Problem based learning is a student-cantered pedagogy in which students learn about a subject through the experience of solving problems. This will be practiced during tutorial classes.
- In project-based learning, students identify problems and implement the solution for the problem through hardware or simulation. Students gain knowledge and skills by working for an extended period of time to implement the solution. Project is implemented as an individual or as a team work.
- To facilitate project-based learning, the department has an exclusive project laboratory. The students are encouraged to participate in various project exhibitions.
- College management provides necessary facilities and financial support to encourage the students to implement real time projects.
- Invited talks by experts and seminars on the current trends are arranged regularly.
- Technical events such as paper presentations, technical quizzes, poster presentations etc. are organized by the department association for the overall personality development of the student.
- Industrial visits are arranged at least once in a year for exposure to industrial environment.
- Workshops are organized to help the students to understand the concepts beyond curriculum.



Process to improve Quality of teaching and learning.

F. Continuous assessment in the laboratory:

- In every semester, the first laboratory session is allotted for demonstration purpose, where technician will explain Do's, Don'ts and precautions to be taken in the laboratory.
- Students are instructed on departmental policies regarding the maintenance of laboratory, observation and record books.
- Orientation programs are conducted for teaching & non-teaching staff on conduct of experiments, recording observations, analysis of data and evaluation procedures.
- Department is fully equipped as per the curriculum with respect to the laboratories, software and models.
- Experiments in laboratories were planned in three to four cycles, each cycle comprising of 4 to 5 experiments. Each student is provided with one of the projects developed by students are used in laboratories as equipment.
- Printed laboratory manuals are provided to each student, which covers all the details about the experiments. The observations, necessary calculations and discussions are recorded in printed manuals.
- Concerned faculty regularly evaluates the lab records.
- Students will note down the observations after execution of the program. Before leaving the laboratory, the observation book will be signed by the concert faculty.
- In addition to maintaining observation book, students are expected to submit the record book on completion of the program in next laboratory session.
- All the faculty handling laboratory work are encouraged to introduce new experiments which are beyond curriculum and are oriented towards R & D.
- The internal Assessment of students in the laboratory are evaluated based on his/her performance of the experiment in the regular class, lab report and internal Viva.
- The external examination in the concerned lab is conducted by two examiners viz., internal examiner from the college and external examiner appointed by the University.

G. Student's feedback on Teaching learning process and actions taken:

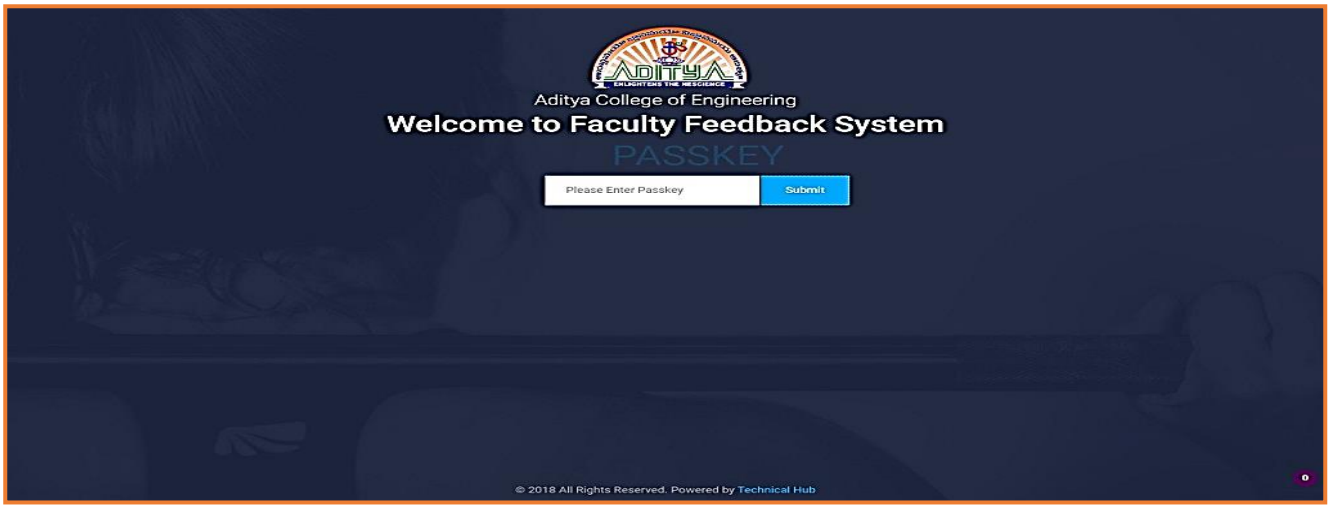
- Class work Review Committee (CRC) meetings are held twice a semester to discuss syllabus coverage, student performance and any student/faculty problems, as well as provide necessary suggestions.
- The department head observes lecture classes and makes recommendations for improving the teaching-learning process.

- Students are required to complete an on-line feedback form on the teaching learning process on a scale of 1 (low) to 5 (high) during each semester (high). Every semester, Dean Academics collects oral feedback and relays it to the HOD for further action
- For those faculty members who received low scores and negative feedback, the HOD will make recommendations. This helps to enhance and develop the skills and abilities.

H. Mentoring system initiatives and implementation

- Each staff member is allocated a group of 15-20 students for mentoring.
- The mentor will regularly monitor student's performance and attendance, and counsel the students personally.
- Student performance and mentoring details are maintained in a separate counselling book by respective mentors and updated periodically.
- Mentoring includes career guidance, student's participation in events like quiz, paper presentation, seminars and technical fests etc.,
- The mentors also have periodic interaction with the parents over phone about the performance of the particular student.
- Every parent is informed about the internal marks and the attendance through short messages.

Following is the on-line Faculty feedback portal through which students can submit the feedback form.



Parameters of Feedback form:

Practical questions:

1. Involvement

a) Below Average b) Average c) Good d) Very Good

2. Explanation

a) Below Average b) Average c) Good d) Very Good

Theory questions

1. Subject Depth Theory

a) Below Average b) Average c) Good d) Very Good.

2. Way of Teaching Theory

a) Below Average b) Average c) Good d) Very Good.

3. Involvement in teaching (commitment)

a) Below Average b) Average c) Good d) Very Good.

4. The teacher is regular and prompt to the class

a) Below Average b) Average c) Good d) Very Good.

5. Overall Assessment Theory

a) Below Average b) Average c) Good d) Very Good.

M Sarat Chandra Prasad

Subject	**Finite Element Methods**					
Sem - Branch - Section		7-MECH-B				
Department	MECH		Employee ID		3108	
Email		chandraprasad_mech@acoe.edu.in				
		Below Average	Average	Good	Very Good	Percentage
Subject Depth Theory		0	0	4	24	96.43
Way of Teaching Theory		0	0	3	25	97.32
Involvement in Teaching (commitment) Theory		0	0	3	25	97.32
The teacher is regular & prompt to the class Theory		0	0	4	24	96.43
Overall Assessment Theory		0	0	3	25	97.32
No.Of Students		28			Overal %	**96.96**

Suggestions

good teaching and frendly nature
keep it up the attitude sir
good involment in subject

2.2.2 Quality of Internal Semester Question Papers, Assignments and Evaluation. (20)

A. Process for internal semester Question papers, Assignments and Evaluation:

- Each faculty prepares the internal examination and the assignments considering the entire coverage of the COs and also the taxonomy as appropriate.
- The question paper is set according to the distribution of the marks for each course outcome. Each question is mapped with COs and Taxonomy levels (TL).
- The students are tested for their skills acquired in the classroom with the help of internal exam 1 and 2.
- Along with students will be evaluated with Two Home Assignments to find whether students attained the course outcomes.

For theory courses, there shall be 2 internal exams per semester:

For **R16 Regulation** marks allotted for internal examination is 30 which is divided as

Descriptive exam	:	15 marks
Assignment	:	05 marks
Objective exam	:	10 marks

(Objective exam Conducted online with 20 multiple choice questions each question carries ½ mark).

- For **R16 Regulation** the syllabus is framed in 6 units, the 1st mid examination (for both descriptive and objective) is conducted in 1-3 units and second mid examination is conducted in 4-6 units of each course.

For **R19 Regulation** marks allotted for internal examination is 25 which is divided as

Descriptive exam	:	10 marks.
Assignment	:	05 marks.
Objective exam	:	10 marks.

(Objective exam conducted online with 20 multiple choice questions each question carries ½ mark).

- The objective examination is of 20 minutes duration. The descriptive examination is of 90 minutes duration.
- Two tests will be conducted in which 80% marks from the best one and 20% marks from the other one will be taken for internal marks.

Question paper setting:

- The course instructor will prepare the question paper by considering the Previous university end exam papers as reference.
- The questions are prepared according to Bloom's Taxonomy Levels and later the question paper is verified by the Head of the Department.

- The question paper is set according to the distribution of the marks for each course outcome. Each question is mapped with COs and Blooms Taxonomy (BT) levels.

A sample question paper of IC Engines & Gas turbines of R19 Regulation is given below:

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DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year: 2021-22 **MID- I**

Programme: ME	**Class**: III B. Tech **Semester:** I
Course Code: R1931035	**Date**: 26.11.2021
Course Title: IC Engines & Gas turbines	**Time**: 90min

Instructions: Answer all the Questions

Maximum marks: 30

S. No.	Questions	Marks	B.T. L	CO
1	Define volumetric efficiency. What are the factors affecting volumetric efficiency?	10	Understand	1
2	Explain the jerk type pump with neat sketch?	10	Understand	2
3	Explain the stages of combustion in CI engine	10	Understand	3

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DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year: 2021-22 **MID- II**

Programme: ME	**Class**: III B. Tech **Semester:** I
Course Code: R1931035	**Date**: 22.01.2022
Course Title: IC Engines & Gas turbines	**Time**: 90min

S. No.	Questions	Marks	B.T. L	CO
1	A six cylinder, 4 stroke SI engine having a piston displacement of 700cm3 per cylinder developed 78kW at 3200r.p.m. and consumed 27 kg of petrol per hour. The calorific value of petrol is 44 MJ/kg. Estimate: i) The volumetric efficiency of the engineif the air-fuel ratio is 12 and intake air is at 0.9 bar, 320C ii) Thebrake thermal efficiency iii) The brake torque for air, R=0.287kJ/kg K.	10	Apply	4

2	A gas turbine unit receives air at 100 kPa and 300 Kelvin and compresses it adiabatically to 620 kPa with efficiency of the compressor 88%. The fuel has a heating value of 44180 kJ/kg and the fuel/air ratio is 0.017. The turbine internal efficiency is90%. Calculate the compressor work, turbine work and thermalefficiency.	10	Apply	5
3	a). Explain the applications of rockets. b.) What is meant by thrust augmentation? When is it necessary? Describe any one method of thrust augmentation.	10	Understand	6

B. Evaluation:

- For every question paper the scheme of evaluation is prepared by the course coordinator and distributed to course instructors.
- The course instructor evaluates the answer scripts based on the scheme of evaluation.
- After every internal assessment course instructor will distribute the corrected answer scripts to the students and discuss the solutions/answers in the class room.
- For calculation of CO-PO attainment, the average sum of total marks obtained by all students who attempted a particular question is considered**.**

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DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year: 2021-22 **MID- I**

Programme: ME	**Class**: III B. Tech **Semester:** I
Course Code: R1931035 **Course Title**: IC Engines & Gas turbines	**Date**: 26.11.2021 **Time**: 90min

Scheme of Valuation

1. Define volumetric efficiency. What are the factors affecting volumetric efficiency?

volumetric efficiency.	3M
factors affecting volumetric efficiency	7M

2.Explain the jerk type pump with neat sketch?

jerk type pump with neat sketch	4M

3. Explain the stages of combustion in CI engine?

stages of combustion in CI engine	10M

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DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year: 2021-22 **MID- II**

Programme: ME	**Class**: III B. Tech **Semester:** I
Course Code: R1931035	**Date**: 22.01.2022
Course Title: IC Engines & Gas turbines	**Time**: 90min

Scheme of Valuation

1. A six-cylinder, 4 stroke SI engine having a piston displacement of 700cm3 per cylinder developed 78kW at 3200r.p.m. and consumed 27 kg of petrol per hour. The calorific valueof petrol is 44 MJ/kg. Estimate: i) The volumetric efficiency of the engine if the air-fuel ratio is 12 and intake air is at 0.9 bar, 320C ii) The brake thermal efficiency iii) The braketorque for air, R=0.287kJ/kg K. **CO4 – Apply – 10 M**

Calculation of volumetric efficiency of the engine	**2M**
Calculation of brake thermal efficiency	**4M**
Calculation of brake torque	**4M**

2. A gas turbine unit receives air at 100 kPa and 300 Kelvin and compresses it adiabatically to 620 kPa with efficiency of the compressor 88%. The fuel has a heating value of 44180 kJ/kgand the fuel/air ratio is 0.017. The turbine internal efficiency is 90%. Calculate the compressorwork, turbine work and thermal efficiency**.** **CO5 – Apply – 10 M**

Calculation of compressor work	**3M**
Calculation of turbine work	**3M**
Calculation of thermal efficiency	**4M**

3. **A)** Explain the applications of rockets**?** **CO6 – Understand – 5 M**

Application of Rockets ---------- **5M**

B) What is meant by thrust augmentation? When is it necessary? Describe any one method of thrust augmentation. **CO6 – Understand – 5 M**

Thrust augmentation & necessary ---------- **5M**

One Method of Thrust Augmentation---------- **5M**

Semester question paper is also analysed for the estimation of the quality and result of the students.

For the **IC Engines and Gas turbines** subject analysed paper is as shown below

Code No: R1931035 **R19** **SET - 1**

III B. Tech I Semester Regular Examinations, February-2022

IC ENGINES & GAS TURBINES

(Mechanical Engineering)

Time: 3 hours Max. Marks: 75

Answer any **FIVE** Questions **ONE** Question from **Each unit**

All Questions Carry Equal Marks

*****

UNIT-I

1. a) Write the thermal efficiency, mean effective pressure and work output of Otto cycle using PV and TS diagrams. [8M]
   b) Compare air standard cycles and actual cycle. [7M]

(OR)

2. a) Derive the expression for the efficiency and mean effective pressure of a dual cycle. [8M]
   b) Write a short note on (i) Time loss factor, and (ii) Exhaust blow-down factor. [7M]

UNIT-II

3. a) Explain the classification of IC engines. [5M]
   b) Write and explain the working principle of four stroke spark ignition engine. [5M]
   c) Draw and explain petrol lubrication system. [5M]

(OR)

4. a) Explain the principle of turbo charges. [8M]
   b) Explain air cooling systems in IC engines. [7M]

UNIT-III

5. a) Explain the phenomenon of knocking in SI engines. [8M]
   b) What are the diesel fuel requirements? [7M]

(OR)

6. a) Explain in detail about various types of abnormal combustion in SI engines. [8M]
   b) Draw and explain open type combustion chamber in diesel engine. [7M]

UNIT-IV

7. a) What is friction power? What are the various methods used to find the friction power? Explain any three methods. [10M]
   b) Write the principle of dynamometer with a neat diagram. [5M]

(OR)

8. a) What is NDIR method? How carbon monoxide emissions are measured using NDIR? [8M]
   b) Explain in detail the heat balance sheet? [7M]

UNIT-V

9. a) What is a gas turbine power plant? What are the components of a simple gas turbine power plant? Write its classification. [8M]
   b) Draw and explain Ram jet engine with advantages and disadvantages. [7M]

(OR)

10. a) A 5000 kW gas turbine plant operates with pressure ratio of 9:1. A high pressure turbine is used to drive the compressor and a low pressure turbine drives the generator. The temperature of gases at entry to HP turbine is 625°C and gases are reheated to 625°C after expansion in the first turbine. The air inlet temperature to the unit is 20°C. The isentropic efficiencies of compressor and turbine are 0.8 and 0.85 respectively. Calculate (i) Thermal efficiency (ii) Work ratio (iii) mass flow in kg/sec. Neglect the mass of the fuel and C_p = 1.005 kj/kg and γ = 1.4 or air and gases. [10M]
    b) Differentiate jet propulsion and rocket propulsion. [7M]

*****

C. Evidence of COs coverage in class test / mid-term tests

Following is the analysis of the CO and taxonomy coverage in the internal examinations for the **AY 2021-22.**

II-I Semester (MID – I)

S. No	Course Code	Course Name	CO1%	CO2%	CO3%	CO4%	CO5%	CO6%
1	C211	VC&FT	33.33	33.33	33.33			
2	C212	MOS	16.67	16.67	33.33	33.33		
3	C213	FM&HM	33.34		33.34	33.34		
4	C214	PT	50%	16.66	33.34			
5	C215	KOM	33.34	33.34	33.34			
6	C216	CAEDP	33.34	33.34	33.34			
7	C217	EITK	33.33	33.33	33.33			

Table: Internal Examination CO Coverage Analysis

S. No	Course Code	Course Name	TL1 %	TL2 %	TL3%	TL4 %	TL5 %	TL6 %
1	C211	VC&FT		33.33	66.67			
2	C212	MOS			66.67	33.33		
3	C213	FM&HM		53.34	46.67			
4	C214	PT		100				
5	C215	KOM		33.34	33.34	33.34		
6	C216	CAEDP		33.33	66.67			
7	C217	EITK		66.66		33.33		

Table: Internal Examination Taxonomy Coverage Analysis

III – I semester (MID – I)

S. No	Course Code	Course Name	CO1%	CO2%	CO3%	CO4%	CO5%	CO6%
1	C311	DOM	33.33	33.33	33.33			
2	C312	DMM-II	33.33	33.33	33.34			
3	C313	MMM&M	33.33	33.33	33.33			

4	C314	MEFA	33.33	33.33	33.33			
5	C315	IC&GT	33.33	33.33	33.33			

Table: Internal Examination CO Coverage Analysis

S. No	Course Code	Course Name	TL1 %	TL2 %	TL3%	TL4 %	TL5 %	TL6 %
1	C311	DOM	16.67	33.33	50			
2	C312	DMM-II		13.33	86.67			
3	C313	MMM&M	8.33	78.33	13.33			
4	C314	MEFA		33.33		66.66		
5	C315	IC&GT	16.67	33.33	50			

Table: Internal Examination Taxonomy Coverage Analysis

IV-I Semester (MID – I)

S. No	Course Code	Course Name	CO1%	CO2%	CO3%	CO4%	CO5%	CO6%
1	C411	MCTN	33.33	33.33	33.33			
2	C412	CAD/CAM	33.33	33.33	33.33			
3	C413	FEM	33.33	33.33	33.33			
4	C414	PPE	33.33	33.33	33.33			
5	C415	ADM	33.33	33.33	33.33			
6	C416	AM	33.33	33.33	33.33			

Table: Internal Examination CO Coverage Analysis

S. No	Course Code	Course Name	TL1 %	TL2 %	TL3%	TL4 %	TL5 %	TL6 %
1	C411	MCTN	30	70				
2	C412	CAD/CAM	25	75				
3	C413	FEM		25	75			
4	C414	PPE	30	30	40			
5	C415	ADM	13.33	40	46.6			
6	C416	AM	13.33	40	46.6			

Table: Internal Examination Taxonomy Coverage Analysis

II-I Semester (MID – II)

S. No	Course Code	Course Name	CO1%	CO2%	CO3%	CO4%	CO5%	CO6%
1	C211	VC&FT				33.33	33.33	33.33
2	C212	MOS				33.33	33.33	33.33
3	C213	FM&HM				33.34	33.34	33.34
4	C214	PT				33.33	33.33	33.33
5	C215	KOM				33.34	33.34	33.34
6	C216	CAEDP				33.33	33.33	33.33
7	C217	EITK				33.33	33.33	33.33

Table: Internal Examination CO Coverage Analysis

S. No	Course Code	Course Name	TL1 %	TL2 %	TL3%	TL4 %	TL5 %	TL6 %
1	C211	VC&FT		16.67	83.33			
2	C212	MOS			66.67	33.33		
3	C213	FM&HM		43.34	56.67			
4	C214	PT		50	33.33	16.66		
5	C215	KOM		33.34	66.67			
6	C216	CAEDP		43.34	56.67			
7	C217	EITK			66.66	33.33		

Table: Internal Examination Taxonomy Coverage Analysis

III-I Semester (MID – II)

S. No	Course Code	Course Name	CO1%	CO2%	CO3%	CO4%	CO5%	CO6%
1	C311	DOM				33.33	33.33	33.33
2	C312	DMM-II				33.33	50	16.67
3	C313	MM&M			33.33	33.33	16.66	16.67
4	C314	MEFA				33.33	33.33	33.34
5	C315	IC&GT				33.33	33.33	33.33

Table: Internal Examination CO Coverage Analysis

S. No	Course Code	Course Name	TL1 %	TL2 %	TL3%	TL4 %	TL5 %	TL6 %
1	C311	DOM			66.66	33.33		
2	C312	DMM-II		16.67	33.33	50		
3	C313	MM&M		33.33	66.67			
4	C314	MEFA		33.33	66.67			
5	C315	IC&GT	16.67	33.33	50			

Table: Internal Examination Taxonomy Coverage Analysis

IV-I Semester (MID – II)

S. No	Course Code	Course Name	CO1%	CO2%	CO3%	CO4%	CO5%	CO6%
1	C411	MCTN				33.33	33.33	33.33
2	C412	CAD/CAM				33.33	33.33	33.34
3	C413	FEM				33.33	33.33	33.33
4	C414	PPE				33.33	33.33	33.34
5	C415	ADM				33.33	33.33	33.33
6	C416	AM				33.33	33.33	33.33

Table: Internal Examination CO Coverage Analysis

S. No	Course Code	Course Name	TL1 %	TL2 %	TL3%	TL4 %	TL5 %	TL6 %
1	C411	MCTN	33.33	33.33	33.34			
2	C412	CAD/CAM	33.33	33.33	33.34			
3	C413	FEM	25	25	50			
4	C414	PPE		33.33	33.33	33.34		
5	C415	ADM				40	60	
6	C416	AM	40	60				

Table: Internal Examination Taxonomy Coverage Analysis

II-II Semester (MID – I)

S. No	Course Code	Course Name	CO1%	CO2%	CO3%	CO4%	CO5%	CO6%
1	C221	MS&M	33.33	33.33	33.33			
2	C222	CV&SM	33.33	33.33	33.33			
3	C223	DOM	33.33	33.33	33.33			
4	C224	TE-I	33.33	33.33	33.33			
5	C225	IE&M	33.33	33.33	33.33			
6	C226	MD	33.33	33.33	33.33			

Table: Internal Examination CO Coverage Analysis

S. No	Course Code	Course Name	TL1 %	TL2 %	TL3%	TL4 %	TL5 %	TL6 %
1	C221	MS&M		36.66	63.33			
2	C222	CV&SM		36.66	63.33			
3	C223	DOM	25	25	25	25		
4	C224	TE-I	75	25				
5	C225	IE&M	45	55				
6	C226	MD		36.66	63.33			

Table: Internal Examination Taxonomy Coverage Analysis

III-II Semester (MID – I)

S. No	Course Code	Course Name	CO1%	CO2%	CO3%	CO4%	CO5%	CO6%
1	C321	OR	56.66	43.33				
2	C322	HT	33.33	16.67	50			
3	C323	CAD/CAM	33.34	33.34	33.34			
4	C324	UCMP	33.33	33.33	33.33			
5	C325	MCTN	33.33	33.33	33.33			

Table: Internal Examination CO Coverage Analysis

S. No	Course Code	Course Name	TL1 %	TL2 %	TL3%	TL4 %	TL5 %	TL6 %
1	C321	OR	10		90			
2	C322	HT		33.33	66.67			
3	C323	CAD/CAM		66.67	33.34			
4	C324	UCMP	33.33	33.33	33.33			
5	C325	MCTN	50	50				

Table: Internal Examination Taxonomy Coverage Analysis

IV-II Semester (MID – I)

S. No	Course Code	Course Name	CO1%	CO2%	CO3%	CO4%	CO5%	CO6%
1	C421	PPC	33.33	33.33	33.33			
2	C422	UCMP	33.33	33.33	33.33			
3	C423	AE	33.33	33.33	33.33			
4	C424	NDE	25	50	25			

Table: Internal Examination CO Coverage Analysis

S. No	Course Code	Course Name	TL1 %	TL2 %	TL3%	TL4 %	TL5 %	TL6 %
1	C421	PPC		83.33	16.67			
2	C422	UCMP	33.33	33.33	33.33			
3	C423	AE		100				
4	C424	NDE	75	25				

Table: Internal Examination Taxonomy Coverage Analysis.

II-II Semester (MID – II)

S. No	Course Code	Course Name	CO1%	CO2%	CO3%	CO4%	CO5%	CO6%
1	C221	MS&M				33.33	33.33	33.33
2	C222	CV&SM				33.33	33.33	33.33
3	C223	DOM				33.33	33.33	33.33
4	C224	TE-I				33.33	33.33	33.33

5	C225	IE&M				33.33	33.33	33.33
6	C226	MD				33.33	33.33	33.33

Table: Internal Examination CO Coverage Analysis

S. No	Course Code	Course Name	TL1 %	TL2 %	TL3%	TL4 %	TL5 %	TL6 %
1	C221	MS&M		66.67	33.34			
2	C222	CV&SM		66.67	33.34			
3	C223	DOM		50	50			
4	C224	TE-I		66.67	33.34			
5	C225	IE&M	30	70				
6	C226	MD		30	70			

Table: Internal Examination Taxonomy Coverage Analysis.

III-II Semester (MID – II)

S. No	Course Code	Course Name	CO1%	CO2%	CO3%	CO4%	CO5%	CO6%
1	C321	OR				33.33	33.33	33.33
2	C322	HT				20	60	20
3	C323	CAD/CAM				33.33	33.33	33.33
4	C324	UCMP				33.33	33.33	33.33
5	C325	MCTN				33.33	33.33	33.33

Table: Internal Examination CO Coverage Analysis

S. No	Course Code	Course Name	TL1 %	TL2 %	TL3%	TL4 %	TL5 %	TL6 %
1	C321	OR			50	50		
2	C322	HT			80	20		
3	C323	CAD/CAM		66.67	33.34			
4	C324	UCMP				33.33	33.33	33.33
5	C325	MCTN	16.66	66.66	16.66			

Table: Internal Examination Taxonomy Coverage Analysis.

IV-II Semester (MID – II)

S. No	Course Code	Course Name	CO1%	CO2%	CO3%	CO4%	CO5%	CO6%
1	C421	PPC				33.33	33.33	33.33
2	C422	UCMP				33.33	33.33	33.33
3	C423	AE				33.33	33.33	33.33
4	C424	NDE				33.33	33.33	33.33

Table: Internal Examination CO Coverage Analysis

S. No	Course Code	Course Name	TL1 %	TL2 %	TL3%	TL4 %	TL5 %	TL6 %
1	C421	PPC		66.67	33.33			
2	C422	UCMP	33.33	66.67				
3	C423	AE		66.67		33.33		
4	C424	NDE	33.33	66.67				

Table: Internal Examination Taxonomy Coverage Analysis.

AY 2020-21.

II – I semester (MID – I)

S. No	Course Code	Course Name	CO1%	CO2%	CO3%	CO4%	CO5%	CO6%
1	C211	VC&FT	33.33	33.33	33.33			
2	C212	MOS	16.67	16.67	33.33			
3	C213	FM&HM	33.34	33.33	33.34			
4	C214	PT	50%	16.66	33.34			
5	C215	KOM	33.34	33.34	33.34			
6	C216	CAEDP	33.34	33.34	33.34			
7	C217	EITK	33.33	33.33	33.33			

Table: Internal Examination CO Coverage Analysis

S. No	Course Code	Course Name	TL1 %	TL2 %	TL3%	TL4 %	TL5 %	TL6 %
1	C211	VC&FT		16.67	83.33			

2	C212	MOS			66.67	33.33		
3	C213	FM&HM		43.34	56.67			
4	C214	PT		50	33.33	16.66		
5	C215	KOM		33.34	66.67			
6	C216	CAEDP		43.34	56.67			
7	C217	EITK			66.66	33.33		

Table: Internal Examination Taxonomy Coverage Analysis

II – I semester (MID – II)

S. No	Course Code	Course Name	CO1%	CO2%	CO3%	CO4%	CO5%	CO6%
1	C211	VC&FT				33.33	33.33	33.33
2	C212	MOS				33.33	33.33	33.33
3	C213	FM&HM				33.34	33.34	33.34
4	C214	PT				33.33	33.33	33.33
5	C215	KOM				33.34	33.34	33.34
6	C216	CAEDP				33.33	33.33	33.33
7	C217	EITK				33.33	33.33	33.33

Table: Internal Examination CO Coverage Analysis.

S. No	Course Code	Course Name	TL1 %	TL2 %	TL3%	TL4 %	TL5 %	TL6 %
1	C211	VC&FT		16.67	83.33			
2	C212	MOS			66.67	33.33		
3	C213	FM&HM		43.34	56.67			
4	C214	PT		50	33.33	16.66		
5	C215	KOM		33.34	66.67			
6	C216	CAEDP		43.34	56.67			
7	C217	EITK			66.66	33.33		

Table: Internal Examination Taxonomy Coverage Analysis.

II – II semester (MID - I)

S. No	Course Code	Course Name	CO1%	CO2%	CO3%	CO4%	CO5%	CO6%
1	C221	MS&M	33.33	33.33	33.33			
2	C222	CV&SM	33.33	33.33	33.33			
3	C223	DOM	33.33	33.33	33.33			
4	C224	TE-I	33.33	33.33	33.33			
5	C225	IE&M	33.33	33.33	33.33			
6	C226	MD	33.33	33.33	33.33			

Table: Internal Examination CO Coverage Analysis.

S. No	Course Code	Course Name	TL1%	TL2%	TL3%	TL4%	TL5%	TL6%
1	C221	MS&M		36.66	63.33			
2	C222	CV&SM		36.66	63.33			
3	C223	DOM	25	25	25	25		
4	C224	TE-I	75	25				
5	C225	IE&M	45	55				
6	C226	MD		36.66	63.33			

Table: Internal Examination Taxonomy Coverage Analysis.

II – II semester (MID - II)

S. No	Course Code	Course Name	CO1%	CO2%	CO3%	CO4%	CO5%	CO6%
1	C221	MS&M	33.33	33.33	33.33			
2	C222	CV&SM	33.33	33.33	33.33			
3	C223	DOM	33.33	33.33	33.33			
4	C224	TE-I	33.33	33.33	33.33			
5	C225	IE&M	33.33	33.33	33.33			
6	C226	MD	33.33	33.33	33.33			

Table: Internal Examination CO Coverage Analysis.

S. No	Course Code	Course Name	TL1%	TL2%	TL3%	TL4%	TL5%	TL6%
1	C221	MS&M		36.66	63.33			
2	C222	CV&SM		36.66	63.33			
3	C223	DOM	25	25	25	25		
4	C224	TE-I	75	25				
5	C225	IE&M	45	55				
6	C226	MD		36.66	63.33			

Table: Internal Examination Taxonomy Coverage Analysis.

III – I semester (MID-I)

S. No	Course Code	Course Name	CO1%	CO2%	CO3%	CO4%	CO5%	CO6%
1	C311	DOM	33.33	33.33	33.33			
2	C312	DMM-II	33.33	33.33	33.34			
3	C313	MMM&M	33.33	33.33	33.33			
4	C314	MEFA	33.33	33.33	33.33			
5	C315	IC&GT	33.33	33.33	33.33			

Table: Internal Examination CO Coverage Analysis.

S. No	Course Code	Course Name	TL1 %	TL2 %	TL3%	TL4 %	TL5 %	TL6 %
1	C311	DOM	16.67	33.33	50			
2	C312	DMM-II		13.33	86.67			
3	C313	MMM&M	8.33	78.33	13.33			
4	C314	MEFA		33.33		66.66		
5	C315	IC&GT	16.67	33.33	50			

Table: Internal Examination Taxonomy Coverage Analysis.

III – I semester (MID-II)

S. No	Course Code	Course Name	CO1%	CO2%	CO3%	CO4%	CO5%	CO6%
1	C311	DOM				33.33	33.33	33.33
2	C312	DMM-II				33.33	50	16.67
3	C313	MMM&M			33.33	33.33	16.66	16.67

4	C314	MEFA				33.33	33.33	33.34
5	C315	IC&GT				33.33	33.33	33.33

Table: Internal Examination CO Coverage Analysis

S. No	Course Code	Course Name	TL1 %	TL2 %	TL3%	TL4 %	TL5 %	TL6 %
1	C311	DOM			66.66	33.33		
2	C312	DMM-II		16.67	33.33	50		
3	C313	MMM&M		33.33	66.67			
4	C314	MEFA		33.33	66.67			
5	C315	IC&GT	16.67	33.33	50			

Table: Internal Examination Taxonomy Coverage Analysis.

III – II semester (MID-I)

S. No	Course Code	Course Name	CO1%	CO2%	CO3%	CO4%	CO5%	CO6%
1	C321	OR	56.66	43.33				
2	C322	HT	33.33	16.67	50			
3	C323	CAD/CAM	33.34	33.34	33.34			
4	C324	UCMP	33.33	33.33	33.33			
5	C325	MCTN	33.33	33.33	33.33			

Table: Internal Examination CO Coverage Analysis

S. No	Course Code	Course Name	TL1 %	TL2 %	TL3%	TL4 %	TL5 %	TL6 %
1	C321	OR	10		90			
2	C322	HT		33.33	66.67			
3	C323	CAD/CAM		66.67	33.34			
4	C324	UCMP	33.33	33.33	33.33			
5	C325	MCTN	50	50				

Table: Internal Examination Taxonomy Coverage Analysis.

III – II semester (MID-II)

S. No	Course Code	Course Name	CO1%	CO2%	CO3%	CO4%	CO5%	CO6%
1	C321	OR			33.33	33.33	33.33	33.33
2	C322	HT				20	60	20
3	C323	CAD/CAM				33.34	33.34	33.34
4	C324	UCMP				33.33	33.33	33.33
5	C325	MCTN				33.33	33.33	33.33

Table: Internal Examination CO Coverage Analysis

S. No	Course Code	Course Name	TL1 %	TL2 %	TL3%	TL4 %	TL5 %	TL6 %
1	C321	OR			50	50		
2	C322	HT			80	20		
3	C323	CAD/CAM		66.67	33.34			
4	C324	UCMP	33.33	33.33	33.33			
5	C325	MCTN	16.66	66.66	16.66			

Table: Internal Examination Taxonomy Coverage Analysis.

IV-I semester (MID-I)

S. No	Course Code	Course Name	CO1%	CO2%	CO3%	CO4%	CO5%	CO6%
1	C411	MCTN	33.33	33.33	33.33			
2	C412	CAD/CAM	33.33	33.33	33.33			
3	C413	FEM	33.33	33.33	33.33			
4	C414	PPE	33.33	33.33	33.33			
5	C415	ADM	33.33	33.33	33.33			
6	C416	AM	33.33	33.33	33.33			

Table: Internal Examination CO Coverage Analysis

S. No	Course Code	Course Name	TL1 %	TL2 %	TL3%	TL4 %	TL5 %	TL6 %
1	C411	MCTN	30	70				
2	C412	CAD/CAM	25	75				

3	C413	FEM		25	75			
4	C414	PPE	30	30	40			
5	C415	ADM	13.33	40	46.6			
6	C416	AM	13.33	40	46.6			

Table: Internal Examination Taxonomy Coverage Analysis.

IV-I semester (MID-II)

S. No	Course Code	Course Name	CO1%	CO2%	CO3%	CO4%	CO5%	CO6%
1	C411	MCTN				33.33	33.33	33.33
2	C412	CAD/CAM				33.33	33.33	33.34
3	C413	FEM				33.33	33.33	33.33
4	C414	PPE				33.33	33.33	33.34
5	C415	ADM				33.33	33.33	33.33
6	C416	AM				33.33	33.33	33.33

Table: Internal Examination CO Coverage Analysis

S. No	Course Code	Course Name	TL1 %	TL2 %	TL3%	TL4 %	TL5 %	TL6 %
1	C411	MCTN	33.33	33.33	33.34			
2	C412	CAD/CAM	33.33	33.33	33.34			
3	C413	FEM	25	25	50			
4	C414	PPE		33.33	33.33	33.34		
5	C415	ADM				40	60	
6	C416	AM	40	60				

Table: Internal Examination Taxonomy Coverage Analysis.

IV-II semester (MID –I)

S. No	Course Code	Course Name	CO1%	CO2%	CO3%	CO4%	CO5%	CO6%
1	C421	PPC	33.33	33.33	33.33			
2	C422	UCMP	33.33	33.33	33.33			
3	C423	AE	33.33	33.33	33.33			
4	C424	NDE	25	50	25			

Table: Internal Examination CO Coverage Analysis

S. No	Course Code	Course Name	TL1 %	TL2 %	TL3%	TL4 %	TL5 %	TL6 %
1	C421	PPC		83.33	16.67			
2	C422	UCMP	33.33	33.33	33.33			
3	C423	AE		100				
4	C424	NDE	75	25				

Table: Internal Examination Taxonomy Coverage Analysis.

IV-II semester (MID –II)

S. No	Course Code	Course Name	CO1%	CO2%	CO3%	CO4%	CO5%	CO6%
1	C421	PPC				33.33	33.33	33.33
2	C422	UCMP				33.33	33.33	33.33
3	C423	AE				33.33	33.33	33.33
4	C424	NDE				33.33	33.33	33.33

Table: Internal Examination CO Coverage Analysis

S. No	Course Code	Course Name	TL1 %	TL2 %	TL3%	TL4 %	TL5 %	TL6 %
1	C421	PPC	-	66.67	33.33			
2	C422	UCMP	33.33	66.67				
3	C423	AE		66.67		33.33		
4	C424	NDE	33.33	66.67				

Table: Internal Examination Taxonomy Coverage Analysis.

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D. Quality of Assignment and its relevance to COs.

- Assignments promotes practice.
- Assignment may include theory, design, analysis and problems.
- A minimum of two assignments are given for each course in every semester and each assignment is evaluated for 5 marks.

A sample Assignment question papers of IC Engines and Gas turbines are given below:

ADITYA COLLEGE OF ENGINEERING
Approved by AICTE, Permanently Affiliated to JNTUK & Accredited by NAAC
Recognized by UGC under Sections 2(f) and 12(B) of UGC Act, 1956
Aditya Nagar, ADB Road, Surampalem - 533 437, E.G.Dist., Ph: 99631 76662.

DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year: 2021-22 **Assignment** - I

Programme: ME	**Class**: III B. Tech **Semester:** I
Course Code: R1931035 **Course Title**: IC Engines & Gas turbines	**Date of Submission**: 22.01.2022 **Maximum marks: 30**

S. No.	Questions	Marks	Taxonomy Descriptor	CO
1	State the major influence exercised by actual cycles. Write a brief note on each of them.	10	Understand	1
2	With a neat sketch explain the working of Magneto ignition system of SI engine	10	Remember	2
3.	Explain the stages of combustion in SI and CI engines What is ignition lag? Explain the factors effecting ignition lag	10	Understand	3

ADITYA COLLEGE OF ENGINEERING
Approved by AICTE, Permanently Affiliated to JNTUK & Accredited by NAAC
Recognized by UGC under Sections 2(f) and 12(B) of UGC Act, 1956
Aditya Nagar, ADB Road, Surampalem - 533 437, E.G.Dist., Ph: 99631 76662.

Academic Year: 2021-22 **Assignment** - II

Programme: ME	**Class**: III B. Tech **Semester:** I
Course Code: R1931035 **Course Title**: IC Engines & Gas turbines	**Date of Submission**: 15.03.2022 **Maximum marks:** 30

S. No.	Questions	Marks	Taxonomy Descriptor	CO
1	Find the air –fuel ratio of four strokes, single cylinder, air cooled engine with 7M fuel consumption time for 0.1 m3 is 16 sec. The load is	10	Apply	4

	17 kg at a speed of 2500 rpm. Find also brake specific fuel consumption in kg/ kWh and brake thermal efficiency. Assume the density of air as 1.2 kg/m3 and specific gravity of fuel as 0.73. The lower heating value of fuel is 40MJ/kg and dynamometer constant is 5000			
2	Draw the line diagram and explain the working of Reheat gas turbine cycle.	10	Understand	5
3.	Explain the principle and working of liquid propellant rocket engine with neat sketch.	10	Understand	6

2.2.3 Quality of student's projects **(25)**

A. Process for identification of student's projects.

The projects are divided into 5 major groups depending on the availability of the specialization of the faculty:

1. Thermal Engineering
2. Machine Design
3. Robotics
4. Material Science
5. Production Engineering

B. Identification of project and allocation methodology to faculty members.

- **Student Team Formation:** The allotment of students can be done at the beginning of the VII Semester, each batch consists of minimum 5 members out of them two are first class grade students and remaining are average as well as below average students. This process will be done by Project coordinator under the presence of Head of the Department**.**
- **Project Work Selection:** Area of the Project work is the choice of student's team according their interest of area before the allotment of guide, for this project coordinator has to collect the student's area of interest and consolidated it in a list.
- **Allotment of Guide:** Allotment of guide has to be done according to the area of specialization of faculty that matches with interested project area of the team, each guide has to allot minimum one team, this should be done by the Project coordinator in the presence of Head of the Department.
- The Head of the Department/project coordinator allocates laboratory resources for in-house projects and assigns the number of days per week for working on the projects in the industry (if the project is being carried out in industry).

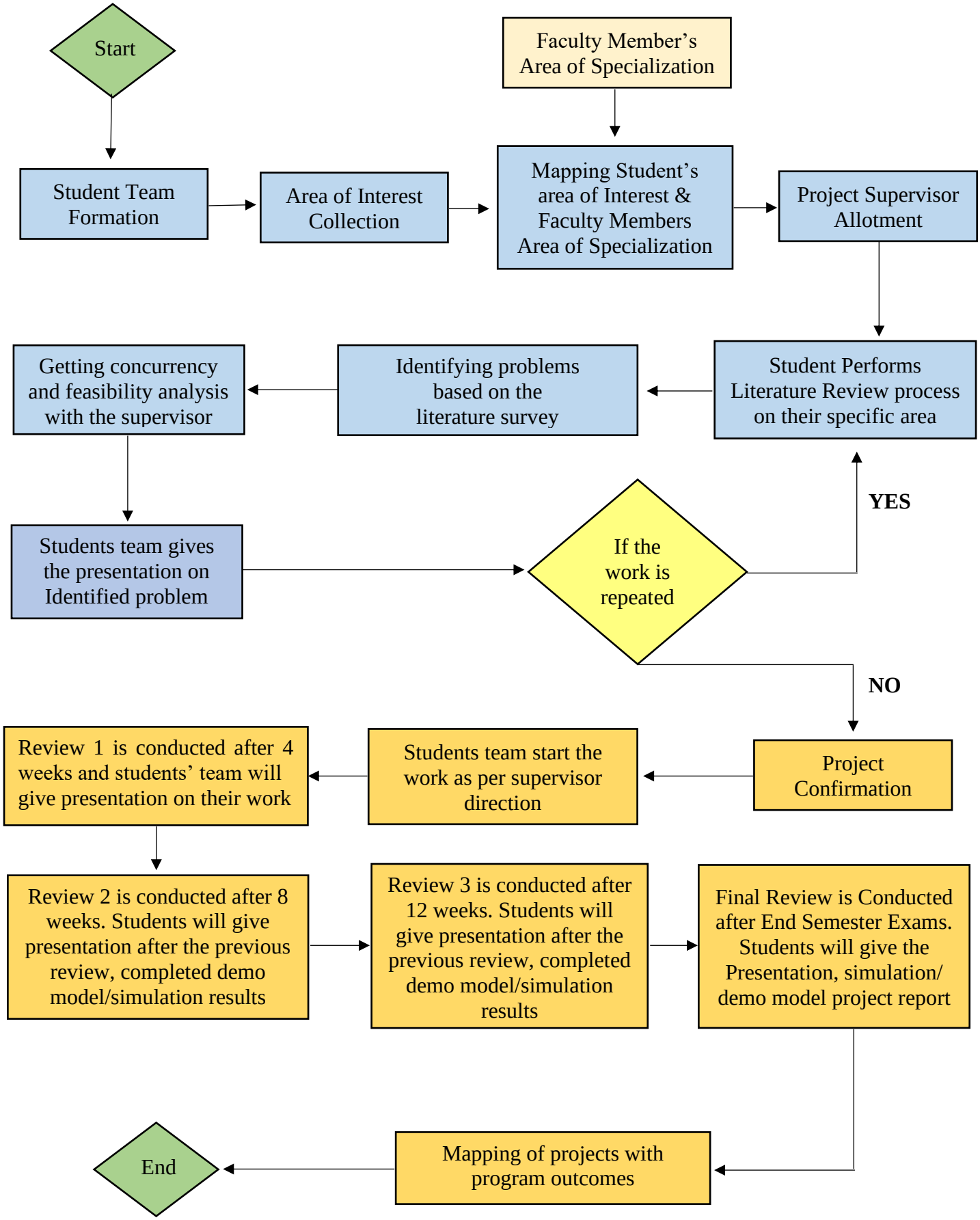

Fig: - Process used to assess individual and performance of the project

- The Head of Department/PC/project coordinator lists the types of projects based on Environment, Safety, Ethics, Cost and category of the project i.e., whether it is application-based, Product Development based or Research-based projects.

Faculty Area of Specialization: A.Y: 2021 – 2022

S. No.	Name of Faculty	Current Designation	Area of Specialization
1	Dr. Y. K. S. Subbarao	Professor	Thermal Engineering
2	Dr. DVSSSV Prasad	Professor	Manufacturing
3	Dr. M. Anjibabu	Associate Professor	Machine Design
4	Dr. B. Marxim. Rahula Bharathi	Associate Professor	Acoustics
5	Mr. M. Nagamahesh	Associate Professor	Thermal Engineering
6	Mr. I. Manoj Krishna	Associate Professor	Manufacturing
7	Mr. D. Manikandan	Associate Professor	CAD/CAM
8	Mr. M. Balan	Associate Professor	Product Design
9	Mr. N. Prakash Kumar	Associate Professor	Advanced Mfg. Systems
10	Mrs. S Swetha Radha	Associate Professor	CAD/CAM
11	Dr. Navaneetha Krishnan V	Assistant Professor	Manufacturing
12	Dr. N. Bhanu Teja	Assistant Professor	Thermal Engineering (Alternative Fuels)
13	Mr. M. Sarat Chandra Prasad	Assistant Professor	Machine Design
14	Mr. P. H. C. Prasad	Assistant Professor	Thermal Engineering
15	Mr. M. Prem Kumar Reddy	Assistant Professor	Thermal Engineering
16	Mr. K. Venkata Ramana	Assistant Professor	Foundry
17	Mr. DVN Prasad	Assistant Professor	Thermal Engineering
18	Mr. R Siva Prasad	Assistant Professor	Thermal Engineering
19	Mr. N Raveendra Reddy	Assistant Professor	Thermal Engineering
20	Mr. R. Badrinath	Assistant Professor	Product Design
21	Mr. N Vijaya Kumar	Assistant Professor	Advanced Manufacturing Systems
22	Mr. S. Mugundhan	Assistant Professor	Product Design

23	Mr. M. S. Ravitheja	Assistant Professor	Production Engineering
24	Mr. K. Venuvardhan	Assistant Professor	CAD/CAM

Faculty Area of Specialization: A.Y: 2020 – 2021

S. No.	Name of Faculty	Current Designation	Area of Specialization
1	Dr. Y. K. S. Subbarao	Professor	Thermal Engineering
2	Dr. DVSSSV Prasad	Professor	Manufacturing
3	Dr. M. Anjibabu	Associate Professor	Machine Design
4	Dr. B. Marxim. Rahula Bharathi	Associate Professor	Acoustics
5	Mr. M. Nagamahesh	Associate Professor	Thermal Engineering
6	Mr. I. Manoj Krishna	Associate Professor	Manufacturing
7	Mr. D. Manikandan	Associate Professor	CAD/CAM
8	Mr. M. Balan	Associate Professor	Product Design
9	Mr. N. Prakash Kumar	Associate Professor	Advanced Mfg. Systems
10	Dr. N. Bhanu Teja	Assistant Professor	Alternative Fuels
11	Mr. M. Sarat Chandra Prasad	Assistant Professor	Machine Design
12	Mr. P. Satish	Assistant Professor	Nano Technology
13	Mr. P. H. C. Prasad	Assistant Professor	Thermal Engineering
14	Mr. M. Prem Kumar Reddy	Assistant Professor	Thermal Engineering
15	Mr. V V Chaitanya	Assistant Professor	Thermal Engineering
16	Mr. K. Venkata Ramana	Assistant Professor	Foundry
17	Mr. DVN Prasad	Assistant Professor	Thermal Engineering
18	Mr. M. Vamsi	Assistant Professor	Thermal Engineering
19	Mr. N. G. Ganeswara Rao	Assistant Professor	CAD/CAM
20	Mr. R. Badrinath	Assistant Professor	Product Design
21	Mr. J. Trinadh	Assistant Professor	Thermal Engineering
22	Mr. S. Mugundhan	Assistant Professor	Product Design

23	Mr. M. S. Ravitheja	Assistant Professor	Production Engineering & Design
24	Ms. P. Devi Sireesha	Assistant Professor	Advanced Manufacturing Systems
25	Mr. K. Venkatesh	Assistant Professor	CAD/CAM
26	Mr. A. Durga Srinivas	Assistant Professor	CAD/CAM
27	Mr. K. Venuvardhan	Assistant Professor	CAD/CAM

Faculty Area of Specialization: A.Y: 2019 – 2020

S. No.	Name of Faculty	Current Designation	Area of Specialization
1	Mr. Y.K.S. Subbarao	Professor & HOD	Thermal Engineering
2	Dr. DVSSSV Prasad	Professor	Manufacturing
3	Dr. M. Anjibabu	Associate Professor	Machine Design
4	Dr. B. M. Rahula Bharathi	Associate Professor	Acoustics
5	Mr. I. Manoj Krishna	Associate Professor	Manufacturing
6	Mr. PSVSSR Krishna	Associate Professor	Thermal
7	Mr. M. Nagamahesh	Associate Professor	Thermal Engineering
8	Mr. D. Manikandan	Associate Professor	CAD/CAM
9	Dr. N. Bhanu Teja	Assistant Professor	Alternative Fuels
10	Mr. P. Satish	Assistant Professor	Nano Technology
11	Ms. Upasana Chaini	Assistant Professor	Thermal
12	Ms. D. Shakeena	Assistant Professor	Advanced Manufacturing Systems
13	Mr. M.S.A. Venkatesh	Assistant Professor	Thermal
14	Mr. K. Venkatesh	Assistant Professor	CAD/CAM
15	Mr. L. Nageseshu	Assistant Professor	Thermal
16	Mr. Ch. Ramesh	Assistant Professor	Thermal
17	Mr. N. Ramana	Assistant Professor	Thermal
18	Mr. J.S.S. Kumar	Assistant Professor	CAD/CAM
19	Mr. KNV Sravan Kumar	Assistant Professor	Thermal

20	Mr. N.G. Ganeswara Rao	Assistant Professor	CAD/CAM
21	Mr. M. Sarat Chandra Prasad	Assistant Professor	Machine Design
22	Mr. P.H.C. Prasad	Assistant Professor	Thermal Engineering
23	Mr. M. Prem Kumar Reddy	Assistant Professor	Thermal Engineering
24	Mr. K. Venkata Ramana	Assistant Professor	Foundry
25	Mr. DVN Prasad	Assistant Professor	Thermal Engineering
26	Mr. M.S. Ravitheja	Assistant Professor	Production Engineering
27	Mr. K. Venuvardhan	Assistant Professor	CAD/CAM

Student Area of Interest: A. Y: 2021 – 2022

IV B. Tech II Sem - Sec: A

S. No.	Roll No.	Name of the Student	Batch No.	Area of Interest
1	19MH5A0322	KADULURI SUDARSHAN REDDY	A1	Thermal Engineering
2	19MH5A0315	GORU YADAGIREESH		
3	18MH1A0312	PABBU V V S SWAMI		
4	19MH5A0309	CHUKKA CHARAN SATYA SAI TEJA REDDY		
5	18MH1A0308	KOTTUM MAHESH		
6	19MH5A0302	AKULA GOVA RAJU	A2	Machine Design & Robotic
7	19MH5A0304	KOPPISETTI RAMU		
8	18MH1A0315	YENDRU GOVINDA RAJU		
9	19MH5A0316	GUDISEVA SRI VIKAS		
10	18MH1A0311	NARINA VEERA NAGA SIVA SAI		
11	19MH5A0305	BAVISETTI SIVARAMAKRISHNA	A3	Machine Design & Robotic
12	19MH5A0328	KETHA VARUNESH		
13	18MH1A0314	YARRA SIVA VENKATA DURGA SAI		

14	18MH1A0310	MAHENDRADA KUMAR		
15	18MH1A0305	KARRI SUNIL REDDY		
16	19MH5A0311	DWARAPUREDDI TARUN	A4	Machine Design & Robotic
17	19MH5A0301	ADABALA RAMACHAKRA		
18	19MH5A0313	GEDDAM HIMASAILANATH		
19	19MH5A0321	IJJINA KRISHNAVENI		
20	19MH5A0326	KATARI VENKATA AKHIL MAHESH		
21	19MH5A0314	GOLLAVILLI PAVAN	A5	Machine Design & Robotic
22	19MH5A0312	GANGULA GOVARDHAN CHINNAJI		
23	18MH1A0303	KAKARALAPUDI SRI DATTA		
24	19MH5A0319	GURUGUBELLI NAVEEN KUMAR	A6	Machine Design & Robotic
25	19MH5A0323	KALIGOTLA SAI KARTHIK		
26	19MH5A0310	DODDI SAI GANESH		
27	18MH1A0306	KARUMURI LOKESH MANIKANTA RAGHUNADH		
28	19MH5A0320	HARI KRISHNA CHALLA	A7	Manufacturing Technology
29	18MH1A0302	JAVVADHI GANESH		
30	19MH5A0324	KANDREGULA ABHIRAM		
31	19MH5A0327	KETHA MANIKANTA		
32	18MH1A0313	SAMI KHALID ADAM OSMAN		
33	19MH5A0330	KONDA SANDHYA RANI		
34	19MH5A0317	GUDIVADA AJAYBABU	A8	Machine Design & Robotic
35	19MH5A0303	ANUSURI VIJAY		
36	19MH5A0325	KANDULA LAKSHMI SUDHAKAR		
37	18MH1A0309	LAGUDU SIVARAJU		

38	19MH5A0318	GUMMELLA TEERUMALA VEERABABU	A9	Machine Design & Robotic
39	19MH5A0307	BONEPALLI RUPENDRA		
40	19MH5A0308	CHODIPALLI NARENDRA		
41	18MH1A0301	BHALLAM SAI SURAJ VARMA		

IV B. Tech II Sem - Sec: B

S. No.	Roll No.	Name of the Student	Batch No.	Area of Interest
1	19MH5A0348	PADALA RAVI KIRAN	B1	Machine Design & Robotic
2	19MH5A0332	KOPPISETTI ANIL KUMAR		
3	19MH5A0338	MANGA SATYANARAYANA		
4	19MH5A0347	NUNNA SAI CHAKRADHAR		
5	17MH1A0306	P PRASANT KUMAR		
6	19MH5A0344	NEKKALA SANDEEP KUMAR	B2	Machine Design & Robotic
7	19MH5A0370	YALLA SATISH		
8	19MH5A0355	PENKE SRI SAI KUMAR		
9	19MH5A0356	PINIPELLI VIJAY RAJU		
10	19MH5A0335	KOTIPALLI VEERESHKUMAR	B3	Machine Design & Robotic
11	19MH5A0349	PADALA VEERA SURYA KANAKA DURGA REDDY		
12	19MH5A0361	THALATAM SATYANARAYANA		
13	19MH5A0340	MEDISETTI DEVI VINAY		
14	19MH5A0368	VATTIKUTI PAVAN VENKATA SATYA SRI CHARAN	B4	Machine Design & Robotic
15	19MH5A0360	SWAMIREDDY SRI TEERDHA GANGA SITA RAM		
16	19MH5A0351	PANDI VEERA SWAMY		
17	19MH5A0341	MELAM PAVAN LAKESH		
18	19MH5A0306	DUDDUPUDI BHARGAV		

19	19MH5A0345	NIDRABINGI VEERA VENKATA LOVA RAJU	B5	Machine Design
20	19MH5A0346	NUKA MOHANA RAO		
21	19MH5A0366	UPPADA SURENDRA		
22	19MH5A0362	THOTA KARTHIK MOHAN		
23	19MH5A0343	NARLA SATHISH KUMAR		
24	19MH5A0336	LINGAM SURESH	B6	Thermal Engineering
25	19MH5A0354	PENDYALA PRADEEP		
26	19MH5A0358	SHAIK AHAMADALI		
27	19MH5A0363	THOTA SURYA CHAKRAVARTHI		
28	19MH5A0334	KOSANAM SANDEEP KALYAN	B7	Machine Design & Robotic
29	19MH5A0353	YEDLA GANESH BABU		
30	19MH5A0364	TORATI SIVA NAGU		
31	19MH5A0350	PALAPARTHI ABHISHEK		
32	19MH5A0357	REDDY MANI KIRAN	B8	Manufacturing Technology
33	19MH5A0365	UNDAMATLA SRI CHAKRA ANJANA SAI		
34	19MH5A0352	PATHIVADA HEMANTH DURGA KALYAN VEERESH BABU		
35	19MH5A0359	SINGULURI RAVI KIRAN		
36	19MH5A0369	YADALA TIRUMALA VENKATESH	B9	Manufacturing Technology
37	19MH5A0367	VADRANAM GANESH KOTESWARA RAO		
38	19MH5A0339	MEDDURU MURALIKRISHNA		
39	19MH5A0331	KOPPANA SRINIVASU		
40	19MH5A0333	YERRAMNEEDI ANJANEYA SITA SURESH		

Project allocation and corresponding mapped POS and PSOS for the A.Y: 2021-22 - SEC - A:

Batch No.	S. No.	Roll No.	Name of the Student	Name & Designation of the Guide	Project Title	Area of Specialization	Mapping with the stated the POs and PSOs
A1	1	19MH5A0322	Kaduluri Sudarshan Reddy	Mr. N. Raveendra Reddy, Assistant Professor	Fabrication of Solar Powered Hacksaw	Thermal Engineering	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	2	19MH5A0315	Goru Yadagireesh				
	3	18MH1A0312	Pabbu V V S Swami				
	4	19MH5A0309	Chukka Charan Satya Sai Teja Reddy				
	5	18MH1A0308	Kottum Mahesh				
A2	6	19MH5A0302	Akula Gova Raju	Dr. D V S S S V Prasad Professor Mr. K. Venuvardhan Assistant Professor	Fabrication of 3D Printer	Manufacturing	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	7	19MH5A0304	Koppisetti Ramu				
	8	18MH1A0315	Yendru Govinda Raju				
	9	19MH5A0316	Gudiseva Sri Vikas				
	10	18MH1A0311	Narina Veera Naga Siva Sai				
A3	11	19MH5A0305	Bavisetti Siva Ramakrishna	Dr. N Krishnan Vadivel Assistant Professor	Automatic Coconut Tree Climbing Machine	Robotics	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	12	19MH5A0328	Ketha Varunesh				
	13	18MH1A0314	Yarra Siva Venkata Durga Sai				

	14	18MH1A0310	Mahendrada Kumar				
	15	18MH1A0305	Karri Sunil Reddy				
A4	16	19MH5A0311	Dwarapureddi Tarun	Dr. M Anjibabu Associate Professor Mr. M. S. Ravitheja Assistant Professor	Navigation and Multi-Tasking Robot	Robotics	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	17	19MH5A0301	Adabala Ramachakra				
	18	19MH5A0313	Geddam Himasailanath				
	19	19MH5A0321	Ijjina Krishnaveni				
	20	19MH5A0326	Katari Venkata Akhil Mahesh				
A5	21	19MH5A0314	Gollavilli Pavan	Mr. R Siva Prasad Assistant Professor Mr. N. Prakash Kumar Associate Professor	Colour Based Object Sorting Robotic Arm	Robotics	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	22	19MH5A0312	Gangula Govardhan Chinnaji				
	23	18MH1A0303	Kakaralapudi Sri Datta				
A6	24	19MH5A0319	Gurugubelli Naveen Kumar	Mr. P. Hari Chandra Prasad Assistant Professor	Automatic Seed Dispensing Robot Using IOT Technology	Robotics	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8,
	25	19MH5A0323	Kaligotla Sai Karthik				

	26	19MH5A0310	Doddi Sai Ganesh				PO9, PO10, PO11, PO12, PSO1, PSO2
	27	18MH1A0306	Karumuri Lokesh Manikanta Raghunadh				
A7	28	19MH5A0320	Hari Krishna Challa	Dr. Y.K.S Subba Rao Professor Mr. S. Mugundhan Assistant Professor	Fabrication of Floor Cleaning Machine	Manufacturing	PO1, PO2, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	29	18MH1A0302	Javvadhi Ganesh				
	30	19MH5A0324	Kandregula Abhiram				
	31	19MH5A0327	Ketha Manikanta				
	32	18MH1A0313	Sami Khalid Adam Osman				
	33	19MH5A0330	Konda Sandhya Rani				
A8	34	19MH5A0317	Gudivada Ajaybabu	Mr. M. Balan Associate Professor Mr. R Siva Prasad Assistant Professor	Voice Control Robot	Robotics	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	35	19MH5A0303	Anusuri Vijay				
	36	19MH5A0325	Kandula Lakshmi Sudhakar				
	37	18MH1A0309	Lagudu Sivaraju				
A9	38	19MH5A0318	Gummella Teerumala Veerababu	Dr. N Bhanu Teja Assistant Professor Mr. N. Vijaya Kumar Assistant Professor	Navigation And Multi-Tasking Robot	Robotics	PO1, PO2, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	39	19MH5A0307	Bonepalli Rupendra				
	40	19MH5A0308	Chodipalli Narendra				

	41	18MH1A0301	Bhallam Sai Suraj Varma				

Project allocation and corresponding mapped POS and PSOS for the A.Y: 2021-22 - SEC - B:

Batch No.	S. No.	Roll No.	Name of the Student	Name & Designation of the Guide	Project Title	Area of Specialization	Mapping with the stated the POs and PSOs
B1	1	19MH5A0348	Padala Ravi Kiran	Dr. Marxim Rahula Bharathi B Associate Professor Mr. M. Nagamahesh Associate Professor	IOT Based Gas Pipe Detection Robot	Robotics	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	2	19MH5A0332	Koppisetti Anil Kumar				
	3	19MH5A0338	Manga Satyanarayana				
	4	19MH5A0347	Nunna Sai Chakradhar				
	5	17MH1A0306	P Prasant Kumar				
B2	6	19MH5A0344	Nekkala Sandeep Kumar	Dr. Marxim Rahula Bharathi B Associate Professor Mr. R. Badrinath Assistant Professor	Design And Development of Human Writing Robot	Robotics	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	7	19MH5A0370	Yalla Satish				
	8	19MH5A0355	Penke Sri Sai Kumar				
	9	19MH5A0356	Pinipelli Vijay Raju				
B3	10	19MH5A0335	Kotipalli Veereshkumar	Dr. Y K S Subba Rao Professor	Fertilizer Spraying Robot	Robotics	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8,

	11	19MH5A0349	Padala Veera Surya Kanaka Durga Reddy	Mr. D.V.N. Prasad Assistant Professor			PO9, PO10, PO11, PO12, PSO1, PSO2
	12	19MH5A0361	Thalatam Satyanarayana				
	13	19MH5A0340	Medisetti Devi Vinay				
B4	14	19MH5A0368	Vattikuti Pavan Venkata Satya Sri Charan	Mr. K V Ramana Assistant Professor Mr. D. Manikandan Assistant Professor	Advance Military Spying and Bomb Disposal Robot with Wireless Rf Camera	Robotics	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	15	19MH5A0360	Swamireddy Sri Teerdha Ganga Sita Ram				
	16	19MH5A0351	Pandi Veera Swamy				
	17	19MH5A0341	Melam Pavan Lakesh				
	18	19MH5A0306	Duddupudi Bhargav				
B5	19	19MH5A0345	Nidrabingi Veera Venkata Lova Raju	Mr. M Sarat Chandra Prasad Assistant Professor	Automatic Tyre Inflation System	Robotics	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	20	19MH5A0346	Nuka Mohana Rao				
	21	19MH5A0366	Uppada Surendra				
	22	19MH5A0362	Thota Karthik Mohan				
	23	19MH5A0343	Narla Sathish Kumar				
B6	24	19MH5A0336	Lingam Suresh	Mr. M Prem Kumar Reddy Assistant Professor	Design And Evaluation of Solar Air Heater	Thermal	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	25	19MH5A0354	Pendyala Pradeep				
	26	19MH5A0358	Shaik Ahamadali				

	27	19MH5A0363	Thota Surya Chakravarthi				
B7	28	19MH5A0334	Kosanam Sandeep Kalyan				
	29	19MH5A0353	Yedla Ganesh Babu				
	30	19MH5A0364	Torati Siva Nagu				
	31	19MH5A0350	Palaparthi Abhishek				
B8	32	19MH5A0357	Reddy Mani Kiran	Mrs. S Swetha Radha Associate Professor Mr. I. Manoj Krishna Associate Professor	Android Based Pick and Place Robot	Robotics	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	33	19MH5A0365	Undamatla Sri Chakra Anjana Sai				
	34	19MH5A0352	Pathivada Hemanth Durga kalyan Veeresh babu				
	35	19MH5A0359	Singuluri Ravi Kiran				
B9	36	19MH5A0369	Yadala Tirumala Venkatesh	Mr. M Sarat Chandra Prasad Assistant Professor	Agricultural Wheel Sprayer	Production	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	37	19MH5A0367	Vadranam Ganesh Koteswara Rao				
	38	19MH5A0339	Medduru Murali krishna				
	39	19MH5A0331	Koppana Srinivasu				
	40	19MH5A0333	Yerramneedi Anjaneya Sita Suresh				

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Project allocation and corresponding mapped POs and PSOs for the Academic Year 2020-21: Sec - A

Batch No.	S. No.	Roll No.	Name of the Student	Name & Designation of the Guide	Project Title	Area of Specialization	Mapping with the stated the POs and PSOs
A1	1	17MH1A0301	B Likiteshwar (L)	Mr. N Raveendra Reddy Assistant Professor	Design and fabrication of thermoelectric refrigerator and heater	Thermal	PO1, PO2, PO3, PO6, PO9, PO10, PO11, PO12, PSO2
	2	18MH5A0321	Kotipalli Narendra Kumar				
	3	18MH5A0305	Challapalli Venkatesh				
	4	17MH1A0308	Penugula Sundar Jaya Prakash				
A2	5	18MH5A0304	Borusu Loka Veera Sriram	Mr. M Prem Kumar Reddy Assistant Professor	Experimental Investigation of a Solar Air Heater with and without Perforated W- Shaped Baffles	Thermal	PO1, PO2, PO3, PO4, PO6, PO7, PO9, PO10, PO11, PO12, PSO1
	6	17MH5A03A9	Bodem Venkateswarlu				
	7	18MH5A0302	Barnikala Tatajee				
	8	17MH1A0314	Syed Salman Ahamed				
A3	9	18MH5A0306	Chittem Nagendra Babu (L)	Mr. M Sarat Chandra Prasad Assistant Professor	Kinect WIFI Robot Arm	Robotics	PO1, PO2, PO3, PO5, PO6, PO9, PO10, PO11, PO12, PSO1, PSO2
	10	18MH5A0314	Jilagam Hema Suresh				
	11	17MH1A0303	Kotha Sai Rajesh				
A4	12	18MH5A0307	Gaddala Dinakar (L)				
	13	17MH1A0316	Vemula Naga Bhushanam				

	14	17MH1A0304	Natte Govindaraju				
	15	17MH1A0307	Pasupuleti Ramesh				
A5	16	18MH5A0308	Gollavilli V V Satya Sai Ravi Teja (L)				
	17	18MH5A0317	Khandavilli Sai Datta				
	18	18MH5A0316	Ketha Venkata Narasimha Rao				
	19	17MH1A0315	Thota Rohith				
A6	20	18MH5A0309	Gooda Murali Krishna (L)	Mr. P Hari Chandra Prasad Assistant Professor	Flow And Structural Analysis of An Aeroponic Tower	Thermal	PO1, PO2, PO3, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
	21	18MH5A0301	Alluri Hemanth Kumar				
	22	18MH5A0311	Gundarapu Praveen Kumar				
	23	17MH1A0310	Setti Karthik Naidu				
A7	24	18MH5A0310	Gudla Suresh (L)	Dr. Y K Srinivasa Subba Rao Assistant Professor	Impact of Tamanu Bio-Diesel Blends on Combustion Performance and Emissions of VCR Engine	Thermal	PO1, PO2, PO3, PO6, PO7, PO9, PO10, PO11, PO12, PSO1
	25	18MH5A0320	Kommoji Manoj Kumar				
	26	17MH1A0317	Yeripalli Anvesh				
	27	17MH1A0311	Sidagam Naga Anil				
A8	28	18MH5A0313	Jettiboina Balaji (L)	Mr. M Prem Kumar Reddy Assistant Professor	Experimental Investigation of a Solar Air Heater with and without	Thermal	PO1, PO2, PO3, PO4, PO6, PO7, PO9, PO10, PO11, PO12, PSO1
	29	18MH5A0303	Bondada Daniel				

	30	18MH5A0315	Kala Bala Murali		Perforated W- Shaped Baffles		
	31	18MH5A0312	Inumarthi Satya Veera Lokesh				
A9	32	18MH5A0319	Kommana D Veera Venkata Siva Sai Apparao (L)	Dr. M. Anjibabu Associate Professor	Prototype Modelling of an Automated Guided Vehicle	Machine Design	PO1, PO2, PO3, PO6, PO9, PO10, PO11, PO12, PSO2
	33	17MH1A0302	Kotani Satish				
	34	18MH5A0318	Kola Harish				
	35	17MH1A0313	Syed Kaleemullasha				

Project allocation and corresponding mapped POs and PSOs for the Academic Year 2020-21: Sec – B

Batch No.	S. No.	Roll No.	Name of the Student	Name & Designation of the Guide	Project Title	Area of Specialization	Mapping with the stated the POs and PSOs
B1	1	18MH5A0323	Lakkasani Rekha Durga Mani (L)	Mr. M Vamsi Assistant Professor	Experimental Analysis of Solar Pond	Thermal	PO1, PO2, PO3, PO5, PO6, PO7, PO9, PO10, PO11, PO12, PSO2
	2	18MH5A0324	Malladi Jaya Surya				
	3	18MH5A0325	Manepalli Hema Veera Manikanta				
	4	18MH5A0336	Pedavegi Surya Sai Teja				
B2	5	18MH5A0333	Nunnaboina Mallikarjuna Rao (L)	Mr. V Venkata Chaitanya Assistant Professor	Atmospheric Water Generator (Awg)	Production	PO1, PO2, PO3, PO6, PO7, PO9, PO10, PO11, PO12, PSO2
	6	18MH5A0349	Voleti Satya Teja				

	7	18MH5A0359	Vaddi Siva Surya Rama Krishna Sai Durga				
	8	18MH5A0340	Sabbavarapu Yeswanth Manohar Naidu				
B3	9	18MH5A0351	Yenninti Saikumar (L)	Mr. T Srinu Assistant Professor	Analysis Of Ductile to Brittle Transition Temperature of Mild Steel	Material Science	PO1, PO2, PO3, PO6, PO9, PO10, PO11, PO12, PSO1, PSO2
	10	18MH5A0341	Seeli John Moses				
	11	18MH5A0342	Sepana Santosh				
	12	18MH5A0352	Bankuru Jayasankar				
B4	13	18MH5A0332	Nandipati Swamy (L)	N Raveendra Reddy Assistant Professor	Design And Fabrication of Thermoelectric Refrigerator and Heater	Thermal	PO1, PO2, PO3, PO6, PO9, PO10, PO11, PO12, PSO2
	14	18MH5A0328	Medisetti Devi Prasad Raju				
	15	18MH5A0335	Pappu Suryakiran				
	16	18MH5A0326	Masavarapu Muralikrishna				
B5	17	18MH5A0339	Rayudu Karthik (L)	Dr. N Bhanu Teja Assistant Professor	Performance, Emission, Combustion Characteristics Of Phoenix Sylvestris (Silver Date) Methyl Ester in An Unmodified Diesel Engine	Thermal	PO1, PO2, PO3, PO6, PO7, PO9, PO10, PO11, PO12, PSO1, PSO2
	18	18MH5A0330	Mutyala Sai Manoj				
	19	18MH5A0327	Medapureddi Srinu				
	20	18MH5A0358	Singana Samuel Raju				
B6	21	18MH5A0348	Vasamsetti Gangadhara Sai (L)	Mr. R Siva Prasad Assistant Professor	Fabrication Of Motorized Four Way Power Hacksaw	Production	PO1, PO2, PO3, PO6, PO9, PO10, PO11, PO12, PSO2
	22	18MH5A0360	Bhuvanasi Ravi Durga Krishna Prasad				

	23	18MH5A0350	Yadapalli Sai Charan				
	24	18MH5A0322	Laddika Sai Venkata Aditya				
B7	25	18MH5A0331	Nalla Simhadri Dora (L)	Dr. D V S S S V Prasad Professor	Design Optimization of Mechanical Components Using Genetic Algorithm	Machine Design	PO1, PO2, PO3, PO4, PO6, PO9, PO10, PO11, PO12, PSO1
	26	18MH5A0353	Mylapilli Rajesh				
	27	18MH5A0345	Tallam N N V Ganesh				
	28	18MH5A0356	Karnasula V V S N Pavan Kumar				
B8	29	18MH5A0347	Vakada Ratna Prasad (L)	Mr. R Siva Prasad Assistant Professor	Fabrication Of Motorized Four Way Power Hacksaw	Production	PO1, PO2, PO3, PO6, PO9, PO10, PO11, PO12, PSO2
	30	18MH5A0346	Uppuluri Ashok				
	31	18MH5A0334	Panthadi Sathish Kumar				
	32	18MH5A0344	Surabattula Veera Venkata Satyanarayana				
B9	33	18MH5A0337	Pitla Surekha (L)	Dr. Marxim Rahula Bharathi B Associate Professor	Design And Fabrication of Electromagnetic Braking System	Machine Design	PO1, PO2, PO3, PO6, PO9, PO10, PO11, PO12, PSO2
	34	18MH5A0343	Somisetti Sateesh				
	35	18MH5A0338	Rasakonda Eswara Vara Prasad				
	36	18MH5A0362	Maddala Sai Durga Sasidhar				
	37	18MH5A0354	Dantuluri Charan Sai Vishwanatha Varma				

Project allocation and corresponding mapped POs and PSOs for the Academic Year 2018-19: Sec – A

Batch No.	S. No.	Roll No.	Name of the Student	Name & Designation of the Guide	Project Title	Area of Specialization	Mapping with the stated the POs and PSOs
A1	1	16MH5A0315	Mekala Ramadevi	Mr. Y K Srinivasa Subba Rao	Experimental investigation and performance analysis on mint oil on a high speed Vcr engine	**Thermal**	PO1, PO2, PO4, PO6, PO8, PO9, PO10, PO11, PO12, PSO1
	2	15MH1A0301	Adapa Vinay Sai Manikantha				
	3	15MH1A0337	Koppisetti Ayyappa				
	4	15MH1A0318	Gangula Pavan Kumar				
	5	15MH1A0333	Kethineedi Santhosh Kumar				
	6	15MH1A0348	Nalam Ajay Siva Kumar				
A2	7	16MH5A0301	Adapa Bhargava Sandhya	Mr. M Naga Mahesh	Voice Control Robot	**Robotics**	PO1, PO2, PO3, PO5, PO6, PO8, PO9, PO10, PO11, PO12, PSO1
	8	15MH1A0336	Koppana Veera Venkata Satyanarayana				
	9	16MH5A0313	Gulipalli Prasad				
	10	15MH1A0344	Mediboina Uma Vijaya Mahesh				
	11	15MH1A0313	Gaddam Surya Prakash				
	12	15MH1A0302	Annem Siva				

A3	**13**	16MH5A0314	Lingupanda Satya Manasa	Dr. M. Anjibabu	Buckling of axis symmetric shells	**Design**	PO1, PO2, PO4, PO6, PO8, PO9, PO10, PO11, PO12, PSO1
	14	15MH1A0308	Devara Siva				
	15	15MH1A0322	Illa Sivasankar				
	16	15MH1A0345	Medisetti Teja Surya				
	17	15MH1A0330	Kapaganti Narasimha murthy				
A4	**18**	15MH1A0307	Desina Vamsi Krishna	Mr. C Ram Mohan Rao	Fabrication of automatic sand ramming machine	**Design**	PO1, PO2, PO3, PO6, PO8, PO9, PO10, PO11, PO12, PSO2
	19	15MH1A0339	Kusireddi Eswara Durga Saran				
	20	15MH1A0346	Mohammad Ahamed Shaied Nisaruddin				
	21	15MH1A0331	Karri Neeladri				
	22	15MH1A0326	Jyothula Manikanta				
A5	**23**	16MH5A0302	Adugula Gowri	Mr. C Ram Mohan Rao	Fabrication of weld slag cleaning machine.	**Design**	PO1, PO2, PO3, PO6, PO8, PO9, PO10, PO11, PO12, PSO2
	24	16MH5A0308	Bheemireddi Durgaprasad				
	25	16MH5A0304	Badam Ayyappa				
	26	15MH1A0334	Kolli Nutan Prasad				
	27	15MH1A0347	Mummidi Siva Pratap				

A6	**28**	16MH5A0309	Chennuri Murali Mohan	Miss D Lakshmi Sravanthi	Solar Powered Refrigiractor	**Thermal**	PO1, PO2, PO4, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO2
	29	15MH1A0310	Doolam Veerababu				
	30	16MH5A0310	Donthamsetti Ramesh				
	31	15MH1A0328	Kalavakuntla Utthej				
	32	15MH1A0320	Garaga Swamy				
A7	**33**	15MH1A0311	Duvva Avinash	Mr. M Sarat Chandra Prasad	Automatic shoe polishing machine	**Design**	PO1, PO2, PO4, PO6, PO8, PO9, PO10, PO11, PO12, PSO2
	34	15MH1A0343	Matta Veera Venkata Chandra Sekhar				
	35	15MH1A0316	Gandrothu Pavan Kumar				
	36	15MH1A0327	K Madhu				
	37	15MH1A0321	Golla Raghavendra Sahi				
A8	**38**	15MH1A0306	Chokka Suresh	Mr. K Prudhvi Ravi Kumar	Experimentation of exhaust-based waste heat recovery in i. C. Engine by using thermos electric generators	**Thermal**	PO1, PO2, PO4, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1
	39	15MH1A0335	Kona Kamalakar				
	40	16MH5A0307	Betha Manikanta				
	41	15MH1A0315	Gandrotu Sai Durga Prasad				
	42	15MH1A0341	Manni Raghubabu				

Project allocation and corresponding mapped POs and PSOs for the Academic Year 2018-19: Sec – B

Batch No.	S. No.	Roll No.	Name of the Student	Name & Designation of the Guide	Project Title	Area of Specialization	Mapping with the stated the POs and PSOs
B1	1	15MH1A0390	Gollavilli Durga Prasad	Mr. M Surya Teja	Fabrication of foldable bicycle	**Design**	PO1, PO2, PO3, PO6, PO8, PO9, PO10, PO11, PO12, PSO2
	2	15MH1A0357	Posina Apparao				
	3	16MH5A0323	Kuppili Venkatasatya Santoshsai Anilkumar				
	4	15MH1A0362	Peruri Tony Babu				
	5	15MH1A0367	Vanapalli Manikanta Praveen				
B2	6	16MH5A0324	Manda Jagadeesh	Mr. T Uday Kiran	Manufacturing & Testing Of a polymer matrix Hybrid Composite	**Materials**	PO1, PO2, PO4, PO6, PO8, PO9, PO10, PO11, PO12, PSO1
	7	16MH5A0316	Gummudu Satish Kumar				
	8	15MH1A0352	Palli Satish				
	9	15MH1A0393	Gottipalli Sai Chaitanya				
	10	15MH1A0365	Valavasetti Manikanta				
B3	11	16MH5A0322	Kumpatla Sai Varaprasad	Mr. K Prudhvi Ravi Kumar	Design And Analysis of Shell And Helical Tube Heat Exchanger By Using Ansys	**Thermal**	PO1, PO2, PO3, PO5, PO6, PO8, PO9, PO10, PO11, PO12, PSO1
	12	16MH5A0326	Matsa Durgarao				
	13	16MH5A0320	Katheti Pradeep				

	14	15MH1A0355	Pokala Ajay				
	15	15MH1A0360	Seku Vijay				
B4	**16**	16MH5A0317	Kandikatla Srinivas	Mr. B Srikanth	Thermal analysis of heat sink on top of an electronic chip using ANSYS-FLUENT	**Thermal**	PO1, PO2, PO4, PO5, PO6, PO8, PO9, PO10, PO11, PO12, PSO1
	17	15MH1A0395	Gurrala Sathibabu				
	18	15MH1A0356	Ponnamanda Kireeti Sai Vardhan				
	19	15MH1A0350	Netinti Sarat Kumar				
	20	15MH1A0384	Chodisetti Sri Durga Veera Prasad				
B5	**21**	15MH1A0358	Puppala Lakshmi Surya varaprasad	Mr. P Hari Chandra Prasad	Desalination Plant Using a Solar Chimney with Aluminium Can Collectors	**Thermal**	PO1, PO2, PO3, PO5, PO6, PO8, PO9, PO10, PO11, PO12, PSO1
	22	16MH5A0327	Medapati Sandeep Kumar Reddy				
	23	15MH1A0381	Chaniboyina Umamaheswararao				
	24	15MH1A0359	S Laxman				
	25	15MH1A0354	Penuganti Sunil Teja				
B6	**26**	15MH1A0368	Tamalampudi Venkat Chaitanya Reddy	Miss Upasana Chaini	Fabrication of pneumatic sheet cutting machine	**Design**	PO1, PO2, PO3, PO6, PO8, PO9, PO10, PO11, PO12, PSO2
	27	16MH5A0318	Kandivalasa Satya Sai				
	28	15MH1A0353	Pasalapudi Nagesh				
	29	15MH1A0364	Vajepayayajula Vishnu Sai				

	30	15MH1A0363	Tummidi Siva Kumar				
B7	**31**	16MH5A0321	Konagalla Prabhu Satya Kumar	Mr. G Venkatapathy	Simultaneously Heating and Water-Cooling System by Using Domestic LPG Cylinder	**Thermal**	PO1, PO2, PO3, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO2
	32	15MH1A0366	Vanamadi Govardhana raju				
	33	15MH1A0351	Nunna Naga Chandra Sekhar				
	34	15MH1A0387	Gandiboina Muralikrishna				
	35	15MH1A0371	Aiynavilli Ramakrishna				
B8	**36**	16MH5A0325	Mandanakka Satish Chandra	Mr. P Krishna murthy	Effect Of Process Parameters on Mig Welding	**Manufacturing**	PO1, PO2, PO4, PO6, PO8, PO9, PO10, PO11, PO12, PSO1
	37	16MH5A0319	Karanam Bala Ganga Ramakrishna				
	38	15MH1A0378	Borra Venkata Sai Naveen				
	39	15MH1A0349	Neela Veerababu				
	40	15MH1A0369	Vengali Swamy Srinivas				

Project allocation and corresponding mapped POs and PSOs for the Academic year: 2018 – 2019 SEC – C

Batch No.	S. No.	Roll No.	Name of the Student	Name & Designation of the Guide	Project Title	Area of Specialization	Mapping with the stated the POs and PSOs
C1	1	15MH1A03D8	Omaka Iheke Agwu	Mr. P Satish	Design and Fabrication of RC Controlled Aircraft	Design	PO1, PO2, PO3, PO6, PO8, PO9, PO10, PO11, PO12, PSO2
	2	15MH1A03C7	Taddi Durgaprasad				
	3	15MH1A03D4	Vanimina Ashok				
	4	15MH1A0309	Solanki Jitendar Kumar				
	5	15MH1A0342	Mathias Emmanuel Igah				
	6	15MH1A03D7	Kalturi Jaya Krishna Reddy				
C2	7	16MH5A0329	Nedunuri Venkat	Mr. M Surya Teja	Versatile bicycle	Design	PO1, PO2, PO3, PO6, PO8, PO9, PO10, PO11, PO12, PSO2
	8	16MH5A0339	Uata Murali Rama Ganesh				
	9	16MH5A0345	Karri Manikanta				
	10	16MH5A0336	Kalidindi Viswanadha Varma				
	11	15MH1A03D2	Poliparthi Venkata Mohan Akhil				
C3	12	16MH5A0332	Nedunuri Venkat	Mr. T Uday Kiran	Extraction Of Fuel from Plastic Waste	Thermal	PO1, PO2, PO3, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1
	13	15MH1A03D3	Uata Murali Rama Ganesh				

	14	15MH1A03A2	Karri Manikanta				
	15	15MH1A0399	Kalidindi Viswanadha Varma				
	16	15MH1A03C0	Poliparthi Venkata Mohan Akhil				
C4	17	15MH1A03A9	Malladi Jagannadh	Mr. B Srikanth	Metal Sheet Rolling and Pipe Bending Machine	Manufacturing	PO1, PO2, PO3, PO6, PO8, PO9, PO10, PO11, PO12, PSO2
	18	15MH1A03B7	Peeta Sivarama Krishna				
	19	15MH1A03B8	Pemmadi Surendra				
	20	15MH1A03A3	Kasimeda Nagendra Kumar				
	21	15MH1A03B9	Penmetsa Siva Anil Varma				
C5	22	16MH5A0337	S N V S Sai Ganesh	Mr. P Hari Chandra Prasad	Automatic Seed Sowing Vehicle	Design	PO1, PO2, PO3, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO2
	23	15MH1A03B0	Mareddy Veerraju				
	24	15MH1A03B3	Nalla Venkatesh				
	25	15MH1A03A8	Madugula Avinash				
	26	15MH1A03D4	Palepu Nagababu				
C6	27	16MH5A0335	Pusala Anil	Miss Upasana Chaini	Power generation through speed breakers	Thermal	PO1, PO2, PO3, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO2
	28	15MH1A03C2	Potala Satish				
	29	15MH1A03D1	Thota Devendra Nath				

	30	15MH1A03C3	Sabbavarapu Durgasankar				
	31	15MH1A03B1	Marisetti Ram Venkatesh				
C7	32	16MH5A0328	Mummidi Srikrishna	Mr. G Venkatapathy	Fabrication of Gear Power Hacksaw	Manufacturing	PO1, PO2, PO3, PO6, PO8, PO9, PO10, PO11, PO12, PSO2
	33	15MH1A03A0	Kanikalla Sampath Kumar				
	34	15MH1A03C1	Ponnada Sai Vamsi Krishna				
	35	15MH1A03D6	Vipparthi Srinivasa Jayaram				
	36	14MH1A0317	Koppisetti Vinay Subrahmanyam				

Project allocation and corresponding mapped POs and PSOs for the Academic year: 2018 – 2019 – Participated in Various Competitions.

S. No.	Roll No.	Name of the Student	Name & Designation of the Guide	Project Title	Area of Specialization	Mapping with the stated the POs and PSOs
1	15MH1A03D5	M Vijay Kumar	Mr. PSVSSR Krishna	Design of electrical system for an all-terrain vehicle	Design	PO1, PO2, PO3, PO6, PO8, PO9, PO10, PO11, PO12, PSO2
2	15MH1A0389	G Sairam				
3	16MH5A0340	S Sai Prasad				
4	15MH1A0314	G Siva Kumar				
5	15MH1A0332	K Ganesh Koushick				

6	15MH1A03D0	T Gopi				
7	15MH1A0340	M B Ramesh Raja	Mr. PSVSSR Krishna	Design And Development of Braking System An All-Terrain Vehicle	Design	PO1, PO2, PO3, PO6, PO8, PO9, PO10, PO11, PO12, PSO2
8	15MH1A03A7	L Sai Surya				
9	15MH1A0319	G D Srinivasa Swamy				
10	15MH1A0338	K Krishna Kireeti				
11	15MH1A0312	E Hemanth				
12	15MH1A0305	B Bharat VNSS				
13	15MH1A0329	K Tharun Babu (Captain)	Mr. PSVSSR Krishna	Design And Development Of Suspension, Steering, Power Train System For An All-Terrain Vehicle	Design	PO1, PO2, PO3, PO6, PO8, PO9, PO10, PO11, PO12, PSO2
14	15MH1A0383	Ch Sravan Sudheer				
15	16MH5A0303	A Veerababu				
16	15MH1A0325	J Anil Kumar				
17	16MH5A0305	B Bhargav				
18	15MH1A0323	I Jyothi Brahmesh				
19	15MH1A03A5	Kosuri Sai Dhanraj	Mr. P Satish	Design And Transmission System of Go Kart Vehicle	Design	PO1, PO2, PO3, PO6, PO8, PO9, PO10, PO11, PO12, PSO2
20	15MH1A03A6	K. Rama Krishna Reddy				
21	16MH5A0311	D. N. S. Maniteja				

22	15MH1A03A1	K V Rajesh				
23	15MH1A0397	J Ravi Kumar				
24	15MH1A0396	J. Narasimha Rao				
25	15MH1A03B6	Pasagadi Vijay Prakash	Mr. P Satish	Steering And Braking System of Go Kart Vehicle	Design	PO1, PO2, PO3, PO6, PO8, PO9, PO10, PO11, PO12, PSO2
26	16MH5A0312	D. Avinash. V. N. D. Prasad				
27	15MH1A0309	D. Laxmana Rao				
28	16MH5A0330	Ram Prasad				
29	15MH1A0392	GNSP Bhaskar				
30	15MH1A0377	B Dharma Teja				
31	15MH1A03B2	M Haji Baba	Mr. R Srinivas	Design and Fabrication of Steering and Transmission of Hybrid Tricycle	Design	PO1, PO2, PO3, PO6, PO8, PO9, PO10, PO11, PO12, PSO2
32	15MH1A03B5	Panneru Siva				
33	15MH1A03C4	S Babi				
34	16MH5A0346	R Jithendra Sai				
35	16MH5A0306	B Venkata Ramana				
36	16MH5A0331	N V Bhadri Raju				
37	16MH5A0333	PKNKS Venkata Reddy				

38	16MH5A0334	P J Phaneendra Swamy	Mr. R Srinivas	Fabrication of suspension, Braking and Electrical System of Hybrid Tricycle	Design	PO1, PO2, PO3, PO6, PO8, PO9, PO10, PO11, PO12, PSO2
39	16MH5A0338	S Manideep				
40	16MH5A0341	S Rama Subrahmanyam				
41	16MH5A0342	T Suneel				
42	15MH1A03C8	V Pushpak				
43	15MH1A0317	GNVS Manikanta	Ms DL Sravanthi	Design And Analysis Of E-Bike	Design	PO1, PO2, PO3, PO6, PO8, PO9, PO10, PO11, PO12, PSO2
44	15MH1A0376	B Rajesh				
45	15MH1A0379	B Siva Kumar				
46	15MH1A0386	GVS Sairam				
47	15MH1A0394	G Rakesh				
48	15MH1A0398	KLS Sainath				

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C. Process to assess individual and team performance.

Each project guide is responsible to monitor the attendance of the project student during the course of project work each student must present a power point presentation about their role and their contribution in their project work during the project guide must ensure the students gain the insights of the objectives and meets requirements of the project, if anything beyond is essential it will be communicated to Head of the Department.

Objectives of the project work carried will be attained with the following:

- Day to day work done by the students.
- Partial/Full completion of the project.
- The students' presentation and demonstration
- Results and documentation.

After the completion of each project review, the comments/suggestion/evaluation results are informed to the students as feedback of their work done and to improve the same.

As per the academic calendar prescribed by the university; the final project review will be conducted. External examiner will be nominated by affiliated university. Internal Examiner, project guide and external examiner will conduct the final review.

D. Quality of completed projects/ working prototypes.

- Final project demo for the working prototype and the report are evaluated by a panel.
- Best Project was identified by the novel idea of the project which is evaluated by the expert.
- The projects are evaluated and are awarded internal assessment marks for maximum 60 and external assessment for maximum of 140 marks.
- Projects are graded according to the project contribution towards attainment of PO's and PSO's.

Best projects are identified and depicted below:

Best Project Evolution:

A few projects will be adjudged as the best/ good projects by the Project Review Committee in consultation with external examiner based on their:

- Considering Innovative Ideas
- Project goals
- Implementation and Functional specification.
- Design and Testing of Results
- Analytical results and documentation.
- Projects mapping more POs and PSOs

Best Projects List:

A.Y: 2021 – 2022

S. No.	Roll. No.	Name of the Student	Guide Name	Project Title
1	19MH5A0302	Akula Gova Raju	Dr. D V S S S V Prasad Mr. K. Venuvardhan	Fabrication of 3 D Printer
	19MH5A0304	Koppisetti Ramu		
	18MH1A0315	Yendru Govinda Raju		
	19MH5A0316	Gudiseva Sri Vikas		
	18MH1A0311	Narina Veera Naga Siva Sai		
2	19MH5A0318	Gummella Teerumala Veerababu	Dr. N Bhanu Teja Mr. N. Vijaya	Navigation And Multi-Tasking Robot
	19MH5A0307	Bonepalli Rupendra		
	19MH5A0308	Chodipalli Narendra		
	18MH1A0301	Bhallam Sai Suraj Varma		
3	19MH5A0335	Kotipalli Veereshkumar	Dr. Y K S Subba Rao	Fertilizer Spraying Robot
	19MH5A0349	Padala Veera Surya Kanaka Durga Reddy		
	19MH5A0361	Thalatam Satyanarayana		
	19MH5A0340	Medisetti Devi Vinay		

A.Y: 2020 – 2021

S. No	Roll. No	Name of the Student	Guide Name	Project title
1	18MH5A0310	Gudla Suresh (L)	Dr. Y.K.S. SUBBA RAO	Impact Of Tamanu Bio-Diesel Blends on Combustion Performance and Emissions of VCR Engine
	18MH5A0320	Kommoji Manoj Kumar		
	17MH1A0317	Yeripalli Anvesh		
	17MH1A0311	Sidagam Naga Anil		
2	18MH5A0306	Chittem Nagendra Babu (L)	Mr. M. Sarat chandra Prasad	Kinect Wifi Robot Arm
	18MH5A0314	Jilagam Hema Suresh		
	17MH1A0303	Kotha Sai Rajesh		
	18MH5A0307	Gaddala Dinakar (L)		
3	17MH1A0316	Vemula Naga Bhushanam		
	17MH1A0304	Natte Govindaraju		
	17MH1A0307	Pasupuleti Ramesh		

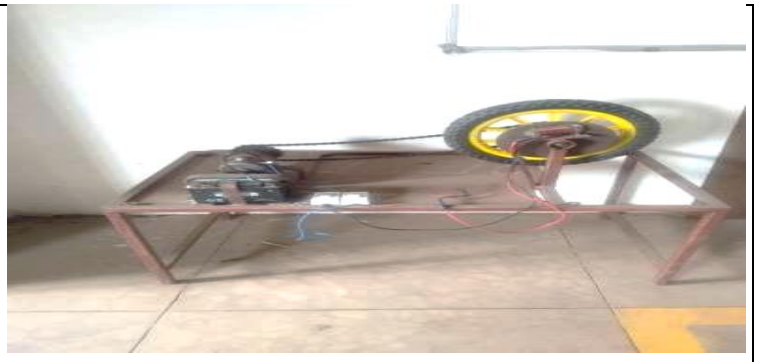
	18MH5A0308	Gollavilli V V Satya Sai Ravi Teja (L)		
4	18MH5A0317	Khandavilli Sai Datta		
	18MH5A0316	Ketha Venkata Narasimha Rao		
	17MH1A0315	Thota Rohith		
	17MH1A0309	Chittem Nagendra Babu (L)		

A.Y: 2019 – 2020

S. No	Roll. No	Name of the Student	Guide Name	Project title
1	17MH5A0334	Singareddy Naga Raju	DR. Y.K.S. Subba Rao	Design And Fabrication of Plastic Shreder Machine
	16MH1A0313	Mettapalli V S S Phan Eendra Gupta		
	17MH5A0301	Adapa Bhaskara Satya Naga Sai		
	17MH5A0348	Mannem Venkateswara Rao		
	17MH1A0308	Chokka Siva Nagendra Prasad		
2	17MH5A0315	Sanapala Koteswara Rao	Dr. D V S S S V Prasad	Design And Fabrication of Four-seater Battery Vehicle
	17MH5A0323	Mentu Pavan Kumar		
	17MH5A0302	Amujuri Saivenkat		
	17MH5A0340	Mungandla Navya Nandan		
	17MH5A0326	Narla Sridhar		

Projects Models Designed by our students:

S. No	Title of the Project	Project Model
1	Design and fabrication of four-seater battery vehicle	

2	Design and fabrication of Electromagnetic Braking System	
3.	Fabrication of motorized four way power hacksaw	
4	Design and fabrication of PlasticShredder Machine	
5	Semi-Automatic Hammering and Punching Machine	
6	Kinetic Wi-Fi Robotarm	

7.	Design and fabrication of steeringand Transmission of hybrid Tricycle	
8	Fabrication of suspension, Brakingand Electrical System of hybrid Tricycle	
9	Design and electricalsystem for an All-Terrain vehicle	
10	Design and development of Braking system of an All- Terrain vehicle	
11	Design and development of suspension, steering, power train systemfor an All-Terrain vehicle	

2.2.4 Initiative related to industry interaction (15)

With the advent of globalization and opening up of Indian economy to outside world, competition among industries has become stiff. To solve their engineering problems, they look is to engineering institutions. Similarly, there is an urgent in prepare engineering students for jobs in multinational companies wing them to upcoming technologies and engineering methodologies.

These objectives can only he achieved well by bridging the gap between industry and the academic institutions. Better interaction between technical initiations and industry is the need of the hour. This will have great bearing on the engineering curriculum, exposure of engineering students to industrial am subsequent placement of young graduating engineers in industries across the country. The labs established at Aditya College of Engineering are detailed below.

List of Skill Development lab

Skill Development serves the task of providing skilled manpower as part of Government of Andhra Pradesh skill mission. AP government identified 100 institutes among276 colleges across the state as their knowledge partners. APSS) established a Lab at Aditya College of Engineering to provide internships and training to students in the college. This will help in improving students' technical competency, soft skills and thus employability quote.

S. No	Name of the sponsoring company	Name of lab
1	Andhra Pradesh State Skill Development Corporation (APSSDC)	Welding Lab
2	Andhra Pradesh State Skill Development Corporation (APSSDC)	Automobile 4-Wheeler Lab
3	Andhra Pradesh State Skill Development Corporation (APSSDC)	Automobile 2-Wheeler Lab
4	Andhra Pradesh State Skill Development Corporation (APSSDC)	Refrigeration & Air Conditioning Lab
5	Andhra Pradesh State Skill Development Corporation (APSSDC)	CNC Machines Lab
6	Andhra Pradesh State Skill Development Corporation (APSSDC)	Applied Robot control Lab

A number of initiatives aiming at promoting interaction between the department and industry are taken. With this the students will have exposure to the industrial environment and get geared up for placement in industries.

Enable the students to observe the application of the various concepts in real time practice.

To promote industry-institute interaction and lectures by experts from industry**.**

The following MOUs were signed between the mechanical department of the institute and industry to emphasize on

- Internships.
- Industry related real time projects for students.

S. No	Name of the Company	Date of MOU	Validity	Purpose of MOU	% of students benefitted
1	Center of Excellence in maritime and shipbuilding	2/28/2020	3 years	Industrial visits, mini projects, and training for students	100%
2	Andhra Pradesh Innovation Society	12/2/2019	2 years	Promoting startup	95%
3	NOVAL PATENT SERVICE	10/3/2019	5 Year	Promoting IPR cell, To develop research skills	100%
4	APSSDC-Skill Development Centre (SDC)	2/7/2019	Life time	Skill developing training program	100%
5	PEARSON VUE	1/21/2019	5 years	Authorized Exam center	100%
6	TIME	12/26/2018	3years	Training for technical skills regarding competitive exams	100%

7	LEADERSHIP FOUNDATION	8/10/2018	3 years	Smart village revolution, creating jobs for students	100%
8	DELL EMC Academic Alliance Partner	9/26/2017	Life Time	Faculty Readiness, self-paced, e-learning training	100%
9	Siemens Center of Excellence- Technical Skill Development Institute (TSDI)	12/18/2016	Life Time	Develop the skills among the students	100%
10	International Technological University (ITU)	3/28/2016	5 Years	Cooperation in the fields of Student, Faculty and Staff Scholarship Exchange	100%
11	Massive Open Online Courses (MOOCs) JNTUK	8/18/2015	Life Time	Online Classes by Industry Experts	100%
12	APSSDC-Skill Development Centre (SDC)	1/28/2015	Life Time	Providing industry grade skills to students	100%
13	Global Business Incubator (GBI)	6/2/2014	Life Time	Development of a joint platform towards innovation and entrepreneurship	100%

Invited lectures, workshops by industrial experts:

A.Y: 2021-2022

S. No.	Interaction Type (workshop/seminar/ Guest talks)	Designation/organization	Date	Relevance to POs
1	Guest Lecture on Modelling of simple truss and beam problems using ANSYS to find the solution for displacements and stresses.	Mr. Shiva Rama Krishna AGM Production M & M, Tambaram, Chennai	14-12-21	PO1, PO2, PO3, PO5, PSO1, PSO2
2	Guest Lecture on “Transmission Angle and Toggle Positions of Single Slider Mechanism”	Mr Veeresh Prasad Tiruvuri Head-India Services Process Automation Schneider Electric	8-01-22	PO1, PO2, PO3, PSO1, PSO2

A.Y: 2020-2021

S. No	Interaction Type (workshop/seminar/Guest talks)	Resource Person with Designation	Date	Relevance to POs
1	A two days' workshop on "Programming (Ladder) for logical control"	Mr. Veeresh Prasad Tiruvuri Head -India Services: Process automation, Schneider electric	18.01.2021 to 19.01.2021	PO1, PO5, PO7, PO12, PSO2
2	Guest Lecture on "Thermal Power Plant operations"	Mr. A. Sainath, Senior Manager, RKM Power Gen. Ltd. Chattisgarh	19.01.2021	PO1, PO6, PO7, PO8, PO12

A.Y:2019-2020

S. No	Interaction Type (workshop/seminar/Guest talks)	Resource Person with Designation	Date	Relevance to POs
1	Guest Lecture delivered on Industrial automation & Turbo machinery	Mr. Veeresh Prasad Tiruvuri, Head -India Services: Process automation, Schneider electric systems India Pvt. Ltd.	19.08.2019	PO2, PO5, PO6, PO10, PO12,
2	Guest Lecture delivered on "Latest improvements in power industry"	Mr. Viswanath Kiran Executive engineer NPTC	03.10.2019	PO3, PO5, PO12

Impact Analysis of Industry Institute interaction:

- Exposed to industrial environment.
- The visit to industry helps the student to improve the practical knowledge of the processes and systems.
- Industry expert interaction helps them to understand the need of applying contextual knowledge to assess societal, health and safety issues.
- Students gain real time exposure and hands-on experience.
- Get ideas to for their major project from the industrial training.
- Awareness on recent tools used in industry help them to learn and grab opportunities in various MNC companies.
- Possibility for transition into employment.
- Team work, communication skills, soft skills are improved.

2.2.5 Initiative related to industry internship/summer training (15)

The institute encourage the students to undergo training/internship during the semester gap to get practical exposure and get awareness about the industry environment.

The following students have undergone the Industrial In-plant Training i.e., Internship at various industries and organizations.

Academic Year: 2021-22

S. No	Company Name	No. of students participated	Duration of program	Relevance to POs
1	Chettinad Cement Pvt. Ltd.	18	14-02-22 to 26-02-22	PO1, PO3, PO4, PO7, PSO1
2	K.C.P Sugar and Industries Corporation Limited	17	14-02-22 to 24-02-22	PO1, PO2, PO3, PO6, PO11, PO12, PSO1, PSO2
3	Crescent Foundry Company Pvt Ltd	20	15-02-22 to 25-02-22	PO1, PO2, PO5, PO6, PO11, PO12, PSO1

S. No	Roll. No	Name of the Student	Name of Organization	No. of days	Duration of the Program
1	19MH1A0301	Agoor Monylobi Deng Dhong	Chettinad Cement Pvt. Ltd.	18	14-02-22 to 26-02-22
2	19MH1A0302	Kakula Chethan Harsha Vardhan	Chettinad Cement Pvt. Ltd.		
3	19MH1A0303	Lalam Siva Prasad	Chettinad Cement Pvt. Ltd.		
4	19MH1A0304	Md Abdullah Al Mamun	Chettinad Cement Pvt. Ltd.		
5	19MH1A0305	Monywal Elijah Kuch Abel	Chettinad Cement Pvt. Ltd.		
6	19MH1A0306	Moyilla Venkata Sai Kumar	Chettinad Cement Pvt. Ltd.		
7	20MH5A0301	Aftab A Alam	Chettinad Cement Pvt. Ltd.		
8	20MH5A0302	Akula Srinivas	Chettinad Cement Pvt. Ltd.		
9	20MH5A0303	Ande Veera Kumar	Chettinad Cement Pvt. Ltd.		
10	20MH5A0304	Balla Prem Ganapathi	Chettinad Cement Pvt. Ltd.		
11	20MH5A0305	Barre Deepak Varma	Chettinad Cement Pvt. Ltd.		

12	20MH5A0306	Bochula Phani Bhushan	Chettinad Cement Pvt. Ltd.		
13	20MH5A0307	Bosetti Satya Sai Ram	Chettinad Cement Pvt. Ltd.		
14	20MH5A0308	Chintala Manoj Ram	Chettinad Cement Pvt. Ltd.		
15	20MH5A0309	Choudalla Teja Madhu Krishna sudheer	Chettinad Cement Pvt. Ltd.		
16	20MH5A0310	Dasari Chandra Shekhar	Chettinad Cement Pvt. Ltd.		
17	20MH5A0311	Desilinka Krishna rjuna prasad	Chettinad Cement Pvt. Ltd.		
18	20MH5A0312	Done Sri Datta Sai Gangadhar	Chettinad Cement Pvt. Ltd.		
1	20MH5A0313	Gandikota Nani Lova Vara Prasad	K.C.P Sugar and Industries Corporation Limited	17	14-02-22 to 24-02-22
2	20MH5A0314	Gandipadala Vijaya Mouli	K.C.P Sugar and Industries Corporation Limited		
3	20MH5A0315	Ganji Singa Sai Ram	K.C.P Sugar and Industries Corporation Limited		
4	20MH5A0316	Geddam Nagendra	K.C.P Sugar and Industries Corporation Limited		
5	20MH5A0317	Gopi Harshavardhan	K.C.P Sugar and Industries Corporation Limited		
6	20MH5A0318	Gorlu Sudheer	K.C.P Sugar and Industries Corporation Limited		
7	20MH5A0319	Gubbala Sai Suresh	K.C.P Sugar and Industries Corporation Limited		
8	20MH5A0320	Jilakarra Ravi Kumar	K.C.P Sugar and Industries Corporation Limited		
9	20MH5A0321	Kalaga Uday Harshit	K.C.P Sugar and Industries Corporation Limited		
10	20MH5A0322	Kamidi Keerthi Venkata Durga Prasad	K.C.P Sugar and Industries Corporation Limited		
11	20MH5A0323	Karri Venkata Siva Durga	K.C.P Sugar and Industries Corporation Limited		
12	20MH5A0324	Koduri Surya Naga Durga Vara Prasad	K.C.P Sugar and Industries Corporation Limited		
13	20MH5A0325	Koka Krishna Kireetudu	K.C.P Sugar and Industries Corporation Limited		
14	20MH5A0326	Kommuru Sivaji	K.C.P Sugar and Industries Corporation Limited		
15	20MH5A0327	Koppisetti Chandu Sai Venkata Ganesh	K.C.P Sugar and Industries Corporation Limited		
16	20MH5A0328	Koppisetti Likhith Venkat Vinay	K.C.P Sugar and Industries Corporation Limited		

17	20MH5A0329	Tummuri Leela Satish	K.C.P Sugar and Industries Corporation Limited		
1	20MH5A0330	Kottana Yasoda Krishna	Crescent Foundry Company Pvt Ltd	20	15-02-22 to 25-02-22
2	20MH5A0331	Moyila Balakrishna	Crescent Foundry Company Pvt Ltd		
3	20MH5A0332	Narala Prasanth	Crescent Foundry Company Pvt Ltd		
4	20MH5A0333	Pappu Ravishankar	Crescent Foundry Company Pvt Ltd		
5	20MH5A0334	Patteti Balu	Crescent Foundry Company Pvt Ltd		
6	20MH5A0335	Vallabhani J V D L Vinayak	Crescent Foundry Company Pvt Ltd		
7	20MH5A0336	Peddireddy Hari Prasad Reddy	Crescent Foundry Company Pvt Ltd		
8	20MH5A0337	Perla Vikram	Crescent Foundry Company Pvt Ltd		
9	20MH5A0338	Pokala Y R V Bhadra Rama Ambikakumar	Crescent Foundry Company Pvt Ltd		
10	20MH5A0339	Polavarapu Balaganga Parvathi Eswarrao	Crescent Foundry Company Pvt Ltd		
11	20MH5A0340	Ponnada Chaitanya	Crescent Foundry Company Pvt Ltd		
12	20MH5A0341	Rambothu Sai Aravind	Crescent Foundry Company Pvt Ltd		
13	20MH5A0342	Routhu Manikanta	Crescent Foundry Company Pvt Ltd		
14	20MH5A0343	Seelam Yesuraju	Crescent Foundry Company Pvt Ltd		
15	20MH5A0344	Sesetti Srinuvasu	Crescent Foundry Company Pvt Ltd		
16	20MH5A0345	Siripalli Ramakrishna	Crescent Foundry Company Pvt Ltd		
17	20MH5A0346	Tanari Sridhar	Crescent Foundry Company Pvt Ltd		
18	20MH5A0347	Teki Veera Venkata Thammanna Dora	Crescent Foundry Company Pvt Ltd		
19	20MH5A0348	Telagamsetty Jyothi Siva Aditya	Crescent Foundry Company Pvt Ltd		
20	18MH1A0307	Konagala Teja	Crescent Foundry Company Pvt Ltd		

Academic Year 2020-21:

S. No	Company Name	No. of students participated	Duration of program	Outcomes
1	Chettinad Cement Pvt. Ltd.	10	05-04-2021 to 16-04-2021	PO1, PO3, PO4, PO7, PSO1
2	K.C.P Sugar and Industries Corporation Limited	8	06-04-2021 to 16-04-2021	PO1, PO2, PO3, PO6, PO11, PO12, PSO1, PSO2,

S. No	Roll. No	Name of the Student	Name of Organization	No. of days	Duration of the Program
1	18MH1A0309	L. Siva Raju	Chettinad Cement Pvt.	11	05-04-2021 to 16-04-2021
2	18MH1A0310	Y. Mahendra Kumar	Chettinad Cement Pvt.		
3	18MH1A0314	Y. S. V. Durga Sai	Chettinad Cement Pvt.		
4	18MH1A0315	Y. Govinda Raju	Chettinad Cement Pvt.		
5	19MH5A0320	Ch. Hari Krishna	Chettinad Cement Pvt.		
6	19MH5A0322	K. Sudarshsan Reddy	Chettinad Cement Pvt.		
7	19MH5A0323	Sai Karthik	Chettinad Cement Pvt.		
8	19MH5A0324	K. Abhi Ram	Chettinad Cement Pvt.		
9	19MH5A0327	K. Manikanta	Chettinad Cement Pvt.		
10	19MH5A0344	N Sandeep Kumar	Chettinad Cement Pvt.		
1	19MH5A0345	N. V. V. Lova Raju	K.C.P Sugar and Industries Corporation Limited	12	04-04-2021 to 16-04-2021
2	19MH5A0346	N. Mohana Rao	K.C.P Sugar and Industries Corporation Limited		
3	19MH5A0349	P V S K Durga Reddy	K.C.P Sugar and Industries Corporation Limited		
4	19MH5A0362	T Karthik Mohan	K.C.P Sugar and Industries Corporation Limited		

5	19MH5A0363	T Surya Chakravarthi	K.C.P Sugar and Industries Corporation Limited		
6	19MH5A0364	T Siva Nagu	K.C.P Sugar and Industries Corporation Limited		
7	19MH5A0365	U Sai Chakra Anjana Sai	K.C.P Sugar and Industries Corporation Limited		
8	19MH5A0366	U Surendra	K.C.P Sugar and Industries Corporation Limited		

Academic Year 2019-20:

S. No	Company Name	No. of students participated	Duration of program	Outcomes
1	Chettinad Cement Pvt. Ltd.	23	04-11-2019 to 18-11-2019	PO1, PO2, PO3, PO11, PO12, PO12 PSO1, PS02
2	K.C.P Sugar and Industries Corporation Limited	22	04-11-2019 to 18-11-2019	PO1, PO2, PO6, PO7, PO9, PO11, PO12, PSO1, PSO2,
3	Bangalore Metro Rail Corporation Ltd.	22	04-11-2019 to 18-11-2019	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PO11, PSO1, PSO2
4	Mechrise Metrology Pvt Ltd	24	04-11-2019 to 18-11-2019	PO1, PO2, PO5, PO6, PO11, PO12, PSO1

S. No	Roll. No	Name of the student	Name of Organization	No. of days	Duration of the Program
1	19MH5A0321	Ijjina Krishnaveni	Crescent Foundry Company Pvt Ltd	14	04-11-2019 to 18-11-2019
2	19MH5A0322	Kaduluri Sudarshan Reddy			
3	19MH5A0323	Kaligotla sai karthik			
4	19MH5A0324	Kandregula Abhiram			
5	19MH5A0325	Kandula Lakshmi Sudhakar			
6	19MH5A0326	Katari venkata Akhil Mahesh			
7	19MH5A0327	Ketha Manikanta			

8	19MH5A0328	Ketha Varunesh	Crescent Foundry Company Pvt Ltd	14	04-11-2019 to 18-11-2019
9	18MH5A0312	Inumarthi Satya Veera Lokesh			
10	18MH5A0313	Jettiboina Balaji			
11	18MH5A0314	Jilagam hema suresh			
12	18MH5A0315	Kala bala murali			
13	18MH5A0316	Ketha Venkata Narasimha Rao			
14	18MH5A0317	Khandavilli sai datta			
15	18MH5A0318	Kola harish			
16	17MH5A0334	Singareddy nagaraju			
17	17MH5A0335	Vanka revanth Chandra Kiran			
18	17MH5A0336	Varrabathula Ajay raja			
19	17MH5A0337	Akula kasi Viswanath			
20	17MH5A0338	Dasari ayyappa			
21	17MH5A0339	Dungala Vinay kumar			
22	17MH5A0340	Mungandla navya nandan			
23	17MH5A0341	Pechetti venkata kumar			
1	17MH1A0308	Penugula sundar jaya Prakash	K.C.P Sugar and Industries Corporation Limited	14	04-11-2019 to 18-11-2019
2	17MH1A0309	Rekadi john prasad			
3	17MH1A0310	Setti karthik naidu			
4	17MH1A0311	Sidagam naga anil			
5	17MH1A0312	Sunkara sree rama chandra murthy			
6	17MH1A0313	Syed kaleemullasha			
7	17MH1A0314	Syed salman ahamed			
8	19MH5A0301	Adabala Ramachakra			

9	19MH5A0302	Akula Gova raju	K.C.P Sugar and Industries Corporation Limited	14	04-11-2019 to 18-11-2019
10	19MH5A0303	Anusuri Vijay			
11	19MH5A0304	Koppisetti Ramu			
12	19MH5A0305	Bavisetti Sivarama krishna			
13	19MH5A0306	Bhargav Duddupudi			
14	19MH5A0307	Bonepalli Rupendra			
15	16MH1A0318	Punyamantula Rama Krishna			
16	16MH1A0319	Ruppa Rama Raju			
17	16MH1A0320	Sallangi Manikanta			
18	16MH1A0323	Thatikonda Sai Kumar			
19	16MH1A0322	Shiv Kumar			
20	17MH5A0301	Adapa Bhaskara Satya Naga Sai			
21	17MH5A0302	Amujuri Sai Venkat			
22	17MH5A0303	Bommotula Subrahmanyam			
1	18MH5A0349	Voleti Satya Teja	Bangalore Metro Rail Corporation Ltd.	14	04-11-2019 to 18-11-2019
2	18MH5A0350	Yadapalli Sai Charan			
3	18MH5A0351	Yenninti Saikumar			
4	18MH5A0352	Bankuru Jayasankar			
5	18MH5A0353	Mylapilli Rajesh			
6	18MH5A0354	Dantuluri Charan Sai Vishwanatha Varma			
7	18MH5A0360	Bhuvanasi Ravi Durga Krishna Prasad			
8	19MH5A0359	Singuluri Ravi Kiran			
9	19MH5A0360	Swamireddy Sri Teerdha Ganga Sita Ram			

10	19MH5A0361	Thalatam Satyanarayana	Bangalore Metro Rail Corporation Ltd	14	04-11-2019 to 18-11-2019
11	19MH5A0362	Thota Karthik Mohan			
12	19MH5A0363	Thota Surya Chakravarthi			
13	19MH5A0364	Torati Siva Nagu			
14	19MH5A0365	Undamatla Sri Chakra Anjana Sai			
15	17MH5A0384	Gadi Lova Saikumar			
16	17MH5A0385	Somina Naga Sri Sai Aditya			
17	17MH5A0386	Thota Venkata Suri			
18	17MH5A0387	Udata Pavan			
19	17MH5A0388	Vetsa Surya Teja			
20	17MH5A0389	Uppu Kalyan			
21	17MH5A0390	Vundamatla Sita Rama Swamy			
22	17MH5A0391	Anusuri Veera Venkata Vijay Kumar			
1	19MH5A0308	Chodipalli Narendra	MECHRISE	14	04-11-2019 to 18-11-2019
2	19MH5A0309	Chukka Charan Satya Sai Teja Reddy			
3	19MH5A0310	Doodi Sai Ganesh			
4	19MH5A0315	Goru Yadgireesh			
5	19MH5A0316	Vadranam Ganesh Koteswara Rao			
6	19MH5A0318	Vattikuti Pavan Venkata Satya Sri Charan			
7	19MH5A0329	Kodamanchili Venu			
8	19MH5A0330	Konda Sandhya Rani			
9	18MH5A0324	Malladi Jaya Surya			
10	18MH5A0325	Manepalli Hema Veera Manikanta			
11	18MH5A0326	Masavarapu Murali Krishna			

12	18MH5A0327	Medapureddi Srinu	MECHRISE	14	04-11-2019 to 18-11-2019
13	18MH5A0328	Medisetti Devi Prasad Raju			
14	18MH5A0329	Mohmad Sadhik			
15	18MH5A0330	Mutyala Sai Manoj			
16	18MH5A0331	Nalla Simhadri Dora			
17	17MH5A0351	Chukka Varun Kumar			
18	17MH5A0352	Allaka Harish Kumar			
19	17MH5A0353	Anamalamuri Kalesha			
20	17MH5A0354	Esarapu Vinod Kumar Yadav			
21	17MH5A0355	Kasi Narendra			
22	17MH5A0356	Ganneda Sri Jaya Sai Nadha			
23	17MH5A0357	lla Siva Sankar			
24	17MH5A0358	Irusumalla Ravi Teja			

Academic Year 2018-19:

S. No	Company Name	No. of students participated	Duration of program	Outcomes
1	Bangalore Metro Rail Corporation. Ltd.	10	03-06-2019 to 15-06-2019	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9, PO11, PO11, PO12, PSO1, PS02

S. No	Roll. No	Name of the student	Name of Organization	No. of days	Duration of the Program
1	17MH5A0303	Bommotula Subrahmanyam	Bangalore Metro Rail Corporation. Ltd	12	03-06-2019 to 15-06-2019
2	17MH5A0305	Burela Adish Raghu Kumar			
3	17MH5A0310	Doodi Satish			
4	17MH5A0311	Duryodhana Rajesh			

5	17MH5A0312	Ellingi Ganesh Kumar Varma	Bangalore Metro Rail Corporation. Ltd	12	03-06-2019 to 15-06-2019
6	17MH5A0315	Sanapala Koteswara Rao			
7	17MH5A0321	Kosireddi Srinivas			
8	17MH5A0322	Manam Krishnarjun Teja			
9	17MH5A0323	Matsa Sai raju			
10	17MH5A0324	Mentu pavan Kumar			

Post Training Assessment

Once the student joined as intern, the faculty coordinator will monitor their progress of their work or activities in the organization through email phone at frequent interval of times. After successful completion of their internship student will repo to the coordinator in the institution and submit a clear report of their work carried out during the summer training/ internship. They need to present their gained knowledge and exposure with all the peers in the presence of coordinator in the department.

Impact Analysis of industrial training:

- Students gain real time exposure and hands-on experience.
- Ideas will be generated for their major project from the industrial training.
- Students are motivated towards research-based knowledge by improving their degree through higher studies.
- Improvement in communication skills.
- Have an edge in the Job Market.
- Exposed to industrial environment. Possibility for transition into employment.
- The visit to industry helps the student to improve the practical knowledge of the processes and systems.
- Industry expert interaction helps them to understand the need of applying contextual knowledge to assess societal health and safety issues.
- Team work, communication skills, soft skills are improved
- Product based projects are implemented by the students
- Awareness on recent tools used in industry help them to learn and grab opportunities in various MNC companies

Student feedback on initiative:

The feedback from the students who have visited the industries for internship training is collected and analysed for further improvement in conducting such activities. The feedback collected helps the department to take necessary measures improve and increase such activities that benefits the successive student batches. The feedback is collected from the students after successful completion of the training.

Industrial Visits:

Industrial visit is a self-interest and important in a career for engineering students, it is a part of our institute schedule, mostly seen in professional degrees courses. The main purpose of industrial via to understand the internal working ethics for the students practically. At department level we had figured out that the theoretical concept is not sufficient for a professional career, thus industrial visits training is more important for practical knowledge to the students. This industrial visit training provides an opportunity to gain the concepts practically via interaction, working process. The details of various industries visited by our students are discussed below.

Academic Year 2021-2022:

S. No	Targeted Students	Purpose of visit	Duration/Dates	Place of visit
1	III B. Tech ME	To enhance practical knowledge about different manufacturing processes and boiler operations	14-12-21	RINL Visakhapatnam
2	IV B. Tech ME	To enhance the technical knowledge about the working of turbines	17-12-21	LSHE Mothugudem

Academic Year 2019-2020:

S. No	Targeted Students	Purpose of visit	Duration/Dates	Place of visit
1	III B. Tech ME	To enhance practical knowledge about different manufacturing processes and boiler operations	08-11-2019 to 09-11 2019	RINL Visakhapatnam
2	IV Blech ME	To create awareness about the space research	08-11-2019 to 0 9-11 2019	Satish Dhawan Space Centre Srihari Kota

Academic Year 2018-2019:

S. No	Targeted Students	Purpose of visit	Duration/Dates	Place of visit
1	III B. Tech ME	To enhance the technical knowledge about the working of turbines	09-11 2018	LSHE Mothugudem
2	IV Blech ME	To enhance the practical knowledge about the working of hydro thermal power plant	09-11-2018 to 10-11 2018	Satish Dhawan Space Centre Srihari Kota

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CRITERION 3	Course Outcomes and Program Outcomes	120

3.1 Establish the correlation between the courses and the Program Outcomes (POs) and Program Specific Outcomes (PSOs) **(20)**

PSO1: Apply the analytical skills of Mathematics, Basic Sciences and Mechanical Engineering streams to formulate, analyse and provide solution to complex engineering problems.

PSO2: Design system components & process of manufacturing, Thermal Engineering, Machine Elements and inter-disciplinary fields by applying appropriate techniques to meet the needs of industry and society.

3.1.1 Course Outcomes (COs) (SAR should include course outcomes of one course from each semester of study, however, should be prepared for all courses and made available as evidence, if asked)**.**

(5)

Note: Number of Outcomes for a Course is expected to be around 6.

Course Code	C215	Course Year:	2020-2021

Course Code	Statements
C215.1	Explain basic concepts, properties of substances and Laws of thermodynamics.
C215.2	Apply the first law of thermodynamics to the thermodynamic components.
C215.3	Evaluate the Kelvin-Planck statement and Clausius Statement with their Equivalence.
C215.4	Justify the Clausius Inequality and Principle of Entropy of second law of thermodynamics.
C215.5	Plot the P-V, T-S and H-S diagrams for pure substances.
C215.6	Illustrate the ideal gas equation, Dalton's Law and Avogadro's Law.

Course Name:	C222	Course Year:	2020-2021

Course Name	Statements
C222.1	Describe different mechanisms and their constraints.
C222.2	Discuss about planar mechanisms and spatial mechanism.
C222.3	Sketch velocity and acceleration diagrams of different parts in a given mechanism by using Graphical and as well as analytical techniques
C222.4	Demonstrate generating Cam profiles
C222.5	Analyze the concepts of gears
C222.6	Illustrate modes of Power transmissions: gear trains and concepts of belt drives

Course Name:	C312	Course Year:	2020-2021

Course Name	Statements
C312.1	Explain the fundamentals of machining and develop the merchant circle diagram and show the forces and their relations.
C312.2	Illustrate the working principles of various operations performed in a lathe machine.
C312.3	Select a machining operation and corresponding machine tool for a specific application in real-time.
C312.4	Discuss the applications of milling machines with milling cutters.
C312.5	Identify the need and purpose of grinding wheel specification.
C312.6	Identify basic parts and operations of machine tools including lathe, shaper, planer, drilling, boring, milling, and grinding machine.

Course Name:	C324	Course Year:	2020-2021

Course Name	Statements
C324.1	Explain the basic heat transfer fundamentals and their practical relevance in Planes, cylinders and spherical components.
C324.2	Analyze steady and unsteady state heat transfer concepts.
C324.3	Apply fundamental concepts and principals in convective heat transfer and formulate the relationship among the parameters in flow of fluids using Buckingham Pi theorem.
C324.4	Determine heat transfer coefficient and heat transfer rate in free and forced convection heat transfer related to Plates, cylinders, pipes and ducts.
C324.5	Evaluate the performance of heat exchangers and explain the phenomenon of boiling and condensation heat transfer.
C324.6	Discuss the concepts of radiation heat transfer

Course Name:	C415	Course Year:	2020-2021

Course Name	Statements
C415.1	Discuss the classification, fundamentals of RP processes and liquid-based RP systems
C415.2	Explain the process principles, models of solid-based RP systems
C415.3	Explain the process principles, models of powder-based RP systems
C415.4	Describe the principles and process of rapid tooling

C415.5	Demonstrate the formats and software used in RP systems
C415.6	Summarize the principles of additive manufacturing adopted in industry and real-life applications

Course Name:	C423	Course Year:	2020-2021

Course Name	Statements
C423.1	Explain the Engine Specifications, Power transmission and lubrication systems of four-wheeler automobile.
C423.2	Differentiate the functions of clutches, gear boxes and Suspension systems used in four-wheelers.
C423.3	Compute the steering geometry, steering linkages, steering gears and braking systems.
C423.4	Explain the Charging circuit, lightning and starting systems
C423.5	Demonstrate the safety systems and engine maintenance of four-wheeler.
C423.6	Evaluate the Engine Emissions Concentration measurement and exhaust gas treatment of automobile vehicles.

3.1.2.a CO-PO matrices of courses selected in 3.1.1 (Six matrices to be mentioned; one per semester from 3rd to 8th semester) (5)

1.Course Name: C215

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C215.1	3	2										2
C215.2	3	2	2									
C215.3	3	3	2	1								
C215.4	2	3	1	2								
C215.5	2	3	1									1
C215.6	3	2	1									
AVG	2.67	2.50	1.40	1.50								1.50

2. Course name: C222

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C222.1	3	1										
C222.2	3	3	2									
C222.3	2	3	2									
C222.4	2	2	2									
C222.5	3	3	1									

C222.6	2	2	3									
AVG	2.50	2.33	2.00									

3.Course name: C312

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C312.1	3	2										
C312.2	3	2										
C312.3	3	2										
C312.4	3	2										
C312.5	3	1										
C312.6	3	2										
AVG	3	1.83										

4. Course name: C324

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C324.1	3	3	2									
C324.2	2	3	2		2							
C324.3	3	2	2									
C324.4	2	2	3		2							
C324.5	3	2	2		2							
C324.6	3	2	1									
AVG	2.67	2.33	2.00		2.00							

5.Course name: C415

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C415.1	3	2	1									2
C415.2	3	2	1									2
C415.3	3	2	1									2
C415.4	3	2	1									2
C415.5	3	2	1									2
C415.6	3	2	1									2
AVG	3	2	1									2

6.Course name: C423

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C423.1	3	2				2	2					
C423.2	3	2										
C423.3	2	3										
C423.4	3	1										
C423.5	3	2				2	2					
C423.6	3	2				2	2					2
AVG	2.83	2.00				2	2					2

b. CO-PSO matrices of courses selected in 3.1.1 (Six matrices to be mentioned; one per semester from 3rd to 8th semester)

1. **Course Name: C215**

Course	PSO1	PSO2
C215.1	2	2
C215.2	3	1
C215.3	2	
C215.4	3	
C215.5	2	
C215.6	2	1
AVG	2.33	1.33

2 Course Name: C222

Course	PSO1	PSO2
C222.1	1	2
C222.2	2	2
C222.3	3	1
C222.4	2	1
C222.5	3	
C222.6	2	1
AVG	2.16	1.40

3 Course Name: C312

Course	PSO1	PSO2
C312.1	2	1

C312.2	1	1
C312.3		1
C312.4	2	1
C312.5	1	1
C312.6	1	2
AVG	1.40	1.50

4 Course Name: C324

Course	PSO1	PSO2
C324.1	1	2
C324.2	3	1
C324.3	2	2
C324.4	2	1
C324.5	2	3
C324.6	1	
AVG	1.83	1.80

5 Course Name: C415

Course	PSO1	PSO2
C415.1		3
C415.2	1	3
C415.3		2
C415.4	1	2
C415.5	2	2
C415.6	1	2
AVG	1.25	2.33

6 Course Name: C423

Course	PSO1	PSO2
C423.1	1	2
C423.2		2
C423.3	2	2
C423.4		3
C423.5		2
C423.6	2	3

AVG	2.00	2.33

3.1.3 – a) Program level Course-PO matrix of all courses INCLUDING first year courses (10)

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C111	2.5	2.5										
C112	2	2			2							2
C113	2.5	2	2									
C114						2		2		2.66		
C115	2		2		2							
C116	2.5	2.33			2				3			2
C117	3	2.5	2									
C118										1.66		
C121	2.16	2.33										
C122	2	2					2					
C123	2.16	2.33	2		2							
C124	1.50	2.50	2.30									
C125	2	2.3					2					
C126	2.5	2.33					2		2			2
C127	2.5	2		2			3		2			2
C128	2.33	2	2						3			2
C211	2.50	2.00										
C212	2.40	2.50	2.00	1.00	1.00							
C213	3.00	1.50			2.00							1.50
C214	3.00	2.00	1.33	2.00								
C215	2.67	2.50	1.40	1.50								2.00
C216	2.50		2.33			2.16						1.00
C217	3.00	2.00	1.00						2.00	1.00		
C218	2.33		2.33						1.75			
C219	2.00	2.50	2.00	1.75	2.00	2.16	2.50	2.50	3.00	1.67	2.00	2.50
C221	2.50	2.33										
C222	2.50	2.33	2.00									
C223	2.83	2.00	2.00	1.00			1.00					1.67
C224	2.66	2.16										

C225	3.00	1.83	1.16	1.00	2.20							
C226	2.50	2.50	1.83	1.60								
C227	2.50	2.50	1.83						2.00	1.33		
C228	3.00	2.00	1.00						2.00	1.00		
C311	2.83	1.66										
C312	3.00	1.83										
C313	2.66	2.16	2.00		2.00							
C314	2.60	2.50	2.67	2.00	3.00							2.00
C315	2.50	2.50	2.33	1.66								2.00
C316	3.00	2.16							2.00			
C317	3.00	1.83	1.66	1.00					2.00			
C318	3.00	2.40				2.16	2.00		2.16			2.66
C321	2.83	1.80	1.00		1.00							2.50
C322	2.67	2.00	2.00		1.00							
C323	2.66	1.60	1.33	2.00								
C324	2.67	2.33	2.00		2.00							
C325		1.33	1.33				1.50		1.00	2.66	2.50	
C326	3.00	2.50	1.50	1.00	2.00							2.00
C327	2.50	2.26				1.00			1.00			2.00
C328	2.50	2.66	1.67		2.00							2.66
C411	3.00	1.50	2.00									
C412	2.80	2.50	2.00		2.16							
C413	3.00	2.33	1.25		2.33							
C414	2.83	2.00					1.75					2.50
C415	3.00	2.00	1.00									2.00
C416	3.00	1.83	1.00									
C417	2.33	2.00	1.80		3.00	1.00			1.83			2.00
C418	2.83	1.00			2.00							2.50
C421	3.00	1.83	1.33								2.33	1.50
C422	2.83	1.60					2.00					
C423	2.83	2.00				2.00	2.00					2.00
C424	2.80	1.40				1.83	1.50					
C425	3.00	2.00	2.00	2.00	2.00				2.00	2.00	2.00	

C426	2.36	2.66	2.44	2.14	1.99	2.00	2.61	1.81	2.43	2.27	2.34	2.97

b) Program level Course-PSO matrix of all courses INCLUDING first year courses

COURSE	PSO1	PSO2	COURSE	PSO1	PSO2
C111		1.83	**C227**	2.16	1.50
C112	2	2	**C228**		2.50
C113			**C311**	1.83	3.00
C114			**C312**	1.40	1.50
C115		1.83	**C313**	2.00	3.00
C116	2	2	**C314**	1.83	2.67
C117			**C315**	2.00	1.80
C118			**C316**	2.33	
C121	1		**C317**	1.00	2.00
C122	2	3	**C318**	1.50	2.00
C123	1.66	1.5	**C321**	1.67	1.75
C124	2	1	**C322**	1.16	
C125		2	**C323**	1.33	1.40
C126		1	**C324**	1.83	1.8
C127		2	**C325**		1.33
C128		1	**C326**	1.50	1.50
C211	2.33		**C327**	1.50	1.00
C212	2.50	1.00	**C328**	1.67	2.50
C213		2.50	**C411**	1.33	1.50
C214	1.00	2.33	**C412**	1.66	2.50
C215	2.66	1.33	**C413**	2.66	2.00
C216		2.66	**C414**	1.00	2.16
C217	1.66	1.33	**C415**	1.25	2.33
C218	1.67	2.33	**C416**	1.20	2.33
C219		1.66	**C4 17**	1.83	1.50
C221	2.66		**C4 18**	2.00	1.00
C222	2.16	1.40	**C421**	1.00	2.00
C223	2.50	1.00	**C422**	1.00	2.33
C224	2.33		**C423**	2.00	2.33

C225		2.66	**C424**	1.00	2.00
C226	2.16	2.67	**C425**	2.00	
			C426	2.08	2.11

3.2 Attainment of Course Outcomes (50)

3.2.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based (10)

1) Assessment for theory courses:

After commencement of class work, the Course Coordinator will design the flow of curriculum, lesson plan indicating teaching methods. Semester-end (external) examination will be conducted by the affiliating university for 70 marks and internal examination will be for 30 marks for all the theory courses. Internal assessment will be conducted as per the guidelines and schedule of JNTUK, Kakinada. Internal examinations are conducted in the form of Descriptive, Online, and Assignments comprising a total of 30 marks twice in a semester. Out of two internal assessments, as per the regulations of the affiliating university, 80% of best mark and 20% of least mark will be computed and internal assessment marks are finalized**.**

1.1 Class average mark and percentage of students scored above average mark.

All the marks scored by the learners are recorded and taking sum of all marks obtained by the students divided by number of students attempted the question gives the class average mark and number of students obtained greater than this mark will be considered. Then the percentage of students scored above average mark will computed.

1.2. Target and attainment levels of COs for internal assessment.

Target is stated in terms of number of students scoring greater than average mark in the internal assessment. Based on rubrics set for individual course, the attainment level will be calculated.

1.3. Target and attainment levels of COs for external assessment.

Target is stated in terms of number of students succeeded in the external exam for a maximum mark of 70. Based on rubrics set for individual course, the attainment levels will be calculated.

1.4. Calculation of attainments.

Attainments for internal examinations will be calculated by taking the question wise attainments for descriptive, online and assignments and average of theses attainments will be considered as CO attainments will be finalized.

Affiliating university declares the result using grade point average; therefore, class average mark will be computed by considering all the succeeded students in the semester-end (external) examination. Based on the class average mark, percentage of students score above class average mark and its attainment will be calculated. Average attainment will be finalized.

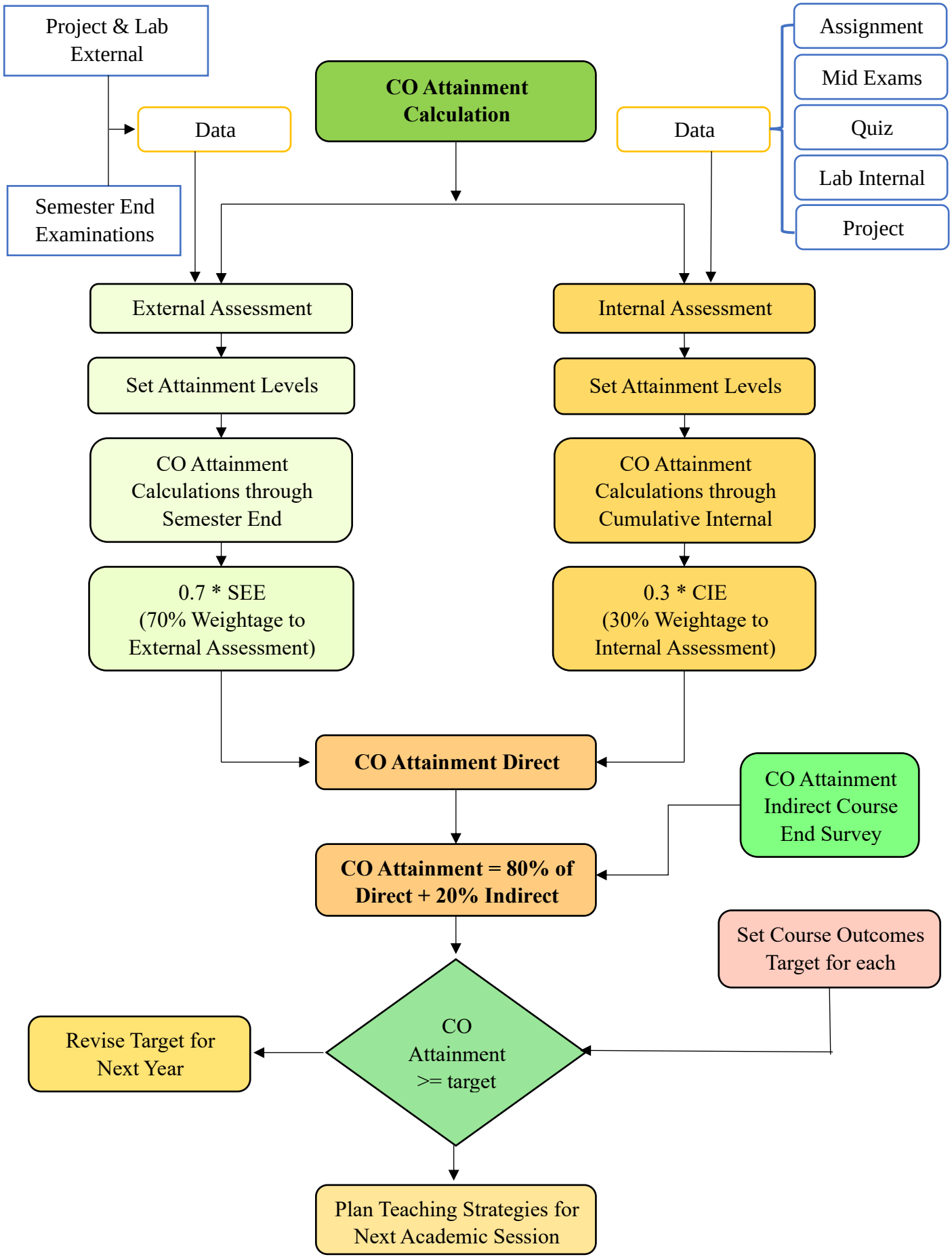


Fig: CO Attainment Process Flow Chart

As per the regulation prescribed by the affiliating university 30% weightage for internal assessment and 70% weightage for external assessment will be taken to calculate the attainment of that course. If the final attainment is less than the target attainment then the observations/reasons will be analysed to achieve the target for each course and laboratory**.**

ADITYA COLLEGE OF ENGINEERING

Department of Mechanical Engineering

Theory Course Assessment

Course Name:	METROLOGY												Academic Year:			2020-21		
Faculty Name:	P. Hari Chandra prasad												Year & Semester:			III Year II Semester		
Course Code:	C321												Branch & section:			ME	A	
		Internal Examination-1								Internal Examination-2								
S. No	ROLL NO	1.a	1.b	2.a	3.a	Total	Assignment	Quiz	Total	1.a	1.b	2.a	3.a	Total	Assignment	Quiz	Total	Internal	End Semester grade
Maximum Marks		5	5	10	10	15	5	10	30	5	5	5	5	10	5	10	25	29	O
1	17MH1A0306	5	5	8	5	12	3	3	18	3	2	8	8	11	5	7	23	22	F
2	18MH1A0301	5	5	7	7	12	5	5	22	5		7	7	10	5	5	20	22	F
3	18MH1A0302	5	5	7	8	13	5	3	21	5	5	8	2	10	5	2	17	21	D
4	18MH1A0303		2	8	2	6	5	3	14	5	2	10	8	13	5	2	20	19	D
5	18MH1A0305	5	5	7	8	13	5	4	22	5	5	10	5	13	5	1	19	22	D
6	18MH1A0306	5	5	6	7	12	5	3	20	4	3	8	8	12	5	2	19	20	C
7	18MH1A0308	5	3	10	8	13	5	2	20	5		9	9	12	5	4	21	21	C
8	18MH1A0309	5	5	10	5	13	5	2	20	5	3		10	9	5	3	17	20	C
9	18MH1A0310	5	5	5		8	5	4	17	5	5		7	9	5	2	16	17	D
10	18MH1A0311	5	5	10	5	13	5	3	21	5	5		10	10	5	2	17	21	C
11	18MH1A0312		5	7	6	9	5	3	17			10	10	10	5	2	17	17	C
12	18MH1A0313	5	5	10		10	5	3	18			10	10	10	5	4	19	19	D
13	18MH1A0314		5	9	10	12	5	5	22	5		10	10	13	5	3	21	22	B

14	18MH1A0315	5	5	10	10	15	5	2	22	5	5	10	10	15	5	3	23	23	B
15	19MH5A0301	5	5	10		10	5	4	19	5	5	10	8	14	5	4	23	23	B
16	19MH5A0302	5	2		5	6	5	3	14	5		10	5	10	5	5	20	19	B
17	19MH5A0303	5	5	10		10	5	3	18	5		10	10	13	5	5	23	22	B
18	19MH5A0304	5	5	10	2	11	5	2	18	5	5	10	10	15	5	5	25	24	B
19	19MH5A0305	5	5	10	10	15	5	9	29	5	5	10	8	14	5	8	27	29	A
20	19MH5A0306	5	5	10	10	15	5	9	29	5	5	10	10	15	5	8	28	29	A
21	19MH5A0307	5	5	10	10	15	5	9	29	5	5	10	10	15	5	8	28	29	C
22	19MH5A0308	5	5	8	7	13	5	8	26	5	5	10	10	15	5	8	28	28	C
23	19MH5A0309	4	4	6	7	11	5	9	25	5	5	10	8	14	5	8	27	27	B
24	19MH5A0310	4	5	8	8	13	5	8	26	5	5	8	8	13	5	8	26	26	C
25	19MH5A0311	5	5	8	8	13	5	9	27	5	5	10	10	15	5	8	28	28	A
26	19MH5A0312	3	5	10	10	14	5	9	28	5		10	10	13	5	8	26	28	B
27	19MH5A0313	5	2	10	10	14	5	9	28	5	5	10	10	15	5	7	27	28	C
28	19MH5A0314	5	5	8	2	10	5	8	23	5	3	10	10	14	5	8	27	27	B
29	19MH5A0315	5	5	10	8	14	5	8	27	5	5	10	10	15	5	8	28	28	B
30	19MH5A0316	5	5	10	6	13	5	8	26	5	5	10	10	15	5	8	28	28	C
31	19MH5A0317	5	5	10	10	15	5	9	29		5	10	10	13	5	9	27	29	C
32	19MH5A0318	5	5	10	8	14	5	9	28	5	2	10	10	14	5	8	27	28	B
33	19MH5A0319	5	5	10	10	15	5	8	28			10	10	10	5	9	24	28	B
34	19MH5A0320	5	5	10	6	13	5	8	26	5	5	10	10	15	5	9	29	29	A
35	19MH5A0321	5	5	10	3	12	5	8	25	5	5	8	5	12	5	9	26	26	F
36	19MH5A0322	5	5	10	10	15	5	9	29	5	5	10	10	15	5	8	28	29	B
37	19MH5A0323	5	5	8	10	14	5	9	28	2	5	10	10	14	5	9	28	28	B
38	19MH5A0324	5	5	10	10	15	5	9	29	5	5	10	7	14	5	7	26	29	B
39	19MH5A0325	2	5	10	5	11	5	7	23	5	5	10		10	5	7	22	23	C
40	19MH5A0326	5	5	10	8	14	5	7	26	5	5	10	8	14	5	7	26	26	B

41	19MH5A0327	5	5	8	8	13	5	9	27	5	5	7	10	14	5	8	27	27	A
42	19MH5A0328	5	5	8	8	13	5	8	26					0	5	8	13	24	C
44	19MH5A0330	5	5	10	8	14	5	8	27	5	5	10	9	15	5	9	29	29	C
Class Average Mark		4.8	4.7	9.0	7.4	12.5	5.0	6.2	23.7	4.8	4.5	9.6	8.8	12.6	5.0	6.1	23.7	24.7	C
Student Scored above average mark		36	38	26	23	27	42	25	23	35	27	31	26	28	43	26	24	23	35
Students attempted the question		40	43	42	39	43	43	43	43	38	33	39	41	43	43	43	43	43	43
% Students scored above average mark		90	88	62	59	63	98	58	53	92.1	81.8	79.5	63.4	65.12	100	60.47	55.81	53	81
Attainment level		3	3	2	1	2	3	1	1	3	3	2	2	2	3	2	1	1	3

																	Internal	**University Exam**	**Direct Attainment**	**80% of DA**	**In-Direct Attainment**	**20% of IDA**	**Overall Attainment**
C321.1	3	3				3	1										2.5	3	2.85	2.28	2.51	0.50	**2.78**
C321.2			2			3	1										2	3	2.70	2.16	2.45	0.49	**2.65**
C321.3				1		3	1										1.6	3	2.60	2.08	2.49	0.50	**2.58**
C321.4									3	3				3	2		2.75	3	2.93	2.34	2.41	0.48	**2.82**
C321.5											2			3	2		2.3	3	2.80	2.24	2.41	0.48	**2.72**
C321.6												2		3	2		2.3	3	2.80	2.24	2.44	0.49	**2.73**
Overall Course attainment (80% Direct Attainment + 20% Indirect Attainment)																							**2.71**
Set target for course attainment																							**2.40**
Status of the course attainment (Yes/No)																							**Yes**

C321.1	Determine the limits and tolerances for selected product quality
C321.2	Illustrate standards of length, angles and gauges.
C321.3	Explain the working principles of optical measuring instruments and interferometry
C321.4	Calculate the surface finish and measure the parts with comparators
C321.5	Identify appropriate method and instrument for the inspection of gear elements and thread elements.
C321.6	Assess the quality of machine tool using alignment tests

Rubrics		Best performing Course Outcome:	C321.4
>70% students:	3		
60 to 70% students:	2	Least performing Course Outcome:	C321.5
<60 % students:	1		

Reason for High attainment	**1**	More Number of University Questions papers were discussed in Class.
	2	Slow Learners were Identified after Completion of 1st internal exam and more Tutorial Classes are Conducted.
	3	
Plan of Action for improvement	**1**	Similar Teaching – Learning Methodologies will be implemented to maintain and to improve the student performance.
	2	
	3	

Project Attainment:

Project plays a major role in getting practical exposure to the learnt theoretical concepts. Average marks obtained from each student is used as a tool for assessing program outcomes.

Project assessment is performed using the following tools,

1. Internal Assessment.
2. External Assessment.

Internal Assessment:

Project internal assessment is based on the marks obtained by students in the internal reviews conducted by the department. Total 3 reviews will be conducted during the semester & assessment is done according to the average marks obtained by the students. The following Procedure is adopted.

1. Initially the project batches are divided based on the cumulative percentage obtained by the students and No. Of backlogs till the completion of 3 Year, Students are then arranged in the descending order by their percentages and backlogs.
2. Students With Highest Percentage and Zero Backlogs will be considered as the team leaders and team leaders will be allowed to choose the remaining team members according the percentage secured and no. of backlogs of the student in the presence of project co-ordinator and by that final Project teams are formed and the same will be submitted to the HOD for final approval.
3. Project Co-ordinator will display the list of guides available in the department with the complete information like designation, qualification, Research area, area of interest, no. of publications etc.
4. Students are allowed to choose the project guide from the list of available faculty members from the department and they have to submit the guide approval letter.
5. A healthy discussion was initiated by the HOD with senior faculty members of the department to constitute the review committees, to conduct the project internal reviews.
6. By following the academic calendar released by the JNTU – Kakinada, HOD will release the tentative schedule for execution of project internal reviews along with the project execution guideline.
7. Project Coordinator will prepare the internal evaluation sheet after discussing with review committee members by incorporating the suggestion given by them and final Internal evaluation sheet will be submitted to HOD for final approval.
8. After Completion of each internal review, project coordinator will collect the suggestions given by the review committee members and consolidated comments will be given to the concern project guide for further execution of project.

9. After successful completion of the internal project reviews, project coordinator will formulate the marks given by the review committee members and average of 3- internal review marks will be calculated and submitted to the HOD for final approval.
10. Project External Viva- Voice will be conducted according to the schedule given by the JNTU-K University. External Examiner will be deputed by the JNTUK to Conduct the External Project Evaluation.
11. External Evaluation is based on the student performance, working model, experiment setup, results & discussion, Viva – Voice and final mark will be given by the external examiner.

Internal Review Evaluation Sheet (Sample):

S. No	Project Batch Number	Student Registration Number	Name of the Project Guide	Project Tittle	Review - 1				Review - 2				Review - 3				Total Internal
					Identifying problem	Title & Abstract	Presentation	Total	Methodology	Plan of Action	Presentation	Total	Execution	Working Model	Presentation	Total	
1	A1																
2																	
3																	
4																	
Suggestion by Review Committee Member																	

Review Committee Member:

1.
2.
3.

Head of the Department

3.2.2 Record the attainment of Course Outcome of all courses with respect to set attainment levels **(40)**

ADITYA COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

CO Attainments (A.Y. 2020-2021)

S.NO	COURSE CODE	COURSE NAME	SEC	CO1	CO2	CO3	CO4	CO5	CO6	DIRECT ATTAINMENT	INDIRECT ATTAINMENT	OVER ALL	TARGET	TARGET STATUS
1	C211	Vector Calculus & Fourier Transforms	A	2.13	2.13	2.06	2.19	2.19	2.19	2.15	2.58	2.23	2.25	No
2	C212	Mechanics Of Solids	A	2.69	2.67	2.75	2.67	2.81	2.75	2.72	2.48	2.67	1.73	Yes
3	C213	Material Science & Metallurgy	A	2.63	2.63	2.69	2.83	2.63	2.83	2.70	2.60	2.68	2.36	Yes
4	C214	Production Technology	A	2.81	2.67	2.75	2.88	2.67	2.69	2.74	2.59	2.71	2.28	Yes
5	C215	Thermodynamics	A	2.51	2.35	2.35	3.00	3.00	2.68	2.65	2.62	2.64	2.14	Yes
6	C216	Machine Drawing	A	1.92	2.03	2.03	1.70	1.70	1.70	1.85	2.52	1.98	1.98	Yes
7	C217	Metallurgy & Mechanics of Solids lab	A	2.56	2.56	2.65	2.65	2.65	2.65	2.62	2.68	2.63	1.80	Yes
8	C218	Production Technology Lab	A	2.30	2.30	2.30	2.65	2.30	2.48	2.39	2.69	2.45	2.13	Yes
9	C219	socially Relevant Project	A	2.40	2.40	2.40	3.00	3.00	3.00	2.70	2.56	2.67	2.21	Yes
10	C221	Complex Variables & Statistical Methods	A	2.13	2.13	1.94	2.25	2.06	2.25	2.13	2.60	2.22	2.41	No
11	C222	Kinematics Of Machinery	A	2.83	2.83	2.75	2.92	2.83	2.67	2.81	2.50	2.74	2.29	Yes
12	C223	Applied Thermodynamics	A	2.83	2.75	2.83	2.93	3.00	3.00	2.89	2.60	2.83	2.00	Yes
13	C224	Fluid Mechanics & Hydraulic Machines	A	2.25	2.25	2.25	2.13	2.25	2.25	2.23	2.40	2.26	2.20	Yes
14	C225	Metal Cutting & Machine Tools	A	2.81	2.92	2.92	2.67	2.67	2.75	2.79	2.35	2.70	2.00	Yes
15	C226	Design Of Machine Members-I	A	2.17	2.25	2.25	2.17	2.08	2.08	2.17	2.30	2.19	2.13	Yes

16	C227	Fluid Mechanics & Hydraulic Machines LAB	A	2.44	2.50	2.80	2.73	2.80	2.80	2.68	2.45	2.63	2.03	Yes
17	C228	Machine Tools LAB	A	2.35	2.35	2.22	2.03	1.92	1.92	2.13	2.60	2.23	1.80	Yes
18	C311	Dynamics of Machinery	A	2.20	2.30	2.30	2.30	2.30	2.10	2.25	2.44	2.29	2.25	Yes
19	C311	Dynamics of Machinery	B	3.00	3.00	2.80	3.00	3.00	2.80	2.93	2.42	2.83	2.25	Yes
20	C312	Metal Cutting & Machine Tools	A	2.63	2.78	2.70	2.60	2.63	2.70	2.67	2.36	2.61	2.42	Yes
21	C312	Metal Cutting & Machine Tools	B	2.63	2.78	2.60	2.80	2.63	2.70	2.69	2.34	2.62	2.42	Yes
22	C313	Design of Machine Members-II	A	2.06	2.00	2.00	2.00	1.90	1.90	1.98	2.38	2.06	2.23	Yes
23	C313	Design of Machine Members-II	B	2.80	2.60	2.60	2.90	2.90	2.90	2.78	2.35	2.70	2.23	Yes
24	C314	Operations Research	A	3.00	3.00	3.00	2.80	2.80	2.80	2.90	2.41	2.80	2.46	Yes
25	C314	Operations Research	B	2.90	2.70	2.90	2.80	2.80	2.80	2.82	2.39	2.73	2.46	Yes
26	C315	Thermal Engineering -II	A	1.94	2.08	2.10	2.00	2.10	2.08	2.05	2.40	2.12	2.19	No
27	C315	Thermal Engineering -II	B	2.24	2.30	2.20	2.00	2.10	2.08	2.15	2.36	2.19	2.19	Yes
28	C316	Theory of Machines LAB	A	3.00	2.83	2.77	2.88	2.77	3.00	2.88	2.38	2.78	2.38	Yes
29	C316	Theory of Machines LAB	B	2.65	2.74	2.77	2.77	2.77	2.83	2.76	2.34	2.67	2.38	Yes
30	C317	Machine Tools LAB	A	2.60	2.40	2.33	2.50	2.33	2.50	2.44	2.52	2.46	1.80	Yes
31	C317	Machine Tools LAB	B	2.52	2.60	2.47	2.60	2.47	2.60	2.54	2.51	2.54	1.80	Yes
32	C318	Thermal Engineering LAB	A	2.56	2.53	2.65	2.42	2.65	2.65	2.58	2.52	2.57	2.39	Yes
33	C318	Thermal Engineering LAB	B	2.65	2.53	2.65	2.42	2.65	2.69	2.60	2.50	2.58	2.39	Yes
34	C321	Metrology	A	2.85	2.70	2.60	2.93	2.80	2.80	2.78	2.45	2.71	2.28	Yes
35	C321	Metrology	B	2.78	2.90	2.80	2.78	2.80	2.80	2.81	2.33	2.71	2.28	Yes
36	C322	Instrumentation & Control Systems	A	2.30	2.30	2.15	2.23	2.15	2.23	2.23	2.26	2.23	2.06	Yes

37	C322	Instrumentation & Control Systems	B	2.78	2.63	2.63	3.00	2.85	2.85	2.79	2.30	2.69	2.06	Yes
38	C323	Refrigeration & Air-Conditioning	A	3.00	2.68	2.68	3.00	3.00	3.00	2.89	2.29	2.77	1.88	Yes
39	C323	Refrigeration & Air-Conditioning	B	3.00	3.00	2.85	2.85	2.93	2.93	2.93	2.35	2.81	1.88	Yes
40	C324	Heat Transfer	A	2.80	2.82	2.93	2.85	2.93	3.00	2.89	2.30	2.77	2.28	Yes
41	C324	Heat Transfer	B	3.00	2.88	3.00	2.78	2.85	2.90	2.90	2.30	2.78	2.28	Yes
42	C325	Entrepreneurship	A	2.90	2.85	2.90	3.00	3.00	2.70	2.89	2.50	2.81	1.95	Yes
43	C325	Entrepreneurship	B	2.90	2.93	2.90	2.80	2.90	2.85	2.88	2.35	2.77	1.95	Yes
44	C326	Heat Transfer LAB	A	2.65	2.65	2.77	2.77	2.83	2.77	2.74	2.38	2.67	2.36	Yes
45	C326	Heat Transfer Lab	B	2.65	2.65	2.77	2.53	2.48	2.65	2.62	2.18	2.53	2.36	Yes
46	C327	Metrology & Instrumentation LAB	A	2.56	2.42	2.53	2.65	2.44	2.30	2.48	2.46	2.48	2.00	Yes
47	C327	Metrology & Instrumentation Lab	B	2.48	2.53	2.30	2.65	2.58	2.30	2.47	2.33	2.44	2.00	Yes
48	C328	Computational & Fluid Dynamics LAB	A	2.65	2.65	2.77	2.58	2.53	2.65	2.64	2.43	2.60	2.29	Yes
49	C328	Computational & Fluid Dynamics Lab	B	2.83	3.00	2.77	2.72	3.00	3.00	2.89	2.42	2.79	2.29	Yes
50	C411	Mechatronics	A	2.8	2.85	2.78	2.7	2.7	2.9	2.79	2.30	2.69	2.44	Yes
51	C411	Mechatronics	B	2.80	2.85	2.85	2.80	2.70	2.70	2.78	2.3	2.69	2.44	Yes
52	C412	CAD/CAM	A	2.00	2.00	1.90	1.85	1.85	2.10	1.95	2.353333	2.03	2.31	Yes
53	C412	CAD/CAM	B	2.55	2.85	2.60	2.55	2.55	2.60	2.62	2.18	2.53	2.31	Yes
54	C413	Finite Element Methods	A	2.10	2.10	2.10	2.10	2.08	2.00	2.08	2.33	2.13	2.31	No
55	C413	Finite Element Methods	B	2.70	2.70	2.70	2.80	2.80	2.80	2.75	2.28	2.66	2.31	Yes
56	C414	Power Plant Engineering	A	2.33	2.33	1.68	2.43	1.84	2.22	2.14	2.34	2.18	2.35	No

57	C414	Power Plant Engineering	B	2.51	3.00	2.35	2.78	2.68	2.57	2.65	2.33	2.58	2.35	Yes
58	C415	Additive Manufacturing	A	2.80	2.80	2.70	2.70	2.85	2.78	2.77	2.40	2.70	2.00	Yes
59	C415	Additive Manufacturing	B	2.80	2.80	2.70	2.70	2.78	2.70	2.75	2.27	2.65	2.00	Yes
60	C416	Advanced Materials	A	2.60	2.70	2.80	2.80	2.70	2.60	2.70	2.38	2.64	2.21	Yes
61	C416	Advanced Materials	B	2.35	2.13	2.13	2.13	2.68	2.35	2.30	2.37	2.31	2.21	Yes
62	C417	CAD/CAM LAB	A	2.77	2.77	2.79	2.77	2.59	2.59	2.71	2.34	2.64	2.12	Yes
63	C417	CAD/CAM LAB	B	2.71	2.77	2.79	2.77	2.71	2.71	2.74	2.34	2.66	2.12	Yes
64	C418	Mechatronics LAB	A	2.88	2.77	2.65	2.65	3.00	3.00	2.83	2.42	2.74	2.45	Yes
65	C418	Mechatronics LAB	B	2.77	2.88	2.74	2.74	3	3	2.86	2.43	2.77	2.45	Yes
66	C421	Production Planning Control	A	2.55	2.70	2.60	2.85	2.60	2.60	2.65	2.26	2.57	2.04	Yes
67	C421	Production Planning Control	B	2.63	2.63	2.70	2.70	2.60	2.60	2.64	2.3	2.57	2.04	Yes
68	C422	Unconventional Machining Process	A	2.90	2.70	2.78	2.80	2.70	2.85	2.79	2.20	2.67	2.28	Yes
69	C422	Unconventional Machining Process	B	2.70	2.63	2.70	2.90	2.90	2.70	2.75	2.31	2.67	2.28	Yes
70	C423	Automobile Engineering	A	2.78	2.78	2.80	2.55	2.55	2.60	2.68	2.34	2.61	2.26	Yes
71	C423	Automobile Engineering	B	2.70	2.63	2.80	2.55	2.63	2.60	2.65	2.38	2.60	2.26	Yes
72	C424	Non-Destructive Evolution	A	2.60	2.60	2.60	2.80	2.60	2.60	2.63	2.28	2.56	1.90	Yes
73	C424	Non-Destructive Evolution	B	2.80	2.60	2.80	2.80	2.80	2.80	2.77	2.39	2.69	1.90	Yes
74	C425	Seminar	A	2.40	3.00	2.40	2.40	3.00	2.40	2.60	2.31	2.54	2.11	Yes
75	C425	Seminar	B	2.40	2.40	2.70	2.40	2.40	2.70	2.50	2.37	2.47	2.11	Yes
76	C426	Project	A	2.55	2.55	2.85	2.40	3.00	2.80	2.69	2.30	2.61	2.31	Yes
77	C426	Project	B	2.40	2.70	2.70	3.00	3.00	2.60	2.73	2.41	2.67	2.31	Yes

CO - Indirect Attainments (A.Y. 2020-2021 - I Semester):

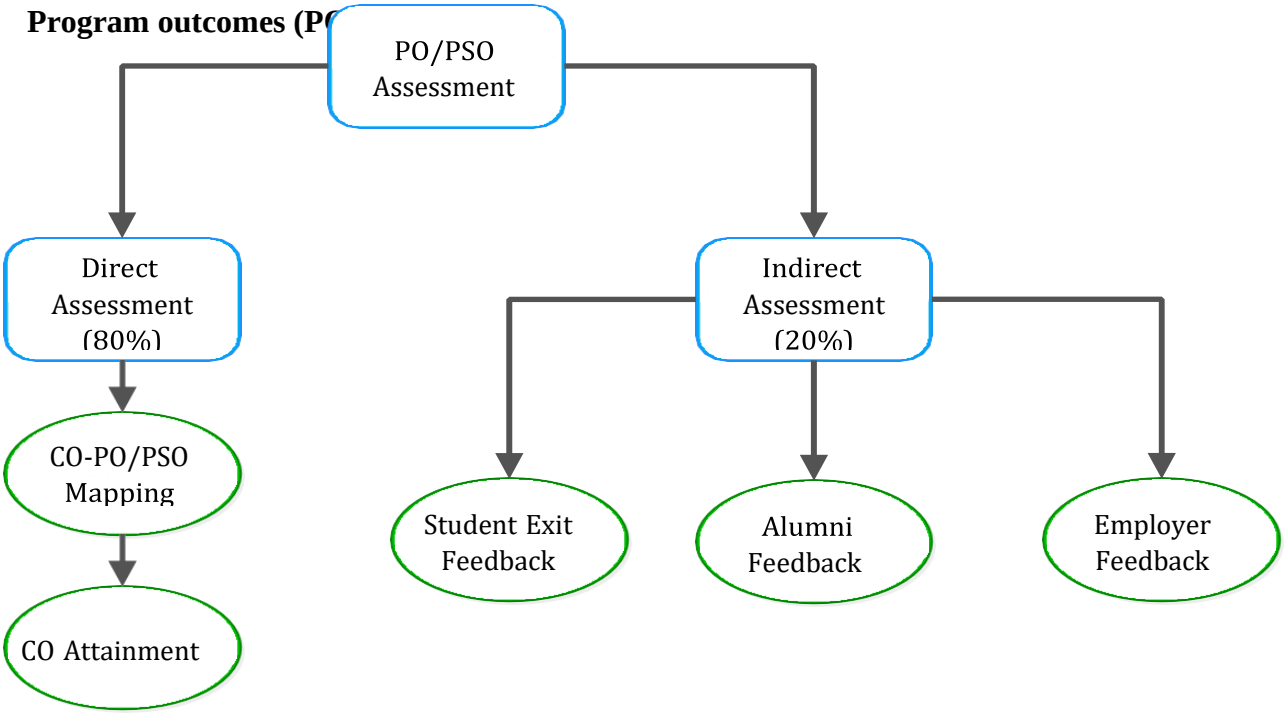
Sub Code/CO	SEC	CO1	CO2	CO3	CO4	CO5	CO6	In Direct Attainment Average	20% In Direct Attainment Average
C211	A	2.50	2.59	2.65	2.57	2.54	2.61	2.58	0.52
C212	A	2.46	2.54	2.48	2.50	2.46	2.46	2.48	0.50
C213	A	2.61	2.70	2.57	2.57	2.54	2.63	2.60	0.52
C214	A	2.56	2.57	2.57	2.61	2.54	2.69	2.59	0.52
C215	A	2.56	2.63	2.54	2.69	2.69	2.63	2.62	0.52
C216	A	2.46	2.54	2.43	2.65	2.44	2.57	2.52	0.50
C217	A	2.65	2.74	2.65	2.76	2.61	2.67	2.68	0.54
C218	A	2.63	2.70	2.67	2.72	2.74	2.67	2.69	0.54
C219	A	2.61	2.70	2.57	2.57	2.54	2.63	2.60	0.52
C311	A	2.56	2.47	2.37	2.44	2.26	2.56	2.44	0.49
C311	B	2.50	2.45	2.34	2.45	2.26	2.53	2.42	0.48
C312	A	2.37	2.37	2.42	2.33	2.30	2.37	2.36	0.47
C312	B	2.34	2.37	2.45	2.29	2.29	2.29	2.34	0.47
C313	A	2.53	2.37	2.30	2.35	2.23	2.49	2.38	0.48
C313	B	2.50	2.34	2.29	2.34	2.21	2.42	2.35	0.47
C314	A	2.47	2.37	2.28	2.44	2.26	2.63	2.41	0.48
C314	B	2.39	2.42	2.29	2.45	2.21	2.61	2.39	0.48
C315	A	2.47	2.33	2.26	2.23	2.56	2.56	2.40	0.48
C315	B	2.39	2.32	2.26	2.16	2.50	2.50	2.36	0.47
C316	A	2.42	2.53	2.19	2.42	2.23	2.49	2.38	0.48
C316	B	2.39	2.47	2.16	2.34	2.18	2.50	2.34	0.47
C317	A	2.60	2.40	2.44	2.56	2.58	2.56	2.52	0.50
C317	B	2.58	2.37	2.50	2.53	2.53	2.55	2.51	0.50
C318	A	2.58	2.49	2.44	2.58	2.44	2.60	2.52	0.50
C318	B	2.53	2.55	2.37	2.61	2.42	2.55	2.50	0.50
C411	A	2.29	2.37	2.31	2.40	2.29	2.14	2.30	0.46
C411	B	2.35	2.30	2.28	2.40	2.23	2.28	2.30	0.46

C412	A	2.14	2.17	2.43	2.17	2.20	1.89	2.17	0.43
C412	B	2.15	2.15	2.43	2.13	2.18	2.05	2.18	0.44
C413	A	2.40	2.17	2.57	2.09	2.60	2.17	2.33	0.47
C413	B	2.40	2.10	2.30	2.10	2.60	2.20	2.28	0.46
C414	A	2.29	2.23	2.66	2.37	2.40	2.11	2.34	0.47
C414	B	2.25	2.23	2.48	2.38	2.45	2.20	2.33	0.47
C415	A	2.49	2.29	2.71	2.46	2.14	2.29	2.40	0.48
C415	B	2.15	2.30	2.30	2.50	2.15	2.20	2.27	0.45
C416	A	2.66	2.26	2.66	2.26	2.17	2.26	2.38	0.48
C416	B	2.65	2.25	2.65	2.25	2.18	2.25	2.37	0.47
C417	A	2.14	2.23	2.43	2.17	2.54	2.54	2.34	0.47
C417	B	2.15	2.23	2.43	2.15	2.55	2.55	2.34	0.47
C418	A	2.34	2.46	2.40	2.37	2.34	2.60	2.42	0.48
C418	B	2.38	2.48	2.38	2.40	2.33	2.60	2.43	0.49

3.3 Attainment of Program Outcomes and Program Specific Outcomes (50)

3.3.1 Describe the assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific Outcomes (10)

Program outcomes (PO



There are two methods of assessment

1. Direct Assessment (80%)
2. Indirect Assessment (20%)

1. Direct Assessment

Direct attainment of POs is carried out by

1. Results of Course Outcome Assessment from all courses and labs

PO Attainment from results of Course Outcome Assessment from all courses and labs.

There are two steps in getting the PO attainment from the CO attainment. They are

1. CO-PO Mapping
2. Attainment of PO from CO attainment using CO-PO Mapping

CO-PO Mapping Strength

1. Attainment of a PO/PSO depends both on the attainment levels of associated COs and the strength to which it is mapped.
2. Maximum of 5 POs to be mapped to COs
3. It is necessary to determine the level (mapping strength) at which a particular PO/PSO is addressed by the course.
4. Strength of mapping is defined at three levels: Low (1), Medium (2) and Strong (3)
5. Course outcome attainment level is assigned to the POs for which that particular course is mapped.
6. Course outcome attainment levels measured for the courses are used for measuring the attainment of PO through CO.

Attainment of every PO is determined from every CO by considering the strength of mapping of a particular CO to that PO and the level of attainment of that CO. From CO-PO mapping table sum of the weights of each PO for all COs is calculated. CO attainment values are used based on the CO-PO Mapping for obtaining the PO attainment and sample is as shown below. PO attainment value is obtained by taking the average of the column. Same procedure is followed for all the courses to get PO attainment levels. After finding the course wise PO levels, overall PO levels will be obtained by taking the average of the levels of each PO of all the courses that are attaining particular PO.

2. Indirect Attainment of POs and PSOs:

Indirect assessment is based on surveys conducted. It mainly involves

1. Exit student Survey
2. Alumni survey
3. Employer Survey

1. Exit Student Survey:

Feedback will be taken from the graduates at the end of the program every year. Feedback will be taken using Exit student feedback form. Sample Feedback Form shown below.

2. Alumni Survey:

Feedback will be taken from the Alumni graduates at the end of the program every year. Feedback will be taken using Alumni feedback form. Sample Feedback Form shown below.

3.Employer Survey:

Feedback will be taken from the Employees every year. Feedback will be taken using Employee feedback form. Sample Feedback Form shown below.

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FINAL YEAR STUDENTS – EXIT FEED BACK

Academic Year: **Batch:**
Name: **Reg No:**
Date:

NOTE: Please write appropriate levels1, 2, 3 as defined below for each parameter:
1. Slight (Low) 2. Moderate (Medium) 3. Substantial (High)

Feedback on Facilities:

S. No	Facility	Your Rating	S. No	Facility	Your Rating
1	Admission Procedure		13	Cleanliness/ Lighting of Toilets	
2	College Environment		14	Quality of Drinking Water	
3	College Rules and Regulations		15	Software Facilities	
4	Safety & Protection		16	Sports & Games	
5	Library		17	Counselling / Mentoring Facilities	
6	Laboratories in Curriculum		18	T & P facilities	
7	Additional Laboratories & Project Lab		19	Canteen	
8	Industrial Collaborations		20	Entrepreneurship Cell	
9	Classroom Resources		21	Hostel	
10	Availability of Doctor and Medicines		22	Transport	
11	Bank & ATM		23	Self-Learning Facility such as NPTEL, e-journals.	
12	Common Computer Center / Internet Facilities		24	Overall Rating on Institution	

Feedback on Teaching-Learning-Evaluation Process:

S. No	Teaching-Learning-Evaluation Process	Your Rating	S. No	Teaching-Learning-Evaluation Process	Your Rating
1	Academic Performance		14	Additional topics taught in the courses	
2	Innovative methods in Teaching		15	Additional Experiments in the Laboratories	
3	Up to date knowledge and skills		16	Quality of Exam paper evaluation	
4	Student Seminars/ Presentations		17	Faculty feedback on students' performance at regular intervals	
5	Faculty guidance in Laboratories		18	Faculty pays attention to academically weaker students as well	
6	Industrial visits / Internships		19	Student feedbacks implementation	
7	Quality of projects – Technology, Social Relevance, industry		20	Syllabus & its relevance to meet the objectives	
8	Students were always allowed to interrupt the instructor to seek clarifications.		21	Technical Paper presentation (VEDA)	
9	Support for Self-learning		22	Department Association Activities	
10	Student Peer learning opportunities		23	Annual Sports Meet	
11	Guidance provided by the faculty members		24	Cultural Activities (Colors)	
12	Training Courses beyond the University syllabus - soft skills		25	Periodical assessments were conducted as per schedule	
13	Training Courses beyond the University syllabus – Technical(T-Hub)		26	Overall Experience at **ACOE**	

Feedback on Faculty & Staff:

S. No	Parameter Description	Your Rating
1	Dose the faculty had up to date knowledge and skills in the course	
2	Instructor clearly stated the main objectives of the course.	
3	Presentation/Teaching of material	
4	Classroom Management	
5	Is the faculty regular and punctual?	
6	Modern teaching aids	
7	Pace of Course (2 too fast / 2 too slow)	
8	Coverage of Syllabus	
9	Faculty's Approachability	
10	Enthusiastic about teaching	

S. No	Parameter Description	Your Rating
11	Students doubts clarification	
12	Voice clarity and effective body language?	
13	Faculty accessible outside of the classroom	
14	Interest in the professional development of the students	
15	All the students were treated impartially.	
16	Fair and unbiased in the evaluation process	
17	Encouraged the students to raise questions in the classroom	
18	Availability of faculty in the laboratory for whole duration of laboratory hours	
19	Helps students in exploring the area of study involved in the experiment	
20	is the faculty being capable of keeping the class under discipline and control?	
21	Overall rating of the faculty	

Feed Back on Curriculum/Add-on courses:

S. No	Parameter Description	Your Rating
1	Curriculum and Syllabi of the Courses	
2	Fulfillment of course objective	
3	Course balance between theory and application	
4	Course Sequences in Consecutive semesters	
5	Relevance to Fundamental and Core knowledge	
6	Size of syllabus in terms of the load on the student.	
7	Depth of the syllabi	
8	Extent of syllabi covered in the Class	
9	Coverage of fundamental concepts	
10	Professional ethics & social responsibility and team work skills	

S. No	Parameter Description	Your Rating
11	Text books & reference text books are adequate and appropriate	
12	Distribution of hours per course	
13	Allocation of credits to the course	
14	Offering of electives and value-added course	
15	Career guidance and competitive examination.	
16	electives relevance to the specialized streams.	
17	Content of the courses encourages extra learning / self-learning.	
18	Designing of experiments in the laboratory.	
19	Relevance practical/ lab work	
20	Relevance to industrial scenario and global competence	

Any Other Comments / Suggestions:

Signature of the student

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DEPARTMENT OF MECHANICAL ENGINEERING

ALUMNI FEEDBACK -AY: 2020 - 2021

Name of the Alumni: Branch:

Year of graduation: Phone no:

Organization name: Designation /Occupation:

Email: Joined year:

Dear Alumni,

We shall be thankful to and appreciate you if you can spare some of your valuable time to fill up this feedback form and give us your valuable suggestions for further improvement of the Institute. Your valuable inputs will be of great use to improve the quality of our academic programs and enhance the credibility of the Institute. Hence your feedback on Institute will help us to improve our approach in Academics.

The rating is on a 3-Points (1 to 3) scale... (Excellent-3, Good-2, Poor-1)

S.No.	FACILITIES	Score
1	How teaching and mentoring process in the college facilitated to you for	
2	How our college Infrastructure & Lab facilities helped you to enhance your	
3	Industrial Collaborations & interactions with our college	
4	Availability of medical facilities inside the campus	
5	How Can You Grade Your College Incubation Centre	
6	Facilities regarding sports and games	
7	How can you grade your Training & Placement activities	
8	Availability of reading material (Library /Internet/Others)	
9	The college provides adequate opportunities and support to the students for	
10	Grade your Hostel & Canteen Facilities	
11	Grade your Co-curricular and Extracurricular Activities	
12	How college provides multiple opportunities to learn and grow.	
13	Grievance Cell Activities in our campus	
14	Overall, Campus Rating	
Any Other Suggestions:		
	CURRICULUM DESIGN & DEVELOPMENT	
15	Grade your Curriculum and Syllabi of the Courses	
16	Curriculum meets prerequisite and basic knowledge required for the career.	
17	Usefulness of learning experience in career.	
18	Electives offered in relation to the technological advancements.	
19	The new courses (subjects) Introduced meet contemporary (existing)	
20	Design of the courses (subjects) encourages / motivates extra learning or	

21	Is it College takes efforts to engage students in monitoring, reviewing and	
22	How teachers are informing expected competencies, course outcomes and	
23	Guidance provided by the faculty members	
24	Training Courses beyond the University syllabus – Technical(T-Hub)	
25	Opportunities for out of classroom learning (guest lectures, seminars,	
26	Relevance to industrial scenario and global competence	
Any Other suggestions:		

S.No.	PROGRAM OUTCOMES	Score
1	The study of basic sciences and core engineering helped you in analyzing the problems at your workplace?	
2	How you are grading to identify and define the computing requirements for a given problem which are appropriate to its solution	
3	How are you capable to develop algorithms, and/or techniques that contribute to the software solution?	
4	How college provides opportunity in the decision-making process of your project	
5	Type of modern tools used in your project	
6	Grade the impact of your final year project on society	
7	Capability of a student to implement global, security and safety issues at your career	
8	In what way are you collaborating with your team members to deliver the task at your workplace	
9	Roll of yours working with multidisciplinary teams	
10	How are you supporting your team on design and present documents using the presentation tools	
11	How capable you are to exceed the timelines allocated for the work	
12	Grade your interest to pursue any higher education/undertaken certification/short-term courses for furtherance of your professional career?	
Any Other suggestions:		
	PROGRAM SPECIFIC OUTCOMES	
1	Apply the analytical skills of Mathematics, Basic Science and Mechanical Engineering Streams to formulate, analyze and provide solution to complex	
2	Design system components or process of Manufacturing, Thermal Engineering Machine Elements and inter-disciplinary fields by applying appropriate techniques to meet the needs of industry and society.	
Any Other suggestions:		

Signature of the Alumni

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DEPARTMENT OF MECHANICAL ENGINEERING

EMPLOYER FEEDBACK -AY: 2020-21

Name of the Company: Date of Drive:

Name of the official: Designation /Occupation:

Job Roll Offered: Company Email:

Thanking you for scheduling on-campus recruitment at **Aditya College of Engineering- Surampalem**. We hope your efforts have been successful and your recruiting experience has been a positive one. Please take a few minutes to share your opinion. This information will provide valuable feedback for our students and staff to enhance the student skills and to better serve your needs in future. Please rate the question with appropriate points which was mentioned below.

The rating is on a 3-Points (1 to 3) scale... (Excellent-3, Good-2, Poor-1)

S.No.	Attributes	Score
1	Coordination of Placement Schedule	
2	Arrangement of transport and Hospitality	
3	Staff Approach (T & P)	
4	Facilities for Campus Recruitment	
5	Students' involvement during Pre- Placement Talk	
6	Students' behavior during the recruitment	
7	Students well-groomed and professionally dressed	
8	Students' resumes were professional	
9	Students Communicational Skills	
10	Students body language during the interview	
11	Students' technical skill	
12	Overall Recruitment Experience	
13	Overall College facilities (ACOE)	

Suggest the area to be improved by students:

Any Other Suggestions:

Signature of the Employer

3.3.2 Provide results of evaluation of PO&PSO **(40)**

PO Attainment

Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C211	2.23	2.24										
C212	2.67	2.68	2.69	2.67	2.67							
C213	2.68	2.66			2.66							2.65
C214	2.71	2.72	2.67	2.65								
C215	2.61	2.66	2.59	2.75								2.73
C216	2.40		2.40			2.62						2.42
C217	2.63	2.63	2.63						2.63	2.63		
C218	2.44		2.44						2.38			
C219	2.44	2.64	2.45	2.71	2.43	2.70	2.45	2.73	2.61	2.55	2.91	2.65
C221	2.20	2.20	1.00									
C222	2.88	2.87	2.85									
C223	2.91	2.91	2.92	2.85			2.83					2.91
C224	2.26	2.24										
C225	2.69	2.69	2.68	2.63	2.68							
C226	2.07	2.09	2.08	2.07								
C227	2.90	2.88	2.88						2.89	2.88		
C228	2.44	2.44	2.44						2.44	2.44		
C311 A	2.29	2.30										
C311 B	2.83	2.86										
C312 A	2.61	2.61										
C312 B	2.62	2.62										
C313 A	2.06	2.06	2.05		2.03							
C313 B	2.70	2.69	2.68		2.62							
C314 A	2.32	2.21	2.16	1.35	2.08							2.32
C314 B	2.26	2.19	2.06	1.34	2.05							2.27
C315 A	2.12	2.11	2.12	2.12								2.10
C315 B	2.20	2.21	2.20	2.19								2.18
C316 A	2.77	2.77							2.77			
C316 B	2.67	2.67							2.67			
C317 A	2.46	2.47	2.48	2.46					2.46			

C317 B	2.54	2.54	2.53	2.54					2.54			
C318 A	2.57	2.54				2.56	2.53		2.55			2.56
C318 B	2.58	2.56				2.57	2.53		2.56			2.58
C321 A	2.72	2.75	2.66		2.66							2.71
C321 B	2.71	2.71	2.72		2.77							2.74
C322 A	2.24	2.23	2.28		2.20							
C322 B	2.67	2.69	2.72		2.73							
C323 A	2.78	2.77	2.77	2.92								
C323 B	2.81	2.83	2.80	2.80								
C324 A	2.77	2.76	2.76		2.76							
C324 B	2.79	2.78	2.77		2.73							
C325 A		2.87	2.83				2.79		2.78	2.81	2.81	
C325 B		2.76	2.75				2.79		2.73	2.77	2.76	
C326 A	2.67	2.67	2.68	2.71	2.71							2.67
C326 B	2.53	2.52	2.54	2.36	2.56							2.53
C327 A	2.49	2.47				2.47						2.46
C327 B	2.45	2.45				2.42						2.45
C328 A	2.60	2.60	2.59		2.60							2.57
C328 B	2.79	2.80	2.79		2.84							2.84
C411 A	2.69	2.68	2.64									
C411 B	2.69	2.69	2.72									
C412 A	2.00	1.99	2.01		2.00							
C412 B	2.53	2.55	2.55		2.54							
C413 A	2.13	2.14	2.14		2.13							
C413 B	2.66	2.65	2.67		2.65							
C414 A	2.19	2.03					2.25					2.36
C414 B	2.58	2.43					2.53					2.56
C415 A	2.70	2.70	2.70									2.70
C415 B	2.65	2.65	2.65									2.65
C416 A	2.64	2.64	2.61									
C416 B	2.31	2.30	2.28									
C417 A	2.65	2.65	2.65		2.64	2.62			2.66			2.60
C417 B	2.67	2.68	2.67		2.66	2.67			2.67			2.67
C418 A	2.75	2.92			2.68							2.66

C418 B	2.77	2.92			2.73							2.75
C421 A	2.57	2.56	2.60								2.62	2.51
C421 B	2.57	2.57	2.58								2.60	2.56
C422 A	2.67	2.63					2.64					
C422 B	2.67	2.63					2.64					
C423 A	2.60	2.63				2.59	2.59					2.51
C423 B	2.59	2.61				2.60	2.60					2.55
C424 A	2.58	2.56				2.56	2.57					
C424 B	2.69	2.70				2.68	2.70					
C425 A	2.54	2.54	2.54	2.54	2.54				2.54	2.54	2.54	
C425 B	2.47	2.47	2.47	2.47	2.47				2.47	2.47	2.47	
C426 A	2.74	2.70	2.79	2.73	2.70	2.72	2.82	2.76	2.77	2.76	2.75	2.62
C426 B	2.74	2.76	2.80	2.77	2.81	2.66	2.78	2.76	2.75	2.78	2.88	2.62

PO Attainment Level

CO - OVERALL ATTAINMNET	2.50	2.51	2.49	2.42	2.49	2.56	2.57	2.67	2.57	2.62	2.61	2.51
DIRECT ATTAINMENT	2.56	2.57	2.53	2.46	2.54	2.60	2.63	2.75	2.64	2.69	2.70	2.56
INDIRECT ATTAINMENT	2.29	2.29	2.29	2.28	2.29	2.36	2.35	2.36	2.31	2.37	2.26	2.29

PSO Attainments:

Course Name	PSO1	PSO2
C211	2.23	
C212	2.68	2.69
C213		2.68
C214	2.64	2.72
C215	2.65	2.53
C216		2.63
C217	2.63	2.62
C218	2.43	2.46
C219		2.77
C221	2.14	
C222	2.87	2.89
C223	2.91	2.83
C224	2.23	

C225		2.68
C226	2.07	2.08
C227	2.89	2.89
C228		2.43
C311 A	2.28	2.31
C311 B	2.82	2.71
C312 A	2.59	2.61
C312 B	2.63	2.62
C313 A	2.11	2.03
C313 B	2.64	2.73
C314 A	2.39	2.39
C314 B	2.35	2.34
C315 A	2.13	2.12
C315 B	2.21	2.17
C316 A	2.77	
C316 B	2.67	
C317 A	2.46	2.47
C317 B	2.54	2.54
C318 A	2.55	2.56
C318 B	2.56	2.57
C321 A	2.73	2.77
C321 B	2.71	2.71
C322 A	2.23	
C322 B	2.72	
C323 A	2.76	2.79
C323 B	2.81	2.82
C324 A	2.76	2.75
C324 B	2.77	2.79
C325 A		2.83
C325 B		2.78
C326 A	2.66	2.68
C326 B	2.54	2.52
C327 A	2.48	2.50
C327 B	2.42	2.47
C328 A	2.59	2.60
C328 B	2.82	2.82
C411 A	2.65	2.70
C411 B	2.70	2.69
C412 A	1.98	2.00
C412 B	2.58	2.53
C413 A	2.14	2.11

C413 B	2.66	2.58
C414 A	2.03	2.17
C414 B	2.43	2.61
C415 A	2.69	2.70
C415 B	2.65	2.66
C416 A	2.62	2.64
C416 B	2.26	2.29
C417 A	2.64	2.60
C417 B	2.66	2.66
C418 A	2.74	2.66
C418 B	2.77	2.67
C421 A	2.59	2.57
C421 B	2.59	2.58
C422 A	2.65	2.67
C422 B	2.65	2.67
C423 A	2.64	2.59
C423 B	2.64	2.59
C424 A	2.51	2.56
C424 B	2.72	2.69
C425 A	2.54	
C425 B	2.47	
C426 A	2.73	2.75
C426 B	2.76	2.78

PSO Attainment Level

CO ATTAINMNET	2.52	2.54
DIRECT ATTAINMENT	2.55	2.58
INDIRECT ATTAINMENT	2.39	2.39

******

CRITERION 4	Students' Performance	150

4. STUDENTS' PERFORMANCE (150)

Item (Information to be provided cumulatively for all the shifts with explicit headings wherever applicable)	2021-22 (CAY)	20-21 (CAYm1)	2019-20 (CAYm2)	2018-19 (CAYm3)	2017-18 (CAYm4)	2016-17 (CAYm5)	2015-16 (CAYm6)
Sanctioned intake of the Program (N)	120	120	180	180	180	180	180
Total number of students admitted in first year minus number of students migrated to other programs/institutions plus No. of students migrated to this program(N1)	24	32	6	16	17	23	139
No. of students admitted in 2nd year in the same batch via lateral entry(N2)	0	84	48	70	62	110	46
Separate division students if applicable(N3)	0	0	0	0	0	0	0
Total number of students admitted in the programme(N1+N2+N3)	24	116	54	86	79	133	185

Table: B4a

Year of Entry	Total No. of students admitted in the program (N1+N2+N3)	Number of students who have successfully graduated without backlogs in any semester/year of study (without backlog means no compartment or failure in any semester/year of study)			
		I Year	II Year	III Year	IV Year
2021-22 (CAY)	24	0	0	0	0
2020-21 (CAYm1)	116	3	0	0	0
2019-20 (CAYm2)	54	1	9	0	0
2018-19 (CAYm3)	86	2	19	13	10
2017-18 (LYG)	79	3	28	19	16
2016-17 (LYGm1)	133	2	45	26	22
2015-16 (LYGm2)	185	31	46	27	20

Table: B4b

Year of entry	Total No. of students admitted in the program (N1+N2+N3)	Number of students who have successfully graduated in the stipulated period of study (With backlogs+ Without Backlogs)			
		I Year	II Year	III Year	IV Year
2021-22 (CAY)	24	0	0	0	0
2020-21 (CAYm1)	116	113	113	0	0
2019-20 (CAYm2)	54	54	54	54	0
2018-19 (CAYm3)	86	83	82	81	40
2017-18 (LYG)	79	79	75	71	51
2016-17 (LYGm1)	133	132	127	127	87
2015-16 (LYGm2)	185	183	171	166	82

Table: B4c

4.1. Enrolment Ratio: Enrolment Ratio= N1/N **(20)**

AY	N (From Table 4.1)	N1 (From Table 4.1)	Enrolment ratio [(N1/N) *100]
2021-22(CAY)	120	24	20.00
2020-21(CAYm1)	120	32	26.67
2019-20(CAYm2)	180	6	3.33
Average [(ER1+ER2+ER3)/3]: 16.66		**Assessment: 0**	

Table B: 4.1

4.2 Success Rate in the stipulated period of the program (40)

4.2.1 Success Rate without backlogs in any semester/year of study (25)

Success rate without backlogs in any year of study = 25 * Average SI

SI = Mean of success index (SI) for past three batches

Item	LYG (2017-18)	LYGm1 (2016-17)	LYGm2 (2015-16)
X No. of students admitted in the corresponding First year+ admitted in lateral entry and special division	79	133	185

Y No. of students who have graduated without backlogs in the stipulated period	16	22	20
Success Index (SI= Y/X)	0.20	0.165	0.10
Average SI= (SI1+SI2+SI3)/3: 0.158	**Assessment [25*Average SI]: 3.96**		

Table B: 4.2.1

4.2.2 Success rate in stipulated period **(15)**

Success rate without backlogs in any year of study = 15 * Average SI

SI = Mean of success index (SI) for past three batches

Item	LYG (2017-18)	LYGm1 (2016-17)	LYGm2 (2015-16)
X No. of students admitted in the corresponding First year+ admitted in lateral entry and special division	79	133	185
Y No. of students who have graduated in the stipulated period	51	87	82
Success Index (SI= Y/X)	0.645	0.654	0.443
Average SI= (SI1+SI2+SI3)/3: 0.580	**Assessment [15*Average SI]: 8.71**		

Table B: 4.2.2

4.3 Academic Performance in third year **(15)**

Academic Performance	CAYm3 (2018-19)	LYG (2017-18)	LYGm1 (2016-17)
Mean of CGPA or mean percentage of all successful students(X)	7.43	7.54	7.72
Total Number of successful students (Y)	80	72	127
Total number of students appeared in the examination(Z)	82	75	127
API [X*(Y/Z)]	7.24	7.23	7.72
Average API [(AP1+AP2+AP3)]: 7.37	**Assessment [1.5* Average API]: 11.08**		

Table B: 4.3

4.4. Academic Performance in Second Year **(15)**

Academic Performance	CAYm2 (2019-20)	CAYm3 (2018-19)	LYG (2017-18)
Mean of CGPA or mean percentage of all successful students(X)	6.82	7.35	7.64
Total Number of successful students (Y)	54	82	76
Total number of students appeared in the examination(Z)	54	83	79
API [X*(Y/Z)]	6.82	7.26	7.35
Average API [(AP1+AP2+AP3)]: 7.14	**Assessment [1.5* Average API]: 10.71**		

Table B: 4.4

4.5 Placement Higher Studies and Entrepreneurship (40)

Item	LYG (2017-18)	LYGm1 (2016-17)	LYGm2 (2015-16)
Total Number of final year students (N)	71	127	166
No. of students placed in the companies or govt sector(X)	45	74	80
No. of students admitted to higher studies with qualifying GATE or equivalent state or National level tests, GRE GMAT etc (Y)	3	4	3
No. of students turned entrepreneur in engineering / technology(Z)	0	0	0
X+Y+Z=	48	78	83
Placement Index [(X+Y+Z)/N]:	0.676	0.614	0.50
Average Placement [P1+P2+P3/3]: 0.5966	**Assessment [40*Avg Placement]: 23.866**		

Table B: 4.5

4.5.a. Placement Data:

Program Name: B. Tech - Mechanical Engineering
Assessment Year Name: CAYm1

S.No.	Student Name	Enrollment No.	Employee Name	Appointment No.
1	Barnikala Tatajee	18MH5A0302	Hyundai Steel Chennai	09-01-2021
2	Borusu Loka Veera Sriram	18MH5A0304	Hyundai Steel Chennai	09-01-2021
3	Gudla Suresh	18MH5A0310	Hyundai Steel Chennai	09-01-2021
4	K D V S S Apparao	18MH5A0319	Hyundai Steel Chennai	09-01-2021
5	Kotipalli Narendra Kumar	18MH5A0321	Hyundai Steel Chennai	09-01-2021
6	Malladi Jaya Surya	18MH5A0324	Hyundai Steel Chennai	09-01-2021
7	Medapureddi Srinu	18MH5A0327	Hyundai Steel Chennai	09-01-2021
8	Medisetti Devi Prasad Raju	18MH5A0328	Hyundai Steel Chennai	09-01-2021
9	Mutyala Sai Manoj	18MH5A0330	Hyundai Steel Chennai	09-01-2021
10	Nalla Simhadri Dora	18MH5A0331	Hyundai Steel Chennai	09-01-2021
11	Nandipati Swamy	18MH5A0332	Hyundai Steel Chennai	09-01-2021
12	Nunnaboina Mallikarjuna Rao	18MH5A0333	Hyundai Steel Chennai	09-01-2021
13	Rayudu Karthik	18MH5A0339	Hyundai Steel Chennai	09-01-2021
14	Seeli John Moses	18MH5A0341	Hyundai Steel Chennai	09-01-2021
15	Somisetti Sateesh	18MH5A0343	Hyundai Steel Chennai	09-01-2021
16	S Veera Venkata Satyanarayana	18MH5A0344	Hyundai Steel Chennai	09-01-2021
17	Tallam N N V Ganesh	18MH5A0345	Hyundai Steel Chennai	09-01-2021
18	Vakada Ratna Prasad	18MH5A0347	Hyundai Steel Chennai	09-01-2021
19	Vasamsetti Gangadhara Sai	18MH5A0348	Hyundai Steel Chennai	09-01-2021
20	Voleti Satya Teja	18MH5A0349	Hyundai Steel Chennai	09-01-2021
21	Mylapilli Rajesh	18MH5A0353	Hyundai Steel Chennai	09-01-2021
22	Vaddi Siva Surya Sai Durga	18MH5A0359	Hyundai Steel Chennai	09-01-2021

23	Alluri Hemanth Kumar	18MH5A0301	AVTECH Hosur TN	27-01-2021
24	Chittem Nagendra Babu	18MH5A0306	AVTECH Hosur TN	27-01-2021
25	Inumarthi Satya Veera Lokesh	18MH5A0312	AVTECH Hosur TN	27-01-2021
26	Jilagam Hema Suresh	18MH5A0314	Cognizant	27-01-2021
27	Panthadi Sathish Kumar	18MH5A0334	AVTECH Hosur TN	27-01-2021
28	Pedavegi Surya Sai Teja	18MH5A0336	AVTECH Hosur TN	27-01-2021
29	Khandavilli Sai Datta	18MH5A0317	Daejoo Automotive	05-04-2021
30	Gollavilli V V Satya Sai Ravi Teja	18MH5A0308	Daejoo Automotive	05-04-2021
31	Gooda Murali Krishna	18MH5A0309	Daejoo Automotive	05-04-2021
32	Manepalli Hema Veera Manikanta	18MH5A0325	Daejoo Automotive	05-04-2021
33	Lakkasani Rekha Durga Mani	18MH5A0323	Hitech Arai Chokikulam TN	05-04-2021
34	Pitla Surekha	18MH5A0337	Hitech Arai Chokikulam TN	05-04-2021
35	S Samuel Raju	18MH5A0358	Surya Tech Solutions Hyd	03-02-2021
36	K Bala Murali	18MH5A0315	Surya Tech Solutions Hyd	03-02-2021
37	B Likiteshwar	17MH1A0301	Aakash Exploration Services LTD	29-08-2021
38	Syed Salman Ahamed	17MH1A0314	Aakash Exploration Services LTD	29-08-2021
39	Challapalli Venkatesh	18MH5A0305	CADSYS	19-02-2022
40	J Balaji	18MH5A0313	Cognizant	01-09-2021
41	Kola Harish	18MH5A0318	Infosys	04-11-2021
42	R Eswara Vara Prasad	18MH5A0338	CADSYS	28-01-2022
43	B Jaya Sankar	18MH5A0352	Infosys	07-11-2021
44	Y Sai Kumar	18MH5A0351	Infosys	02-03-2022
45	Y Sai Charan	18MH5A0350	CADSYS	04-04-2022

Table: 4.2.a.1

Assessment Year Name: CAYm2

S.No.	Student Name	Enrollment No.	Employee Name	Appointment No.
1	Chalamuri Hareesh	17MH5A0349	Hyundai Steel Chennai	08-07-2019
2	Katta Niteesh	17MH5A0362	Hyundai Steel Chennai	08-07-2019
3	Mentu Pavan Kumar	17MH5A0323	Hyundai Steel Chennai	08-07-2019
4	K Umakiran Rama Sandeep	17MH5A0314	Hyundai Steel Chennai	08-07-2019
5	Anusuri Veera Venkata Vijay Kumar	17MH5A0391	Hyundai Steel Chennai	08-07-2019
6	Bavirisetti Durga Prasad	17MH5A0397	Hyundai Steel Chennai	08-07-2019
7	Yarrabathula Ajay Raja	17MH5A0336	Daejoo Auto India	30-08-2019
8	Rapeti Swami Venkata Naga Sailendra	17MH5A0381	Daejoo Auto India	30-08-2019
9	Nulu Mohan Kumar	17MH5A0374	Kwang Jin India	30-08-2019
10	Koppisetti Sai Laxman	17MH5A0364	Surya Tech Solutions	18-09-2019
11	Matsa Sai Raju	17MH5A0322	Surya Tech Solutions	18-09-2019
12	Nellipudi Hemanth Satya Naga Sekhar	17MH5A0327	Surya Tech Solutions	18-09-2019
13	Chikoti Ramaraju	17MH5A0307	Extra Marks	11-02-2020
14	Nagam Chakrababu	17MH5A0325	Woosu Automotive	13-12-2019
15	Dasari Ayyappa	17MH5A0338	Woosu Automotive	13-12-2019
16	Amujuri Sai Venkat	17MH5A0302	Kwang Sung Brake India	14-12-2019
17	Diddi Srinivas	17MH5A0309	Kwang Sung Brake India	14-12-2019
18	Sanapala Koteswara Rao	17MH5A0315	Kwang Sung Brake India	14-12-2019
19	Karri Bhaskar Pavan Kumar	17MH5A0316	Kwang Sung Brake India	14-12-2019
20	Jakkilinki Sunil Kumar	17MH5A0359	Kwang Sung Brake India	14-12-2019
21	Akula Jyothiswaroop	17MH5A0375	Kwang Sung Brake India	14-12-2019
22	Kallempudi Durga Ganesh Kuamr	17MH5A0313	YSI Automotive	09-01-2020
23	Vanka Revanth Chandrakiran	17MH5A0335	YSI Automotive	09-01-2020

24	Akula Kasi Viswanath	17MH5A0337	YSI Automotive	09-01-2020
25	Chukka Varun Kumar	17MH5A0351	YSI Automotive	09-01-2020
26	Anamalamuri Kalesha	17MH5A0353	YSI Automotive	09-01-2020
27	Esarapu Vinod Kumar Yadav	17MH5A0354	YSI Automotive	09-01-2020
28	K V Satya Siva Durga Prasad	17MH5A0363	YSI Automotive	09-01-2020
29	Manyam Venkata Murali Krishna	17MH5A0367	YSI Automotive	09-01-2020
30	Masthan Mohiddin Baig	17MH5A0369	YSI Automotive	09-01-2020
31	Rapeti Vinod Kumar	17MH5A0382	YSI Automotive	09-01-2020
32	Thota Venkata Suri	17MH5A0386	YSI Automotive	09-01-2020
33	Tirumalasetti Rishi kumar	17MH5A0399	YSI Automotive	09-01-2020
34	Kona Vijay Prakash	17MH5A03A3	YSI Automotive	09-01-2020
35	Bonthu Sai Kumar	17MH5A03A5	YSI Automotive	09-01-2020
36	Anasuri Satish	17MH5A03A6	YSI Automotive	09-01-2020
37	Ch.SVN Datta Ravi Kumar	17MH5A03B0	YSI Automotive	09-01-2020
38	Boppana Jyothi Maheswar	17MH5A0306	Global Auto Components	29-01-2020
39	Bandaru Siva Surya Narayana	17MH5A03A7	Global Auto Components	29-01-2020
40	Udata Pavan	17MH5A0387	Global Auto Components	29-01-2020
41	Burela Adish Raghu Kumar	17MH5A0305	Sintex BAPL Chennai	30-01-2020
42	Doodi Satish	17MH5A0310	Sintex BAPL Chennai	30-01-2020
43	Allaka Harish Kumar	17MH5A0352	Sintex BAPL Chennai	30-01-2020
44	Ch Kiran	16MH1A0302	United Industries Chennai	30-01-2020
45	Nukella Venkatesh	17MH5A0373	United Industries Chennai	30-01-2020
46	MVSS Phaneendra Gupta	16MH1A0313	Kwang Sung Brake India	14-12-2019
47	Panchadi Veera Nagendra Vinay	16MH1A0316	Surya Tech Solutions	18-09-2019
48	Shiv Kumar	16MH1A0322	Kwang Sung Brake India	14-12-2019

49	Bommotula Subrahmanyam	17MH5A0303	Surya Tech Solutions	18-09-2019
50	Annamsetti Veera Ganesh	17MH5A0304	Surya Tech Solutions	18-09-2019
51	Adapa Bhaskara Saya Naga Sai	17MH5A0301	Kwang Jin India Tamilnadu	30-08-2019
52	Duryodhanula Rajesh	17MH5A0311	United Industries Chennai	30-01-2020
53	Ellingi Ganesh Kumar Varma	17MH5A0312	United Industries Chennai	30-01-2020
54	Singareddy Nagaraju	17MH5A0334	Sintex BAPL Chennai	30-01-2020
55	Nagam Satya Siva Ramakrishna	17MH5A0370	Sintex BAPL Chennai	30-01-2020
56	Sandaka Chinni Krishna	17MH5A0383	SL Lumax Tamilnadu	28-09-2020
57	Gadi Lova Saikumar	17MH5A0384	SL Lumax Tamilnadu	28-09-2020
58	Somina Naga Sri Sai Aditya	17MH5A0385	SL Lumax Tamilnadu	28-09-2020
59	Palli Bhargav Sai	17MH5A0377	United Industries Chennai	30-01-2020
60	Potula Ganga Venkata Swami	17MH5A0379	United Industries Chennai	30-01-2020
61	Kornu Dhanunjaya	17MH5A0318	Fecund Software Services	08-09-2021
62	Kosana Nagendra	17MH5A0319	TCS	11-07-2021
63	Nagalla Srinivas	17MH5A0324	Vision India	10-06-2021
64	P Durga Ganesh	17MH5A0329	Vision India	10-06-2021
65	R Durga Nagaraju	17MH5A0330	Vision India	03-01-2022
66	Vallu Rajesh	17MH5A0343	Vision India	10-08-2021
67	I Ravi Teja	17MH5A0358	CADSYS	11-06-2021
68	Joka Satish	17MH5A0360	Fecund Software Services	05-08-2021
69	K Surya Prakash	17MH5A0365	TCS	04-06-2021
70	N V Venkata Ramana	17MH5A0371	CADSYS	12-11-2021
71	Chalamuri Swathi	17MH5A0395	CADSYS	15-11-2021
72	Dangeti Pavan Kumar	17MH5A03A1	Fecund Software Services	01-06-2021
73	G Audeep Kumar	17MH5A0393	Fecund Software Services	16-08-2021

74	D Siva Ganesh	17MH5A0376	TCS	15-09-2021

Table: 4.5.a.2

Assessment Year Name: CAYm3

S. No	Student Name	Enrollment No.	Employee Name	Appointment No.
1	G Sairam	15MH1A0386	Surya Tech Solutions	12-02-2019
2	G Durga Prasad	15MH1A0390	Surya Tech Solutions	12-02-2019
3	D Veera babu	15MH1A0310	Surya Tech Solutions	12-02-2019
4	M Venkata Chaitanya Reddy	15MH1A0368	Surya Tech Solutions	12-02-2019
5	S Babi	15MH1A03C4	Surya Tech Solutions	12-02-2019
6	M Jagadeesh	16MH5A0324	Surya Tech Solutions	12-02-2019
7	N Veera Bhadri Raju	16MH5A0331	Surya Tech Solutions	12-02-2019
8	S Rama Subrahmanyam	15MH1A0341	Surya Tech Solutions	12-02-2019
9	T Suneel	15MH1A0342	Surya Tech Solutions	12-02-2019
10	Duvva Avinash	15MH1A0311	Surya Tech Solutions	12-02-2019
11	Eda Hemanth	15MH1A0312	Surya Tech Solutions	12-02-2019
12	Gali Siva Kumar	15MH1A0314	Surya Tech Solutions	12-02-2019
13	G N V S Manikanta	15MH1A0317	Surya Tech Solutions	12-02-2019
14	K Eswara Durga Saran	15MH1A0339	Surya Tech Solutions	12-02-2019
15	G Satish Kumar	16MH5A0316	NVH India Tamilnadu	23-02-2019
16	Borra Venkata Sai Kiran	15MH1A0378	NVH India Tamilnadu	23-02-2019
17	Gurrala Sathibabu	15MH1A0395	NVH India Tamilnadu	23-02-2019
18	Satya Kumar Konagalla	16MH5A0321	NVH India Tamilnadu	23-02-2019
19	Yarrajarla Suribabu	16MH5A0345	NVH India Tamilnadu	23-02-2019
20	K V S Anik Kumar	16MH5A0323	NVH India Tamilnadu	23-02-2019

21	Vattam Pushpak	15MH1A03C8	NVH India Tamilnadu	23-02-2019
22	Malladi Jagannadh	15MH1A03A9	NVH India Tamilnadu	23-02-2019
23	A V S Manikantha	15MH1A0301	NVH India Tamilnadu	23-02-2019
24	Katheti Pradeep	16MH5A0320	Kwang Jin India Chennai	11-03-2019
25	Posina Apparao	15MH1A0357	Kwang Jin India Chennai	11-03-2019
26	P Lakshmi Surya Varaprasad	15MH1A0358	Kwang Jin India Chennai	11-03-2019
27	Vanamadi Govardhana Raju	15MH1A0366	Kwang Jin India Chennai	11-03-2019
28	Jyothula Ravi Kumar	15MH1A0397	Kwang Jin India Chennai	11-03-2019
29	K Leela Sainadh	15MH1A0398	Kwang Jin India Chennai	11-03-2019
30	Battula Dharma Teja	15MH1A0377	Nandee Networks	18-03-2019
31	B Siva Kumar	15MH1A0379	Nandee Networks	18-03-2019
32	P Vijay Kumar	15MH1A03B6	Nandee Networks	18-03-2019
33	Mekala Ramadevi	16MH5A0315	Krisam Automation	15-03-2019
34	M Bhanu Ramesh Raja	15MH1A0340	IB Hubs Hyderabad	06-04-2019
35	K Bala Ganga Ramakrishna	16MH5A0319	Aakash Exploration	20-08-2019
36	Betha Manikanta	16MH5A0307	Aakash Exploration	20-08-2019
37	Bheemireddi Durga Prasad	16MH5A0308	HCL Technologies	17-01-2020
38	Chennuri Murali Mohan	16MH5A0309	Cognizant	16-05-2020
39	Dorasetti Naveen Sai	16MH5A0311	CADSYS	07-11-2021
40	Dwara Avinash Durga Prasad	16MH5A0312	Aakash Exploration	01-09-2020
41	Ch Suresh	15MH1A0306	HCL Technologies	11-05-2020
42	D Vamsi Krishna	15MH1A0307	CADSYS	10-09-2019
43	I Jyothi Brahmesh	15MH1A0323	Infosys	20-05-2021
44	K Tharun Babu	15MH1A0329	Aakash Exploration	10-09-2019
45	Kona Kamalakar	15MH1A0335	Infosys	20-05-2021

46	K V V V Satyanarayana	15MH1A0336	HCL Technologies	11-09-2019
47	K Ayyappa	15MH1A0337	Aakash Exploration	20-06-2020
48	N N Chandra Sekhar	15MH1A0351	Fecund Software Services	17-06-2021
49	Palli Satish	15MH1A0352	Virtusa	22-02-2022
50	B Rajesh	15MH1A0376	TCS	17-06-2021
51	Ch. Uma maheswarrao	15MH1A0381	Cognizant	10-01-2020
52	K Sampath Kumar	15MH1A03A0	HCL Technologies	15-10-2021
53	K Venkata Rajesh	15MH1A03A1	Virtusa	01-11-2020
54	K Manikanta	15MH1A03A2	Fecund Software Services	25-07-2020
55	K Sai Dhanraj	15MH1A03A5	Hinduja Gloabal Services	19-11-2019
56	Panneru Siva	15MH1A03B5	HCL Technologies	17-03-2022
57	T Durga Prasad	15MH1A03C7	TCS	29-08-2020
58	T Gopi	15MH1A03D0	Hinduja Gloabal Services	27-03-2021
59	U Murali Rama Ganesh	15MH1A03D3	HCL Technologies	10-09-2019
60	M Vijay Kumar	15MH1A03D5	Fecund Software Services	18-10-2021
61	A Bhargava Sandhya	16MH5A0301	Infosys	21-11-2020
62	A Gowri	16MH5A0302	Cognizant	10-02-2022
63	A Veerababu	16MH5A0303	Infosys	20-04-2022
64	B Ayyappa	16MH5A0304	Vision India	02-01-2022
65	B Bhargav	16MH5A0305	Hinduja Gloabal Services	05-05-2022
66	L Satya Manasa	16MH5A0314	TCS	09-11-2020
67	K Srinivas	16MH5A0317	Hinduja Global Services	16-08-2020
68	K Sai Varaprasad	16MH5A0322	CADSYS	22-08-2021
69	M Satish Chandra	16MH5A0325	Jaidka Power systems PVT	25-09-2019
70	M Durgarao	16MH5A0326	Infosys	07-10-2019

71	M Sandeep Kumar Reddy	16MH5A0327	Cognizant	11-11-2020
72	M Sri Krishna	16MH5A0328	TCS	10-05-2021
73	M Durga Teja	16MH5A0329	CADSYS	01-09-2021
74	N Ayodhya Ram Prasad	16MH5A0330	Virtusa	23-12-2021
75	Nedunuri Venkat	16MH5A0332	Fecund Software Services	12-07-2020
76	P K N K S Venkata Reddy	16MH5A0333	Jaidka Power systems PVT	14-10-2021
77	P J Phaneendra Swamy	16MH5A0334	Cognizant	19-07-2021
78	Pusala Anil	16MH5A0335	Infosys	28-03-2021
79	S N V S S Ganesh	16MH5A0337	Jaidka Power systems PVT	04-01-2021
80	Thota Suneel	16MH5A0342	Jaidka Power systems PVT	23-11-2021

Table: 4.5.a.3

4.6. Professional Activities **(20)**

4.6.1. Professional Societies / Chapters and Organizing Engineering Events **(5)**

Student Professional Membership Details:

S. No.	Permanent Roll No.	Name of the Candidate	Year of Membership	Name of Membership
1	20MH1A0301	Andra Siva Kumar	Apr-22	SAE INDIA
2	20MH1A0304	Arasavalli Balamanikanta	Apr-22	SAE INDIA
3	20MH1A0310	Dwarapureddi Hema Sai Sundharam	Apr-22	SAE INDIA
4	20MH1A0315	Kotipalli V V Dattababu	Apr-22	SAE INDIA
5	21MH5A0302	Adigarla Ramkumar	Apr-22	SAE INDIA
6	21MH5A0304	Allumali Ganesh	Apr-22	SAE INDIA
7	21MH5A0306	Aripaka Bharath	Apr-22	SAE INDIA
8	21MH5A0309	Bora Sasikumar	Apr-22	SAE INDIA
9	21MH5A0314	D Chanti	Apr-22	SAE INDIA
10	21MH5A0313	Dara Manikumar	Apr-22	SAE INDIA
11	21MH5A0315	Earabathula Ashok Surendra	Apr-22	SAE INDIA

12	21MH5A0318	Kadium Giribabu	Apr-22	SAE INDIA
13	21MH5A0319	Kadiyala Venkata Sai Krishna Apparao	Apr-22	SAE INDIA
14	21MH5A0323	K Raghuram	Apr-22	SAE INDIA
15	21MH5A0320	Kaki Kiran	Apr-22	SAE INDIA
16	21MH5A0327	Kesavarapu Veera Babu	Apr-22	SAE INDIA
17	21MH5A0330	Konada Veera Venkata Sarath Vamsi	Apr-22	SAE INDIA
18	21MH5A0331	Konathala Yaswanth	Apr-22	SAE INDIA
19	21MH5A0336	Machineni Sagar	Apr-22	SAE INDIA
20	21MH5A0337	Madhavarapu Sai Satya Veer	Apr-22	SAE INDIA
21	21MH5A0339	Matta Jithendra Venkata Prakash	Apr-22	SAE INDIA
22	21MH5A0340	Musini Maheshwar	Apr-22	SAE INDIA
23	20MH1A0323	Pataballa Ravi Surya	Apr-22	SAE INDIA
24	20MH1A0330	V Sathyateja	Apr-22	SAE INDIA
25	21MH5A0341	Palivela Prasanth Kumar	Apr-22	SAE INDIA
26	21MH5A0342	Palla Krishna Prasad	Apr-22	SAE INDIA
27	21MH5A0344	Pandi Sudheer	Apr-22	SAE INDIA
28	21MH5A0345	Pandiripalli Daniel	Apr-22	SAE INDIA
29	21MH5A0346	Peddisetty Ruchit Vignesh	Apr-22	SAE INDIA
30	21MH5A0347	P Durga Prasad	Apr-22	SAE INDIA
31	21MH5A0354	Rasakonda Naga Sandeep	Apr-22	SAE INDIA
32	21MH5A0363	Gokarakonda Swamy	Apr-22	SAE INDIA
33	21MH5A0365	Undrajavarapu Sarathkumar	Apr-22	SAE INDIA
34	21MH5A0369	Vobbilisetty Bharat Sai	Apr-22	SAE INDIA
35	21MH5A0373	Lanka Varun	Apr-22	SAE INDIA
36	21MH5A0375	Yasani Ravi Kiran	Apr-22	SAE INDIA
37	21MH5A0378	Korada Netaji	Apr-22	SAE INDIA
38	21MH5A0381	Ravada Loknadh	Apr-22	SAE INDIA
39	20MH5A0307	Bosetti Satya Sai Ram	APR-2021	SAE INDIA

40	20MH5A0310	Dasari Chandra Shekhar	APR-2021	SAE INDIA
41	20MH5A0327	Koppisetti Chandu Sai Venkata Ganesh	APR-2021	SAE INDIA
42	20MH5A0328	Koppisetti Likhith Venkat Vinay	APR-2021	SAE INDIA
43	20MH5A0332	Narala Prasanth	APR-2021	SAE INDIA
44	20MH5A0333	Pappu Ravishankar	APR-2021	SAE INDIA
45	20MH5A0347	Teki Veera Venkata Thammanna Dora	APR-2021	SAE INDIA
46	20MH5A0303	Ande Veerakumar	MAR-2022	SAE INDIA
47	20MH5A0304	Balla Prem Ganapathi	MAR-2022	SAE INDIA
48	20MH5A0305	Barre Deepak Varma	MAR-2022	SAE INDIA
49	20MH5A0306	Bochula Phani Bhushan	MAR-2022	SAE INDIA
50	20MH5A0309	Choudalla Teja Madhu Krishnasudheer	MAR-2022	SAE INDIA
51	20MH5A0312	Done Sri Datta Sai Gangadhar	MAR-2022	SAE INDIA
52	20MH5A0313	Gandikota Nani Lova Vara Prasad	MAR-2022	SAE INDIA
53	20MH5A0314	Gandipadala Vijaya Mouli	MAR-2022	SAE INDIA
54	20MH5A0315	Ganji Singa Sai Ram	MAR-2022	SAE INDIA
55	20MH5A0316	Geddam Nagendra	MAR-2022	SAE INDIA
56	20MH5A0317	Gopi Harshavardhan	MAR-2022	SAE INDIA
57	20MH5A0318	Gorlu Sudheer	MAR-2022	SAE INDIA
58	20MH5A0319	Gubbala Sai Suresh	MAR-2022	SAE INDIA
59	20MH5A0320	Jilakarra Ravi Kumar	MAR-2022	SAE INDIA
60	20MH5A0342	Routhu Manikanta	MAR-2022	SAE INDIA
61	20MH5A0344	Sesetti Srinuvasu	MAR-2022	SAE INDIA
62	20MH5A0345	Siripalli Ramakrishna	MAR-2022	SAE INDIA
63	20MH5A0346	Tanari Sridhar	MAR-2022	SAE INDIA
64	18MH1A0301	Bhallam Sai Suraj Varma	APR-2021	SAE INDIA
65	18MH1A0302	Javvadhi Ganesh	APR-2021	SAE INDIA
66	19MH5A0301	Adabala Ramachakra	APR-2021	SAE INDIA
67	19MH5A0320	Hari Krishna Challa	APR-2021	SAE INDIA

68	19MH5A0324	Kandregula Abhiram	APR-2021	SAE INDIA
69	19MH5A0327	Ketha Manikanta	APR-2021	SAE INDIA
70	19MH5A0345	Nidrabingi Veera Venkata Lova Raju	APR-2021	SAE INDIA
71	19MH5A0353	Yedla Ganesh Babu	APR-2021	SAE INDIA
72	19MH5A0354	Pendyala Pradeep	APR-2021	SAE INDIA
73	19MH5A0360	Swamireddy Sri Teerdha Ganga Sita Ram	APR-2021	SAE INDIA
74	19MH5A0364	Torati Siva Nagu	APR-2021	SAE INDIA
75	19MH5A0366	Uppada Surendra	APR-2021	SAE INDIA
76	19MH5A0368	Vattikuti Pavan Venkata Satya Sri Charan	APR-2021	SAE INDIA
77	19MH5A0370	Yalla Satish	APR-2021	SAE INDIA

4.6.2. Publication of Technical Magazines, Newsletters, etc. **(5)**

Department of Mechanical Engineering publishes newsletters and magazines with a frequency of publication as follows.

A.Y: 2021-22

S.No.	Name of the publication	Frequency	Availability of material
1	Mechanical Times Newsletter	Half Yearly	Offline
2	Mechanical Magazine (YANTRIK JAGARAN)	Yearly	Offline

A.Y: 2020-21

S.No.	Name of the publication	Frequency	Availability of material
1	Mechanical Times Newsletter	Half Yearly	Offline
2	Mechanical Magazine (YANTRIK JAGARAN)	Yearly	Offline

A.Y: 2019-20

S.No.	Name of the publication	Frequency	Availability of material
1	Mechanical Times Newsletter	Half Yearrly	Offline
2	Mechanical Magazine (YANTRIK JAGARAN)	Yearly	Offline

4.6.3 Participation in inter institute events by students of program of study (10)

Activities attended for 3 years-summary

AY	No. of events	No. of participants	No. of prize/won/award/reward	Level (In: Univ: S: N)
2020-21	1	6	2	National Level
2019-20	4	61	5	National Level
2018-19	4	86	8	National Level

List of students participated in various events:

A.Y: 2020 – 21

Sl.No.	Name of the student	Name of the event	Venue	Date	Award/Reward
1	K Sai Karthik	Veda 2021	Aditya College of Engineering & Technology	15 September 2021	III Prize
2	Ch Hari Krishna	Veda 2021	Aditya College of Engineering & Technology	15 September 2021	Participation
3	Ketha Manikanta	Veda 2021	Aditya College of Engineering & Technology	15 September 2021	Participation
4	N Sandeep Kumar	Veda 2021	Aditya College of Engineering & Technology	15 September 2021	Participation
5	P Durga Reddy	Veda 2021	Aditya College of Engineering & Technology	15 September 2021	Participation
6	S Ganga Sita Ram	Veda 2021	Aditya College of Engineering & Technology	15 September 2021	II Prize

A.Y: 2019 – 20

S.No.	Name of the Student	Name of the event	Venue	Date of the event	Remarks
1	Diddi Srinivas	Medha 2K19 (Poster)	GIER	13 Sep 2019	III Prize
2	J Sunil Kumar	Medha 2K19 (PPT)	GIER	13 Sep 2019	II Prize
3	N Mallikarjuna Rao	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best Design)
4	Khandavilli Sai Datta	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best Design)
5	R Eswara Vara Prasad	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best Design)
6	G Praveen Kumar	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best Design)
7	S Yeswanth Manohar Naidu	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best Design)
8	P Sathish Kumar	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best Design)
9	Alluri Hemanth	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best Design)
10	R John Prasad	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best Design)
11	Rayudu Karthik	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best Design)
12	Ketha Venkat	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best Design)
13	M H Manikanta	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best Design)
14	V Ratna Prasad	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best Design)
15	V Gangadhar Sai	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best Design)
16	M Sai Manoj	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best Design)
17	U Ashok	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best Manoeuvrability)
18	Pappu Surya Kiran	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best Manoeuvrability)
19	B krishna Prasad	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best Manoeuvrability)
20	Ch Venkatesh	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best Manoeuvrability)
21	V Rajesh	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best) Manoeuvrability)
22	GL Narayana	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best Manoeuvrability)
23	Ch Nagendra Prasad	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best Manoeuvrability)

24	S Sravan Durgaram	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best Manoeuvrability)
25	K Manoj Kumar	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best Manoeuvrability)
26	S Samuel Raju	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best Manoeuvrability)
27	D Veera Babu	Stepcone 2020	GMRIT-Rajam	30 Jan-2 Feb 2020	I Prize (Best Manoeuvrability)
28	R Naveen Raju	BAJA SAE India	Chitkara University	05 March 2020	II Prize
29	L Sai Kumar	BAJA SAE India	Chitkara University	05 March 2020	II Prize
30	NSS Aditya	BAJA SAE India	Chitkara University	05 March 2020	II Prize
31	V Revanth Chandra Kiran	BAJA SAE India	Chitkara University	05 March 2020	II Prize
32	Ch Harish	BAJA SAE India	Chitkara University	05 March 2020	II Prize
33	G Anudeep Kumar	BAJA SAE India	Chitkara University	05 March 2020	II Prize
34	V Sita Rama Swamy	BAJA SAE India	Chitkara University	05 March 2020	II Prize
35	E Ganesh Kumar	BAJA SAE India	Chitkara University	05 March 2020	II Prize
36	V Rajesh	BAJA SAE India	Chitkara University	05 March 2020	II Prize
37	U Kalyan	BAJA SAE India	Chitkara University	05 March 2020	II Prize
38	P Veerababu	BAJA SAE India	Chitkara University	05 March 2020	II Prize
39	Shiv Kumar	BAJA SAE India	Chitkara University	05 March 2020	II Prize
40	D Pavan Kumar	BAJA SAE India	Chitkara University	05 March 2020	II Prize
41	K Sai Laxman	BAJA SAE India	Chitkara University	05 March 2020	II Prize
42	S Chinni Krishna	BAJA SAE India	Chitkara University	05 March 2020	II Prize
43	Ch Markandeyulu	BAJA SAE India	Chitkara University	05 March 2020	II Prize
44	G Hemanth	BAJA SAE India	Chitkara University	05 March 2020	II Prize
45	S Durga Ram	BAJA SAE India	Chitkara University	05 March 2020	II Prize
46	T Ganesh	BAJA SAE India	Chitkara University	05 March 2020	II Prize
47	M Sai Manoj	BAJA SAE India	Chitkara University	05 March 2020	II Prize

48	K Apparao	BAJA SAE India	Chitkara University	05 March 2020	II Prize
49	VSSS Durga	BAJA SAE India	Chitkara University	05 March 2020	II Prize
50	K Pavan	BAJA SAE India	Chitkara University	05 March 2020	II Prize
51	K Narendra Kumar	BAJA SAE India	Chitkara University	05 March 2020	II Prize
52	Ch .Kiran	SAE-NIS Efficycle	LPU Punjab	Oct 2019	II Prize
53	B Subrahmanyam	SAE-NIS Efficycle	LPU Punjab	Oct 2019	II Prize
54	Ch Ramaraju	SAE-NIS Efficycle	LPU Punjab	Oct 2019	II Prize
55	P G N U S Chowdary	SAE-NIS Efficycle	LPU Punjab	Oct 2019	II Prize
56	U Pavan	SAE-NIS Efficycle	LPU Punjab	Oct 2019	II Prize
57	V Surya Teja	SAE-NIS Efficycle	LPU Punjab	Oct 2019	II Prize
58	Ch Hemanth	SAE-NIS Efficycle	LPU Punjab	Oct 2019	II Prize
59	K U Sandeep	SAE-NIS Efficycle	LPU Punjab	Oct 2019	II Prize
60	K Srinivas	SAE-NIS Efficycle	LPU Punjab	Oct 2019	II Prize
61	K Elisha Raju	SAE-NIS Efficycle	LPU Punjab	Oct 2019	II Prize

A.Y: 2018-19

Sl.No.	Name of the Student	Name of the event	Venue	Date of the event	Remarks
1	B Bharat	BAJA SAE India 2019	Chitkara university	13 -14 July 2018	Qualifier
2	G Siva Kumar	BAJA SAE India 2019	Chitkara university	13 -14 July 2018	Qualifier
3	G D Srinivas Swamy	BAJA SAE India 2019	Chitkara university	13 -14 July 2018	Qualifier
4	I Jyothi Brahmesh	BAJA SAE India 2019	Chitkara university	13 -14 July 2018	Qualifier
5	K Tharun Babu	BAJA SAE India 2019	Chitkara university	13 -14 July 2018	Qualifier
6	K Ganesh Koushik	BAJA SAE India 2019	Chitkara university	13 -14 July 2018	Qualifier
7	K Krishna Kireeti	BAJA SAE India 2019	Chitkara university	13 -14 July 2018	Qualifier
8	M B Ramesh Raja	BAJA SAE India 2019	Chitkara university	13 -14 July 2018	Qualifier
9	Ch Sravan Sudheer	BAJA SAE India 2019	Chitkara university	13 -14 July 2018	Qualifier

10	L Sai Surya	BAJA SAE India 2019	Chitkara university	13 -14 July 2018	Qualifier
11	J Anil Kumar	BAJA SAE India 2019	Chitkara university	13 -14 July 2018	Qualifier
12	M Vijay Kumar	BAJA SAE India 2019	Chitkara university	13 -14 July 2018	Qualifier
13	Shiv Kumar	BAJA SAE India 2019	Chitkara university	13 -14 July 2018	Qualifier
14	A Veera Babu	BAJA SAE India 2019	Chitkara university	13 -14 July 2018	Qualifier
15	B Bhargav	BAJA SAE India 2019	Chitkara university	13 -14 July 2018	Qualifier
16	P K N K S Reddy	BAJA SAE India 2019	Chitkara university	13 -14 July 2018	Qualifier
17	S Sai Prasad	BAJA SAE India 2019	Chitkara university	13 -14 July 2018	Qualifier
18	R Naveen Raju	BAJA SAE India 2019	Chitkara university	13 -14 July 2018	Qualifier
19	G Sairam	BAJA SAE India 2019	Chitkara university	13 -14 July 2018	Qualifier
20	Ch Varun Kumar	BAJA SAE India 2019	Chitkara university	13 -14 July 2018	Qualifier
21	K Narendra	BAJA SAE India 2019	Chitkara university	13 -14 July 2018	Qualifier
22	S Chinni Krishna	BAJA SAE India 2019	Chitkara university	13 -14 July 2018	Qualifier
23	E Hemanth	BAJA SAE India 2019	Chitkara university	13 -14 July 2018	Qualifier
24	P K N S V Reddy	Intramural	Aditya Institutions	1 to 7 Sep 2018	Winner
25	B Bharat	BAJA SAE India	NATRAX Pithampur	23 to 27 Jan 2019	Finalist
26	G Siva Kumar	BAJA SAE India	NATRAX Pithampur	23 to 27 Jan 2019	Finalist
27	G D Srinivas Swamy	BAJA SAE India	NATRAX Pithampur	23 to 27 Jan 2019	Finalist
28	I Jyothi Brahmesh	BAJA SAE India	NATRAX Pithampur	23 to 27 Jan 2019	Finalist
29	K Tharun Babu	BAJA SAE India	NATRAX Pithampur	23 to 27 Jan 2019	Finalist
30	K Ganesh Koushik	BAJA SAE India	NATRAX Pithampur	23 to 27 Jan 2019	Finalist
31	K Krishna Kireeti	BAJA SAE India	NATRAX Pithampur	23 to 27 Jan 2019	Finalist
32	M B Ramesh Raja	BAJA SAE India	NATRAX Pithampur	23 to 27 Jan 2019	Finalist
33	Ch Sravan Sudheer	BAJA SAE India	NATRAX Pithampur	23 to 27 Jan 2019	Finalist
34	L Sai Surya	BAJA SAE India	NATRAX Pithampur	23 to 27 Jan 2019	Finalist

35	J Anil Kumar	BAJA SAE India	NATRAX Pithampur	23 to 27 Jan 2019	Finalist
36	M Vijay Kumar	BAJA SAE India	NATRAX Pithampur	23 to 27 Jan 2019	Finalist
37	Shiv Kumar	BAJA SAE India	NATRAX Pithampur	23 to 27 Jan 2019	Finalist
38	A Veera Babu	BAJA SAE India	NATRAX Pithampur	23 to 27 Jan 2019	Finalist
39	B Bhargav	BAJA SAE India	NATRAX Pithampur	23 to 27 Jan 2019	Finalist
40	P K N K S Reddy	BAJA SAE India	NATRAX Pithampur	23 to 27 Jan 2019	Finalist
41	S Sai Prasad	BAJA SAE India	NATRAX Pithampur	23 to 27 Jan 2019	Finalist
42	R Naveen Raju	BAJA SAE India	NATRAX Pithampur	23 to 27 Jan 2019	Finalist
43	G Sairam	BAJA SAE India	NATRAX Pithampur	23 to 27 Jan 2019	Finalist
44	Ch Varun Kumar	BAJA SAE India	NATRAX Pithampur	23 to 27 Jan 2019	Finalist
45	K Narendra	BAJA SAE India	NATRAX Pithampur	23 to 27 Jan 2019	Finalist
46	S Chinni Krishna	BAJA SAE India	NATRAX Pithampur	23 to 27 Jan 2019	Finalist
47	Panneru Siva	SAE Efficycle	LPU Punjab	9 to 14 Oct 2018	Finalist
48	Samineedi Babi	SAE Efficycle	LPU Punjab	9 to 14 Oct 2018	Finalist
49	Vattam Pushpak	SAE Efficycle	LPU Punjab	9 to 14 Oct 2018	Finalist
50	B Venkata Ramana	SAE Efficycle	LPU Punjab	9 to 14 Oct 2018	Finalist
51	N Veera Badri Raju	SAE Efficycle	LPU Punjab	9 to 14 Oct 2018	Finalist
52	PKNKS Venkata Reddy	SAE Efficycle	LPU Punjab	9 to 14 Oct 2018	Finalist
53	P Jaswanth	SAE Efficycle	LPU Punjab	9 to 14 Oct 2018	Finalist
54	S Manideep	SAE Efficycle	LPU Punjab	9 to 14 Oct 2018	Finalist
55	S Rama Subrahmanyam	SAE Efficycle	LPU Punjab	9 to 14 Oct 2018	Finalist
56	Thota Suneel	SAE Efficycle	LPU Punjab	9 to 14 Oct 2018	Finalist
57	R Jithendra Sai	SAE Efficycle	LPU Punjab	9 to 14 Oct 2018	Finalist
58	B V N S S Bharat	Champion of Champions	KL University	22 to 24 Feb 2019	Winner

59	G Siva Kumar	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
60	G D S Swamy	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
61	I Jyothi Brahmesh	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
62	K Ganesh Kowshik	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
63	K Krishna Kireeti	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
64	M B Ramesh Raja	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
65	J Anil Kumar	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
66	Ch Sravan Sudheer	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
67	A Veerababu	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
68	B Bhargav	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
69	R Naveen Raju	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
70	Ch Varun Kumar	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
71	K Narendra	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
72	S Chinni Krishna	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
73	Shiv Kumar	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
74	V Krishna Sai Durga	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
75	KDVVSS Apparao	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
76	KVVSN Pavan Kumar	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
77	M Hema Manikanta	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
78	T N N V Ganesh	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
79	K Narasimha Murthy	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
80	J Manikanta	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
81	I Siva Sankar	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
82	M Jagadeesh	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
83	D Naveen Sai	Champion of Champions	KL University	22 to 24 Feb 2019	Winner

84	Raghavendra Sahi	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
85	D Durga Prasad	Champion of Champions	KL University	22 to 24 Feb 2019	Winner
86	N Ramprasad	Champion of Champions	KL University	22 to 24 Feb 2019	Winner

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CRITERION 5	FACULTY INFORMATION AND CONTRIBUTIONS	200

5. FACULTY INFORMATION AND CONTRIBUTIONS (200)

Details of faculty information and contributions for all assessment years including the current year are provided in Annexure II, as per the following format.

Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which Designated as Professor/ Associate Professor	Date of Joining the Institution	Department	Specialization	Academic Research			Currently Associated (Y/N) Date of Leaving (In case Currently Associated is	Nature of Association (Regular/Contract)
	Degree (highest degree)	University	Year of attaining higher qualification							Research Paper Publications	Ph.D. Guidance	Faculty Receiving Ph.D. during the Assessment		

5.1. Student-Faculty Ratio (SFR) (20)

(To be Calculated at Department Level)

No. of UG programs in the Department (n) : 01

No. of PG Programs in the Department (m) : 00

No. of Students in UG 2nd Year : u_1

No. of Students in UG 3rd Year : u_2

No. of Students in UG 4th Year : u_3

No. of Students in PG 1st Year : p_1

No. of Students in PG 2nd Year : p_2

No. of students = Sanctioned Intake +Actual admitted lateral entry students.
(The above data to be provided considering all the UG and PG programs of the department)

S = Number of students in the Department=UG1+UG2+. +UGn + PG1 +. PGm

F = Total Number of Faculty Members in the Department (excluding first year faculty)

Student Teacher Ratio (STR) = S/F

Year of Study	CAY (2021 – 2022)	CAYm1 (2020 – 2021)	CAYm2 (2019 – 2020)
u1.1 B.E.(Mechanical) II Yr.	120 + 12 = **132**	180 +18 = **198**	180 + 18 = **198**
u1.2 B.E.(Mechanical) III Yr.	180 + 18 = **198**	180 + 18 = **198**	180 + 36 = **216**
u1.3 B.E.(Mechanical) IV Yr.	180 + 18 = **198**	180 + 36 = **216**	180 + 36 = **216**
UG1 B.E.(Mechanical), Total	480 + 48 = **528**	540 + 72 = **612**	540 + 90 = **630**
PG1 M.E.(Total)	0	0	0
Total No. of Students in the Department (S)	528	612	630
No. of Faculty in the Department (F)	**27**	**27**	**27**
Student Faculty Ratio (SFR)	**19.56**	**22.67**	**23.33**
Average SFR	**21.85**		

Table B.5.1

5.1.1 Provide the information about the regular and contractual faculty as per the format mentioned below

	Total number of regular faculty in the department	Total number of contractual faculty in the department
CAY (2021-22)	27	0
CAYm1 (2020-21)	27	0
CAYm2 (2019-20)	27	0

Table B.5.1.1

5.2 Faculty Cadre Proportion (25)

The reference Faculty cadre proportion is 1(F1):2(F2):6(F3)

F1: Number of Professors required = 1/9 x Number of Faculty required to comply with 15:1 Student-Faculty ratio based on no. of students (N) as per 5.1

F2: Number of Associate Professors required = 2/9 x Number of Faculty required to comply with 15:1 Student-Faculty ratio based on no. of students (N) as per 5.1

F3: Number of Assistant Professors required = 6/9 x Number of Faculty required to comply with 15:1 Student-Faculty ratio based on no. of students (N) as per 5.1

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY (2021-22)	2.00	2.00	5.00	2.00	17.00	23.00
CAYm1 (2020-21)	3.00	1.00	6.00	2.00	20.00	24.00
CAYm2 (2019-20)	3.00	1.00	7.00	1.00	21.00	25.00
Average Numbers	2.67	1.33	6.00	1.67	19.33	24.00

Table B.5.2

Cadre Ratio Marks = [(AF1 / RF1) + [(AF2 / RF2) * 0.6] + [(AF3 / RF3) * 0.4]] * 12.5: 13.00

5.3 Faculty Qualification (25)

FQ = 2.5 x [(10X +4Y)/F] where x is no. of regular faculty with Ph.D., Y is no. of regular faculty with M. Tech., F is no. of regular faculty required to comply 20:1 Faculty Student ratio (no. of faculty and no. of students required are to be calculated as per 5.1).

	X	Y	F	FQ = 2.5 x [(10X + 4Y) / F)]
CAY (2021-22)	6	21	26.00	13.85
CAYm1 (2020-21)	6	23	30.00	11.00
CAYm2 (2019-20)	3	24	31.00	10.16
Average Assessment				11.67

5.4. Faculty Retention (25)

No. of regular faculty members in CAYm1(2020-21) = 27; CAY (2021-22) = 27

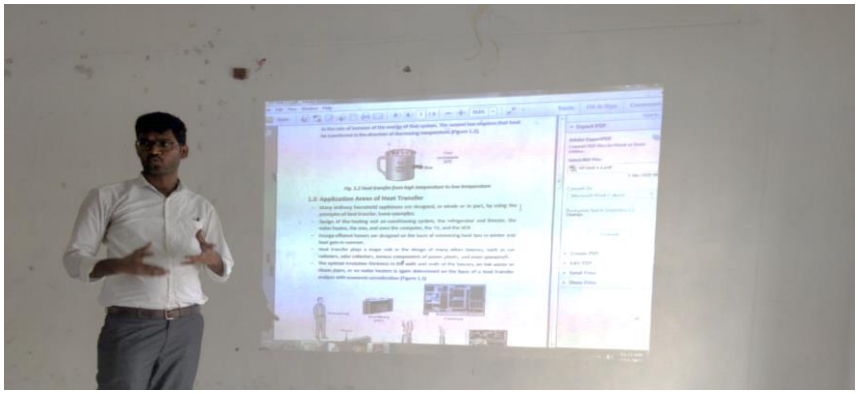
Description	CAY: 2020 - 21	CAY: 2021 - 22
No of Faculty Retained	19	15
Total No of Faculty	27	27
% Of Faculty Retained	70	56
Average: 63.00	**Average Assessment: 15.00**	

5.5. Innovations by the Faculty in Teaching and Learning (20)

The faculty's innovations in teaching and learning will be summarized in the following description. Contributions to teaching and learning are acts that help students to learn more effectively. These activities are included, but are not limited to, ICT (Information and Communication Technology) use, instruction delivery, instructional methodologies, assessment, evaluation, and inclusive classrooms, all of which contribute to effective, efficient, and engaging instruction. The department established suitable procedures for making contributions public, reviewing them, and awarding them. These are examples of clear aims, adequate preparation and application of acceptable procedures, the relevance of outcomes, good presentation, and reflective critique. Teaching Effectiveness and innovation are achieved due to the most effective methods for creating, delineating, and transferring information from faculty to students. These activities included but were not limited to ICT, course delivery techniques, assessment, evaluation, inclusive classrooms, and industry-sponsored laboratories that result in an effective, efficient, and engaging teaching-learning process. The department of Mechanical engineering followed the proper procedures for making contributions public, reviewing them, and ensuring future development. Setting clear goals, efficient preparation, acceptable methods, the relevance of outcomes, good presentation, and reflective critique are all ways to attain the stated goal.

ICT Classroom:

ICT (Information and Communication Technology) Classrooms are available in all the department classrooms. Projectors made learning more dynamic by allowing for various ways to deliver information. All interactive modules have been used, such as technical videos and presentations, are used for Smart courses. Students are drawn to this aesthetically appealing approach to instruction. Smart classrooms made students connect concepts to animated graphics easier. Students' audio-visual senses are focused here, which aids them in successfully absorbing knowledge.



Mr. N Raveendra Reddy Conducting an ICT learning method in the classroom

Online Courses:

Faculty and students have taken online courses in their fields of interest, from Coursera, NPTEL, Spoken tutorial, and others. It allowed individuals to broaden their understanding of current events while also gaining interdomain competence. They have received certification from national and international universities and are committed to continuing their education throughout their lives. Online courses can serve as a discussion forum for experts and students worldwide.

Innovative Assignments and Real-time problems:

Assignments are offered based on real-world engineering challenges to assist students in comprehending and solving them. Students are also given group activities to help them enhance their self-learning and teamwork skills.

Technical presentation:

Students were encouraged to deliver a presentation on any technical topic related to their area of interest to transmit knowledge and overcome stage fright. It also helped them enhance their communication skills, which will help them advance in their careers.

Technical Presentation on Renewable Energy

On-Site Learning:

Students participated in industrial trips and training to bridge the gap between theoretical learning and practical training in a real-world setting. During industrial trips, students understood industrial methods and organizational hierarchy. In addition to traditional classroom learning, industrial tours provided an opportunity for active/interactive learning activities outside the classroom.

Students of Mechanical Engineering visit to Nagarjuna Sagar Hydro Power Plants

Value added inter- disciplinary Courses:

JNTU Kakinada and Aditya College of Engineering, Surampalem always encouraged students to learn interdisciplinary courses to get beyond the course knowledge certification courses such as CAD/CAM, CNC Simulator, APSSDC and 3-D Modelling & Analysis to provide students with significant expertise in a given sector. It enhanced students' employability skills and boosted their professional and life-oriented abilities.

Flipped Classroom:

The Department's curriculum was designed such that classroom students review lecture material at home and work on projects and assignments in the classroom. Students in the flipped classroom complete coursework typically sent home as homework in class. The flipped classroom provided an ideal space for peer-to-peer collaboration, and students could be engaged with one another to complete group projects, debates, and practice. Professors are not the centre of the flipped classroom. Instead, Professors are more flexible, addressing personalized help and direction for students and student groups as they complete their work.

Students are actively participated in the Flipped classroom activity

Project Based Learning:

The department's curriculum was structured, so students learned to design and build complicated mechanical systems through various activities, including projects. Because these projects are typically too vast and complex for a single student to complete alone, project-based learning always encourages collaboration. The department hosted a project exhibition annually to enhance the student's project development activity skills.

Students project models

Inquiry-Based Learning:

The department curriculum was structured for Inquiry-based learning, which developed thinking and problem-solving skills. Instead of driving the class through a lecture-style format, the teacher poses questions, scenarios, and problems. Students then research these topics individually or in groups to formulate their answers. They presented their findings and supporting evidence to the class and the other students. Students further developed their answers by listening to what other students have found and identifying areas that require more attention and detail.

Students interacting among themselves during the class hours of Dr. M. Anjibabu

Ask Open-Ended Questions:

Students, especially successful students, may have relied too heavily on textbook answers. They have developed the tendency to think there are only right and wrong answers over time. However, most questions do not have right or wrong answers. Students need to exercise conversational skills and empathy in today's divisive public sphere. Students learned to communicate and collaborate as per their needs. By asking open-ended questions, professors always encouraged vibrant in-class conversations. Students piece together different information learned or experienced in their life to stitch together cohesive points. It encouraged students to find their voices and express themselves.

Peer Teaching:

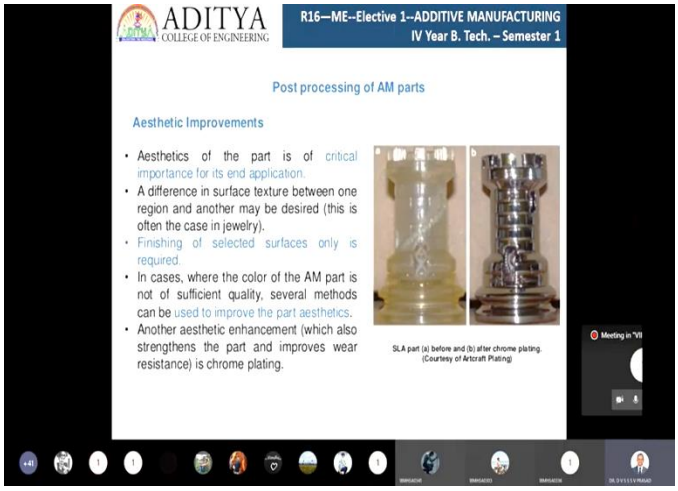
Peer learning was a strategy where a group of students were trained first by the faculty, and then the students were guided to explain the trained topic to his/her co-students in the group. This technique requires students to discuss the topic explained by their peers and should be able to solve the related topics. Discussing responses with peers maximises participation, directs attention, and engages students in reading comprehension. At the end of the peer learning process, both student-tutee and student-tutor will be benefited even from the complex topic.

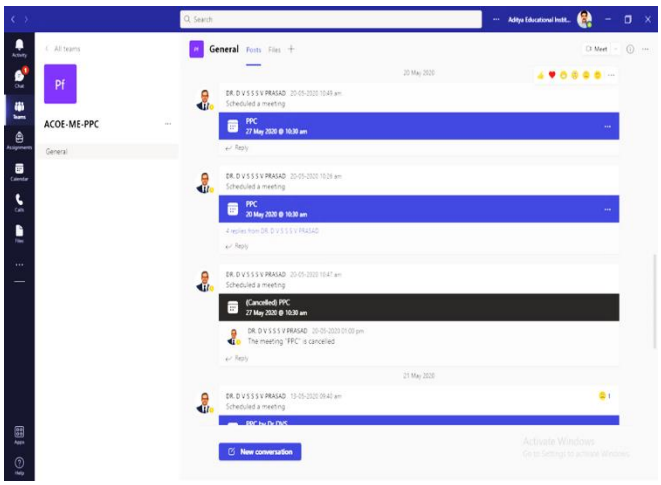
Blended Learning:

The Department's curriculum has already involved blended learning, which combines physical and online learning experiences that given students more control over the time, place, path, and pace of instruction. The evolution of digital learning platforms has significantly impacted educational institutions and has eventually put traditional methods in the back seat. However, there are demands for both technology and traditional learning methods. As a result, the art of combining digital learning tools with more traditional face-to-face classroom teaching gave birth to the term "Blended Learning".

Given the emergence of digital technologies and the emerging importance of leveraging technology for teaching-learning at all levels, from school to higher education, the National Education Policy (NEP) 2020 recommends the use of blended models of learning. The NEP-2020

states that while promoting digital learning and education, the importance of face-to-face in-person learning is fully recognized. Accordingly, different effective blended learning models are identified for appropriate replication for different subjects.





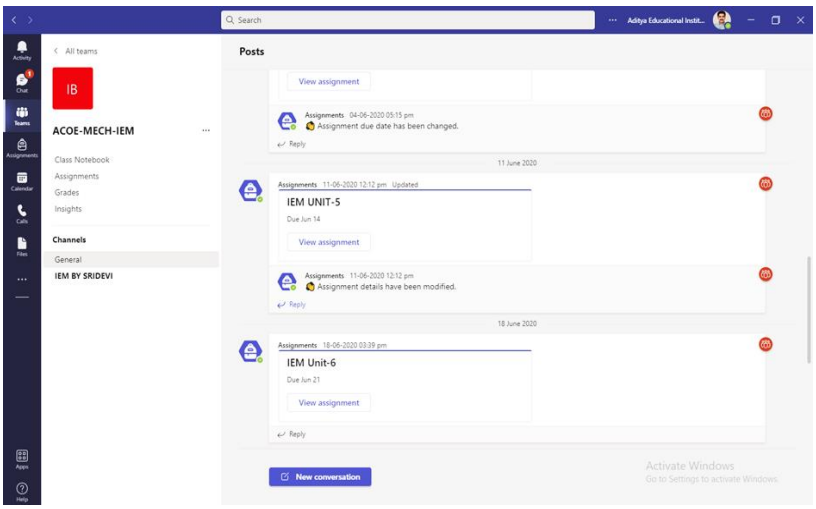
Blended learning activities carried by Faculty

Quiz/Feedback:

Feedback is essential. Students learned how to offer constructive and accept feedback. Provided students with a mechanism for providing feedback. In a virtual classroom, feedback tools like polling or emojis are great for quick feedback cycles. Students even challenge or ask students to expand upon their feedback and then ask other students with opposing opinions to discuss why they think differently. Students are made to join as members of the Microsoft teams. Notes materials, Assignments, and Quiz questions are posted in the app. Students participated in the quiz by registering through an app sign-in, and an evaluation will be done.

Seminar Assignments:

The students will be given the assignment topics and made to present the seminar in the classroom and submit the report in the assignment write-up.



NPTEL Video Class Room:

The students will be shown the NPTEL Video on the lecture topics of the resource persons from IITs, NITs, etc.

Mr. M. Sarat Chandra Prasad delivering lectures using NPTEL Videos

Learning from Experts:

The identified gaps are communicated to the University for consideration during the curriculum revision. Beyond this, the department taken necessary measures to fill the gaps by imparting knowledge to the concepts through content beyond the syllabus.

- Seminars are arranged by experts frequently.
- Guest lectures are arranged by industry experts to overcome the gap between industry and academia.
- Practical Hands-on workshops are arranged to get exposure to modern tools.
- Students are sent for industrial visits to various industries.
- Aptitude tests, value-added courses, mini projects, employability enhancement programs etc. are regularly conducted to enhance their skills.
- During their semester holidays, students are encouraged to undertake in-plant training in the industries.

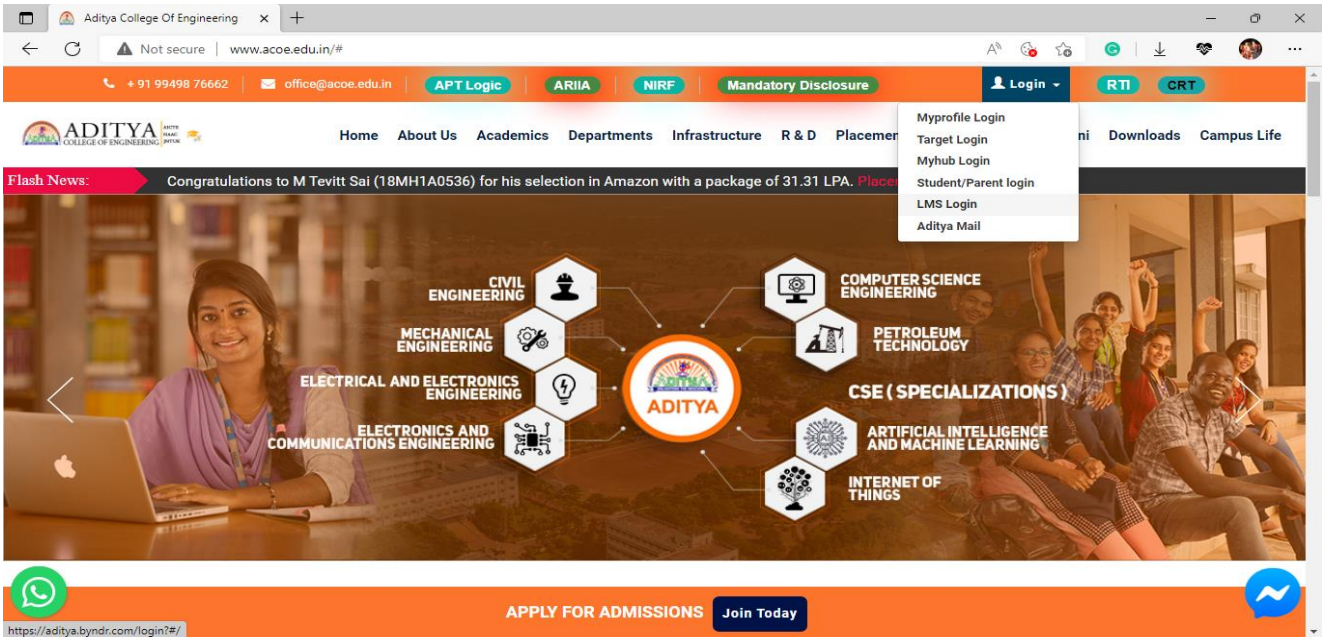
Students actively participating in guest lectures

Developing digital content materials:

Digital media has slowly peered its way into classrooms, reshaping education. Our growing dependence on technology is redefining education. Technology makes education efficient, engaging, and easily accessible. There are many advantages to digital media and its effect on students learning. Technology makes learning efficient. The main benefit of digital media in education is that it can increase student engagement. In addition, it helps students work through complex concepts with multiple resources. Digital instruction helps show difficult topics that are often hard to understand.

Learning Management Tools:

https://aditya.byndr.com/login#/



The department uses LMS tools, such as Moodle, to make the students submit their assignments, learn online and implement the experiments to gain knowledge about the concepts learned in the class. The faculty has recently utilised the Microsoft Team App to teach the courses.

Developing Video Lectures:

Dr.B. M. Rahula Bharathi, recording digital content videos for several topics courses on Mechanics of Solids

Dr.B. M. Rahula Bharathi, delevring digital videos for mechanics of solids

Mapping of Innovative teaching Methodologies to subjects:

S.no.	Innovative teaching methodology	Year	Semester	Subject	Academic year
1	ICT Class room	2	1	Fluid Mechanics & Hydraulic Machines	2021-22
2	Online courses	2	1	Kinematics Of Machinery	2021-22
3	Technical presentation	2	2	Dynamics Of Machinery	2021-22
4	Innovative assignment & Real time problems	2	2	Thermal Engineering-I	2021-22
5	Value inter disciplinary courses	3	1	Dynamics Of Machinery	2021-22
6	Flipped class rooms	3	1	Design Of Machine Members-I	2021-22
7	Project base learning	3	2	Heat Transfer	2021-22
8	Inquiry based learning	3	2	Operations Research	2021-22
9	Ask open ended questions	4	1	Finite Element Methods	2021-22
10	Peer teaching	4	1	Power Plant Engineering	2021-22
11	Blended learning	4	2	Automobile Engineering	2021-22
12	Quiz/ Feedback	2	1	Mechanics Of Solids	2020-21
13	Seminar assignments	2	1	Machine Drawing	2020-21
14	NPTEL video class room	2	2	Kinematics Of Machinery	2020-21
15	Learning from experts	2	2	Fluid Mechanics & Hydraulic Machines	2020-21
16	Video lecture contents	3	1	Design Of Machine Members-II	2020-21
17	ICT Class room	3	1	Operations Research	2020-21
18	Online courses	3	2	Heat Transfer	2020-21
19	Technical presentation	4	1	CAD/CAM	2020-21
20	Innovative assignment & Real time problems	4	1	Finite Element Methods	2020-21
21	Value inter disciplinary courses	4	2	Automobile Engineering	2020-21
22	Flipped class rooms	2	1	Mechanics Of Solids	2019-20

23	Project base learning	2	2	Thermal Engineering-I	2019-20
24	Inquiry based learning	2	2	Design Of Machine Members -I	2019-20
25	Ask open ended questions	3	1	Design Of Machine Members -II	2019-20
26	Peer teaching	3	1	Thermal Engineering-II	2019-20
27	Blended learning	3	2	Heat Transfer	2019-20
28	Quiz/ Feedback	4	1	Finite Element Methods	2019-20
29	Seminar assignments	4	2	Automobile Engineering	2019-20
30	NPTEL video class room	4	2	Power Plant Engineering	2019-20

5.6 Faculty as participants in Faculty development/training activities/STTPs (15)

Name of the faculty	Max 5 per faculty			
	2021-22 (CAYm1)	2020-21 (CAYm1)	2019-20 (CAYm2)	2018-19 (CAYm3)
Dr. Y. K. S. Subbarao	5.00	5.00	5.00	5.00
Dr. DVSSSV Prasad	5.00	5.00	5.00	5.00
Dr. B. M. Rahula Bharathi	5.00	5.00	5.00	0.00
Mr. I. Manoj Krishna	5.00	5.00	5.00	5.00
Mr. M. Sarat Chandra	5.00	5.00	5.00	5.00
Mr. P. H. C. Prasad	5.00	5.00	5.00	5.00
Mr. M. Prem Kumar Reddy	5.00	5.00	5.00	5 .00
Dr. N. Bhanu Teja	5.00	5.00	5.00	3.00
Mr. K. Venuvardhan	5.00	5.00	3.00	0.00
Mr N G Ganeswara Rao	-	5.00	5.00	0.00
Mr. D V N Prasad	3.00	5.00	3.00	3.00
Mr. M. Nagamahesh	5.00	5.00	5.00	5.00
Mr. K. Venkata Ramana	5.00	5.00	3.00	3.00

Mr. D. Manikandan	5.00	5.00	3.00	0.00
Mr. M. S. Ravitheja	5.00	3.00	0.00	0.00
Mr. K. Venkatesh	-	3.00	0.00	0.00
Mr. V V Chaitanya	-	5.00	0.00	0.00
Mr. Talari Srinu	-	5.00	0.00	0.00
Mr R Shiva Prasad	5.00	5.00	0.00	0.00
Mr M Vamsi	-	5.00	0.00	0.00
Mr N Ravindra	3.00	3.00	0.00	0.00
Dr Anjibabu Merneedi	5.00	3.00	3.00	5.00
Smt S Swetha Radha	5.00	-	-	-
Dr Navaneeth Krishna Vadivel	5.00	-	-	-
Mr K V Ramana	5.00	-	-	-
N Raveendra Reddy	5.00	-	-	-
Mr M Balan	3.00	-	-	-
Sum	104	102.00	65.00	49.00
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratio as per 5.1	24	26.40	30.60	31.50
Assessment [3*(Sum / 0.5RF)]	26	23.18	12.75	9.33
Average assessment over three years (Marks limited to 15) = 17.99 ≈ 15				

A.Y: 2020 - 2021

Sl. no	Name of the Faculty	Name of the FDP	Organized by	Place	Duration	No. of Days	Points
1	Dr DVSSSV Prasad	5day STP on Fracture Mechanics and its applications to Laminated composites	IIT Guwahati	Guwahati	01-03-2021 to 05-03-2021	5	5
2	Dr DVSSSV Prasad	Two-week online FDP on Recent advances in Materials and Challenges in Manufacturing Technologies	COE, JNTUK	Kakinada	22-03-2021 to 03-04-2021	10	
3	Mr V Venkata Chaitanya	Modern industrial Technology in mechanical engineering	Aditya Engineering College	online	02-07-2021 to 08-07-2021	7	5
4	Mr V Venkata Chaitanya	Emerging trends in thermal and renewable energy systems	Lakireddy balireddy college of engineering	online	28-06-2021 to 02-07-2021	5	
5	Mr V Venkata Chaitanya	Research Methodology in humanities and social sciences	Lords institute of engineering & technology	online	29-05-2021 to 03-06-2021	6	
6	Mr M.Vamsi	Creativity and Innovation: Creating Exciting Ideas and Projects	Kaziranga University	Online	3-07-2021	1	2.5
7	Mr M. Vamsi	Advances in Manufacturing (AIM-2021)	BIT Sindri, Dhanbad	Online	15-06-2021 to 19-06-2021	5	
8	Smt S. Swetha Radha	Funding support for early stage of entrepreneurship	Pragati Engineering College	Online	27-9-2021	1	0.42
9	Mr K. Venkata Ramana	Recent Advances in Metal Alloy design and processing	MNIT Jaipur	Online	01-10-2021 to 05-10-2021	5	4.58
10	Mr K. Venkata Ramana	Expert talk on Laser Machining	MCKIEV, Howrah	Online	4-7-2021	1	
11	Mr K. Venkata Ramana	Recent Advancements and Research	Aditya Engineering College	Online	29-11-2021 to 03-12-2021	5	

		Opportunities in Energy Sector					
12	Mr. Talari Srinu	Fracture Mechanics and its Applications to Laminated composites	IIT GOWAHATHI	Online	01-03-2021 to 05-03-2021	5	2.08
13	Mr.I.Manoj Krishna	3D Printing & Design	JNTU Kakinada	Online	19-10-2020 to 23-10-2020	5	5
14	Mr.I.Manoj Krishna	Engineering Law	JNTU Kakinada	Online	12-10-2020 to 16-10-2020	5	
15	Mr.I.Manoj Krishna	Recent Trends In Manufacturing Technology And Thermal Engineering	JNTU Kakinada	Online	06-10-2021 to 13-10-2021	8	
16	Mr.P.Hari Chandra prasad	Research Methodology In Humanities & Social Sciences	JNTU Kakinada	Online	29-05-2021 to 3-06-2021	6	5
17	Mr.P.Hari Chandra prasad	Research areas in Artificial Intelligence & Machine Learning with Case Studies	JNTU Kakinada	Online	14-06-2021 to 20-06-2021	7	
18	Mr M Sarat Chandra Prasad	Advances in Manufacturing (AIM-2021)	JNTU Kakinada	Online	15-06-2021 to 19-06-2021	5	5
19	Mr M Sarat Chandra Prasad	Innovations and Challenges in Industry 4.0 Automation and smart manufacturing	JNTU Kakinada	Online	07-06-2021 to 12-06-2021	6	
20	Mr M Sarat Chandra Prasad	Recent Advances in materials and challenges in manufacturing techniques	JNTU Kakinada	Online	22-03-2021 to 03-04-2021	14	
21	Mr M Sarat Chandra Prasad	Recent Innovations in Design and Manufacturing	Malla Reddy Engineering College	online	24-05-2021 to 29-05-2021	6	
22	Mr M Prem Kumar Reddy	Fracture Mechanics and its applications to	IIT GUWAHATI	Online	01-03-2021 to 05-03-2021	5	5

		laminated composites					
23	Mr M Prem Kumar Reddy	Recent Innovative Developments in Thermal Engineering	Malla Reddy Engineering College(A)	Online	28-6-2021 to 03-07-2021	6	
24	Mr M Prem Kumar Reddy	Research Methodology in humanities and social sciences	lords institute of engineering & technology	Online	29-05-2021 to 03-06-2021	6	
25	Mr M Prem Kumar Reddy	Research areas in Artificial Intelligence & Machine Learning with Case Studies	Gokaraju Rangaraju Institute of Engineering and Technology from	Online	14-06-2021 to 20-06-2021	7	
26	Mr M Prem Kumar Reddy	NIRF Indian ranking 2021	Institute for Academic Excellence	Online	18-01-2021 to 19-01-2021	2	

Table B.5.6.1 Faculty as Participants in FDP / Training Activities / STTPs for CAYm1 (2020– 2021)

A.Y: 2019 - 2020

S.no	Name of the faculty	Name of the FDP	Organized by	Place	Duration	No. of Days	Points
1	Mr Talari Srinu	Emotional well-being at work: psychology of emotional intelligence for teaching faculty	MLR institute of technology	Online	O4.06.2020	1	0.42
2	Mr. P. Hari Chandra Prasad	Online training on latex	IIT Bombay & Sanjay godawat university	Online	27.04.2020 to 3.05.2020	7	2.92
3	Dr Marxim Rahula Bharathi B	3d printing theory and practice	Aditya Engineering college	Surampalem	20.05.2019 to 25.05.2019	6	2.5
4	Smt S. Swetha Radha	Effective research writing using latex	Pragati Engineering college	Online	22.6.2020- to 27.6.2020	6	5
5	Smt S. Swetha Radha	Sheet metal forming in hot working region	Pragati Engineering college	Online	19.6.2020	1	
6	Smt S. Swetha Radha	Contemporary developments in	Pragati Engineering college	Online	9.6.2020 to 13.6.2020	5	

		manufacturing developments					
7	Mr R Siva Prasad	Turning programming	APSSDC	Online	08.06.2020 to 13.06.2020	6	3.75
8	Mr R Siva Prasad	Real time applications of CAD/CAM applications	Swarnadhra college of Engineering & Tech(a)	Online	05.06.2020 to 07.06.2020	3	
9	Mr M Prem kumar Reddy	Emerging research areas in engineering	SRM Institute of science and Technology	Online	5.06.2020 to 09.06.2020	5	5
10	Mr M Prem kumar Reddy	Advancements in phase change material based thermal and renewable energy techniques	Lakireddy Bali reddy college of Engineering	Online	01.06.2020 to 05.06.2020	5	
11	Mr M Prem kumar Reddy	Intelligent optimization techniques for engineering problems	NIT Surathkal	NIT surathkal	19.08.2019 to 21.09.2019	3	

Table B.5.6.1 Faculty as Participants in FDP / Training Activities / STTPs for CAYm2 (2019– 2020)

5.7 Research and Development **(30)**

5.7.1. a. Academic Research **(10)**

Department provides advisory support in selecting the R & D proposals for implementing R & D activities through analysis of technological trends and identification of thrust areas.

1. R&D Committee in ACOE informs the faculty members about various research schemes that are offered by the various government and other funding agencies.
2. Department Encourages faculty members to submit their research project proposals to the funding agencies.
3. Department Provide financial assistance to the faculty members to publish/present research papers in journals/conferences.
4. Department Promotes Research culture among the staff by conducting special sessions by eminent researchers in those areas.
5. Faculty members in the department are encouraged to register for Ph. D
6. Department follows its Code of Ethics to check Plagiarism and uses ithenticate plagiarism software.

Publication Details of faculty members for the AY: 2021-2022:

S.NO	Name of the Faculty Author	Title of the Paper	Name of the Journal	ISBN/ ISSN Number	Vol/Month	Index No UGC/ Scopus	URL/DOI
1	1.V. Kirubakaran, 2. D. M. D. Preethi, 3. U. Arunachalam, 4. Yarrapragada K. S. S. Rao,	Infrared Thermal Images of Solar PV Panels for Fault Identification Using Image Processing Technique	journal of photoenergy	1110-662X	2022/ june	SCIE+ Scopus	https://downloads.hindawi.com/journals/ijp/2022/6427076.pdf
2	1.Yarrapragada K. S. S. Rao, 2. C. Sowmya Dhana Lakshmi, 3.Dinesh Kumar Vairavel, 4.Raviteja Surakasi, 5. S. Kaliappan, 6. Pravin P. Patil,	Investigation on Forestry Wood Wastes: Pyrolysis and Thermal Characteristics of Ficus religiosa for Energy Recovery System	Advances in Materials Science and Engineering	1687-8442	2022/ April	SCIE+ Scopus	https://doi.org/10.1155/2022/3314606
3	Yarrapragada K. S. S. Rao, Ayaz Ahmad, Sudheer Kumar Battula, Reem Mohammed Alharbi,	Mechanical properties of Arecnut and GFR Hybrid polypropylene composites	Advances in polymer technology	0730-6679	2022/ May	SCIE+ Scopus	https://www.hindawi.com/journals/apt/2022/9633829/
4	Rajkumar Kamaraj, Yarrapragada K.S.S. Rao & Balakrishna B	Biodiesel blends: a comprehensive systematic review on various constraints	Environmental Science and Pollution Research	1614-7499	Vol-16/ march -21	SCIE+ Scopus	https://link.springer.com/article/10.1007/s11356-021-13316-8

5	D. V. S. S. S. V. Prasad + 9 other authors	Optimization of WEDM Process Parameters in Al2024-Li-Si3N4 MMC	Journal of Nanomaterials	ISSN: 1687-4129	2022/ May	SCIE+ Scopus	https://www.hindawi.com/journals/jnm/2022/2903385/
6	D. V. S. S. S. V. Prasad + 9 other authors	Assessment of Rotational Speed and Plunge Rate on Lap Shear Strength of FSSW Joints of AA7075/Mild Steel	Advances in Materials Science and Engineering	ISSN: 1687-8442	2022/ May	SCIE+ Scopus	https://www.hindawi.com/journals/amse/2022/6215249/
7	D. V. S. S. S. V. Prasad + 5 other authors	Mechanical Properties of Ramie/Hemp Hybrid Composites Influenced by Stacking Arrangement and NaOH Treatment	Advances in Polymer Technology	ISSN: 1098-2329	2022/ April	SCIE+ Scopus	https://www.hindawi.com/journals/apt/2022/8737669/
8	Bhanu Teja Nalla, Yuvarajan Devarajan, Ganesan Subbiah, Dilip Kumar Sharma, Vybhav Krishnamurthy, Ruby Mishra	Investigations of combustion, Performance, and emission Characteristics in a diesel engine fueled with Prunus domestica methyl ester and n-butanol blends	Environmental Progress & Sustainable Energy	1944-7450	Vol-41/ Jan -22	SCIE+ Scopus	https://doi.org/10.1002/ep.13811
9	Yuvarajan Devarajan, Dinesh Babu Munuswamy, Bhanu Teja Nalla, Gautam Choubey, Ruby Mishra, Suresh Vellaiyan	Experimental analysis of Sterculia foetida biodiesel and butanol blends as a renewable and eco-friendly fuel	Industrial Crops and Products	9266-690	Vol-178/ Jan -22	SCIE+ Scopus	https://doi.org/10.1016/j.indcrop.2022.114612
10	Gayatri Vaidya, Bhanu Teja Nalla, Dilip Kumar Sharma, Jeyaseelan Thangaraja, Yuvarajan Devarajan,	Production of biodiesel from phoenix sylvestris oil: Process optimization technique	Sustainable Chemistry and Pharmacy	2352-5541	Vol-26/ May-22	SCIE+ Scopus	https://doi.org/10.1016/j.scp.2022.100636

	Venkatesan Sorakka Ponnappan						
11	Yuvarajan Devarajan, Bhanu Teja Nalla, M Dinesh Babu, Ganesan Subbiah, Ruby Mishra, Suresh Vellaiyan	Analysis on improving the conversion rate and waste reduction on bioconversion of Citrullus lanatus seed oil and its characterization	Sustainable Chemistry and Pharmacy	2352-5541	Vol-22/ Aug-21	SCIE+ Scopus	https://doi.org/10.1016/j.scp.2021.100497
12	Kai Liu, Yuvarajan Devarajan, Vinnaras Nithyanantham, Bhanu Teja Nalla, Vybhav Krishnamurthy	An experimental study on transesterification process and emission analysis of diesel engine propelled with Capparis spinosa biodiesel	Biomass Conversion and Biorefinery	21906815	Vol-17/ July-21	SCIE+ Scopus	https://doi.org/10.1007/s13399-021-01744-y
13	P Babu Aurtherson, Bhanu Teja Nalla, Karthikeyan Srinivasan, Kulmani Mehar, Yuvarajan Devarajan	Biofuel production from novel Prunus domestica kernel oil: process optimization technique	Biomass Conversion and Biorefinery	21906815	Vol-12/ May-21	SCIE+ Scopus	https://doi.org/10.1007/s13399-021-01551-5
14	P Babu Aurtherson, H Suresh Babu Rao, S Ganesan, N Bhanu Teja, Mohanavel Vinayagam, Gautam Choubey	Production Process Optimization study on the synthesis of Manilkara zapota seed bio-oil and its characterization	Biomass Conversion and Biorefinery	21906815	Vol-12/ April-21	SCIE+ Scopus	https://doi.org/10.1007/s13399-021-01453-6
15	Dr Anjibabu Merneedi, Bharati raja kaliappan	Processing and characterization of carbon nanofiber composites for automotive applications	Journal of Nanomaterials	1687-4110	2021/ Nov	SCIE+ Scopus	https://doi.org/10.1155/2021/7323885
16	Dr Anjibabu Merneedi, Natarayan	Evaluating the Mechanical and Tribological Properties	Journal of Nanomaterials	1687-4129	2021/ Nov	SCIE+ Scopus	10.1155/2021/8428822

	kaliappan	of DLC Nanocoated Aluminum 5051 Using RF Sputtering					
17	Dr Anjibabu Merneedi, Natarayan kaliappan	Experimental Investigation on Mechanical Properties of Carbon Nanotube-Reinforced Epoxy Composites for Automobile Application	Journal of Nanomaterials	1687-4129	2021/ Nov	SCIE+ Scopus	10.1155/2021/4937059
18	Dr Anjibabu Merneedi, Palani kumaran Natarayan	Synthesis and characterization of polypropylene/ramie fiber with hemp fiber and coir fiber natural biopolymer composite for biomedical application	International Journal of Polymer Science	1687-9430	2021/ Sept	SCIE+ Scopus	10.1155/2021/2462873
19	Dr Anjibabu Merneedi, Suryanarayana Sridhar	Improvement on Mechanical Properties of Submerged Friction Stir Joining of Dissimilar Tailor Welded Aluminum Blanks	Advances in Materials Science and Engineering	1687-8442	2021/ July	SCIE+ Scopus	10.1155/2021/3355692
20	Dr Anjibabu Merneedi, Sesha rao Satish	Optimization on operation parameters in reinforced metal matrix of AA6066 composite with HSS and Cu	Advances in Materials Science and Engineering	1687-8442	2021/ July	SCIE+ Scopus	10.1155/2021/1609769
21	Dr Anjibabu Merneedi, Dr N Mohan Rao Natarayan	Free Vibration Analysis of Thick Rectangular and Elliptical Plates with Concentric Cut-Out	Advances in Materials Science and Engineering	1687-8442	2021/ Oct	SCIE+ Scopus	10.1155/2021/7212075

22	Satish Perabathulaa N. Bhanu Teja P. Hari Chandra Prasad M. Sarat Chandra Prasada ShijoThomas b	Performance analysis of mineral oil-based nano-lubricants with Sulphur impregnated reduced graphene oxide nanosheets	Materials Today: Proceedings	2214-7853	2021/Feb	Scopus	https://doi.org/10.1016/j.matpr.2020.12.793
23	V.V. Kamesh, D.V.S.S.S.V. Prasad, P.S. Ranjit, Bh. Varaprasad, V. Srinivasa Rao	A novel approach to find optimum group replacement period	Materials Today: Proceedings	2214-7853	Vol-46/ Jan -21	Scopus	https://doi.org/10.1016/j.matpr.2021.01.894
24	V.V. Kamesh, D.V.S.S.S.V. Prasad, P.S. Ranjit, Bh. Varaprasad, V. Srinivasa Rao	An additive approach to find distinct mechanisms of a planar kinematic chain	Materials Today: Proceedings	2214-7853	Vol-46/ Jan -21	Scopus	https://doi.org/10.1016/j.matpr.2021.02.162
25	V.V. Kamesh, D.V.S.S.S.V. Prasad, P.S. Ranjit, Bh. Varaprasad, V. Srinivasa Rao	A rigidity approach to find distinct mechanisms of a planar kinematic chain	Materials Today: Proceedings	2214-7853	Vol-43/ Jan -21	Scopus	https://doi.org/10.1016/j.matpr.2020.11.684
26	Marxim Rahul Bharati, D.V.S.S.S.V. Prasad, V.V. Kamesh, George Fernadez	Teacher's perspective about Online Teaching-Learning	Research Journal in Science, Engineering and Technology (IARJSET)	2393-8021	Vol-8/Aug -21	Scopus	https://doi.org/10.17148/IARJSET.2021.8821

27	V.V. Kamesh, D.V.S.S.S.V. Prasad, P.S. Ranjit, V. Srinivasa Rao	A numerical approach to find distinct mechanisms of a planar kinematic chain using linkage coordinates	Springer's LNME	978-981-16-2794-1		Scopus	https://doi.org/10.1007/978-981-16-2794-1_114
Conferences							
1	D. V. S. S. S. V. Prasad + 5 other authors	A significant feature selection to improve the accuracy of a classification algorithm for steel defect	inventive Research in Computing Applications ICIRCA 2022	978-1-6654-9707-7	21-23, September 2022	IEEE	
2	Marxim Rahula Bharathi B	Development of vibrations analyzer using microprocessor and estimation of natural frequencies of simply supported beam.	Virtual International Conference on Impact of IoT and Machine Learning in Mechanical Engineering-ICIIMLME'21	4th International Conference on Inventive Research in Computing Applications ICIRCA 2022	03.08.2021 to 04.08.2021		

Table: 5.7.1

Publication Details of faculty members for the AY: 2020-2021:

S. No	Name of the Faculty Author	Title of the Paper	Name of the Journal	ISBN/ ISSN Number	Vol/ Month	Index No UGC/ Scopus	URL/DOI
1	Dr Duvvuri V S S S V Prasad	A novel approach to find optimum group replacement period	Materials Today: Proceedings	2214-7853	46	Scopus	https://doi.org/10.1016/j.matpr.2021.01.894
2	Dr Duvvuri V S S S V Prasad	An additive approach to find distinct mechanisms of a planar kinematic chain	Materials Today: Proceedings	2214-7853	46	Scopus	https://doi.org/10.1016/j.matpr.2021.02.162
3	Dr Duvvuri V S S S V Prasad	A rigidity approach to find distinct mechanisms of a planar kinematic chain	Materials Today: Proceedings	2214-7853	46	Scopus	https://doi.org/10.1016/j.matpr.2021.01.894
4	Dr Duvvuri V S S S V Prasad	Teacher's perspective about Online Teaching-Learning	International Advanced Research Journal in Science, Engineering and Technology - IARJSET	2393-8021	8	UGC	https://doi.org/10.17148/IARJSET.2021.8821
5	Dr Duvvuri V S S S V Prasad	Prediction of prevalence of COVID-19 in India using Time Series analysis	Marian Journal of Professional Management	2456-9003	3	UGC	https://drive.google.com/file/d/1tme7HGtl7FOEUMi47JfVO_iEGvvC4v27/view

6	Dr Anjibabu Merneedi	Experimental investigation on wear behaviour of bio-waste reinforced fusion fiber composite laminate under various conditions	Materials Today: Proceedings	2214-7853	37	Scopus	https://www.sciencedirect.com/science/article/pii/S2214785320351981
7	Dr Anjibabu Merneedi	Free Vibration Analysis of Thick Rectangular and Elliptical Plates with Concentric Cut-Out	Advances in Materials Science and Engineering	1687-8442	2021	SCIE	DOI: 10.1155/2021/7212075
8	Dr Anjibabu Merneedi	Processing and characterization of carbon nano fibre composites for automotive applications	Journal of Nanomaterials	1687-4129	2021	SCIE	DOI:10.1155/2021/7323885
9	Dr Nalla Bhanu Teja	Performance optimization of mahua biodiesel using cetane number improver	Materials Today: Proceedings	2214-7853	FEB	Scopus	https://www.sciencedirect.com/science/article/pii/S221478532100290X
10	Mr Satish Perabathula, N Bhanu Teja, P Hari Chandra Prasad, M Sarat Chandra Prasad	Performance analysis of mineral oil-based nano-lubricants with Sulphur impregnated reduced graphene oxide nano sheets	Materials Today: Proceedings	2214-7853	FEB	Scopus	https://www.sciencedirect.com/science/article/pii/S2214785320405115
11	Dr Nalla Bhanu Teja	Investigations of performance and emission characteristics in diesel engine fueled with Hemp oil methyl ester	Materials Today: Proceedings	2214-7853	DEC	Scopus	https://www.sciencedirect.com/science/article/pii/S2214785320387162

12	Dr Nalla Bhanu Teja	Production Process Optimization study on the synthesis of Manilkara zapota seed bio-oil and its characterization	Biomass Conversion and Biorefinery	2190-6823	10	Scopus	https://link.springer.com/article/10.1007/s13399-021-01453-6
13	Dr Nalla Bhanu Teja	Detailed analysis on sterculia foetida kernel oil as renewable fuel in compression ignition engine	Biomass Conversion and Biorefinery	2190-6823	10	Scopus	https://link.springer.com/article/10.1007%2Fs13399-021-01328-w

Table: 5.7.2

Publication Details of faculty members for the AY: 2019-2020:

S. No	Name of the Faculty Author	Title of the Paper	Name of the Journal	ISBN/ISSN Number	Vol/ Month	Index No UGC/ Scopus	URL/DOI
1	Mr Yarrapragada K S S Rao	Design and Simulation of Flexural Stresses of PM Composite Beam	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	2249–6890	10	Scopus	http://www.tjprc.org/publishpapers/2-67-1596264541-554IJMPERDJUN2020554.pdf
2	Mr Yarrapragada K S S Rao	Optimization Of Tig Welding Process Using Taguchi Method	International Journal of Mechanical and Production	2249–6890	10	Scopus	http://www.tjprc.org/publishpapers/2-67-1595036593-384IJMPERDJUN2020384.pdf

			Engineering Research and Development (IJMPERD)				
3	Dr Marxim Rahula Bharathi B	Moisture Absorption and Chemical Resistance Studies on Pineapple Fiber Reinforced Vinyl Ester Composite	International Journal of Engineering and Advanced Technology (IJEAT)	ISSN: 2249 – 8958	9	Scopus	https://www.ijeat.org/wp-content/uploads/papers/v9i1s4/A10811291S419.pdf
4	Dr Marxim Rahula Bharathi B	Time delay estimation using wavelet denoising maximum likelihood method for underwater reverberant environment	IET Radar, Sonar & Navigation	1751-8792	14	Scopus	https://digital-library.theiet.org/content/journals/10.1049/iet-rsn.2020.0079\
5	Mr Yarrapragada K S S Rao	Wear Behavior on Hybrid Composite Material Using	Journal of Critical Reviews	2394-5125	7	Scopus	http://www.jcreview.com/?mno=122241
6	Dr N. Bhanu Teja	Biodiesel production from Caulerpa racemose (macroalgae) oil	Indian Journal of Geo Marine Sciences	0975-1033	49	Scopus	http://nopr.niscair.res.in/handle/123456789/54650
7	Mr Yarrapragada K S S Rao	Design And Optimization of Crane Hook	Journal of Critical Reviews	2394-5125	7	Scopus	http://www.jcreview.com/?mno=122238

Table: 5.7.3

Publication Details of faculty members for the AY: 2018-2019:

S. No	Name of the Faculty Author	Title of the Paper	Name of the Journal	ISBN/ ISSN Number	Vol/ Month	Index No UGC/ Scopus	URL/DOI
1	Mr Yarrapragada K S S Rao	"A Comprehensive Analysis on Biodiesel Blend Model"	International Journal of Artificial Life	1947-3087	8	Scopus	https://dl.acm.org/doi/10.4018/IJALR.2018070102
2	Mr Yarrapragada K S S Rao	"Modeling Diesel Engine Fueled with Tamanu Oil-Diesel Bend by Hybridizing Neural Network with Firefly Algorithm"	International Journal of Renewable Energy	0960-1481	134	Scopus	https://www.sciencedirect.com/science/article/abs/pii/S0960148118310413
3	Mr Yarrapragada K S S Rao	"A Comprehensive Analysis on Biodiesel Blend Model"	International Journal of Artificial Life	1947-3087	8	Scopus	https://www.ugc.ac.in/pdfnews/5283580_UGC-Cancelled-List.pdf
4	Mr P Hari Chandra Prasad	Comparative Thermal Analysis on Heat Sink with Different Geometries	International Journal of Research and Analytical Reviews	2349-5138	6	Scopus	https://www.ugc.ac.in/pdfnews/5283580_UGC-Cancelled-List.pdf

Table: 5.7.4

5.7.1.b. Ph. D awarded while working in the institution.

A.Y: 2021 - 2022

Sl. No.	Name of the Faculty	Title of the Ph. D topic	Name of the University	Name of the Guide	Date of Enrolment	Date of award

A.Y: 2020 – 2021

Sl. No.	Name of the Faculty	Title of the Ph. D topic	Name of the University	Name of the Guide	Date of Enrolment	Date of award
1	Mr Yarrapragada K S S Rao	Impact Of Tamanu Biodiesel Blends On Combustion Performance and Emissions of VCR Engine and Modelling by Neural Networks	Jawaharlal Nehru Technological University Kakinada, Kakinada	Dr B Balakrishna	18.11.2013	14.10.2020

A.Y: 2019 – 2020

Sl. No.	Name of the Faculty	Title of the Ph. D topic	Name of the University	Name of the Guide	Date of Enrolment	Date of award
1	Mr Nalla Bhanu Teja	Performance, Combustion and Emission investigation in an unmodified diesel engine using Esterified prunus Domestica and watermelon oils-diesel blends	Pondicherry University	Dr. N. Alagumurthi	07-12-2016	24-1-2020

A.Y: 2018 – 2019

Sl. No.	Name of the Faculty	Title of the Ph. D topic	Name of the University	Name of the Guide	Date of Enrolment	Date of award
1	Dr Anjibabu Merneedi	Free vibration analysis of Rectangular and elliptical plates with cut-outs	Jawaharlal Nehru Technological University Kakinada, Kakinada	Prof. N. Mohan Rao	11/01/2013	22/10/2018

2	Dr Marxim Rahula Bharathi B	Underwater Acoustic Source Identification and Localization in a Reverberant	IIT Kharagpur	Prof. A R Mohanty	24/12/2012	24/07/2019

5.7.1.c. Ph. D Enrolled while working in the institution.

A.Y: 2021 – 2022

Sl. No.	Name of the Faculty	Title of the Ph. D topic	Name of the University	Name of the Guide	Date of Enrolment	Date of award
1	Mr P Harichandra Prasad	Course Work	JNTU University	Not Allocated	30.04.2022	-

A.Y: 2020 – 2021

Sl. No.	Name of the Faculty	Title of the Ph. D topic	Name of the University	Name of the Guide	Date of Enrolment	Date of award
1	Mr P Satish	Understanding and development of hydroxy apatite-based composite for bone regeneration and impact resistance coating	NIT Surathkal	Dr Saumen Mandal	08-05-2020	-

5.7.1.d. Patents Published by the faculty:

A.Y: 2020 – 2021

Sl. No.	Name of the Faculty	Patent details	Area of the patent's files/ obtained	Status	Filing agency
1	Dr DVSSSV Prasad	202241012572	Computer science Engineering	Published	US patent & Trade Mark office
2	Dr DVSSSV Prasad	2021103445	Mechanical Engineering	Granted	IP Australia

A.Y: 2019 – 2020

Sl. No.	Name of the Faculty	Patent details	Area of the patent's files/ obtained	Status	Filing agency
1	Dr N Bhanu Teja	202041006677	Mechanical Engineering	Published	US patent & Trade Mark office
2	Dr N Bhanu Teja	202041006676	Chemical	Abonded	US patent & Trade Mark office
3	Dr Marxim Rahula Bharathi B	202121018506 A	Design	Published	Indian Patent
4	Dr Marxim Rahula Bharathi B	202141016916 A	Machine Learning	Published	Indian Patent
5	Dr Y K S Subba Rao	202141033818	Mechanical Engineering	Published	Intellectual Property India
6	Dr Y K S Subba Rao	202141033795	Computer Science	Awaiting request for examination	Intellectual Property India

A.Y: 2018 – 2019

Sl. No.	Name of the Faculty	Patent details	Area of the patent's files/ obtained	Status	Filing agency	Remarks
1	Dr N Bhanu Teja	202041006676	Chemical	Abonded	US patent & Trade Mark office	

5.7.2. Sponsored Research **(5)**

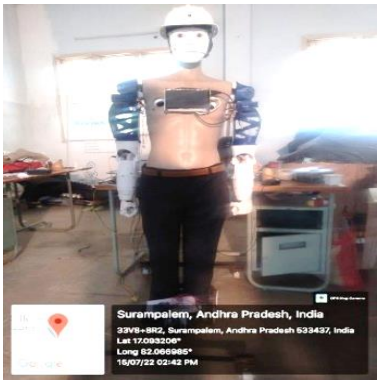
Funded research:

Name of the Faculty Member	Title of the Sponsored Research	Funding Agency	Amount	Duration	Research Progress	Outcome
NIL						

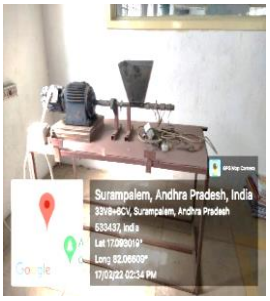
5.7.3 Development Activities **(10)**

a) **Product Development**

A.Y: 2021 – 2022

Sl. No.	Name of the Faculty	Title of the Product developed/ still in incubation	Total cost	No of faculty /student involved	Product Image
1	1. Dr. N Bhanu Teja (c)Mr. N. Vijaya Kumar	Navigation and multi-tasking Robot	20000/-	2+5	
2	Mr. M Prem Kumar Reddy	Design and Evaluation of solar air heater	25000/-	1+4	

A.Y: 2020 – 2021

Sl. No.	Name of the Faculty	Title of the Product developed/ still in incubation	Total cost	Collaborated agencies	No of faculty /student involved	Product Image
1	Dr. Y.K.S Subbarao	Developing Shredder Machine for recycling the plastic to make plastic bricks	60,000	i2E - APSSDC	1+4	
2	Dr. Y.K.S Subbarao	Developing an extrusion machine to make plastic flexible wire from plastic scrap	40,000	i2E - APSSDC	1+4	

A.Y: 2019 – 20

Sl. No.	Name of the Faculty	Title of the Product developed/ still in incubation	Total cost	Collaborated agencies	No of faculty /student involved	Product Image
1	Mr M Prem Kumar	Scrap to weltyh	20,000	In-House Project	10	

b) Research laboratories:

An exclusive R&D workshop is available for staff and students for doing research projects.

The following research facilities are available in the departmental laboratories.

Details of facility available for Research Work:

S.NO	Name of the Laboratory	Items
1	R&D Lab	3D printer Mini CNC milling
2	TOM Lab	Whirling Of Shaft Apparatus
		Apparatus cam analyzer
3	MMM Lab	Electro pneumatic actuator
4	MMS Lab	Quenching apparatus
		High temperature muffle furnace (1000 ^{0}c)
5	MOS Lab	Universal Testing machine
		Torsion testing machine
6	PT lab	Wood turning lathe machine
		Arc welding equipment
7	Metrology & ICS Lab	Tool makers microscope
		Auto collimator
8	HT Lab	Parallel flow counter flow heat exchanger with measuring jar
9	MCMT Lab	all geared lathe
10	ICs Lab	calibration of transducer for temperature measurement
11	TE Lab	4 stroke diesel engines with rope dynamometer
		3-cylinder 4 stroke petrol engine with hydraulic dynamometer

c) Instructional materials:

A.Y: 2021 - 2022

S No.	Name of the faculty	Name of the Course	Theory/ Lab/add on/others	Targeted audience	Printed / online
1	Dr Yarrapragada K S S RAO	IC engines & Gas Turbines	Theory	55	Printed

2	Dr Yarrapragada K S S RAO	Thermal Engineering –II	Theory	55	Printed
3	Dr. D V S S S V Prasad	Additive Manufacturing	Theory	72	Printed
4	Dr. D V S S S V Prasad	Production Planning and Control	Theory	72	Online
5	Dr. Anjibabu Merneedi	Mechatronics	Theory	72	Online
6	Dr. M Anjibabu Merneedi	Kinematics Of Machinery	Theory	72	Printed
7	Dr. Marxim Rahula Bharathi B	Mechanics of Solids	Theory	31	Online
8	Dr. Marxim Rahula Bharathi B	Theory Of machines Lab	Lab	55	Printed
9	Dr. Marxim Rahula Bharathi B	Design Of Machine Members-II	Theory	55	Printed
10	Dr. Marxim Rahula Bharathi B	Computational Fluid Dynamics Lab	Lab	72	Printed
11	Dr N Bhanu Teja	Fluid Mechanics & Hydraulic Machines	Theory	55	Printed
12	Dr N Bhanu Teja	Instrumentation & Control Systems	Theory	72	Printed
13	Mr. I Manoj Krishna	Production Technology	Theory	31	Online
14	Mr. I Manoj Krishna	Machine tools	Theory	55	Printed
15	Mr. I Manoj Krishna	CAEDP	Theory	55	Printed
16	Mr. M Sarat Chandra Prasad	Finite Element Methods	Theory	72	Printed
17	Mr. M Sarat Chandra Prasad	Non-Destructive Evaluation	Theory	72	Printed
18	Mr. P. Hari Chandra Prasad	Thermodynamics	Theory	31	Printed
19	Mr. M Sarat Chandra Prasad	Mechanical measurements and Metrology	Theory	55	Printed
20	Mr. M Sarat Chandra Prasad	Mechanical Measurements and metrology lab	Lab	31	Printed
21	Mr. M Prem Kumar Reddy	CAD/CAM	Theory	55	Printed
22	Mr. M Prem Kumar Reddy	Production Technology Lab	Lab	55	Printed
23	Mr. M Prem Kumar Reddy	Automobile Engineering	Theory	72	Printed
24	Mr. N Raveendra Reddy	Design Of Machine Members-II	Theory	55	Online
25	Mr. N Raveendra Reddy	Drafting & Modeling Lab	Lab	72	Printed

26	Mr. N Raveendra Reddy	Heat Transfer	Theory	55	Online
27	Mr. N Raveendra Reddy	Heat Transfer lab	Lab	55	Printed
28	Mr. K Venkata Ramana	Kinematics Of Machinery	Theory	31	Online
29	Mr. K Venkata Ramana	Thermal Engineering Lab	Lab	55	Printed
30	Mr. K Venkata Ramana	Metrology	Theory	55	Printed
31	Mr. K Venkata Ramana	Metrology lab	Lab	72	Printed
32	Mr. V Venkata Chaitanya	Production Technology	Theory	55	Online
33	Mr. V Venkata Chaitanya	Applied Thermodynamics	Theory	31	Printed
34	Mr. T Srinu	Advanced Materials	Theory	72	Online
35	Mr. T Srinu	Production Technology lab	Lab	55	Printed
36	Mr. T Srinu	Instrumentation & Control Systems	Theory	55	Printed
37	Mr. M Naga Mahesh	Mechanical measurements and Metrology	Theory	72	Printed
38	Mr. M Naga Mahesh	Dynamics of Machinery	Theory	55	Printed
39	Mr. M Vamsi	Thermodynamics & refrigeration systems	Theory	55	Online
40	Mr. M Vamsi	Mechatronics Lab	Lab	72	Printed
41	Mr. M Vamsi	Refrigeration & Air-Conditioning	Theory	72	Printed
42	Mr. R Siva Prasad	Power Plant Engineering	Theory	72	Printed
43	Mrs. S Swetha Radha	FM & HM	Theory	31	Online
44	Mrs. S Swetha Radha	FM & HM lab	Lab	72	Printed
45	Mr D Manikandan	Unconventional Machining Processes	Theory	72	Printed
46	Mr D Manikandan	Production planning & control	Theory	72	Printed
47	Mr M Balan	CAD/CAM	Theory	55	Printed
48	Mr M Balan	Operations Research	Theory	55	Printed
49	Mr M Balan	Metrology lab	Lab	72	Printed

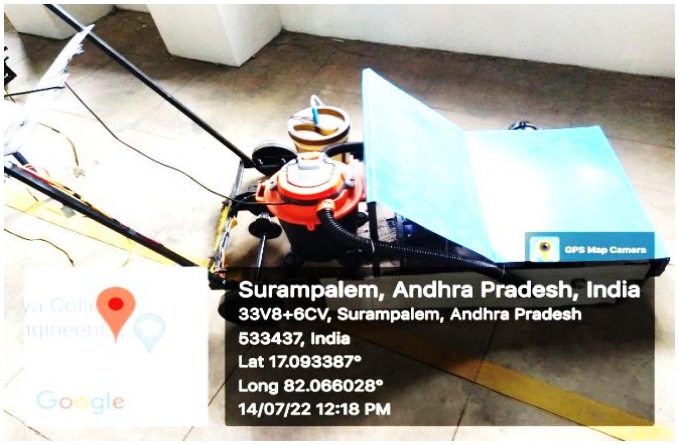
50	Mr N Prakash Kumar	Metal Cutting & Machine Tools	Theory	72	Printed
51	Mr N Prakash Kumar	Mechanical Measurements and metrology lab	Lab	72	Printed
52	Mr V Navneeth Krishna	Thermal & hydraulic prime movers	Theory	55	Printed
53	Mr DVN Prasad	Engineering Mechanics	Theory	31	Online
54	Mr DVN Prasad	Entrepreneurship	Theory	31	Printed
55	Mr N Govind Ganeswara Rao	Machine Drawing	Theory	55	Printed
56	Mr N Govind Ganeswara Rao	Theory Of machines Lab	Lab	55	Printed
57	Mr R Badrinath	Mechanical measurements and instruments	Theory	31	Printed
58	Mr R Badrinath	Thermal Engineering Lab	Lab	55	Printed
59	Mr R Badrinath	Computational Fluid Dynamics Lab	Lab	72	Printed
60	Mr J Trinadh	Production Technology for Agriculture machinery	Theory	31	Printed
61	Mr J Trinadh	Drafting & Modeling Lab	Lab	55	Printed

d) Working models/charts/monograms etc.

A.Y: 2021 – 2022

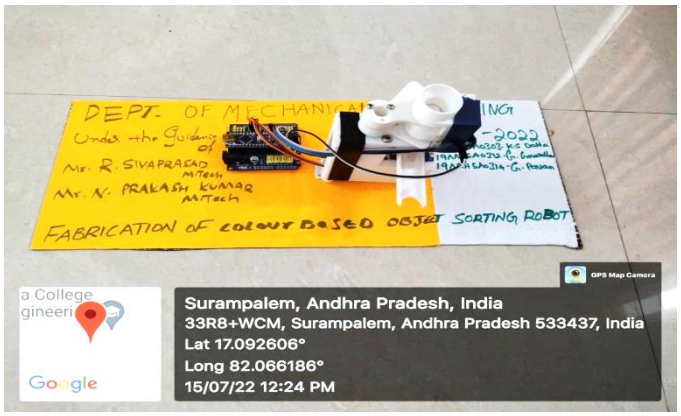
Sl. No	Name of the Faculty	Title of the Working models	Total cost	No of faculty /student involved	Remarks
1	Dr. Y.K.S Subba Rao Mr. S. Mugundhan	Fabrication of floor cleaning machine	20000/-	2+6	Multi-disciplinary research
2	Mr. P. Hari Chandra Prasad	Automatic seed dispensing Robot using IOT Technology	21000/-	1+4	Socially Relevant project
3	Mr. R Siva Prasad Mr. M. Balan	Colour based object sorting Robotic arm	14000/-	2+3	Logic based programming
4	Mr. N Raveendra Reddy Mr. N. Prakash Kumar	Fabrication of solar powered hacksaw	20000/-	2+5	Renewable energy or green energy utilisation
5	Dr Anjibabu Merneedi Mr. M. S. Ravitheja	Automatic coconut tree climbing machine	25000/-	1+4	Agriculture field utilisation
6	Dr Dvsssv Prasad Mr. M. Nagamahesh	IoT based Gas Pipe leakage detection Robot	25000/-	2+5	Modern tool based project

7	Dr. Marxim Rahula Bharathi B Mr. R. Badrinath	Design and development of hand writing Robot	20000/-	2+4	Python program has implemented
8	Dr. Y K S Subba Rao Mr. D. V. N. Prasad	Fertilizer spraying Robot	18000/-	2+4	Arduino programme-based robot
9	Mr K V Ramana Mr. D. Manikandan	Advance military spying and bomb disposal robot with wireless RF camera	25000/-	2+5	Society and safety-based project
10	Mr. M Sarat Chandra Prasad Dr. N. Krishnan vadivel	Automatic tyre inflation system	21000/-	2+5	Socially Relevant project
11	Mr. M Prem Kumar Reddy	Android based pick and place Robot	15,000	1+4	Study of robotics purpose
12	Mr. M Sarat Chandra Prasad	Agricultural wheel sprayer	19000/-	1+5	Agriculture field utilisation



Fabrication of floor cleaning machine

Automatic seed dispensing Robot using IOT Technology



Colour based object sorting Robotic arm

Fabrication of solar powered hacksaw

	
Automatic coconut tree climbing machine	IoT based Gas Pipe leakage detection Robot
	
Design and development of hand writing Robot	Fertilizer spraying Robot
	
Advance military spying and bomb disposal robot with wireless RF camera	Automatic tyre inflation system
	
Android based pick and place Robot	Agriculture wheel sprayer

A.Y: 2020 - 2021

Sl. No.	Name of the Faculty	Title of the Working models	Total cost	Collaborated agencies	No of faculty /student involved	Remarks
1	Dr Anjibabu Merneedi	Automated Guided Vehicle	15000/-	T-Hub	6	Multi-disciplinary research
2	Mr R Siva Prasad	Fabrication of Motorized Four Way Power Hacksaw	22000/-	-	8	Fabrication of mechanism/Machine
3	Mr M Vamsi	Solar Pond	12000/-	-	4	Demo of an Alternate source of energy
4	Mr M Sarat Chandra Prasad	Robotic Arm (Arm Controlled)	50000/-	T-Hub	11	Demo of capturing human arm motion and perform action.

Automated Guided Vehicle

Fabrication of Motorized Four Way Power Hacksaw

Semi-automatic hammering and punching machine

Robotic Arm (Arm Controlled)

	
Efficycle	**Go-kart**
	
Battery Vehicle- 9-Seater	**BAJA**

A.Y: 2019 – 2020

Sl. No.	Name of the Faculty	Title of the Working models	Total cost	Collaborated agencies	No of faculty /student involved
1	Mr R Srinivas	Efficycle	305000	In- House Project	12
2	Mr P Satish	Go-kart	100000	In- House Project	12
3	Mr M Naga Mahesh	Battery Vehicle- 9-Seater	200000	In- House Project using for intra campus transport	20
4	Mr P SVSSR Krishna	BAJA	500000	In- House Project	12

A.Y: 2018 – 2019

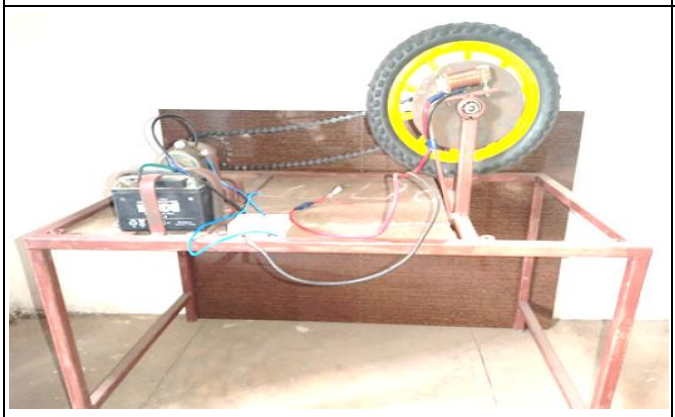
Sl. No.	Name of the Faculty	Title of the Working models	Total cost	Collaborated agencies	No of faculty /student involved
1	Mr M Prem Kumar Reddy	Double Pipe Heat Exchanger - Experiment Setup	35000	In – House project	10
2	Mr M Surya Teja	Wind powered cycle	40000	In – House project	12
3	Mr G Venkataphy	Agriculture Tractor	100000	In – House project	18
4	Mr K prudvi Ravi kumar	Multi fuel bike	50000	In – House project	12
5	Mr P Uday Kiran	Compressed Air Vehicle	100000	In – House project	20
6	Mr B Srikanth	2 Stroke 4-Wheeler	50000	In – House project	12
7	Ms Upasana Chaini	Regenerative Braking system	50000	In – House project	12
8	Mr K Venkata Ramana	Battery Vehicle- 4-Seater	80000	In – House project	10

Double Pipe Heat Exchanger - Experiment Setup

Wind powered cycle

Agriculture Tractor

Multi fuel bike

	
Compressed Air Vehicle	**2 Stroke 4-Wheeler**
	
Regenerative Braking system	**Battery Vehicle- 4-Seater**

5.8 Faculty Performance Appraisal and Development System (FPADS) (30)

System for Faculty Appraisal

Aditya College of Engineering (ACOE) established its internal Quality Assurance Cell (IQAC) on 09-06-2016 with an aim to check and improve the quality in the system. IQAC is constituted with all the stakeholders include Students, Alumni, HoDs, Senior Staff Members from both teaching and nonteaching, Management members, members from industry and their nominee, local community. IQAC has been the driving force in all the activities of the Institute. It is performing following tasks on regular basis.

- Focus on the institute functioning and its quality
- Improvement in quality of teaching and research by regular inputs to all concerned based on feedback from students.
- Propagate information of quality parameters
- Providing inputs for best practices in administration for efficient resource utilization and better services to students and staff.
- Organize seminars/guest lectures/workshops on quality-related themes

- Providing inputs for Academic and Administrative Audit and analysis of results for improvement in areas found weak.

Assessment of Faculty Performance.

Teaching, Learning and Evaluation Related Activities.

Teaching:

- Qualified and experienced faculty as per UGC norms
- Classroom teaching with novel methodologies like video presentations, Power point presentations, discussion mode of learning etc
- Regular monitoring of student punctuality to class, personal counselling, clarifying subject queries, and conducting extra classes for weaker students as well as remedial classes.
- Inviting guest lectures from reputed institutes and industries to update with the latest technologies.
- Practical knowledge through laboratory, Industrial visits, and prototype designs.

The examination system is based on a continuous internal assessment method-where a student is evaluated throughout the semester on the basis of his/her classroom participation attendance, assignments, online MCQs, followed by major examinations in a semester.

Involvement in students related activities/research activities.

- Administrative responsibilities such as Head/proctor/Class In charges/Coordinator etc.
- Extra - curricular activities for students like workshops, Industrial visits, career counselling, student clubs, Incubation activity, National Service Scheme, NCC, Cultural, Sports and community services.
- Guiding students in minor and major projects for their graduation.
- Chairing of conference sessions in student paper presentations and prototype projects.
- Examination and paper evaluation duties assigned by the university and college central Exam cell.
- Monitoring the research projects and publishing the research outcomes in reputed journals.

Implementation:

- To evaluate the faculty research and departmental activities, the department uses the internal college management-approved self-appraisal approach.
- The internal quality assessment committee collects the data from every faculty to the head of the department.
- These appraisals help to judge the merit of the faculty members in applying for salary increments and personal promotions. Initially evaluated by the head of the department and then followed by a principal to reach the chairman.

The following are the various sections of self-appraisal form

- General Information
- Academic Qualifications
- Experience
- Subject average pass percentage
- Proctoring students' average percentage
- Student pass percentage (Theory)
- Research publications in journals (SCI/Scopus Indexed) and academic contributions
- Research publications in Conferences
- Additional responsibilities in department

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Aditya Nagar, ADB Road, Surampalem - 533 437, E.G.Dist., Ph: 99631 76662.

TEACHING STAFF SELF ASSESSMENT FORM
A.Y: 2020 – 2021

1. General Information

(a) Name in full : (in block letters)

(b) Department :

2. Academic Qualifications

Qualification	Year of Passing	Institution
UG :		
PG :		
PhD:		

Additional Qualifications :

Fellowships/Memberships/Certificate Courses

Area of specialization, if any :

Date of Joining :

Present Designation and date of Appointment :

Present Designation and date of Appointment :

3. Experience:

Industrial experience if any :

Teaching experience total :

Name of the college	From (Date/Month/Year)	To (Date/Month/Year)	Experience in Years
Aditya College of Engineering			
Other Colleges			

4. Subjects Average Percentage:

S. No	Subject Name	Year –Sem Branch-Sec	No. of Students Appeared (A)	Passed (B)	Pass Percentage (B/A*100)	Average %	Self-Assessment Marks
						> = 90 - 20 > = 80 & <90 -15 > = 70 & < 80 - 10 > = 60 & < 70 - 5 < 60 - 0	

5. Proctoring Students Average Pass Percentage

S. No	No of Students allotted for proctoring	Year – Sem-Branch	No. of students eligible for end exams (A)	No. of Students passed (B)	Percentage (B/A) *100	Average %	Self-Assessment Marks
1							
2						> = 70 - 20 > = 65 & < 70 - 15 > = 60 & < 65 -10 > = 55 & < 60 -5 < 55 -0	
3							
4							

6. **Students Feedback: (Theory Subjects Only)**

S. No	Year –Sem-Branch	Subject Name	No. of Students	Percentage	Average %	Self-Assessment Marks
1						
2						

3					> = 90 - 20 > = 85 & < 90 - 15 > = 80 & < 85 -10 > = 75 & 80 - 5 < 75 - 0
4					
5					
6					

7. Research Publications and Academic Contributions

S. No	Type of Research Papers	No. of Papers	Maximum Self-Assessment Marks	Obtained Self-Assessment Marks (Maximum Marks-20)
1	Scopus/SCI indexed paper /Chapter/ Book		20	
2	National/International Journals		15	
3	Reputed conference Papers		10	
4	Journal/Conference Papers		5	
5	No Journal/Conference Papers		0	

a) Scopus/SCI Indexed Papers:

S. No	Journal Details and Title with Page No	ISSN/ISBN No.	Whether Peer reviewed Impact Factor, If any	Specify Author1/Author2 /Author3
1.				

b) National /International Journals (Non-Paid)

S. No	Journal Details and Title with Page No	ISSN/ISBN No.	Whether Peer reviewed Impact Factor, If any	Specify Author1/Author2/ Author3
1				
2				
3				

c) Reputed conference Papers.

S. No	Title with Page No	National/International Conference	Details of Conference	Specify Author1/Author2/ Author3
1				
2				

d) Journal/Conference Papers.

S. No	Title with Page No	National/International Conference	Details of Conference	Specify Author1/Author2/ Author3

e) Books/Book Chapters:

S. No	Title with Page No	Publisher	ISSN/ISBN	Specify Author1/Author2/Author3
1				
2				

8. Workshops, Teaching-Learning-Evaluation Technology Programs, STTP (Short Term Training Programs) Attended.

S. No	Program	Duration	Date &Place	Organized by
1				
2				

9. Staff Appraisal Points Earned:

Subject Average Pass %	Subject Average Attendance%	Average Academic Classes %	Proctoring Students Pass%	Proctoring Students Average Attendance	Student Feedback	Research Publications and Academic Contributions	Total Out of 80

10. Additional responsibilities in the Department/College:

S. No	Responsibility	Assigned by	Duration

Date: **Signature of the Faculty**

Remarks of the HOD:

Signature

Remarks of the Principal:

Signature

5.9 Visiting/Adjunct/Emeritus Faculty etc. **(10)**

A.Y: 2021-22

S. No.	Name of the Visiting Faculty	Designation/ organization	Year & Semester	Subject Handled	No. of hours
1	Dr K Mallikarjuna Rao	Professor (Retd)/ UCEK JNTUK	IV Year- I Sem	Finite element methods	14
			III Year -I Sem	Design of Machine Members-II	12
2	Mr Ibrahim Khaleel	Service Engineer VOLTAS, Hyderabad	II Year - II sem	Thermal Engineering	16
			IV Year- I Sem	Power Plant Engineering	11
Total Hours					53

A.Y: 2020-21

S. No.	Name of the Visiting Faculty	Designation/ organization	Year & Semester	Subject Handled	No. of hours
1	Dr K Mallikarjuna Rao	Professor (Retd)/ UCEK JNTUK	IV Year- I Sem	Finite element methods	14
			III Year -I Sem	Dynamics Of Machinery	12
2	Mr A. Sainadh	Senior Engineer, RKM Power Gen Ltd, Chattisgarh	IV Year- II Sem	Power Plant and controls	16
			III Year -II Sem	Instrumentation & control systems	11
Total Hours					53

A.Y: 2019-20

S. No.	Name of the Visiting Faculty	Designation/organization	Year & Semester	Subject Handled	No. of hours
1	Mr Veeresh Prasad Tiruvuri	Head- India services: process Automation, Schneider Electric	IV Year- I Sem	Mechatronics	14
			III Year -I Sem	Mechanical Measurements & Metrology	12
2	Dr V Ramachandra Raju	Professor,	IV Year- II Sem	Heat Transfer	16

		Dept Of Mechanical Engineering, Puducherry Technological University	III Year -II Sem	Non-Destructive Evaluation	11
Total hours					**53**

*****

CRITERION 6	Facilities and Technical Support	80

6. Facilities and technical support **(80)**

6.1. Adequate well-equipped laboratories and Technical Man power **(30)**

S. No.	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the Important Equipment	Weekly utilization	Technical Manpower Support		
					Name of the Technical Staff	Designation	Qualification
1	Theory of Machines Lab	3	1. Universal vibration system spring mass system. 2. Static and Dynamic balancing System.	57.14%	Mr. K Janakiramayya	Technician	Diploma
2	Instrumentation & Metrology Lab	3	1. Tool makers microscope 2. McLeod Gauge 3. Autocollimator	14.28%	Mr S Ravi Babu	Technician	Diploma
3	Fluid Mechanics and Hydraulic Machines Lab	3	1. Kaplan Turbine Test Rig 2. Orifice and Mouth Piece Tank Apparatus 3. Notch Tank Apparatus	42.86%	Mr CH Pramod	Technician	B. Tech
4	Machine Tools Lab	3	1. Universal Cylindrical Grinding Machine 2. All geared lathe 3. Universal Milling Machine	42.86%	Mr K Annavaram	Technician	ITI
5	Thermal Engineering Lab	3	1. 3-Cylinder 4-stroke Petrol engine rig with hydraulic dynamometer 2. 4-Stroke Single cylinder Diesel engine with mechanical rope brake dynamometer 3. 2-Stroke Petrol engine with DC supply unit	14.28%	Mr CH Pramod	Technician	B. Tech

6	Production Technology Lab	3	1. Hydraulic press – Hand operated 2. Blow moulding machine with Die 3. Spot welding machine	28.57%	Mr K Annavaram	Technician	ITI
7	Heat Transfer Lab	3	1. Condensation in drop wise and film wise kit 2. Critical heat flux apparatus 3. Heat transfer from pin-fin apparatus	42.86%	Mr. K Janakiramayya	Technician	Diploma
8	Metallurgy and Material Science Lab	3	1. Metallography Mounting Press 2. Jominy End Quench Apparatus 3. Double Disc Polishing Machine	57.14%	Mr B Satish Chandra	Technician	Diploma
9	Mechatronics Lab	3	1. Plc Trainer Kit 2. Lift Controller Working Module	28.57%	Mr S Ravi Babu	Technician	Diploma
10	Engineering Workshop	3	1. Open hearth with blower 2. Swage Block 3. Anvil	42.86%	Mr B Satish Chandra	Technician	Diploma
11	CAD/CAM/CAE Lab	-	1. Solid Works 2. Ansys 3. MATLAB 4. AutoCAD	35.71%	Mr. Mohan Srinivas	Technician	B. Tech.

Table: 6.1

6.2. Additional facilities created for improving the quality of learning experience in laboratories (25)

S. No.	Facility Name	Details	Reason(s) for creating facility	Utilization	Areas in which students are expected to have enhanced learning	Relevance to POs/PSOs
1	Bernoullis Theorem Apparatus	Sump Tank: 250*300*300mm Motor Capacity: 0.5HP Voltage: 220V	Designed for the verification of Bernoulli's theorem	Open to utilize in working hours	Applied Fluid Mechanics	PO1, PO2, PO3, PO9, P10, PSO1, PSO2

2	Notch Tank Apparatus	Sump Tank: 2000*300*300 mm Notch Tank: 2000*200*200 mm. Measuring Tank: 600*300*500 mm Motor Capacity: 0.5HP Voltage: 220V	Designed to Conduct Experiments on the Co-efficient of Discharge of Notches	Open to utilize in working hours	Applied Fluid Mechanics	PO1, PO2, PO3, PO9, P10, PSO1, PSO2
3	Orifice and Mouthpiece Tank Apparatus	Sump Tank: 1250*300*500 mm Supply Tank: 300*300*1000 mm Collecting Tank: 300*300*600 mm Motor Capacity: 0.5HP Voltage: 220V	Designed to Conduct Experiments on the Co-efficient of Discharge of Orifices and Mouthpieces	Open to utilize in working hours	Applied Fluid Mechanics	PO1, PO2, PO3, PO9, P10, PSO1, PSO2
4	Four Bar Mechanism	40X40 CM metallic board	To analyze the basic principles of four bar mechanism	Open to utilize in working hours	Theory of machines	PO1, PO2, PSO1, PSO2
5	Portnel Governor	16x 23.5 inch with 200W and 1500 rpm motor.	To regulate the fluctuation of the rotating machine members.	Open to utilize in working hours	Theory of machines	PO1, PO2, PSO1, PSO2
6	Cylindrical bore gauge	Bore size: 35 mm - 50mm with washers	To measure the internal dimensions of bore in IC engines.	Open to utilize in working hours	Mechanical Measurements	PO1, PO2, PSO1, PSO2
7	Hydraulic Control V-Belt Driven Hacksaw Machine	V-belt driven 1hp 3-phase motor Model no. VK-8 Size - 8"	To prepare metal specimens in adequate dimensions using metal cutting process.	Open to utilize in working hours	Metal cutting and machine tools	PO1, PO2, PSO1, PSO2

Table: 6.2

6.3 Laboratory: Maintenance and overall ambience (10)

Regular check-up of equipment is carried out at the end of every day by the lab technical staff. Preventive maintenance is carried out to reduce the possibility of breakdown. Breakdown register is maintained in the laboratories. As per the requirement minor repairs are carried out by the lab technical staff. Major repairs are outsourced.

S. No.	Name of the Lab	Area in m^2	Periodic maintenance
1	Theory of Machines Lab	104	Weekly once
2	Instrumentation & Metrology Lab	104	Weekly once
3	Fluid Mechanics and Hydraulic Machines Lab	167	Weekly once
4	Machine Tools Lab	167	Weekly once
5	Thermal Engineering Lab	104	Weekly once
6	Production Technology Lab	167	Weekly once
7	Heat Transfer Lab	103	Weekly once
8	Metallurgy and Material Science Lab	111	Weekly once
9	Mechatronics Lab	103	Weekly once
10	Engineering Workshop	290	Weekly once
11	CAD/CAM/CAE Lab	146	Weekly once

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DEPARTMENT OF MECHANICAL ENGINERING

Theory Machines Lab

Lab Occupancy Chart

Venue: JWB – 305 A.Y: 2021 – 2022

Period/ Day	1	2	3	4	5	6	7	8
	9:30 – 10:20	10:20 – 11:10	11:10 – 12:00	12:00 – 12:50	12:50 – 1:50	1:50 – 2:40	2:40 – 3:30	3:30 – 4:20
MON					LUNCH	II ME A		
TUE		II ME B				IV – II Project		

WED				IV – II Project
THUR		Lab Maintenance		II ME B
FRI		II ME A		IV – II Project
SAT				IV – II Project

Physical Lab In-charge	**Mr. R Siva Prasad**	
3/5 ME A Section	Faculty In-charge	Mr. D Manikandan
	Supporting Faculty	Mr. N Prakash Kumar, Mr. R Badrinath and Mr. K Venu Vardhan
3/5 ME B Section	Faculty In-charge	Mr. R Siva Prasad
	Supporting Faculty	Mr. N Raveendra Reddy, Mr. M Balan and Mr. N Vijay Kumar

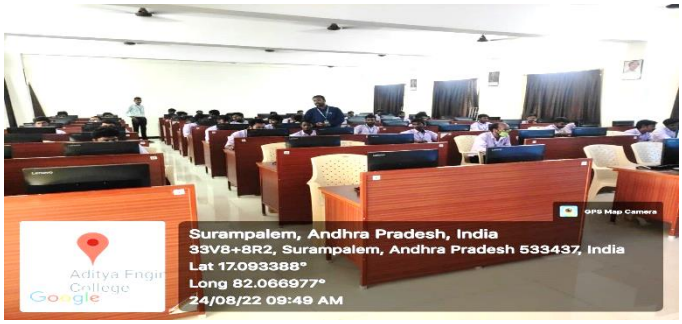
Lab Technician: Mr. K Janaki Ramaiah

Lab In - Charge

Lab Images:

Mechatronics Lab

Engineering Workshop



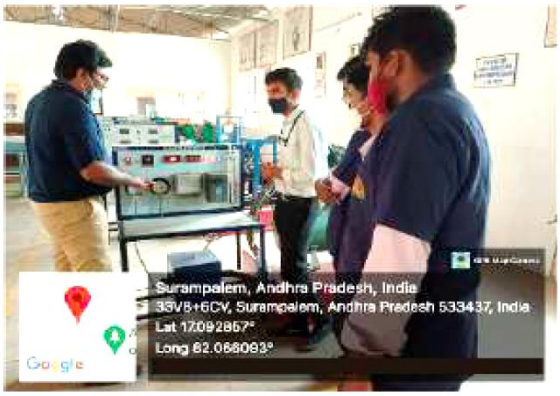
CAD/CAM/CAE Lab

Theory of Machines Lab

ICS/Metrology Lab

Fluid Mechanics and Hydraulic Machines Lab

Machine Tools Lab



Thermal Engineering Lab

Production Technology Lab

Heat Transfer Lab

Metallurgy and Material Science Lab

6.4. Project Laboratory **(5)**

1. The department is equipped with the project laboratory with area of 103.95 Sq. meters.
2. Project laboratory consists of well configured computer systems.
3. All the systems and projects models in the laboratory are provided to the students can utilize the facility during their course project work.

The lab is dedicated for projects. High configuration computer systems installed with software's like AutoCAD, Ansys, Minitab, and MATLAB and it is used by the students to execute their academic projects.

List of activities/projects done in this project lab:

AY: 20021- 22

S. No.	Hall Ticket Number	Project Title	Name of the Guide
1	19MH5A0314	Fabrication of Colour Based Object Sorting Robotic	Mr. R Siva Prasad and Mr. N. Prakash Kumar.
	19MH5A0312		
	18MH1A0303		
2	19MH5A0319	Automatic Seed Dispensing Robot Using IOT Technology	Mr. P. Hari Chandra Prasad
	19MH5A0323		
	19MH5A0310		
	18MH1A0306		
3	19MH5A0348	IOT Based Gas Pipe Detection Insect Robot	Mr. C. Ram Mohan Rao
	19MH5A0332		
	19MH5A0338		
	19MH5A0347		
	17MH1A0306		
4	19MH5A0344	Design and Development of Hand Writing Robot	Dr. Marxim Rahula Bharathi B and Mr. R. Badrinath
	19MH5A0370		
	19MH5A0355		
	19MH5A0356		

S. No.	Hall Ticket Number	Project Title	Name of the Guide
5	19MH5A0335	Fertilizer Spraying Robot	Dr. Y K S Subba Rao and Mr. D.V.N. Prasad
	19MH5A0349		
	19MH5A0361		
	19MH5A0340		
6	19MH5A0368	Advance Military Spying and Bomb Disposal Robot with Wireless RF Camera	Mr. K V Ramana
	19MH5A0360		
	19MH5A0351		
	19MH5A0341		
	19MH5A0306		
7	19MH5A0336	Experimental Investigation of Solar Air Heater with Extended V-Shaped Baffles	Mr. M Prem Kumar Reddy
	19MH5A0354		
	19MH5A0358		
	19MH5A0363		
	19MH5A0334		
	19MH5A0353		
	19MH5A0364		
	19MH5A0350		
8	19MH5A0357	Android Based Pick and Place Robot Vehicle for Industries	Mrs. S Swetha Radha and Mr. I. Manoj Krishna
	19MH5A0365		
	19MH5A0352		
	19MH5A0359		
9	19MH5A0369	Agricultural Wheel Sprayer	Mr. M Sarat Chandra Prasad
	19MH5A0367		
	19MH5A0339		
	19MH5A0331		
	19MH5A0333		
10	19MH5A0317	Fabrication of Voice Control Robot Arm	Mr. M. Balan and Mr. R Siva Prasad.
	19MH5A0303		
	19MH5A0325		
	18MH1A0309		

AY: 2020-21

S. No.	Hall Ticket Number	Project Title	Name of the Guide
1	17MH1A0301	Design And Fabrication of Thermoelectric Refrigerator and Heater	Mr. N. Raveendra Reddy
	18MH5A0321		
	18MH5A0305		
	17MH1A0308		
2	18MH5A0319	Prototype Modelling of An Automated Guided Vehicle	Dr. M. Anjibabu
	17MH1A0302		
	18MH5A0318		
	17MH1A0313		
	18MH5A0338		
	18MH5A0343		
	18MH5A0354		
	18MH5A0362		
3	18MH5A0331	Design Optimization of Mechanical Components Using Genetic Algorithm.	Dr. D.V.S.S.S.V. Prasad
	18MH5A0353		
	18MH5A0345		
	18MH5A0356		
4	17MH5A0334	Design And Fabrication of Plastic Shredder Machine	Dr. Y K S Subba Rao
	16MHIA0313		
	17MH5A0301		
	17MH5A0348		
	17MH5A0308		
5	18MH5A0306	Kinect WIFI Robot Arm	Mr. M. Sarat Chandra Prasad
	18MH5A0307		
	18MH5A0314		
	18MH5A0308		
	18MH5A0316		

(Mention facilities & Utilization)

S. No.	Name of the Facilities	Utilization
1	AutoCAD	II-year students, Faculty members.
2	Ansys	III- and IV-year students, Faculty members.
3	Minitab	IV-year students, Faculty members.
4	MATLAB	III- and IV-year students, Faculty members.
5	Python	IV-year students, Faculty members.

6.5.Safety measures in laboratories **(10)**

S. No.	Name of the Laboratory	Safety Measures
1	Theory of Machines Lab	1. General rules of conduct & safety rules in laboratories are displayed. 2. Fire extinguisher is provided. 3. Apron is provided. 4. First aid kit is provided. 5. Earthing properly done for required equipment. 6. Before using an instrument or machine, be sure to know how to turn it off in case of emergency. 7. Check all electrical connections and mounting fasteners before each use. 8. Check that all rotating parts are free to turn, and that there is no mechanical obstruction before operating. 9. Don't cross the yellow line 10. Avoid wearing jewellery in the lab as this can pose multiple safety hazards.
2	Instrumentation & Metrology Lab	1. General rules of conduct & safety rules in laboratories are displayed. 2. Fire extinguisher is provided. 3. Apron is provided. 4. First aid kit is provided. 5. Earthing properly done for required equipment. 6. Avoiding the use of damaged equipment and providing needful equipment and components. 7. Be sure your hands and lab area are dry before using the electrical equipment.
3	Fluid Mechanics and Hydraulic Machines Lab	1. General Rules of Conduct & Safety Rules are displayed. 2. Fire extinguishers are provided according to the

		applicability. 3. First aid kit is provided. 4. Earthing properly done for required equipment. 5. Avoid wearing jewelry in the lab as this can pose multiple safety hazards. 6. After changing the vane, the glass door should be closed tightly. 7. Carefully maintain the water in the collecting tank and the water should not over flow from it. 8. Check that all rotating parts are free to turn, and that there is no mechanical obstruction before operating. 9. Operate the valves carefully, so that it doesn't disturb the mercury drastically.
4	Machine Tools Lab	1. General Rules of Conduct & Safety Rules are displayed. 2. Fire extinguishers are provided according to the applicability. 3. First aid kit is provided. 4. Earthing properly done for required equipment. 5. Use goggles for sparks, spatter, avoid the watch clearly with bare eyes. 6. Don't cross the yellow line 7. Ensure clamping on surface grinding machine before taking a cut. 8. Never give higher feed or depth of cut for the lathe machines. 9. Do not handle chips with bare hands, use brush or hand gloves. 10. Do not remove the chip while the machine is running. 11. Avoid wearing jewellery in the lab as this can pose multiple safety hazards.
5	Thermal Engineering Lab	1. General Rules of Conduct & Safety Rules are displayed. 2. Fire extinguishers are provided according to the applicability. 3. First aid kit is provided. 4. Earthing properly done for required equipment. 5. Avoid wearing jewelry in the lab as this can pose multiple safety hazards. 6. Don't cross the yellow line. 7. Don't touch the engines while running.

		8. To avoid back kick while starting the diesel engine, hold the supports carefully. 9. Don't use fire near to the fuel storage.
6	Production Technology Lab	1. General Rules of Conduct & Safety Rules are displayed. 2. Fire extinguishers are provided according to the applicability. 3. First aid kit is provided. 4. Earthing properly done for required equipment. 5. Don't cross the yellow line 6. Special gloves should be used for heat treatment process and thermally activated equipment like furnace. 7. Do not handle chips with bare hands, use brush or hand gloves. 8. Apron, Gloves, Goggles are provided. 9. Never work in the laboratory without proper supervision by an instructor. 10. Avoid wearing jewelry in the lab as this can pose multiple safety hazards.
7	Heat Transfer Lab	1. General Rules of Conduct & Safety Rules are displayed. 2. Fire extinguishers are provided according to the applicability. 3. First aid kit is provided. 4. Avoid wearing jewelry in the lab as this can pose multiple safety hazards. 5. Earthing properly done for required equipment.
8	Metallurgy and Material Science Lab	1. General Rules of Conduct & Safety Rules are displayed. 2. Fire extinguishers are provided according to the applicability. 3. First aid kit is provided. 4. Avoid wearing jewellery in the lab as this can pose multiple safety hazards. 5. Earthing properly done for required equipment.
9	Mechatronics Lab	1. General Rules of Conduct & Safety Rules are displayed. 2. Fire extinguishers are provided according to the applicability. 3. First aid kit is provided. 4. Earthing properly done for required equipment.

		5. Use equipment only for its designated purpose. 6. No cell phone or ear phone usage in the active portion of the laboratories, or during experimental operations. 7. Do not spill water or any other liquid on the machine. It can cause short circuit fire as well as damage the machine. 8. Cables should be placed properly.
10	Engineering Workshop	1. General Rules of Conduct & Safety Rules are displayed. 2. Fire extinguishers are provided according to the applicability. 3. First aid kit is provided. 4. Apron, Gloves, Goggles are provided. 5. Earthing properly done for required equipment. 6. Avoid wearing jewellery in the lab as this can pose multiple safety hazards. 7. Do not handle chips with bare hands, use brush or hand gloves. 8. Don't cross the yellow line.
11	CAD/CAM/CAE Lab	1. General Rules of Conduct in Laboratories are displayed. 2. Fire Extinguisher is provided. 3. CCTV Camera attached in all labs. 4. Periodical servicing of the lab equipment. 5. Maintenance of log register in the lab 6. Computers should be turned off properly before leaving the lab. 7. Students must remove their foot wear before entering into the lab. 9. All the students are provided with authenticated personal logins.

*****

CRITERION 7	Continuous Improvement	50

7. CONTINUOUS IMPROVEMENT (50)

7.1. Actions taken based on the results of evaluation of each of the POs & PSOs (20)

POs	Target Level	Attainment Level	Observations
PO1: Engineering Knowledge			
PO1	2.74	2.50	Target Not Achieved even though PO was well mapped for most of the subjects. Low CO attainments are observed in few problematic subjects, performance to be improved in the following courses C211, C221, C315, C412, C413, C414.
Action 1: Students are advised to put more efforts to practice the complex problems in C211. Action 2: More tutorial classes will be conducted to improve the fundamentals of engineering mathematics for week students in C221. Action 3: More No. Of assignments and tutorial problems are planned to cover the important topics in C315. Action 4: Students are advised to focus on solving the problems with higher order elements in C414.			
PO2: Problem Analysis			
PO2	2.06	2.51	Target Achieved. Few observations are identified like problem solving skills are lagging in the following courses C215, C212, C223, C224, C226, C313, C315, C324, C323.
Action 1: More no. of classes is conducted to explain the complex problems in C223. Action 2: Students are advised to learn the effective usage of design data book to solve the complex problems in C313.			
PO3: Design/development of Solutions			
PO3	1.72	2.49	Target Achieved. Even though few observations are identified like few students are lagging in selection of appropriate method to solve the problems in the

			following courses – C212, C215, C222, C226, C311, C323, C314, C413.
Action 1: students need to spend the extra hours at the home in solving the problems to identify the appropriate method in C212, C222, C311, C323. Action 2: Additional classes to be taken to address the solving the problem using learned concepts of C215, C314, C413.			
PO4: Conduct Investigations of Complex Problems			
PO4	1.55	2.42	Target Achieved. Students are lagging in addressing the industrial problems by using learned core knowledge from the courses – C212, C223, C224, C226, C323, C324, C417, C426
Action 1: Students are guided to deliver the research-oriented projects to address the industrial need through the knowledge acquired from – C323, C324, C426			
PO5: Modern Tool Usage			
PO5	1.98	2.49	Target Achieved.
Action 1: More no of tutorial sessions are planned to practice the software's like solid-works, AutoCAD in C412, C417, C328. Action 2: one week training sessions are conducted to the students on CNC programming and machining by APSSDC – C417			
PO6: The Engineer and Society			
PO6	1.79	2.56	Target Achieved
Action 1: Students are advised to utilise the resources from the online forms like Research gate, Nptel etc to meet the industry and society needs by developing the real time industrial projects.			
PO7: Environment and Sustainability			
PO7	1.87	2.57	Target Achieved
Action 1: Expert lecture was conducted to the students on 'Emission control and its importance'. Action 2: Students designed a vehicle to participate in the competition like SAE – Efficycle by focussing on environmental issues.			

PO8: Ethics			
PO8	2.16	2.67	Target Achieved
Action 1: Guest lecture are planned by alumni and professions from industry on IPR and ethical practice in professional life.			
PO9: Individual and Team Work			
PO9	1.94	2.57	Target Achieved
Action 1: Project guide is focused on the project batch by assigning the works and responsibilities to inculcate the team work and individual progress. Action 2: The laboratory work of the students is conducted by framing student groups so that students learn to work in a team environment.			
PO10: Communication			
PO10	1.70	2.62	Target Achieved
Action 1: Soft skills and CRT training sessions are imparted to the students to enhance the technical/ communication by group discussions, presentations and seminars. Action 2: More no of seminar sessions are conducted to students to improve the communication skills. Action 3: Special classes by English faculty are planned on report writing and effective presentation.			
PO11: Project Management and Finance			
PO11	2.23	2.61	Target Achieved
Action 1: Students are advised to adopt the concepts like planning & Control, Inventory management and scheduling policies learned in PPC (C421) course while executing the projects.			
PO12: Life-long Learning			
PO12	2.10	2.51	Target Achieved
Action 1: Students are encouraged to concentrate on core subjects which will helps to peruse higher education and preparation for various competitive exams (Gate, IES).			

Action 2: Students advised to refer the subjects that gives a broad concept regarding the recent advancements in core technologies.

PSOs	Target Level	Attainment Level	Observations
PSO1	1.76	2.55	Target Achieved

PSO1: Apply the analytical skills of Mathematics, Basic Sciences and Mechanical Engineering streams to formulate, analyse and provide solution to complex engineering problems.

Action 1: Expert lectures are planned with industry professionals in order to create the awareness on industrial/societal problems.

Action 2: Students are encouraged to develop the inter- disciplinary projects by applying the mathematics and core concepts.

PSOs	Target Level	Attainment Level	Observations
PSO2	1.96	2.58	Target Achieved

PSO2: Design system components & process of manufacturing, Thermal Engineering, Machine Elements and inter-disciplinary fields by applying appropriate techniques to meet the needs of industry and society.

Action 1: Students are encouraged to take up the industrial challenges during their project work so that they can design, analyze and find solution which gives exposure to latest technologies.

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7.2. Academic Audit and Action Taken thereof during the Period of Assessment (10)

(Academic Audit system/process and its implementation in relation to Continuous Improvement)

The aspects of continuous improvement in relation to attainment of POs and PSOs, Student Placement and Higher Education and Student Intake quality come under the ambit of Academic Audit Committee (AAC), Department Advisory Committee (DAC) and Program Assessment Committee (PAC).

1. Program Assessment Committee for a program, e.g., B.E. (Mechanical Engg).
   - Reviews COs targets and attainments in each course
   - Reviews POs/ PSOs targets and attainments
   - Identifies areas to address for improvement
   - Propose action plans for improvement
2. DAC considers the action plan proposed by PAC, deficiencies pointed out by AAC, and sends recommendations to Principal for approval.
3. AAC audits issues related to
   - Various mandatory standards of instruction like
     - ✓ Faculty & staff position, including cadre ratios
     - ✓ Infrastructure like classrooms, laboratories and equipment
     - ✓ Instruction material provided and evaluation system
     - ✓ Seminars, FDP etc., organized, Faculty and staff training
   - improvements in PO attainments,
   - improvement in Placement and students opting higher studies
   - action plans proposed & implemented

Procedure:

1. Department Advisory Committee, consisting of HOD and two senior faculty members obtains information on
   - i Target POs/PSOs and POs and CO and PO/PSO attainments for the program, and data on CO and PO/PSO attainments as well as proposed action plans, from each of the program Assessment Committees (PACs).
   - ii Data on on-Campus and off-campus placement from Placement Coordinator .
   - iii Data on higher education from department records.
   - iv Student intake of regular and lateral entry students from Academic section of the college.
   - v Infrastructure, faculty and staff position, and student attendance status and registers from office records.

vi Course files, laboratory manuals and records and assignment books from respective Faculty.

vii Student feedback- from counselling, course monitoring, student opinion poll, and student interaction committee from office or respective faculty or in charge.

viii Remarks of the University Inspection Committee from office.

The Academic Audit Committee consists of the HOD as Chairman, senior faculty members and a senior faculty member from other department.

Report of the Academic Audit Committee

Members of Academic Audit Committee:

1. Dr. Pullela S.V.V.S.R Kumar, Dean (A&A)
2. Dr. D.V.S.S.S. V. Prasad, Coordinator-IQAC
3. Dr. G. Ramakrishna, HOD-ECE
4. Dr. Y. K. S. Subba Rao, HOD - ME
5. Mr. K. Manoj Kumar Reddy, HOD-EEE
6. Mr. P. Poorna Mohan, HOD _ ME, GIET - RJY

ACADEMIC AUDIT REPORT

I-Department Profile		
S. No	**Description**	**Response**
1	Name of the Department	Mechanical Engineering
2	No: of Full time Permanent Faculty	24
3	No: of Adjunct Faculty	
4	No: of Contract Faculty	
5	No: of Guest Faculty	
6	No: of Academic Programmes	1 (B.TECH)
7	No: of core courses and electives in each programme	
i	B. Tech	Core courses-34 Elective course-9
ii	M. Tech	-
8	Student Strength	
i	II Year (Sanctioned: 120)	113

ii	III Year (Sanctioned: 180)	54
iii	IV Year (Sanctioned: 180)	82

II – Curricular Aspects: Teaching, Learning and Evaluation			
	Criteria	**Observations of the Expert Committee**	**Suggestions for Improvement**
10	Coverage of syllabus	Syllabus coverage is as per JNTUK Academic calendar	-
11	Course Files well maintained by faculty for all courses?	Yes	-
12	Lab manuals and Records issued for all labs?	Yes	-
13	Student Attendance registers maintained well	Yes	-
14	Innovations in Teaching introduced	Yes	Apart from the use of PowerPoint, Quiz and NPTEL new ways of learning methods to be introduced
15	Add on Courses/ Skill Development Courses conducted	Yes	Make it mandatory to complete certification
16	Use of Supplementary Teaching tools and Application of ICT	Yes	Apart from the use of PowerPoint, no other ICT enabled methods are being practiced in the Class room. May be focused on other modes
17	Remedial Courses Conducted	Yes	Track the weak learners performance in next academic year so that the improvement in their learning can be assesed

18	Conduct of Internal Examinations	Internal examinations are conducted based on pre-planned schedule given by JNTUK	-
19	Quality of Internal Question Paper.	Good	-
20	Quality of Assignments	Good	-
21	Result Analysis	Yes	Grade wise analysis need to be maintained for each course
22	Student Feedback on Teaching & Learning obtained twice / semester	Yes	Maintain the impact analysis on feedback
23	Course End Survey conducted for two semesters for all classes.	Yes	-
24	Classrooms – adequacy	Yes	-
25	Laboratories –Adequate number of labs and each equipped to perform experiments as prescribed?	Yes	-
26	**Library**- procured as per norms last year	Yes	-
27	**Computer labs**		
I	Required number of computer labs available	Yes	-
Ii	Computers in the labs have requisite configuration	Yes	-

28	Teachers concerned counselled for poor feedback	Yes	-
29	**Improvement in Attainment of COs and POs/PSOs**		
I	COs written well for each course & students informed	Yes	
Ii	CO targets attained in all courses	Maximum courses attained	Additional classes. Efforts to ensure coverage of all CO's an assignment needed
Iii	PO/PSO targets attained for the program	Attainment needs to be improved	-
Iv	Implemented Action plans proposed last year	Yes	-

III - Research, Consultancy and Extension.			
	Criteria	**Observations of the Expert Committee**	**Suggestions for Improvement**
30	No: of Research Guides in the Department	Nil	-
31	Research Papers published during the assessment period	25	-
32	Books Published	Nil	Encourage the faculty to publish books
33	Chapters in Books	Nil	Encourage the faculty to publish chapters in books
34	Seminars/Workshops/Training Programmes Conducted	1	Need to conduct more workshops

35	Expert lectures organised for students', faculty	4	-
36	Ongoing/ New MoU	13	Improve the industry interaction towards internships/placements.
37	Research Collaborations	Nil	-
38	Awards/ Achievements / Recognitions of students and Teachers	Students: 2	Students need to be encouraged to participate in different curricular and co-curricular activities at state and national level events.
39	Ongoing and newly implemented research Projects	Nil	Need to improve
40	Consultancy Services	Nil	Need to improve
41	Projects / schemes funded by AICTE – Applied/ progress / completed.	Applied:3	Need to improve

IV – Quality of Admitted Students. Placements & Higher Education			
42	I year - Last rank admitted in open category during this year Vs. last year	128283 Vs 180996	-
43	Lateral Entry- Last rank admitted	9744 Vs 8795	-
44	Improvement in quality of admitted students	Yes	

45	No. of Campus placements of last batch	Placement offers:90 Placed Students:59	Try to enhance the average salary package
46	No. of Off-campus placements of last batch	Nil	-
47	No. of students who joined public services	Nil	-
48	Improvement over last year in total placement	Yes (5% improvement)	Need to improve
49	No. of students who joined PG programs in India	-	-
50	Improvement in students who opted for higher education	-	
51	Students who turned entrepreneurs from last 3 batches	Nil	

52	Strengths of Department	1.The Department has qualified and dedicated faculty 2. Well established state-of-art laboratories and infrastructure 3. Memberships in Professional bodies like ISTE, SAE-INDIA 4. More focus on industry relations for internships.	Encourage to student to involve in internships and skill-oriented certification courses
53	Weakness of the Department	1. Predominantly students come from guided education system hence resistance to Adapt to out-come based education system 2. Due to the lack of industrial exposure Mechanical Engineering is not among the top preferences of the Students.	-

Convener:

1. Dr. Pullela S.V.V.S.R Kumar, Dean (A&A)

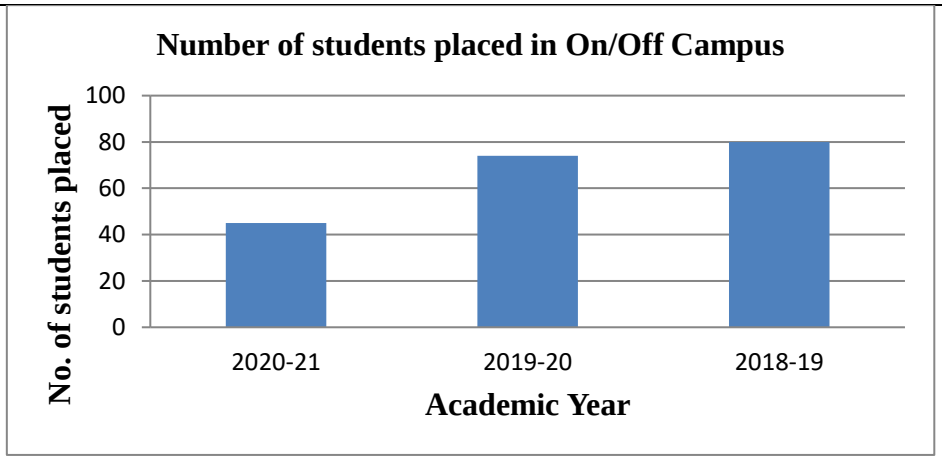
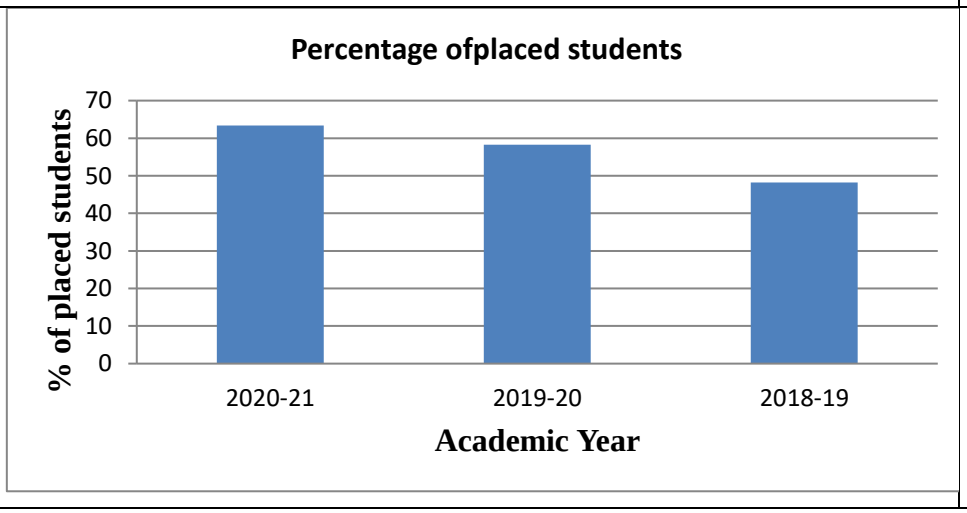
Members

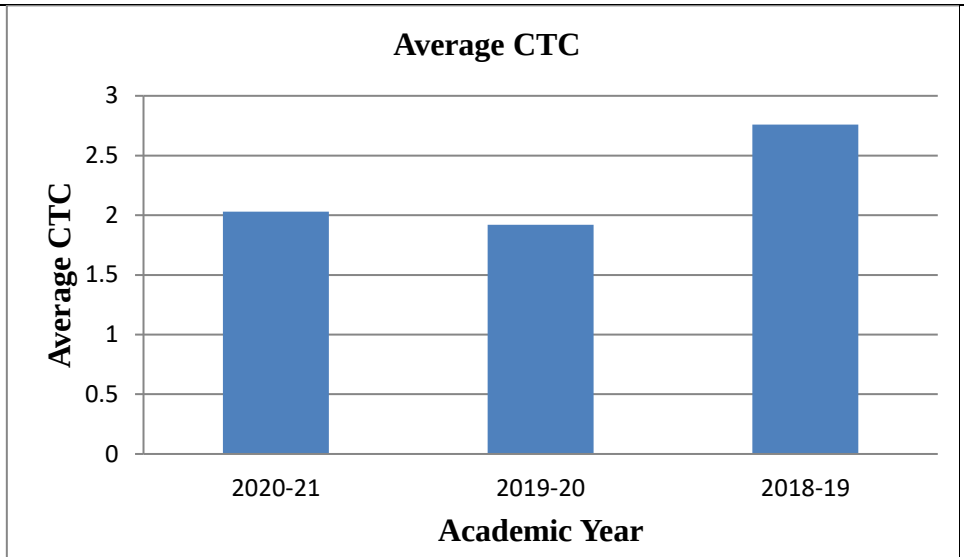
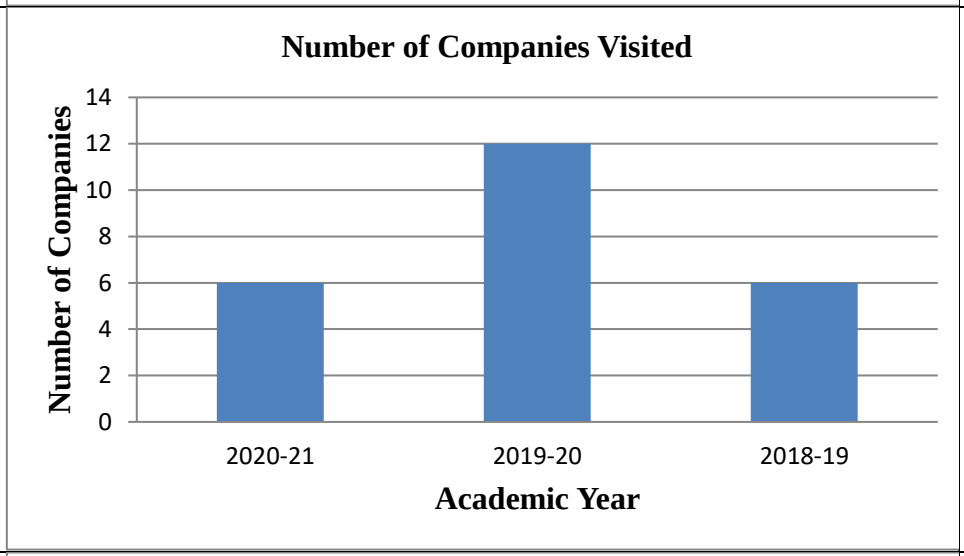
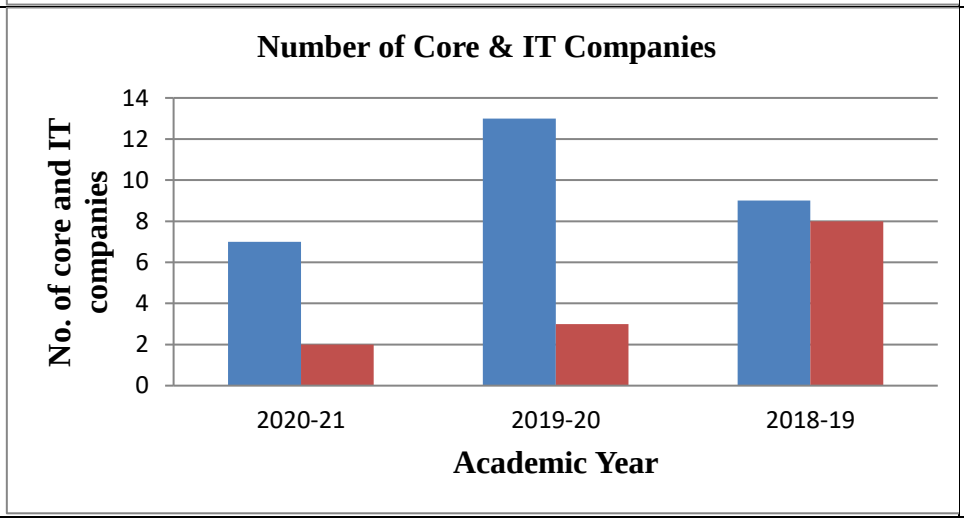
1. Dr. D.V.S.S.S. V. Prasad, Coordinator-IQAC
2. Dr. Ramakrishna, HOD-ECE
3. Dr. Y. K. S. Subba Rao, HOD - ME
4. Mr. K. Manoj Kumar Reddy, HOD-EEE
5. Mr. P. Poorna Mohan, HOD _ ME, GIET - RJY

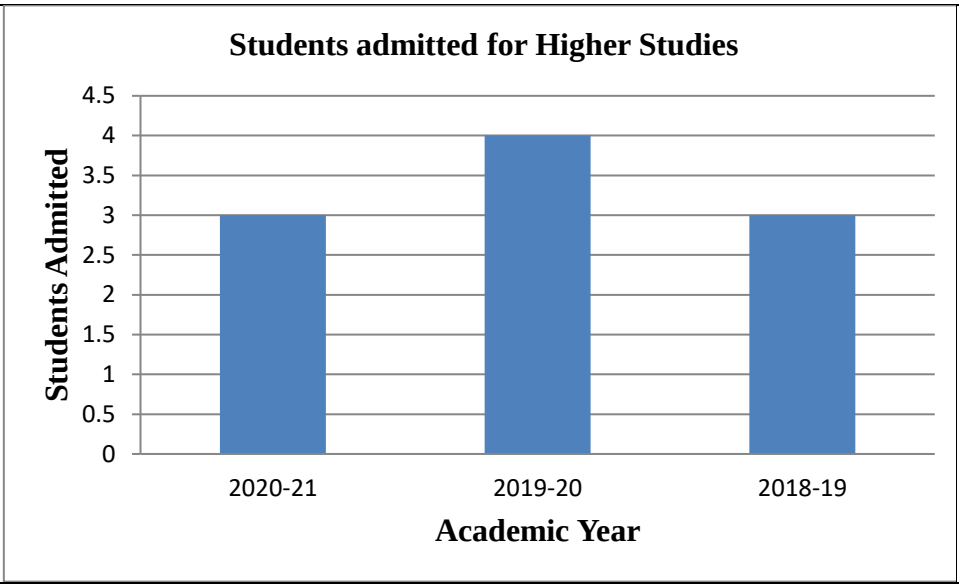
7.3. Improvement in Placement, Higher Studies and Entrepreneurship (10)

A. Y	No. of Companies Visited	No. of Companies Recruited	Avg CTC (L.P.A)	No. of students placed (On/Off Campus)	No of Core Companies (On/Off Campus)	No. of IT Companies (On/Off Campus)
2020-21	6	6	2.03	45	7	2
2019-20	12	12	1.92	74	13	3
2018-19	6	6	2.76	80	9	8

Sl. No.	Academic year	No. of students admitted forhigher studies
1	2020-21	3
2	2019-20	4
3	2018-19	3

Sl.No.	Representation	Trend Description
1		An increase in the number of placed students was more in A.Y 2018-2019 when compared with other two years
2		A considerable increase in the percentage of placed students was seen from the past three Academic years

3		An increase in Average CTC was observed in 2018-19 when compared to other two years
4		**The number of companies visited in the Academic Year 2019-20 is more than the other two academic years**
5		No. of students placed in IT companies was more for the Batch 2018-19 when compared to other two years

6		There was a consistency in number of students admitted for higher studies during past three academic years

7.4. Improvement in the quality of students admitted to the program (10)

Item		2021-22	2020-21	2019-20
National Level Entrance Examination	No. of students admitted			
	Opening Score/Rank			
	Closing Score/Rank			
State / University / Level Entrance Examination/ Others **EAMCET**	No. of students admitted	24	32	6
	Opening Score/Rank	30356	52995	122713
	Closing Score/Rank	128283	180996	129839
Name of the Entrance Examination for Lateral Entry or Lateral entry details **ECET**	No. of students admitted	84	48	70
	Opening Score/Rank	292	797	1199
	Closing Score/Rank	9744	8795	11223
Average CBSE/Any other board result of admitted students (Physics Chemistry and Maths)		99.3	120	142

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CRITERION 8	First Year Academics	50

8. First Year Academics (50)

8.1 First Year Student-Faculty Ratio (FYSFR) (5)

S. No.	Name of the Faculty	Designation	Qualification	Date of Joining	Total Exp	Subject
1	Dr. ORUGANTI S S CHANDANA	Professor	Ph.D.	28.06.2017	15	CHEMISTRY
2	Dr. GUDALA BALAJI PRAKSH	Professor	Ph.D.	12.07.2021	20	MATHEMATICS
3	MARNEEDI SRINIVASU	Professor	M.Phil, B.Ed. (Ph.D.)	06.09.2012	24	MATHEMATICS
4	JUTHUKA BALA MOHAN RAJU	Associate Professor	M.A.	02.09.2013	18	ENGLISH
5	PEDDADA S S RAMA SUJATHA	Associate Professor	M.Sc.(Ph.D.)	01.08.2008	14	MATHEMATICS
6	POTHAMSETTI RAJA SEKHAR REDDY	Associate Professor	M.A.	28.01.2011	13	ENGLISH
7	BUDIDA JYOTHI	Associate Professor	M.Sc. (Ph.D.)	03.12.2018	16	PHYSICS
8	UPADHYAY ABHISHEK KUMAR	Associate Professor	M.Phil	06.07.2015	9	ENVIRONMENTAL SCIENCES
9	DIVVITI LAKSHMI NARAYANAMMA	Asst. Professor	M.Sc.	03.12.2018	8	MATHEMATICS
10	MYLABATHULA MARY JYOTHI	Associate Professor	M.A. M.Ed. (Ph.D.)	15.05.2019	15	ENGLISH
11	NARAVA VEERA VENKATA DURGA PRASAD	Asst. Professor	M.Sc.	10.12.2020	8	CHEMISTRY
12	DURGA BHAVANI KANCHAPU	Asst. Professor	M.Sc,B.Ed.	29.01.2021	7	MATHEMATICS
13	NARASIMHA RAO IRAGANI	Associate Professor	M.Sc, M.Phil, (Ph.D.)	01.02.2021	13	MATHEMATICS
14	SATYA LAKSHMI CHODISETTI	Asst. Professor	M.Sc.	11.01.2021	12	MATHEMATICS
15	NAGA JYOSTNA CHALLA	Asst. Professor	M.Sc., M.Phil.,B.Ed.	27.01.2021	13	PHYSICS
16	CHALAPATI RAO MEDIKONDA	Asst. Professor	M.Sc., B.Ed.	16.08.2021	12	MATHEMATICS
17	CHENNU RAM MOHAN RAO	Associate Professor	M.Tech, (Ph.D.)	03.12.2018	13	ENGG DRAWING
18	RUPAVANI VANAPALLI	Asst. Professor	M.Tech	11.12.2020	10	ENGINEERING DRAWING
19	SAFEERUDDIN KHAN	Asst. Professor	M.E.	24.11.2020	8	ENGINEERING MECHANICS
20	M SS MOHAN KUMAR	Associate Professor	M.Sc.	01.10.2021	16	MATHEMATICS

21	VUNDAVALLI BALA SANKAR	Associate Professor	M.Tech	01.06.2015	14	COMPUTER PROGRAMMING
22	BHANU RAJESH NAIDU KAMPARAPU	Asst. Professor	M.Tech	12.06.2017	4	COMPUTER PROGRAMMING
23	MATTAPALLI MADHURI	Asst. Professor	M.Sc.	04.12.2018	10	PHYSICS
24	SATTI DHANALAKSHMI	Asst. Professor	M.Sc.	03.12.2018	5	PHYSICS
25	GANISETTI PARVATHI	Asst. Professor	M.Sc.	03.12.2018	8	MATHEMATICS
26	PAMPANA DEVI SWARAJYA LAKSHMI	Asst. Professor	M.Sc.	04.12.2018	8	CHEMISTRY
27	ORUGANTI SAVITHRI	Asst. Professor	M.Sc.	03.12.2018	12	MATHEMATICS
28	MALLIPUDI NAGA MURALI JAGAPATHI RAMAYYA	Asst. Professor	M.Sc.	09.06.2017	9	ENGINEERING CHEMISTRY
29	THOTA LAVANYA	Asst. Professor	M.Sc.	09.06.2017	4	CHEMISTRY
30	AKULA DIVYA GOWRI	Asst. Professor	M.Sc.	07.06.2017	4	MATHEMATICS
31	BATHULA KIRAN KUMAR	Asst. Professor	M.Sc.	04.12.2018	10	MATHEMATICS
32	SUDHA BOGA	Asst. Professor	M.Tech	30.01.2021	2	ENGINEERING DRAWING
33	SAI LAXMI KANAKAMAMIDI	Asst. Professor	M.Tech	30.01.2021	2	ENGINEERING DRAWING
34	PIDAKALA SATYA SRUTHI	Asst. Professor	M.Tech	03.12.2018	5	COMPUTER PROGRAMMING
35	ARUN KUMAR PODILA	Asst. Professor	M.Tech	25.01.2021	1	COMPUTER PROGRAMMING
36	ACHANTA SATHEESH	Asst. Professor	M.Tech	03.12.2018	3	BEEE
37	MATTA VARALAKSHMI	Asst. Professor	M.Tech	27.11.2020	2	NETWORK ANALYSIS
38	PRASANTH KUMAR DEVAGUSTAPU	Asst. Professor	M.A.	15.06.2017	4	ENGLISH
39	JAMMISETTI VENKATA RAMANAIAH	Asst. Professor	M.Sc.	08.10.2021	16	MATHEMATICS

Data for first year courses to calculate the FYSFR:

Year	Number of students (approved intake strength)	Number of faculty members (considering fractional load)	FYSFR	*Assessment = (5 ×20) / FYSFR (Limited to Max. 5)
2018-19	780	39	20	5.00
CAYm2 (2019-20)	780	39	20	5.00
CAYm1 (2020-21)	780	39	20	5.00
CAY (2021-22)	720	39	18	5.00
Average	765	39	19.5	5.00

Table 8.1

***Note:** If FYSFR is greater than25, then assessment equal to zero.

8.2 Qualification of Faculty Teaching First Year Common Courses (5)

Assessment of qualification = (5x +3y)/RF, x= Number of Regular Faculty with Ph.D., y = Number of Regular Faculty with Post graduate qualification RF=Number of faculty members required as per SFR of 20:1, Faculty definition as defined in 8.1

Year	X	Y	RF	Assessment of faculty qualification (5x+3y)/RF
2018-19	4	30	39	2.82
2019-20	4	30	39	2.82
2020-21	4	33	39	3.05
2021-22	2	37	36	3.36
Average Assessment				2.98

Table8.2

8. 3 First year academic performance:

Academic Performance = ((Mean of 1stYear Grade Point Average of all successful Students on a 10-point scale) or (Mean of the Percentage of marks in First Year of all successful students/10)) x (number of successful students/number of students appeared in the examination)

Successful students are those who are permitted to proceed to the second year.

Academic Performance	CAYm1 (2020-2021)	CAYm2 (2019-20)	2018-19
Mean of percentage of marks / Grade point average(X)	6.82	7.60	7.00
Total Number of Successful students(Y)	32	6	14
Total Number of appeared in examinations(Z)	32	6	16
AP=[X*(Y/Z)]	6.82	7.60	6.12
Average Academic Performance=(AP1+AP2+AP3)/3	6.85		

Table 8.3.1 Academic Performance at Department Level

8.4 Attainment of Course Outcomes of first year courses (10)

8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (5)

(Examples of data collection processes may include, but are not limited to, specific exam questions, laboratory tests, internally developed assessment exams, oral exams assignments, presentations, tutorial sheets etc.)

1) Assessment for theory courses

After commencement of class work, the Course Coordinator will design the flow of curriculum, lesson plan indicating teaching methods. Slip tests, oral presentations are conducted at regular intervals during 1st hour for 15 marks. Semester-end (external) examination will be conducted by the affiliating university for 70 marks and internal examination will be for 30 marks for all the theory courses. Internal assessment will be conducted as per the guidelines and schedule of JNTUK, Kakinada. Internal examinations are conducted in the form of Descriptive, Online, and Assignments comprising a total of 30 marks twice in a semester. Out of two internal assessments, as per the regulations of the affiliating university, 80% of best mark and 20% of least mark will be computed and internal assessment marks are finalized.

1.1.Class average mark and percentage of students scored above average mark

All the marks scored by the learners are recorded and taking sum of all marks obtained by the students divided by number of students gives the class average mark and number of students obtained greater than this mark will be considered. Then the percentage of students scored above average mark will computed

1.2.Target and attainment levels of COs for internal assessment

Target is stated in terms of number of students scoring greater than or equal to 16 (>= 16) in the internal assessment for a maximum mark of 30. Based on rubrics set for individual course, the attainment level will be calculated.

1.3.Target and attainment levels of COs for external assessment

Target is stated in terms of number of students scoring greater than or equal to 24(>= 24) in the external exam for a maximum mark of 70. Based on rubrics set for individual course, the attainment levels will be calculated.

1.4.Calculation of attainments

Attainments for internal examinations will be calculated by taking the question wise attainments for descriptive, online and assignments and average of theses attainments will be considered as CO attainments will be finalized.

Affiliating university declares the result using grade point average; therefore, class average mark will be computed by considering all the succeeded students in the semester-end (external) examination. Based on the class average mark, percentage of students score above class average mark and its attainment will be calculated. Average attainment will be finalized.

As per the regulations prescribed by the affiliating university, 30% weight for internal assessment and 70% weight for external assessment will be taken to calculate the final attainment of that course. If the final attainment is less than the target attainment then the observations/reasons will be analysed to achieve the target for each course and laboratory**.**

2) Attainment for laboratory courses

The schedules for laboratory courses are prepared as per the guidelines of the affiliating university and the prescribed experiments will be carried out. Students will prepare the observations and practical records for the experiments performed by them. Day-to-day evaluation will be recorded and finalized as internal assessment for 15 marks for each laboratory course and end practical examination will be conducted as per the schedule given by the affiliating university for 35 marks. Attainment will be computed by finding the class average mark, percentage of students who succeeded and their attainments.

The attainment calculations for theory course are shown as a sample.

ADITYA COLLEGE OF ENGINEERING

Department of Mechanical Engineering

Course Assessment

Course Name:	**ENGINEERING PHYSICS**	Academic Year:	2020-21
Faculty Name:	C.N. Jyotsna	Year & Semester:	I Year I Semester
Course Code:	R20BS1113	Branch &Section:	ME

		Internal Examination-1										**Internal Examination-2**											
S. No.	**Roll No.**	**1.a**	**1.b**	**2.a**	**2.b**	**3.a**	**3.b**	**Total**	**Assignment**	**Quiz**	**Total**	**1.a**	**1.b**	**2.a**	**3.a**	**3.b**	**Total**	**Assignment**	**Quiz**	**Total**	**Internal**	**End Semester exam**	**Grade point**
Maximum Marks		**3.5**	**1.5**	**3**	**2**	**3.5**	**1.5**		**5**	**10**	**15**	2	3	5	3	2	**15**	**5**	**10**	**30**	**27**	A+	10
1	20MH1A0301	3.5	1.5	3	0.5	2.5	1.5	13	5	6	**24**	0.5	1.5	0.5	0	1.5	4	5	4	**13**	22	E	5
2	20MH1A0302	3	0	3	0	0.5	0	7	4	3	**14**	0	1	4.5	3	2	11	5	5	**21**	20	D	6
3	20MH1A0303	3.5	1.5	3	2	0	0	10	5	5	**20**	0	0	0	0	0	0	5	0	**5**	17	AB	0
4	20MH1A0304	3.5	1.5	0	1.5	0	0	7	4	5	**16**	0	0	0	0	0	0	5	0	**5**	15	AB	0
5	20MH1A0305	3.5	1	3	0.5	0	1.5	10	5	2	**17**	2	3	4.5	3	1	14	5	3	**22**	21	D	6
6	20MH1A0306	2	0	2.5	0	2	0	7	3	4	**14**	0	0	5	0.5	2	8	5	4	**17**	17	F	0
7	20MH1A0307	3	1.5	3	2	3.5	1.5	15	5	4	**24**	2	2	3.5	3	2	13	5	7	**25**	25	D	6

8	20MH1A0308	3.5	0	3	0	3.5	0	10	5	3	**18**	2	0	4	0.5	0	7	5	5	**17**	18	F	0
9	20MH1A0309	1	0	0	0	0	0	1	2	3	**6**	1.5	1.5	4	1	1.5	10	5	4	**19**	17	F	0
10	20MH1A0310	1	1.5	2	0	0	0	5	3	5	**13**	2	0	5	3	1.5	12	5	2	**19**	18	F	0
11	20MH1A0311	3.5	1.5	3	2	3.5	1.5	15	5	4	**24**	2	3	5	3	2	15	5	5	**25**	25	C	7
12	20MH1A0312	3	1.5	1.5	0.5	0	0	7	3	5	**15**	1.5	0	5	3	2	12	5	2	**19**	11	F	0
13	20MH1A0313	3.5	1.5	3	2	2.5	1.5	14	5	5	**24**	2	3	5	3	0	13	5	3	**21**	24	C	7
14	20MH1A0314	3.5	0	3	2	2.5	0	11	5	5	**21**	2	2	5	0	0	9	5	3	**17**	21	C	7
15	20MH1A0315	3.5	1.5	3	2	3.5	1	15	5	4	**24**	1	2	5	3	1.5	13	5	4	**22**	24	C	7
16	20MH1A0316	2.5	1.5	3	2	2.5	1.5	13	5	4	**22**	0	0	5	1.5	2	9	5	3	**17**	21	D	6
17	20MH1A0317	3.5	1.5	3	2	3.5	1.5	15	5	6	**26**	2	3	5	3	2	15	5	4	**24**	26	B	8
18	20MH1A0318	0.5	0	0.5	0	0	0	1	3	3	**7**	2	3	4	2.5	1.5	13	5	1	**19**	17	E	5
19	20MH1A0319	3.5	0	2	0	0	0	6	3	4	**13**	2	2	3	0	1.5	9	5	3	**17**	17	E	5
20	20MH1A0320	2.5	1.5	1.5	1	1.5	0.5	9	3	4	**16**	0	0.5	5	3	2	11	5	4	**20**	20	C	7
21	20MH1A0321	3.5	1.5	3	2	3.5	1.5	15	5	4	**24**	2	3	5	2.5	2	15	5	6	**26**	26	C	7
22	20MH1A0322	3.5	1.5	3	2	2.5	1	14	5	5	**24**	2	3	5	3	0.5	14	5	4	**23**	24	C	7
23	20MH1A0323	3	0.5	3	0	0	0	7	3	2	**12**	2	3	0	2	1.5	9	5	5	**19**	14	D	6
24	20MH1A0324	3.5	0	3	2	3.5	1.5	14	5	4	**23**	2	3	5	2.5	2	15	5	5	**25**	25	C	7
25	20MH1A0325	3.5	0	3	1	0	0	8	3	5	**16**	2	2	4	2	1.5	12	5	3	**20**	20	D	6
26	20MH1A0326	3.5	1.5	3	2	3.5	0.5	14	5	5	**24**	0	0	5	2.5	0	8	5	5	**18**	23	B	8
27	20MH1A0327	0	0	0	0	0	0	0	1	0	**1**	2.5	0	5	3	0	11	5	3	**19**	16	E	5

28	20MH1A0328	3.5	1.5	3	0	3.5	1.5	13	5	4	**22**	2	3	5	2.5	0	13	5	3	**21**	22	D	6
29	20MH1A0329	3	0	1.5	0	0	0	5	3	3	**11**	2	2	5	1.5	0	11	5	2	**18**	17	E	5
30	20MH1A0330	3.5	1.5	3	2	3	0.5	14	5	4	**23**	2	3	5	3	2	15	5	2	**22**	23	D	6
31	20MH1A0331	3.5	1.5	3	1	2.5	1	13	5	4	**22**	2	3	5	1		11	5	3	**19**	22	D	6
32	20MH1A0332	3.5	1.5	3	2	2.5	0.5	13	5	7	**25**	2	0	5	3	2	12	5	6	**23**	25	C	7
Class Average Mark		2.0	0.5	1.7	0.6	1.4	0.3	6.7	3.7	3.9	14.1	1.4	1.3	3.3	1.4	1.2	8.5	4.5	3.0	15	16.7		
Student Scored above average mark		82	53	74	46	69	40	66	94	84	64	98	65	79	78	75	82	100	52	84	81	98	
No.Of Students attempted the question		65	65	65	65	65	65	65	65	65	64	62	62	62	62	62	62	62	62	65	62	61	
% Students scored above average mark		59	38	53	33	49	29	47	67	60	46	71	47	57	56.93	55.15	58	71	37	60	58	70	
Attainment level		2	1	1	1	1	1	1	2	2	1	3	1	2	2	2	2	3	1	2	2	3	

																				Internal	**University Exam**	**Overall**
CO1	**2**	**1**						2	**2**											**1.75**	**3**	**2.63**
CO2			**1**	**1**				2	**2**											**1.5**	**3**	**2.55**
CO3					**1**	**1**		2	**2**		**3**	**1**								**1.67**	**3**	**2.60**
CO4													**2**				**3**	**1**		**2**	**3**	**2.70**
CO5															**1**		**3**	**1**		**1.67**	**3**	**2.60**
CO6														**1**			**3**	**1**		**1.67**	**3**	**2.60**
Overall Course attainment																						**2.61**
Set target for course attainment																						**2.14**
Status of the course attainment (Yes/No)																						**Yes**

CO1	2.63
CO2	2.55
CO3	2.60
CO4	2.70
CO5	2.13
CO6	2.60

Base Target taken for CO:	2.14	Class average Mark	4.5
Rubrics:			
>70% students	3		
55 to 70% students	2	Best performing Course Outcome:CO4	
<55% students	1	Least performing Course Outcome:CO5	

Observations	
1	More number of numerical was practiced.
2	Previous question papers were discussed frequently
3	Class tests were conducted regularly and done review based on the performance.
Plan of Action for improvement	
1	Planned to discuss various questionnaire on problem solving of interference during tutorial hours
2	Planned to discuss Lasers by using NPTEL lectures.
	Faculty Signature

ADITYA COLLEGE OF ENGINEERING

Department of Mechanical Engineering

Lab Assessment

Course Name:	ENGINEERING PHYSICS LAB
Faculty Name:	C. N. Jyotsna
Course Code:	R20BS1209

S. No.	Roll No.	1	2	3	4	5	6	7	8	Total	Day to Day	Record	Total	End Semester grade	GP
Maximum Marks										**5**	**5**	**5**	**15**	A+	10
1	20MH1A0301			**5**						**5**	5	5	**15**	A+	10
2	20MH1A0302						**4**			**4**	5	4	**13**	A+	10
3	20MH1A0303						**5**			**5**	5	4	**14**	F	0
4	20MH1A0304						**4**			**4**	5	4	**13**	F	0
5	20MH1A0305				**4**					**4**	5	5	**14**	A+	10
6	20MH1A0306				**4**					**4**	5	5	**14**	A+	10
7	20MH1A0307						**5**			**5**	5	5	**15**	A+	10
8	20MH1A0308								**4**	**4**	5	5	**14**	A+	10
9	20MH1A0309							**4**		**4**	4	3	**11**	B	8
10	20MH1A0310							**4**		**4**	5	5	**14**	A	9
11	20MH1A0311			**5**						**5**	5	5	**15**	A+	10
12	20MH1A0312		**4**							**4**	5	4	**13**	A	9
13	20MH1A0313	5								**5**	5	5	**15**	A+	10

14	20MH1A0314							**4**		**4**	5	5	**14**	A+	10
15	20MH1A0315						**5**			**5**	5	5	**15**	A+	10
16	20MH1A0316			**5**						**5**	5	5	**15**	A+	10
17	20MH1A0317						**5**			**5**	5	5	**15**	A+	10
18	20MH1A0318	4								**4**	4	3	**11**	A	9
19	20MH1A0319							**4**		**4**	5	5	**14**	A	9
20	20MH1A0320		**2**							**2**	5	5	**12**	A+	10
21	20MH1A0321			**5**						**5**	5	5	**15**	A+	10
22	20MH1A0322			**5**						**5**	5	5	**15**	A+	10
23	20MH1A0323					**4**				**4**	5	5	**14**	A	9
24	20MH1A0324						**5**			**5**	5	5	**15**	A+	10
25	20MH1A0325					**4**				**4**	5	4	**13**	A	9
26	20MH1A0326						**5**			**5**	5	5	**15**	A+	10
27	20MH1A0327								**3**	**3**	4	3	**10**	B	8
28	20MH1A0328						**5**			**5**	5	5	**15**	A+	10
29	20MH1A0329				**4**					**4**	5	3	**12**	A	10
30	20MH1A0330			**5**						**5**	5	5	**15**	A+	10
31	20MH1A0331						**5**			**5**	5	5	**15**	A+	10
32	20MH1A0332			**5**						**5**	5	5	**15**	A+	10
Class Average Mark		4.0	3.4	4.8	3.8	4.0	4.7	4.0	4.0	4.3	4.8	4.6	13.7		8.9
Student Scored above average mark		3	2	14	5	3	12	6	5	29	55	44	43	61	83
Students attempted the question		4	5	16	6	3	18	6	6	65	65	65	65	65	

% students scored above average mark						75	40	88	83	100	67	100	83	45	85	68	66	94	
Attainment level						2	1	3	3	3	1	3	3	1	3	1	1	3	

												Internal	**University Exam**	**Overall**
CO1	**2**					**1**		**3**		3	**1**	**3**	**3**	**3.00**
CO2		**1**	**1**	**3**			**3**			3	**1**	**2**	**3**	**2.70**
CO3					**3**					3	**1**	**2**	**3**	**2.70**
CO4				**3**		**1**						**2.33**	**3**	**2.80**
Overall Course attainment														**2.80**
Set target for course attainment														**2.40**
Status of the course attainment (Yes/No)														**Yes**

CO1	3.00
CO2	2.70
CO3	2.70
CO4	2.80

Base Target taken for CO:	2.40	Class average Mark: 8.5
Rubrics:		
>80% students	3	
80 to 70% students	2	Best performing Course Outcome: CO1
<70 % students	1	Least performing Course Outcome: CO3 , CO4

Reason for low attainment//Observations	
1	Labs experiments were conducted regularly
2	Revision of experiments were conducted.
Plan of Action for improvement	
1	Revision lab sessions for Optics related experiments

2	Detailed explanation of Experiments related to electric &magnetic fields
	Faculty Signature

PO ATTAINMENT

CO-PO matrix can be considered for concern subject and course attainment values can be taken from course attainment sheet. Po attainment can be computed by multiplying PO with CO values dividing by sum of PO values.

PO Attainment Table

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3												
CO2	2		2											2
CO3	3	2												
CO4	2													
CO5	2	2		2		2								
CO6	3		2											
Course	2.33	2.33	2	2		2								2

CO ATTAINMENT														
Course Name	Attainment													
CO1	2.7													
CO2	2.55													
CO3	2.6													
CO4	2.7													

CO5	2.13													
CO6	2.6													
PO ATTAINMENT														
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**
Overall PO Attainment	2.09	2.51	2.58	2.13		2.13								2.55

Feedback on course outcomes: (Indirect Attainment – 20%)

The course outcomes are designed to identify the specific knowledge skills that a student acquires at the end of every course. These outcomes inform both the way students are evaluated in a course; therefore, the institution collects feedback from the students on all the course outcomes through a survey method. Students will be given a questionnaire on course outcomes of the course. Then the students are asked to give an opinion of their understanding on all the course outcomes. The feedback forms are further analyzed and the results are presented in the form of bars. The sample feedback form is attached for the reference.

Course: Mathematics – I

Course Name	Course Outcomes	
Mathematics-I (CSE/ECE/IT/ EEE/MECH)	CO1	Utilize mean value theorems to real life problems
	CO2	Able to form differential equation from physical problems and to solve various first order differential equations.
	CO3	Solve the differential equations related to various engineering fields
	CO4	Familiarize with functions of several variables which is useful in optimization
	CO5	Apply double integration techniques in evaluating areas bounded by region
	CO6	Students will also learn important tools of calculus in higher dimensions. Students will become familiar with 2- dimensional and 3-dimensional coordinate systems

S. NO	Course Code	Course Name	CO1	CO2	CO3	CO4	CO5	CO6	Indirect Course Attainment
1	C111	Mathematics-I	2.7	2.625	2.7813	2.6875	2.6875	2.6563	2.7
2	C112	Communicative English	2.9375	2.8438	2.9375	2.9063	2.8438	2.9063	2.9
3	C113	Engineering Physics	2.6563	2.75	2.6875	2.6875	2.625	2.7813	2.7
4	C114	Engineering Drawing	2.9375	2.9375	2.8438	2.9063	2.8438	2.9063	2.9
5	C115	English Communication Skills Laboratory	3	3	3	3			3
6	C116	Engineering Physics Lab	2.9375	2.875	2.875	2.9063			2.9
7	C117	Programming for Problem Solving Using C	2.9063	2.9375	2.9375	2.8438	2.9063	2.8438	2.9
8	C118	Programming for Problem Solving Using C Lab	2.875	2.875	2.875	2.9688			2.9

8.4.2 Record the attainment of Course Outcomes of all First-Year courses (5)

Course Outcome attainment for the Academic Year 2020-2021

Program Name: B. Tech (ME – I SEM)

S. NO	Course Code	Course Name	CO1	CO2	CO3	CO4	CO5	CO6	Direct Course Attainment	Indirect Course Attainment	Final Course Attainment (80% of direct attainment+20% of indirect attainment)	Target	Status
1	C111	Mathematics-I	1.45	1.3	1.3	1.52	1.53	1.3	1.4	2.7	1.66	2.5	NO
2	C112	Engineering Physics	1.53	1.65	1.48	1.65	1.3	1.3	1.48	2.7	1.72	2	NO
3	C113	Programming for Problem Solving Using C	2.55	2.55	2.7	2.6	2.6	2.6	2.6	2.9	2.66	2.2	YES
4	C114	Communicative English	2.3	2.07	2.3	2.07	2.3	1.78	2.13	2.7	2.24	2.16	YES
5	C115	Engineering Drawing	2.3	2.15	2	2.3	2	2.15	2.15	2.7	2.26	2.2	YES
6	C116	Engineering Physics Lab	2.7	2.55	2.7	2.55			2.63	2.9	2.68	2.36	YES
7	C117	Programming for Problem Solving Using C Lab	2.4	2.45	2.4	2.4			2.41	2.7	2.47	2.5	NO
8	C118	English Communication Skills Laboratory	2.7	2.7	2.55	2.55			2.63	2.9	2.68	2.35	YES

Program Name: B. Tech (ME – II SEM)													
S. NO	**Course Code**	**Course Name**	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**	**CO6**	**Direct Course Attainment**	**Indirect Course Attainment**	**Final Course Attainment (80% of direct attainment+20% of indirect attainment)**	**Target**	**Status**
1	C121	Mathematics -II	1.45	1.2	1.38	1.38	1.38	1.38	1.36	2.7	1.63	2.24	NO
2	C122	Engineering Chemistry	1.3	1.38	1.38	1.38	1.38	1.45	1.38	2.7	1.64	2	NO
3	C123	Engineering Mechanics	1.3	1.08	1.1	1.4	1.4	1.4	1.28	2.7	1.56	2.16	NO
4	C124	Basic Electrical and Electronics Engineering	1.7	1.53	1.7	1.7	1.53	1.7	1.64	2.7	1.85	2.1	NO
5	C125	Thermodynamics	1.23	1.38	1.38	1.45	1.4	1.4	1.37	2.8	1.66	2.1	NO
6	C126	Workshop Practice Lab	2.55	2.52	2.6	2.5			2.54	2.9	2.61	2.16	YES
7	C127	Engineering Chemistry Lab	2.6	2.76	2.6	2.6			2.64	2.9	2.69	2.3	YES
8	C128	Basic Electrical &Electronics Engineering Lab	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.9	2.50	2.26	YES

8.5 Attainment of Program Outcomes from first year courses (20)

8.5.1 Indicate results of evaluation of each relevant PO and/ or PSO, if applicable (15)

PO Attainment

Program	B.Tech. in ME	Academic Year	2020-21
Year	I B.Tech.	Semester	I

S. No	Course Code	Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	C111	Mathematics-I	1.41	1.4												
2	C112	Engineering Physics	1.49	1.45			1.61							1.58		
3	C113	Programming for problem solving using C	2.6	2.6	2.61											
4	C114	Communicative English						2.3		2.135		2.14				
5	C115	Engineering Drawing	2.16		2.16		2									2.14
6	C116	Engineering Physics Lab	2.61	2.59			2.63				2.625			2.6		
7	C117	Programming for problem solving using C Lab	2.42	2.42	2.4											
8	C118	English communication skills Lab									2.55	2.62				

Program	B.Tech. in ME	Academic Year	2020-21
Year	I B.Tech.	Semester	II

S. No	Course Code	Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	C121	Mathematics-II	1.37	1.37											1.325	
2	C122	Engineering Chemistry	1.38	1.38					1.375						1.375	1.38
3	C123	Engineering mechanics	1.29	1.27			1.16								1.285	1.33
4	C124	Basic Electrical Electronics Engineering	1.64	1.64	1.64										1.642	1.64
5	C125	Thermodynamics	1.37	1.4					1.45							1.43
6	C126	Workshop Practice Lab	2.54	2.52					2.56		2.535			2.52		2.54
7	C127	Engineering Chemistry Lab	2.65	2.6		2.6			2.68		2.64					2.6
8	C128	Basic Electrical Electronics Engineering Lab	2.4	2.4	2.4						2.4			2.4		2.4

PO - TARGET

Program	B.Tech. in ME	**Academic Year**	2020-21
Year &Sem	I B.Tech.	**Semester**	I & II

POs	Target	Attainment
PO1	2.29	1.97
PO2	2.25	1.96
PO3	2.16	2.21
PO4	2.00	2.60
PO5	2.00	1.62
PO6	2.00	2.30
PO7	2.25	2.02
PO8	2.00	2.14
PO9	2.42	2.56
PO10	2.60	2.38
PO11	0	0
PO12	2.00	2.28
PSO1	1.67	1.41
PSO2	1.74	2.02

8.5.2 Actions taken based on the results of evaluation of relevant POs (5)

A.Y: 2020 – 2021

POs	Target Level	Attainment Level	Observations
PO1: Engineering Knowledge			
PO1	**2.29**	**1.97**	PO1 is attained. Attainment is good for the following subjects Programming for problem solving using Programming for problem solving using C lab, Engineering chemistry lab, workshop practice lab. 1. Explained fundamentals of coding concepts.

			2. Students were trained for basic knowledge of flow charts in programming lab. 3. Fundamental knowledge required identify components was explained in workshop lab. Attainment is low for the following subjects Mathematics-I, Mathematics II, Engineering Physics, Engineering chemistry, Thermodynamics, Basic Electrical Electronics Engineering 4. Students need to be trained for solving algebraic and Transcendental equations 5. Students need to be focused on electrochemical process and corrosion 6. Students felt difficulty in wave optics and ultrasonics. 7. Most importance has to be given for understanding of basic electrical parameters for engineering.
1. Additional classes to be conducted improve the mathematical fundamental basics. 2. An extra hour is planned to illustrate the concept of applying electrochemical concepts to corrosion control. 3. An extra hour is planned to illustrate the concept of polarization by video lecture from websites 4.Assignment Will Be Concentrated on Numerical. 5. Planned to give number of practice programs for improving their skills.			
PO2: Problem Analysis			
PO2	**2.25**	**1.96**	Attainment is good for the following subjects Programming for problem solving using Engineering physics lab, Programming for problem solving using C lab, Engineering chemistry lab, workshop practice lab, Basic Electrical Electronics Engineering lab. 1. Students were trained for problem solving skills in C Programming. 2. Explained analysing problem in Engineering physics labs related to experiments. Attainment is low for the following subjects Mathematics-I, Mathematics-II, Engineering Physics, Engineering chemistry, Thermodynamics, Engineering Mechanics

			1.Lack of understanding on change of order and change of variables in double integration 2. Poor in conversion of different two port network parameters. 3. Complexity in the conversion of orthographic views to isometric views 4. Lack of skills in understanding the equilibrium equations. 5. Difficult to analyses the rigid bodies under translation and rotation by considering forces. Target not achieved 1.Lack of practice is solving problems. 2.Lack of programming practice. 3.More practical sessions are needed.
1.Basic concepts of Engineering physics will be proposed to explain from videos and remedial classes. 2.Planned to conduct extra tutorial hours for practice on C-language programs. 3.Introducing curve tracing to improve multiple integrals problems. 4.Proposed to show different types of views of 3D objects in presentation to ease the visualisation of isometric projection and orthographic projections			
PO3: Design/development of Solutions			
PO3	**2.16**	**2.21**	Attainment is good for the following subjects Programming for problem solving using Programming for problem solving using C lab, Basic Electrical Electronics Engineering lab. 1.Explained design of flow charts crucial for programming. 2.Explained every component required for connecting electrical circuits in Electrical Engineering Lab. Attainment is low for the following subjects Engineering Drawing, Basic Electrical Electronics Engineering. 1.Complexity in the conversion of orthographic views to isometric views 2. Students expressed their difficulty understanding design of rotating machines in Basic Electrical Electronics Engineering 3.Lack of analysing machines. 4.Lack of understanding of dynamic memory allocation, string manipulations and its corresponding functions
1.An extra hour is planned to explain the concept of Hall effect and application by animated videos. 2. Planned to give assignment to practice more examples on switching conditions. 3. Hands on session with example programs will be conducted. 4.The students will be encouraged to attend NPTEL and Virtual Lab sessions for enhancing their ability to design solutions of problems in the subject.			
PO4: Conduct Investigations of Complex Problems			
PO4	**2**	**2.60**	Attainments is very good as compared with set target level.

			1. Water analysis is explained in a manner Subject involving both analysis and design. 2. Experiments were demonstrated to draw valid conclusions.
Same practice will be followed, in addition to it include lab activities with research knowledge.			
PO5: Modern Tool Usage			
PO5	**2**	**1.62**	Attainment is good for the following subjects Engineering physics, Engineering physics lab, Engineering Drawing. Explained engineering drawing with models. Attainment is low for the Engineering Mechanics. Lack of knowledge to understand the 3D to 2D projections concept. Students failed to attend the training sessions based on application-oriented Programme
1.Planned to show different types of views of 3D objects in presentation to ease the visualization of isometric projection and orthographic projections 2.Tutorial hour will be planned for drawing and interpreting graphs for instrumental methods of analysis 4.Planned to give assignments related to relation between two port network parameters 5.Planned to explain NPTEL Lecture video on computational chemistry and its importance. 6. More practice sessions will be planned to improve programming skills.			
PO6: The Engineer and Society			
PO6	**2**	**2.30**	Attainment is good for the Communicative English 1.Special exposure given for pronunciation, like stress and Intonation**.** 2**.** Conducted motivational classes by motivational speakers.
1.ICT enabled teaching (Power point) on advanced topics. 2.Planned to provide problem solving questions and giving last half an hour in lab to practice 3.Conduct quiz test after completion of every unit. 4.Students are encouraged to take part in non-governmental organizations that helps to to create awareness on problems on society leading engineering solutions.			
PO7: Environment and Sustainability			
PO7	**2.25**	**2.02**	Attainment is good for the following subjects workshop practice lab, Engineering chemistry Lab. 1. Explained sustainable goals for plastic in chemistry lab. 2. Attainment is low for the following subjects Engineering chemistry, Thermodynamics. 3. Lack of understanding on the Environmental issues and acts as learners are more into technological issues. 4. Less understanding of Waste management.

			5. Students are encouraged to indulge in projects, in which global and environmental issues are improved, with respect to consumption of energy and utilization of non-conventional energy resources.
1. Special focus will be made on the introduction of Environmental Issues, by bringing in ES Teacher on to the platform for more emphasis 2. Students will be encouraged to participate in tree saplings through NSS and Eco clubs. 3. Extra sessions taken by experts towards creating environmental awareness and problems facing. 4. Planned to give assignment on e-waste management			
PO8: Ethics			
PO8	**2**	**2.14**	Attainment is good for Communicative English. 1. Students understood the value of following culture and tradition remembering the ethical values. 2. Students are encouraged to follow the suggestions given by Jawaharlal Nehru to Indira Gandhi 3. Students are motivated to use the time professionally by reading the biographies of Legendary scientists and entrepreneurs.
Planned to explain the importance of ethics and moral values in life that take to great heights. Lectures and awareness/ motivational programmes are conducted. Career readiness program, corporate lectures and motivational talks are arranged to face the real-life situations. To encourage students to Participate in Co-Curricular activities and extracurricular activities to promote commitment to ensure that ethical principles and an understanding of sportsmanship and that participation is more important than winning.			
PO9: Individual and Team Work			
PO9	**2.42**	**2.56**	Attainment is good for the following subjects Engineering Physics lab, English communication skills Lab, Basic Electrical Electronics Engineering lab, Workshop practice lab, Engineering chemistry lab. 1. Students are encouraged to work together in attending reading activities during lab session. 2 Inculcated good awareness on the importance of team work. 3. The students seem ready to work both individually and as a team. This aspect is constantly encouraged in every aspect and stage of Programme.
1. Planned to motivate students towards group work. 2. Proposed to arrange awareness on the importance of team work. 3. The laboratory activities is planned in the way such the students learn to work in a team and can create a good environment.			
PO10: Communication			

PO10	**2.60**	**2.38**	Attainment is good for the English communication skills Lab. 1. Students have a good knowledge on language skills. 2. Students can follow the rules and structures of language and grammar. 3. Students are motivated to communicate without any fear and encouraged to express their ideas clearly. 4. Communication skills are introduced here in the form of Poster Presentation. 5. English Lab: Communication skills are more into picture and the learner has faced problems with patterns of Stress and Pronunciation.
Planned to develop the verbal ability of the students by arranging verbal activities. Make the students to communicate clearly themselves in expression of ideas and written Communication, proposed to plan activities for that. Planned to conduct more number of oral presentations in order to come out of stage fear. Planned to Conduct talk show sessions with task-oriented conversations Report writing and presenting report as a group or team will be planned Extra sessions are planned for communication and soft skill classes.			
PO11: Project Management and Finance			
PO11			
PO12: Life-long Learning			
PO12	**2**	**2.28**	Attainment is good for the following subjects Engineering Physics lab, Basic Electrical Electronics Engineering lab, Workshop practice lab. 1. Students are trained to identify Electrical engineering components. 2.Students able to determine the efficiency and loses of single- phase transformer. 3.Students need to recognize the regulated power supply and same verify with mustimeter in daily life.
1. Students active participation will be made mandatory in upcoming workshops. 2. Planned to synchronize theory concepts with practical applications in Electrical engineering workshop. 3. Planned to organize the principles of operation of the equipment in constructional details and performance of 3-phase induction motors.			
PSO1: 1.students will be motivated by explaining the mathematics applications to Engineering courses. 2.Planning to conduct more workshops and guest Lecturer on domain specific areas.			

PSO2:
1. Students are to be motivated to make use of computer aided tools.
2. Students are to be taken to visit the industries to gain the exposure.

*****

CRITERION 9	STUDENT SUPPORT SYSTEMS	50

9. STUDENT SUPPORT SYSTEMS (50)

9.1 Mentoring System to Help at Individual Level (5)

Type of mentoring: Professional guidance/career advancement/course work specific/laboratory specific/all/round development. Number of faculty mentors: Number of students per mentor: Frequency of meeting:

Type of Mentoring: students are counselled for academic improvement, career improvement and personality development

(The institution may report the details of the mentoring system that has been developed for the students for various purposes and also state the efficacy of such system)

Mentoring system to help at individual levels:

1. Details of mentoring system:

The meeting of the members of the college committee will be held in the beginning of the academic year to propose and plan for the activities during every academic year which will be recorded as minutes. Committee consists of faculty members at various levels along with student members. Institute has unique mentoring system in which 20 to 25 students are allotted to one faculty mentor based on the strength of faculty and students and all details of the students such personal and academic performance will be recorded. Faculty mentors regularly monitor the students' activities, performance, behavior and psychological factors, if any.

Faculty mentor interacts with the students and try to find the reasons for not performing in academics and also will try to identify any other problem such as stress related issue and he/she will referred to counsellors, if needed. Faculty members are always advised to attend the training programmes relevant to mentoring/counselling. All the students are motivated to participate in various co/curricular/extra/curricular activities/programmes conducted on/campus/off/campus and similarly, faculty members are also encouraged to participate in all the professional activities with an aim to groom the students with all/round development and faculty members with improved performance. Strict confidentiality will be maintained during the process of counselling of students. If problem is serious then that student will be taken to Psychiatrist/Psychologist with intimation to his/her parent.

Parent meetings are conducted once in a semester and the attendance and performance of their wards, policies of the Institute and other matters related to academics, placements will be briefed them. Apart from this, follow/up sessions will be carried out by the faculty members regularly. All the parents are appraised with the data of their wards individually and suggestions will be given to improve their

ward's performance and at the same time, feedback from the parents also will be taken which will be recorded.

ADITYA COLLEGE OF ENGINEERING

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Recognized by UGC under Sections 2(f) and 12(B) of UGC Acts 1956
Aditya Nagar, ADB Road, Surampalem - 533 437, E.G.Dist., Ph: 99631 76662.

Department of Electronics & Communication Engineering

Class Time Table

Class: II-B.TechECE-A | 2021-22 | Sem: I | W.E.F- 20-10-2021 | LH:- RB-217

	I 9:30-10:20	II 10:20 -11:10	III 11:10-12:00	IV 12:00-12:50	12:50-1:50	V 1:50-2:40	VI 2:40-3:30	VII 3:30-4:20
MON	SS	STLD	RVSP	RVSP		EDC	STLD/EDC(T)	LIB
TUE	EDC	EDC/STLD LAB				STLD/EDC(T)	SEM	SPORTS
WED	M3	EDC	SS	RVSP	LUNCH	EDC/STLD LAB		
THU	SS	M3	RVSP/SS(T)	RVSP		STLD	EDC	INT
FRI	RVSP	SS	M3	EDC		EDC	SS/M3(T)	CO-C/SS/DA
SAT	STLD	M3/RVSP(T)	RVSP	COUN		JAVA LAB		

*(T) – Tutorial Concern Faculty

Course Code	University Code	Course Name	Name of the Faculty	Course Code	University Code	Course Name	Name of the Faculty
C211	R2021011	M3: Mathematics-III	Mrs. Ch.Satya Lakshmi	C218	R2021047	STLD LAB:Switching Theory& Logical Design Lab	Mrs.P.Mamathadevi/ Mr.S.Siva Prasad
C212	R2021041	EDC: Electronics & Device Circuits	Mrs.Ch Janaki Devi	SPORTS		SPORTS	Mr.S.Siva Prasad
C213	R2021042	STLD: Switching Theory and Logic Design	Mrs.PMamathadevi	COUN		COUNCELLING	Mr.V.Kiran
C214	R2021043	SS:Signals& Systems	Mr.S.Siva Prasad	INT		INTERNET	Mrs.Ch Janaki Devi
C215	R2021044	RVSP:Random Variables & Stochastic Processes.	Mr.V.Kiran	SEM		SEMINAR	Mr.M.Suresh
C216	R2021045	JAVA LAB: OOPS Through JAVA LAB	Mr.Giridhar	CO-C/SS/DA		Co-curricular Activities	Mrs.P.Mamathadevi
C217	R2021046	EDC LAB: Electronic Device Circuits LAB	Mrs.Ch Janaki Devi/ Mrs.Y.Sugandhi Naidu	LIB		LIBRARY	Mr.V.Kiran

Class In-Charge | Dept. Time Table Coordinator | Head of the Department

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Class: II-B.Tech EEE-A | A-Y: 2021-22 | Sem: I | Class Time Table | W.E.F- 08-10-2021 | LH:- NB-103

DAY	1 9:30-10:20	2 10:20-11:10	3 11:10-12:00	4 12:00-12:50	12:50-1:50	5 1:50-2:40	6 2:40-3:30	7 3:30-4:20
MON	EMF	DCM&T	GD/ Co-C/ DA/SS	ECA-II		M-IV	PE&M	COUN
TUE	DCM&T	EDC(T)/ ECA-II(T)	Skill Course			LIB	M-IV	PE&M
WED	EDC	Electrical Circuits Lab/ Electronic Devices Circuits Lab				DCM&T	M-IV(T)/EDC(T)	EDC
THU	EDC	SEM	DCM&T (T)/ EMF(T)	ECA-II	LUNCH	Electrical Circuits Lab/ Electronic Devices Circuits Lab		
FRI	ECA-II	EMF	EMF(T)/ DCM&T (T)	DCM&T		Skill Course		SPORTS
SAT	M-IV	DC Machines & Transformers lab				INT	ECA-II(T)/ M-IV(T)	EMF

*(T) – Tutorial Concern Faculty

Course Code	University Code	Course Name	Name of the Faculty	Course Code	University Code	Course Name	Name of the Faculty
C211	R2021021	M-IV-Mathematics-IV	Ms.G.Parvathi	C217	R2021027	DCM&T LAB- DC Machines and Transformers Lab	Mr.D.TataRao Mr T.Lakshminarayana Mr B Veeraiu
C212	R2021022	EDC-Electronic Devices and Circuits	Ms.T.Hima Bindu	C218	R2021028	EDC LAB-Electronic Devices and Circuits lab	Ms T Hima Bindu Mrs T Krishna Mohana
C213	R2021023	ECA-II- Electrical Circuit Analysis –II	Mr. Ch.Manoj	INT		Internet	Mr. M. Balu
C214	R2021024	DCM&T- DC Machines and Transformers	Mr K.Manoz Kumar Reddy	LIB		Library	Mr. T.Lakshminarayana
C215	R2021025	EMF- Electro Magnetic Fields	Mr.D.TataRao	COUN		Counseling	Mr.T.Lakshminarayana Mr Y.Srinivas Mrs T Himaja Mrs. T.Padmavarani

System of mentoring:

The following system at institute level is being followed:

Number of faculty mentors : 126

Number of students per mentor : 20 (Max.)

Frequency of mentoring : Once in a week

2. Type of mentoring system:

(a) Academic support programmes:

All the students are supported at Institute level with counselling services, peer support interventions and psycho/educational assessments as per the need to address issues such as test anxiety, Study skills, learning differences, academic goal setting, test/taking skills, concentration and memory related concerns and time management issues.

(b) Career development programmes:

Students are assisted in making decisions related to their career and development and they are asked to collaborate with placement and training cell for their betterment. Career guidance and one/to/one counselling services will be provided to the students periodically as well as when they needed to address the issues such as Psycho/educational assessment, Career related information/courses, Scholarships etc.

(c)Personal counselling:

Personal counselling will be provided to the students with an objective to provide better mental health care, to help the students develop their coping skills and to provide proper therapeutic support as when required. Counselling will be provided as one/to/one service and based on referrals to address the issues Relationship and adjustment issues, Stress related concerns, issues relating to self/esteem and personal growth, Body image and eating disorders, Substance abuse and other addictions, Depression and suicidal tendencies, Auto suggestions, sleeping related problems.

(d) All – round development:

Students are encouraged to participate in cultural, literary and sports activities to develop their individual qualities/traits such as leadership traits, decision/making capability, team spirit, socio/psychological awareness, organizing skills and expected a student to develop himself/herself overall personality and intellectually integrated person.

(e) Crisis management

Students are supported with immediate and short/term intervention during personal crisis and proper guidance will be provided at appropriate centers with therapeutic support as and when necessary. Support will be mobilized with immediate action through telephone and/or online and through personal counselling to address the issues such as suicide cases, Clinical depression, Substance abuse,

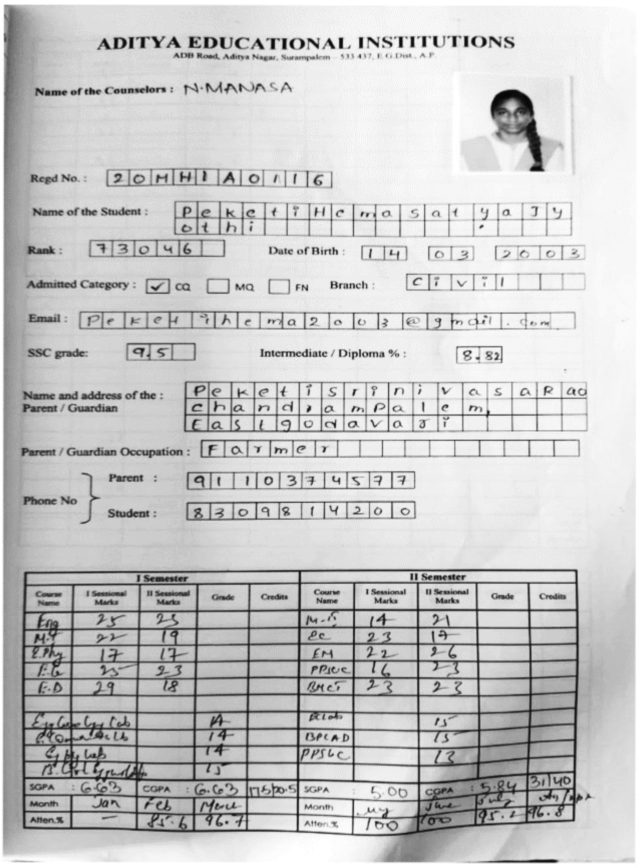
other stress related crises. Based on the above factors the following programs were conducted in the last three academic years.

3. Efficacy of mentoring/counselling system:

The mentoring/counselling system developed by the college has proved to be effective and it is being implemented with the following parameters:

S. No.	Parameters	Efficacy
1	Academic counseling	Enhanced / improved
2	Higher studies	Based on counseling, many students went to higher studies.
3	Co/curricular activities	Students were participated in many sports events and won the prizes also.
4	Students' attendance	Improved

Students and faculty Interaction Format: The following format is being used and all the observations will be recorded while interacting with the students along with the student profile.



ADITYA EDUCATIONAL INSTITUTIONS

ADB Road, Aditya Nagar, Surampalem – 533 437, E.G.Dist., A.P

Name of the Counselors : N·MANASA

Regd No. : 20MH1A0116

Name of the Student : Peketi Hema satya Jyothi

Rank : 73046 Date of Birth : 14 03 2003

Admitted Category : ☑ CQ ☐ MQ ☐ FN Branch : Civil

Email : peketihema2003@gmail.com

SSC grade: 9.5 Intermediate / Diploma % : 8.82

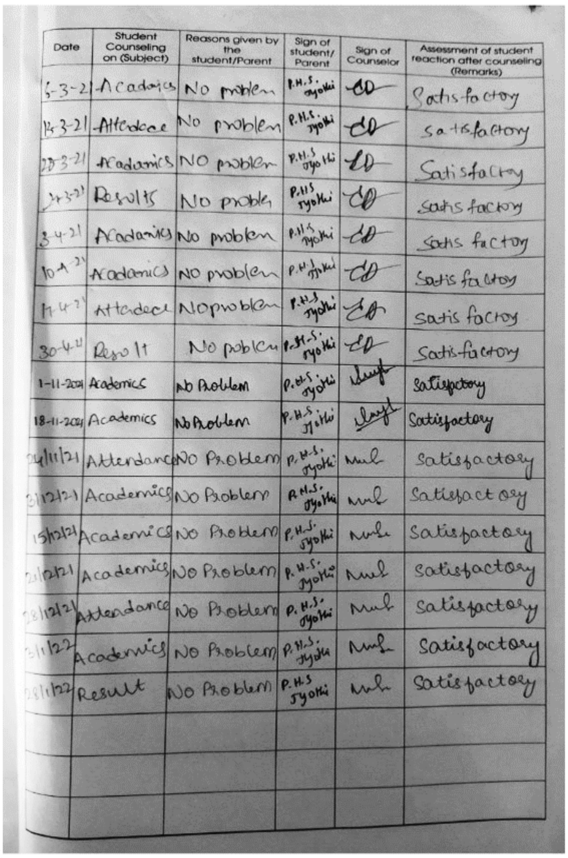
Name and address of the Parent / Guardian : Peketi srinivasa Rao chandrampalem, East godavari

Parent / Guardian Occupation : Farmer

Phone No – Parent : 9110374577

Phone No – Student : 8309814200

I Semester					II Semester				
Course Name	I Sessional Marks	II Sessional Marks	Grade	Credits	Course Name	I Sessional Marks	II Sessional Marks	Grade	Credits
Eng	25	23			M-II	14	21		
M-I	22	19			EC	23	17		
E.Phy	17	17			EM	22	26		
E.G	25	23			PPIUC	16	23		
E.D	29	18			BMCE	23	23		
Eng lab			A		EC lab		15		
E.C lab			14		BPCAD		15		
E.Phy lab			14		PPSUC		13		
B.Civil Engg lab			15						
SGPA : 6.63		CGPA : 6.63		17.5/20.5	SGPA : 5.00		CGPA : 5.84		31/40
Month	Jan	Feb	March		Month	May	June	July	Aug/Apr
Atten.%	—	85.6	96.7		Atten.%	100	100	95.2	96.8



Date	Student Counseling on (Subject)	Reasons given by the student/Parent	Sign of student/ Parent	Sign of Counselor	Assessment of student reaction after counseling (Remarks)
6-3-21	Academics	No problem	P.H.S. Jyothi	[signature]	Satisfactory
13-3-21	Attendance	No problem	P.H.S. Jyothi	[signature]	Satisfactory
20-3-21	Academics	No problem	P.H.S. Jyothi	[signature]	Satisfactory
27-3-21	Results	No problem	P.H.S. Jyothi	[signature]	Satisfactory
3-4-21	Academics	No problem	P.H.S. Jyothi	[signature]	Satisfactory
10-4-21	Academics	No problem	P.H.S. Jyothi	[signature]	Satisfactory
17-4-21	Attendance	No problem	P.H.S. Jyothi	[signature]	Satisfactory
30-4-21	Result	No problem	P.H.S. Jyothi	[signature]	Satisfactory
1-11-2021	Academics	No Problem	P.H.S. Jyothi	[signature]	Satisfactory
18-11-2021	Academics	No Problem	P.H.S. Jyothi	[signature]	Satisfactory
24/11/21	Attendance	No Problem	P.H.S. Jyothi	[signature]	Satisfactory
3/12/21	Academics	No Problem	P.H.S. Jyothi	[signature]	Satisfactory
15/12/21	Academics	No Problem	P.H.S. Jyothi	[signature]	Satisfactory
21/12/21	Academics	No Problem	P.H.S. Jyothi	[signature]	Satisfactory
28/12/21	Attendance	No Problem	P.H.S. Jyothi	[signature]	Satisfactory
5/1/22	Academics	No Problem	P.H.S. Jyothi	[signature]	Satisfactory
28/1/22	Result	No Problem	P.H.S. Jyothi	[signature]	Satisfactory

Impact of the System: Impact of the system is presented academic year wise in the following table:

Type of counseling	2020 -21 Number of students benefitted	2019 -20 Number of students benefitted	2018 -19 Number of students benefitted
Academic counseling	87	45	21
Higher studies	17	13	4
Co/curricular activities	123	96	64
Students' attendance	43	19	9

9.2 Feedback analysis and reward/corrective measures taken, if any (10)

(Feedback collected for all courses Specify the feedback collection process Average Percentage of students who participate Basis of reward/ corrective measures, if any; Indices used for measuring quality of teaching& learning and summary of the index values for all courses/teachers; Number of corrective actions taken).

Institute collects the feedback from all the students for programmes and will be analysed to assess the quality of teaching and learning. The process of feedback will be carried out in three stages: (a) Feedback collection (b) Feedback analysis (c) Reward/corrective measures.

Feedback Collection:

Collection of feedback for all the courses is a well-organized system and will be taken from all the students in computer laboratory by distributing the feedback questionnaire through Local Area Network (LAN). Feedback will be collected on 4/point rating scale and the details are presented in the table:

Activity	Description
Feedback collection	From all students on courses/programmes
Collection process	Collected in computer laboratory by distributing Feedback form through LAN and student will login and respond to questionnaire
Frequency of feedback collection	Twice in a semester
Rubrics used for calculation	4/Very Good; 3/Good; 2/Average; 1/Below average

Feedback Analysis

Summary of the feedback reports pertaining to the courses, programmes and teaching/learning will be prepared, usually on 4/point scale and the expected feedback for a faculty member from the

students is 3 out of 4. Feedback is shared with heads of the respective departments. Informal feedback is also taken directly by the heads from time to time during the ongoing semester.

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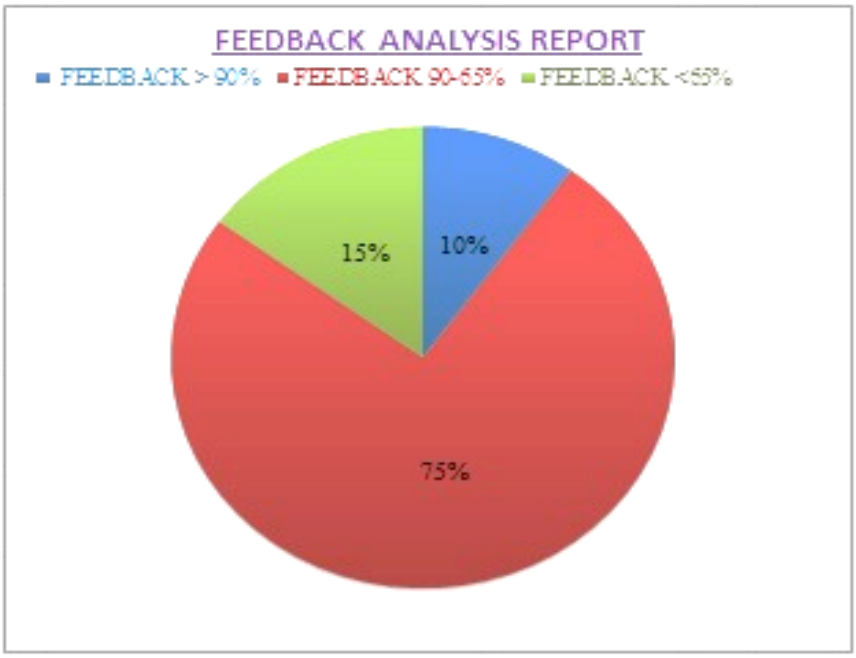
Aditya Nagar, ADB Road, Surampalem - 533 437.

II, III & IV YEARS II SEM (2019-20) -EEE DEPARTMENT ONLINE FEEDBACK - 25.01.2020-ANALYSIS REPORT

TOTAL NO OF FACULTY	20	Date:27.01.2020
FEEDBACK > 90%	2	APPRECIATION LETTER
FEEDBACK 90-65%	15	NO ACTION TAKEN
FEEDBACK <65%	3	CORRECTIVE MEASURES FORM

FACULTY WHO GOT > 90%
Mr.P.SRIDHAR
Mrs.T.HIMAJA
FACULTY WHO GOT <65%
Mr. D.TATA RAO
Mr.VENKATA KUMAR REDDY
Mr.M.SATYANARAYANA RAJU



A special emphasis is paid on transparency and impact of the feedback system. A range of parameters that are used for collecting the feedback data are: Subject Depth (Theory/Practical); Way of Teaching Theory; Involvement in teaching (commitment) Theory; The teacher is regular & prompt to the class Theory; Overall Assessment Theory etc. A format of student feedback on teaching/learning is given and feedback forms are given as sample:

V Chandra Sekhara Rao					
Subject	Python Programming				
Sem - Branch - Section	3-CSE-A				
Department	CSE		Employee ID	709	
Email	chandrasekhara_cse@acoe.edu.in				
	Below Average	Average	Good	Very Good	Percentage
Subject Depth Theory	0	0	25	38	90.08
Way of Teaching Theory	0	4	19	40	89.29
Involvement in Teaching (commitment) Theory	0	2	23	38	89.29
The teacher is regular & prompt to the class Theory	0	2	21	40	90.08
Overall Assessment Theory	0	2	21	40	90.08
No.Of Students	63		Overal %		89.76
Suggestions					
way of teaching is good					
good					
need some more effective teaching					

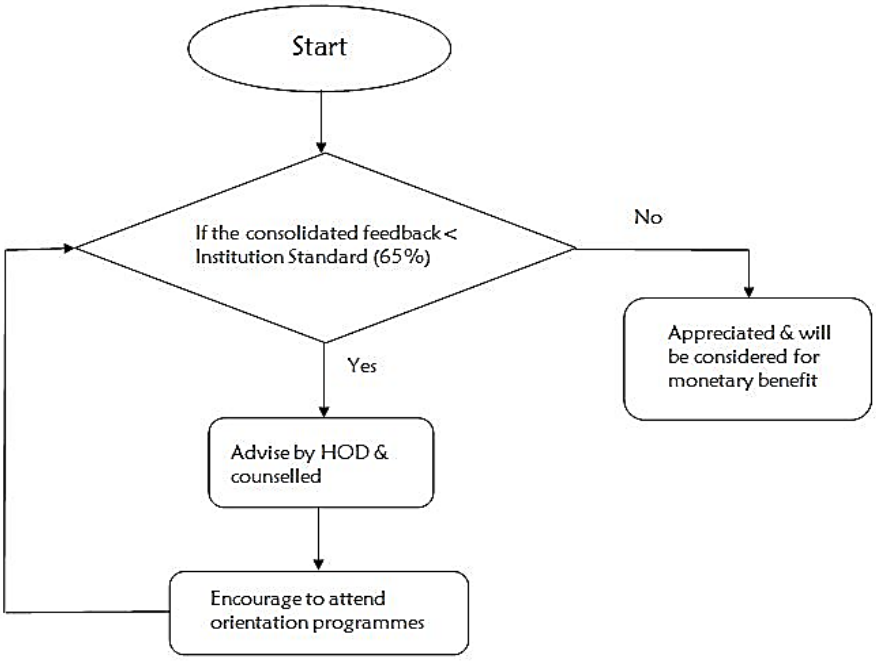
CH.NARESH					
Subject	Water Resources Engineering - II				
Sem - Branch - Section	7-CIVIL-A				
Department	CIVIL		Employee ID	3589	
Email	naresh_civil@acoe.edu.in				
	Below Average	Average	Good	Very Good	Percentage
Subject Depth Theory	1	4	8	17	84.17
Way of Teaching Theory	2	3	10	15	81.67
Involvement in Teaching (commitment) Theory	2	2	8	18	85
The teacher is regular & prompt to the class Theory	3	2	14	11	77.5
Overall Assessment Theory	2	3	9	16	82.5
No.Of Students	30		Overal %		82.17
Suggestions					
very good teaching					
thanks for ur guidance sir.... thanking u so much					
good					
helping hands					
plzz say properly first					

Rewards/Corrective Measures

Course feedback about teaching/learning will be collected from students and analysed at department level and will be discussed in the Academic Committee. Corrective action will be initiated based on the analysis wherever and whenever required and the process is displayed in the form of flowchart.

Faculty members who follow good and innovative teaching pedagogies are appreciated and rewarded in recognition of their exemplary efforts of Resourcefulness, Clarity in explanation, effective communication, syllabus coverage, Innovations in bringing about the change, Dependability

in their work, Expertise used and developed in academics, research and patenting, Corrective actions are taken for the faculty whose score is less than the expected by encouraging faculty to attend more Faculty Development Programs, (FDPs) and to change the pattern of teaching. Suggestions are given to enhance their teaching skills with the peer support within a stipulated time period. The performance is reviewed by the head of the department regularly and consolidated reports of feedback are presented here as sample:



The performance is reviewed by the head of the department regularly and consolidated reports of feedback are presented here as sample:

Corrective measures based on feedback				
Academic Year	**Number of faculty members**	**Number of faculty members above Institution standard**	**Number of faculty members below Institution standard**	**Corrective measures**
2021-22	176	145	31	Counseled by HOD Advised to attend orientation programmes Advised to interact with senior faculty to take suggestions for improvement
2020-21	186	163	23	
2019-20	183	148	35	
2018-19	187	156	31	

9.3. Feedback on facilities:

ACOE follows the following procedure to collect and analyze the feedback on facilities (a) Gathering feedback (b) Analysis (c) Initiate corrective action and the process is discussed here.

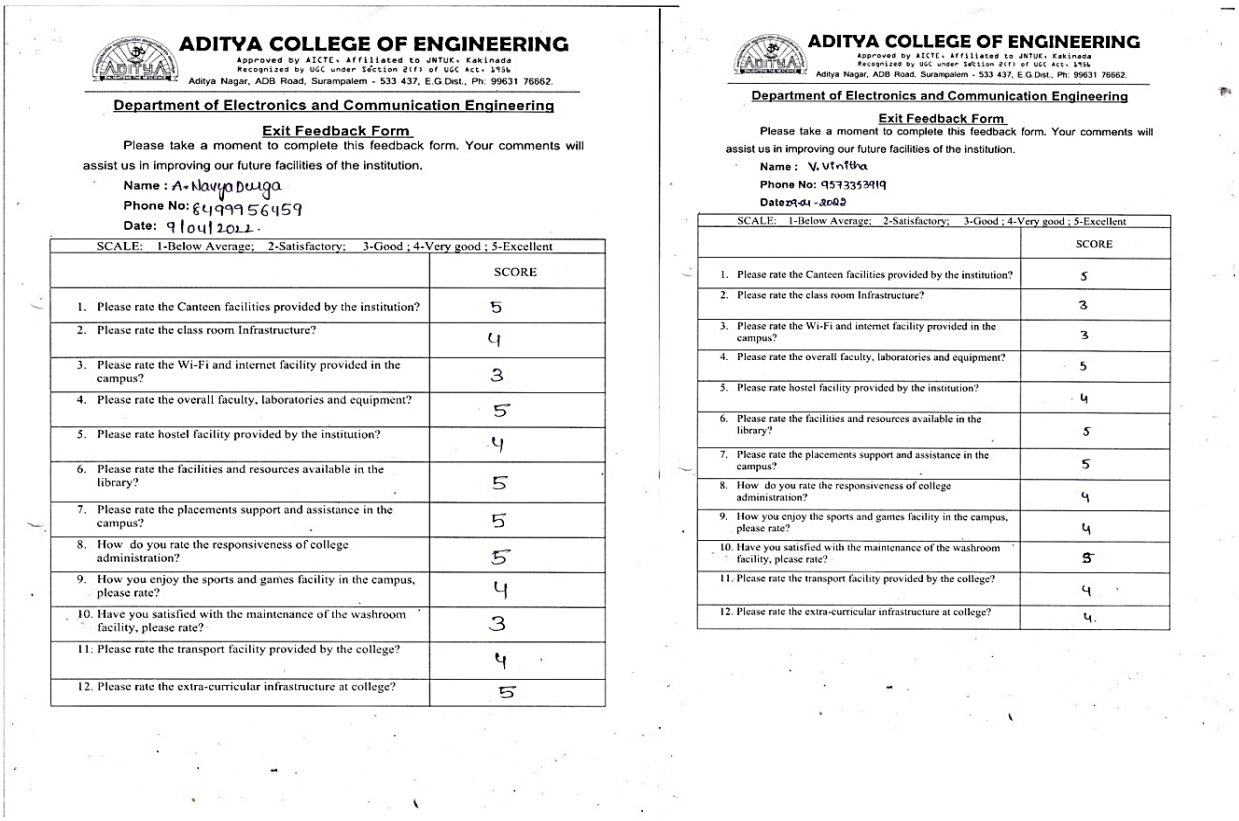
Gather feedback on facilities

Institution provides sustainable and state/of/art infrastructure facilities and assessment of facilities will be done based on the feedback from students at the end of the year. Suggestion box is also made available in the premises to receive suggestions from the students. Grievance redressal committees also collect information and submit to higher authorities. The alumni network of the institution is very strong and they take part in survey during the alumni activity conducted every year. Feedback will be collected during the exit survey and parent/teacher meetings about the facilities of the institution to provide effective learning environment. Young aspirants as students are given much focus about their overall development and Institute maintains all the data related to feedback.

Feedback Analysis:

Feedback collected from the students and outgoing students will be analysed their rating and the suggestions given by them will be noted down every academic year. The samples of feedback formats for students and outgoing students along with the analysis are presented.

Exit Feedback Form Analysis



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Department of Electronics and Communication Engineering

Exit Feedback Form

Please take a moment to complete this feedback form. Your comments will assist us in improving our future facilities of the institution.

Name : A. Navya Durga
Phone No: 6499956459
Date: 9/04/2022

SCALE: 1-Below Average; 2-Satisfactory; 3-Good ; 4-Very good ; 5-Excellent

	SCORE
1. Please rate the Canteen facilities provided by the institution?	5
2. Please rate the class room Infrastructure?	4
3. Please rate the Wi-Fi and internet facility provided in the campus?	3
4. Please rate the overall faculty, laboratories and equipment?	5
5. Please rate hostel facility provided by the institution?	4
6. Please rate the facilities and resources available in the library?	5
7. Please rate the placements support and assistance in the campus?	5
8. How do you rate the responsiveness of college administration?	5
9. How you enjoy the sports and games facility in the campus, please rate?	4
10. Have you satisfied with the maintenance of the washroom facility, please rate?	3
11. Please rate the transport facility provided by the college?	4
12. Please rate the extra-curricular infrastructure at college?	5

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Department of Electronics and Communication Engineering

Exit Feedback Form

Please take a moment to complete this feedback form. Your comments will assist us in improving our future facilities of the institution.

Name : V. Vinitha
Phone No: 9573353919
Date: 29-04-2022

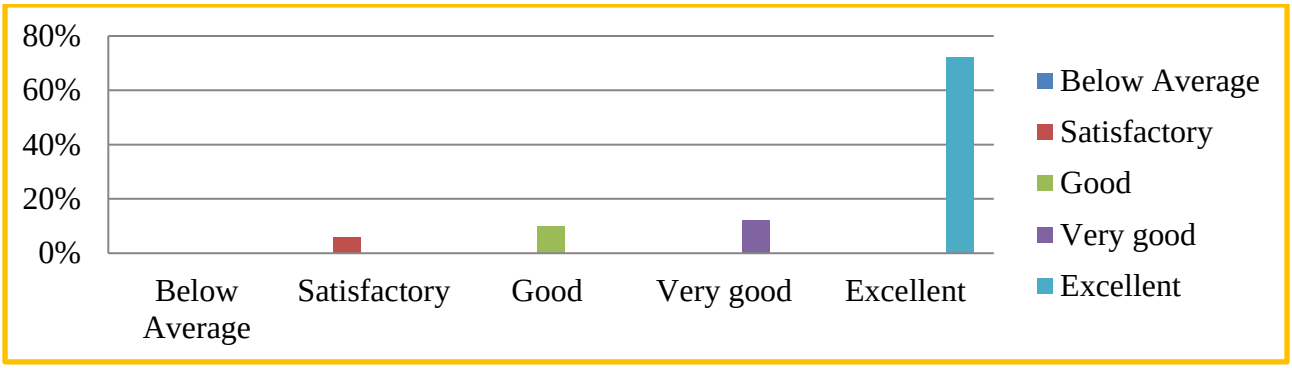
SCALE: 1-Below Average; 2-Satisfactory; 3-Good ; 4-Very good ; 5-Excellent

	SCORE
1. Please rate the Canteen facilities provided by the institution?	5
2. Please rate the class room Infrastructure?	3
3. Please rate the Wi-Fi and internet facility provided in the campus?	3
4. Please rate the overall faculty, laboratories and equipment?	5
5. Please rate hostel facility provided by the institution?	4
6. Please rate the facilities and resources available in the library?	5
7. Please rate the placements support and assistance in the campus?	5
8. How do you rate the responsiveness of college administration?	4
9. How you enjoy the sports and games facility in the campus, please rate?	4
10. Have you satisfied with the maintenance of the washroom facility, please rate?	5
11. Please rate the transport facility provided by the college?	4
12. Please rate the extra-curricular infrastructure at college?	4

Exit Feedback analysis of outgoing students

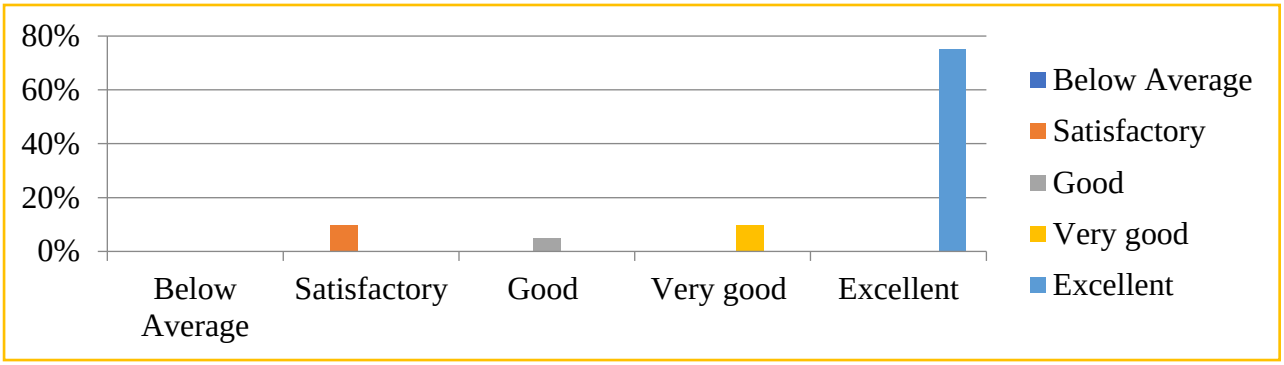
1. Please rate the canteen facilities provided in the campus?

As per the feedback taken from the students, 72% of the students are Excellent about the given question on Facilities, 12% of the students are very good, 10% are good and remaining 6% of the students are satisfactory.



2. How do you rate the class room Infrastructure?

As per the feedback taken from the students on class room ambience and infrastructure, 75% of the students expressed Excellent, 10% of the students expressed very good, 5% of the students expressed good and remaining 10% of the students felt satisfactory.

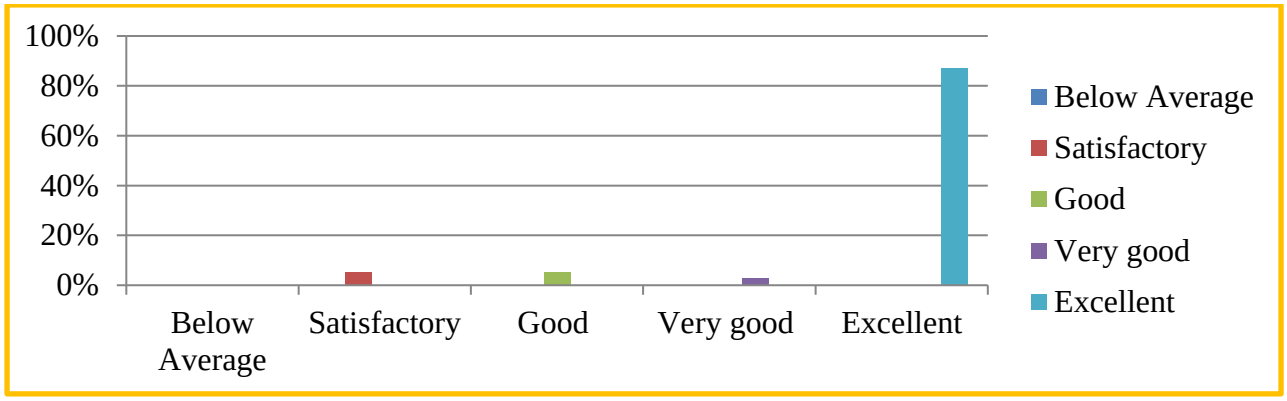


3. How do rate the cyber lab facility provided by the institution?

As per the feedback taken from the students on cyber facilities, 90% of the students expressed Excellent about the facilities and resources available in the library, 04% of the students expressed very good, 06% of the students expressed good.

4. Are you satisfied with the Extra – curricular infrastructure at college?

As per the feedback taken from the students on extra/curricular Infrastructure, 87% of the students expressed Excellent, 3% of the students expressed very good, 5% of the students expressed good and remaining 5% of the students felt satisfactory.

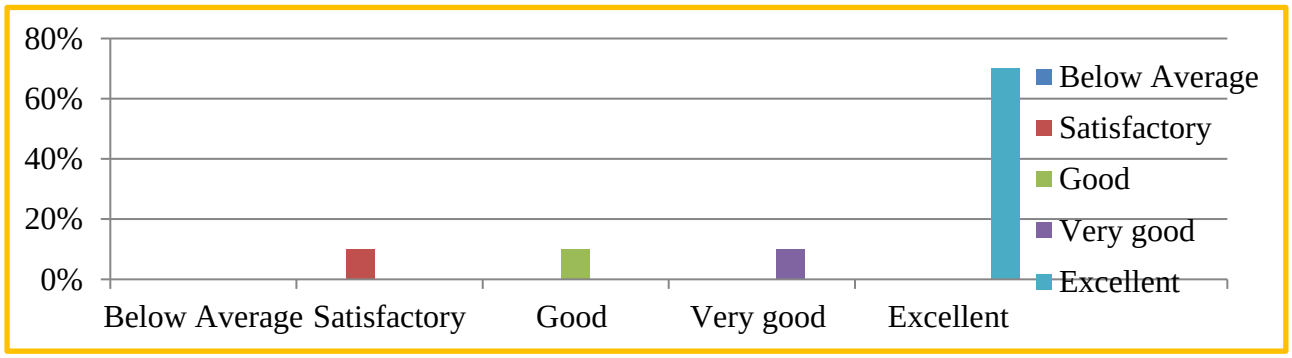


5. Are you satisfied with the Hostel Facility provided by the institution?

As per the feedback taken from the students on hostel facility, 90% of the students expressed Excellent, 5% of the students expressed very good, 5% of the students expressed good.

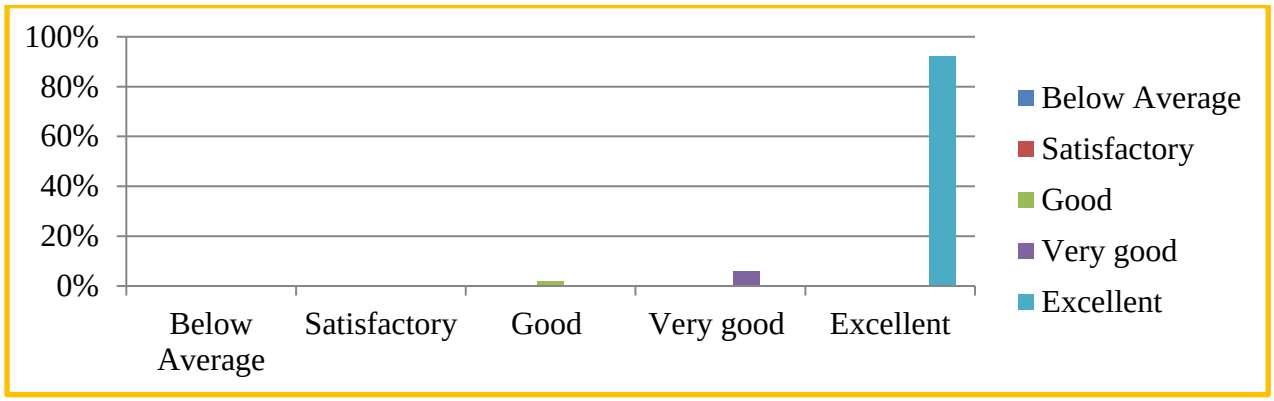
6. How do you rate the Lab facilities at the institution?

As per the feedback taken from the students on lab facilities, 70% of the students expressed Excellent, 10% of the students expressed very good, 10% expressed good and remaining 10% of the students felt satisfactory.



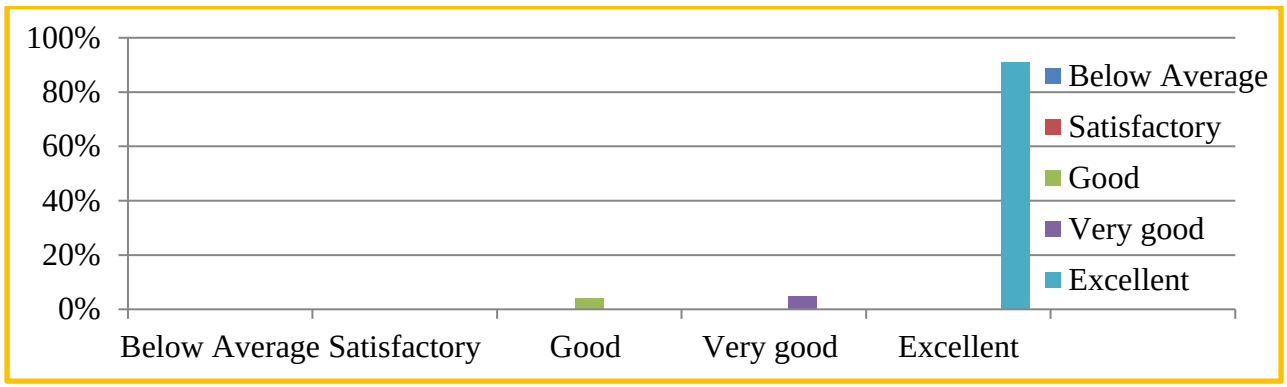
7. How do you rate the Library Facilities provided by the institution?

As per the feedback taken from the students on library facility at college, 92% of the students expressed Excellent, 6% of the students expressed very good, 2% of the students expressed good.



8. Are you satisfied with the placement support provided?

As per the feedback taken from the students on placement support, 91% of the students expressed Excellent, 5% of the students expressed very good, 04% of the students expressed good.

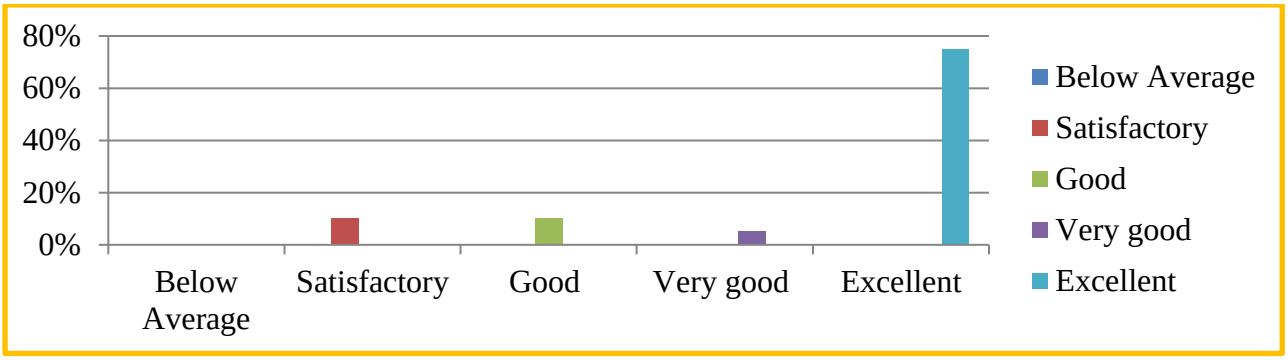


9. How is the responsiveness of College Admin office?

As per the feedback taken from the students on college admin office, 85% of the students expressed Excellent, 10% of the students expressed very good, 5% of the students expressed good.

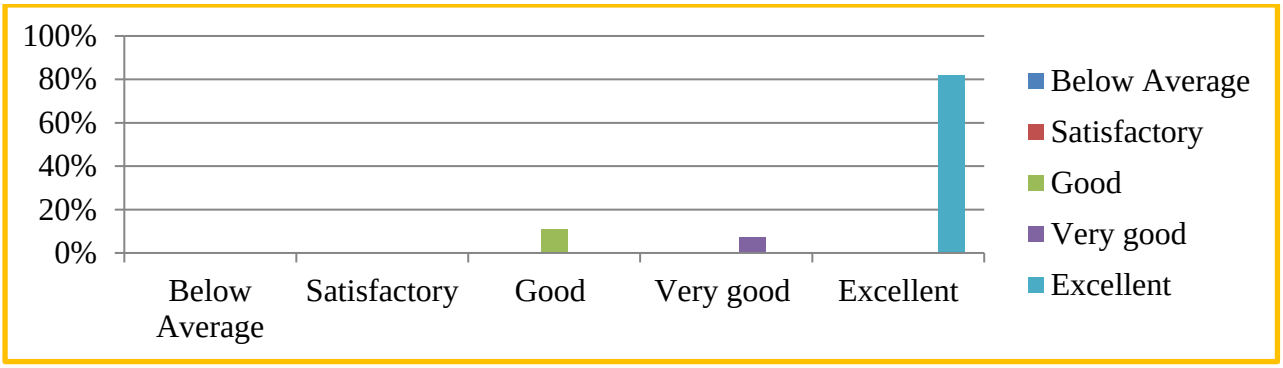
10. How is the Sports facilities provided by the Institution?

As per the feedback taken from the students on sports facilities, 75% of the students expressed Excellent, 5% of the students expressed very good, 10% of the students expressed good and remaining 10% of the students felt satisfactory.



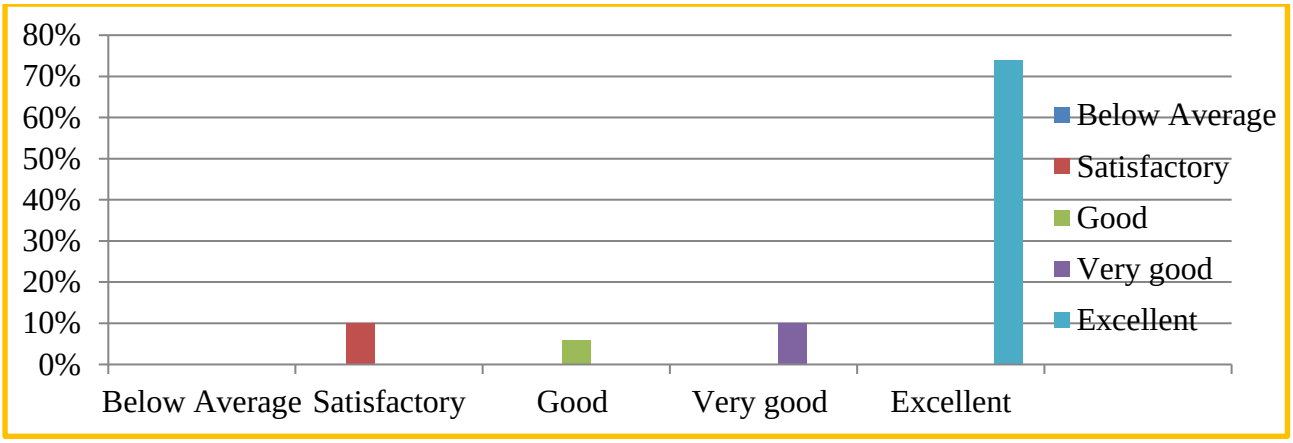
11. How do you rate the Toilet facilities and maintenance?

As per the feedback taken from the students on toilet facilities, 82% of the students expressed Excellent, 7% of the students expressed very good, 11% of the students expressed good.



12. How do you rate the transport facility provided by the college?

As per the feedback taken from the students on transport facility, 74% of the students expressed Excellent, 10% of the students expressed very good, 06% expressed good and remaining 10% of the students felt satisfactory.



Suggestions:

1. In digital library some of the systems are not working properly for using NPTEL videos.
2. Projectors are not working in some of the class rooms.
3. Bus route are covered all over but limited stops are implemented kindly increase the stops.

Visitors Feedback Form Analysis:

ADITYA COLLEGE OF ENGINEERING

Department of Civil Engineering

Visitors Feedback Form on Facilities

Please take a moment to complete this feedback form. Your comments will assist us in improving our future facilities of the institution.

Name : E. V. V. Satyanarayana

Purpose of Visit : Parents meeting

Phone No : [illegible]

Date : 09/03/23

SCALE: 1-Below Average; 2-Satisfactory; 3-Good; 4-Very good; 5-Excellent

	SCORE
1. Is the college approachable?	4
2. How do you rate the institute Infrastructure	4
3. Front office support and cordial behavior?	4
4. The person whom you have met is cordial and informative?	5
5. The Campus is green and eco-friendly.	4
6. Transport Facility	5
7. Hostel Facility available.	5
8. Canteen facilities are available in the campus.	5
9. Overall rating of the institution.	4

K. V. V. Satyanarayana

SIGNATURE OF THE VISITOR

ADITYA COLLEGE OF ENGINEERING

Department of Civil Engineering

Visitors Feedback Form on Facilities

Please take a moment to complete this feedback form. Your comments will assist us in improving our future facilities of the institution.

Name : P. Srinivas

Purpose of Visit : parents meeting

Phone No : 8501352263

Date : 9/3/2023

SCALE: 1-Below Average; 2-Satisfactory; 3-Good; 4-Very good; 5-Excellent

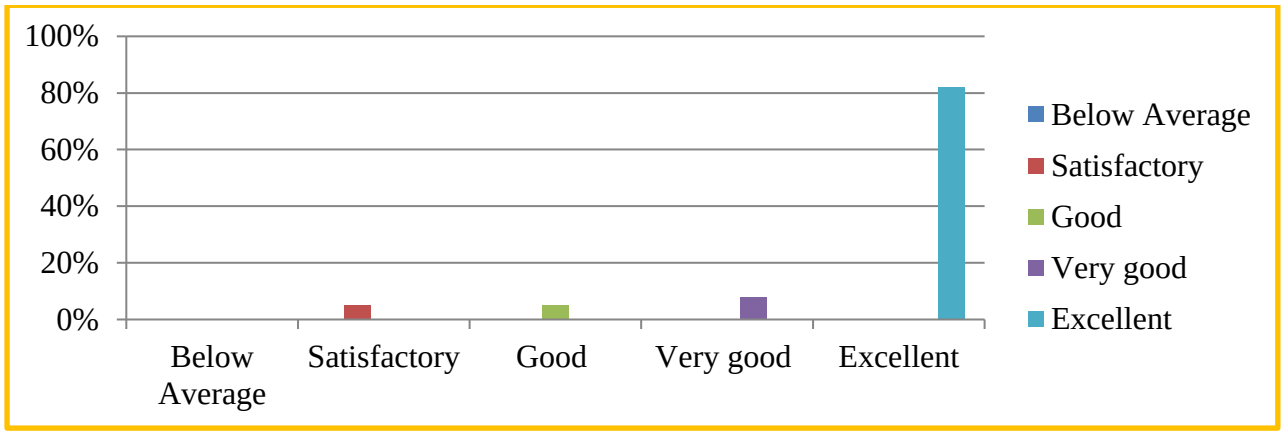
	SCORE
1. Is the college approachable?	5
2. How do you rate the institute Infrastructure	4
3. Front office support and cordial behavior?	4
4. The person whom you have met is cordial and informative?	4
5. The Campus is green and eco-friendly.	5
6. Transport Facility	4
7. Hostel Facility available.	3
8. Canteen facilities are available in the campus.	5
9. Overall rating of the institution.	4

P. Srinivas

SIGNATURE OF THE VISITOR

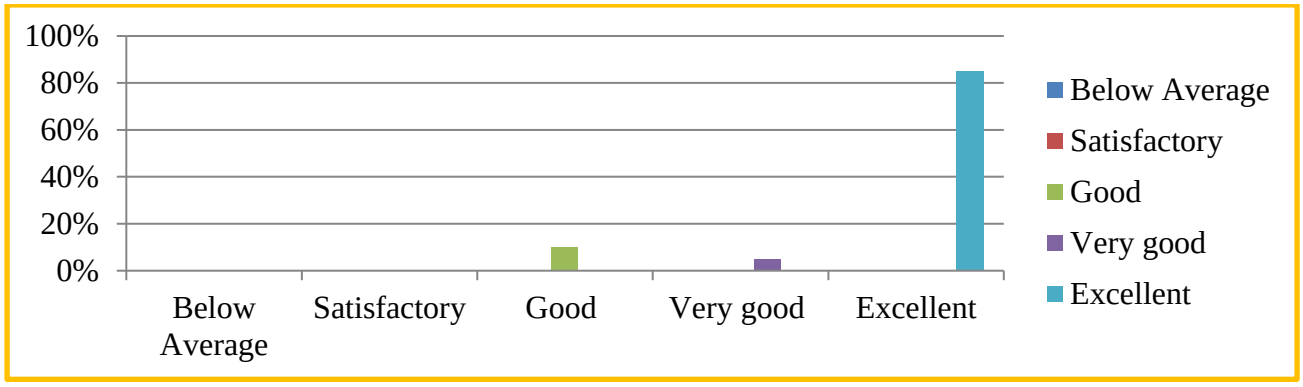
1. Is the college approachable?

As per the feedback taken from the visitors on college approaching, 82% of the visitors expressed Excellent, 8% of the visitors expressed very good, 5% of the visitors expressed good and remaining 5% of the visitors felt satisfactory.



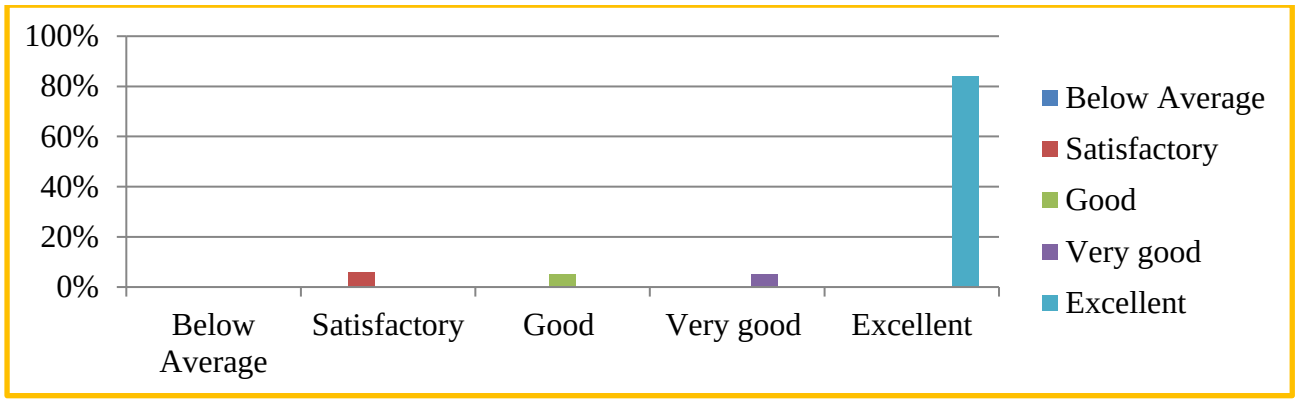
2. How do you rate the institute Infrastructure?

As per the feedback taken from the visitors on is institute infrastructure, 85% of the visitors expressed Excellent, 10% of the visitors expressed very good, 5% of the visitors expressed good.



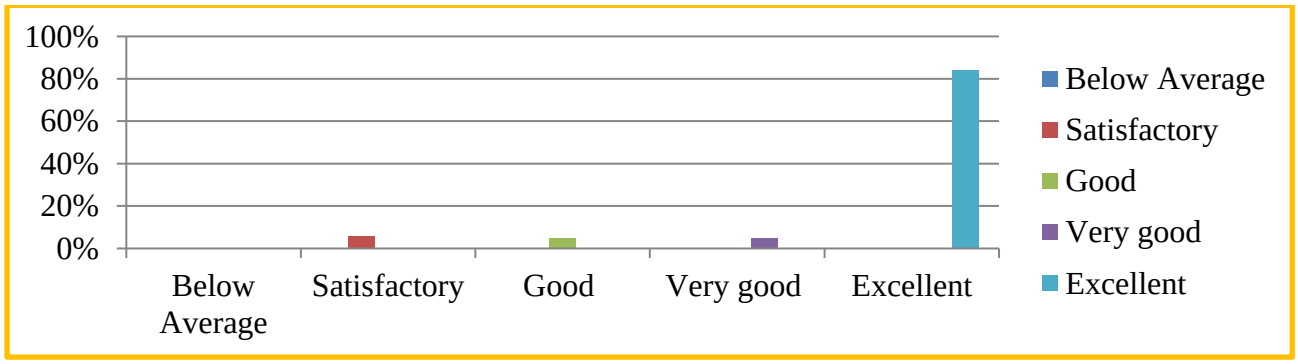
3. Front office support and cordial behavior?

As per the feedback taken from the visitors on office support, 84% of the visitors expressed Excellent, 6% of the visitors expressed very good, 5% of the visitors expressed good and remaining 5% of the visitors felt satisfactory.



4. The person whom you have met is cordial and informative?

As per the feedback taken from the visitors on cordial and informative, 84% of the visitors expressed Excellent, 6% of the visitors expressed very good, 5% of the visitors expressed good and remaining 5% of the visitors felt satisfactory.

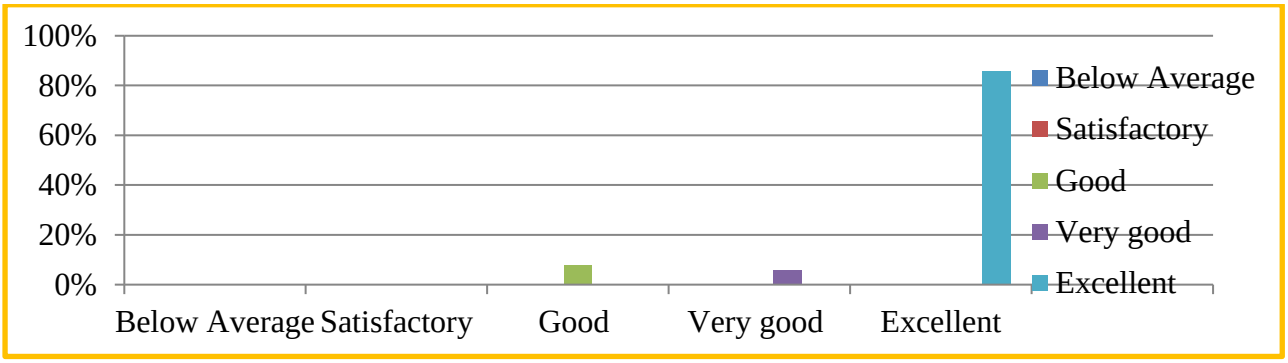


5. The Campus is green and eco/friendly.

As per the feedback taken from the visitors on green and eco/friendly, 91% of the visitors expressed Excellent, 5% of the visitors expressed very good, 4% of the visitors expressed good.

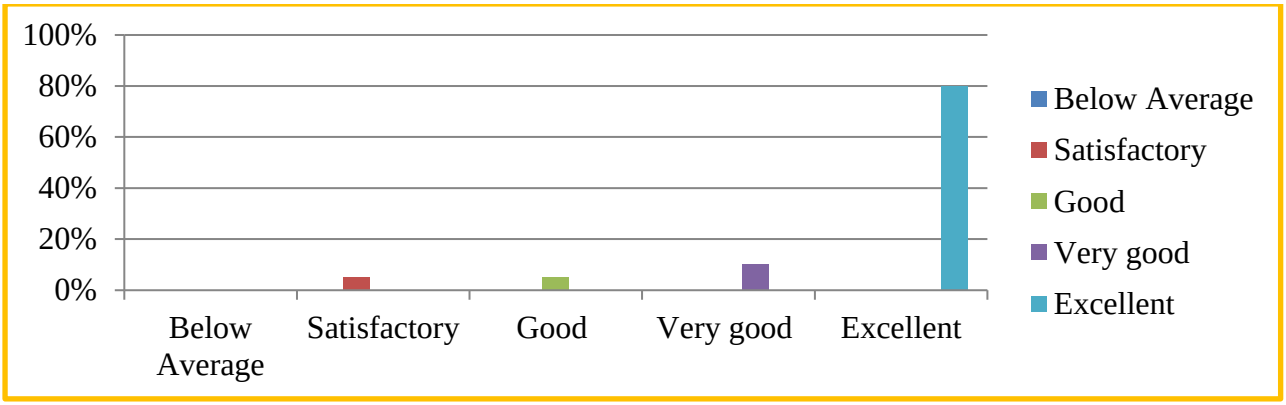
6. Transport Facility

As per the feedback taken from the visitors on transport facility, 85% of the visitors expressed Excellent, 6% of the visitors expressed very good, 9% of the visitors expressed good.



7. Hostel Facility available.

As per the feedback taken from the visitors on hostel facility, 80% of the visitors expressed Excellent, 10% of the visitors expressed very good, 5% of the visitors expressed good and remaining 5% of the visitors felt satisfactory.

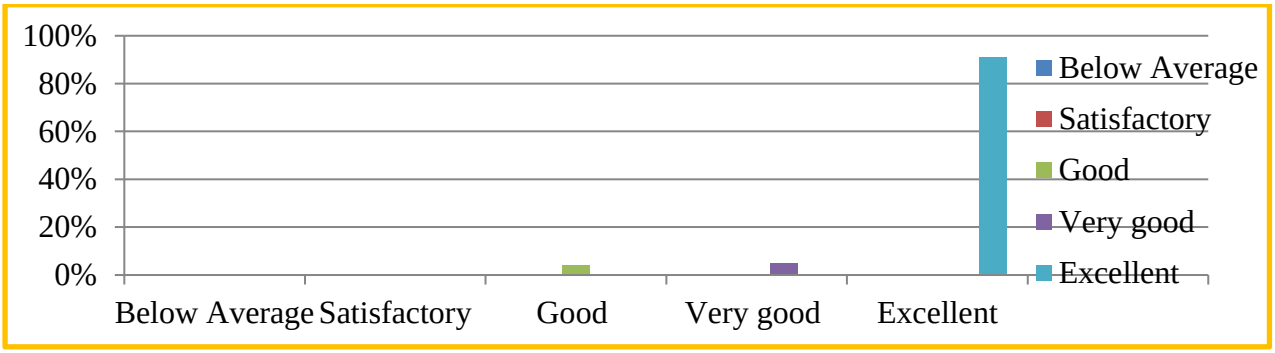


8. Canteen facilities are available in the campus.

As per the feedback taken from the visitors on canteen facility, 90% of the visitors expressed Excellent, 5% of the visitors expressed very good, 5% of the visitors expressed good.

9. Overall rating of the institution.

As per the feedback taken from the visitors on overall rating, 91% of the visitors expressed Excellent, 5% of the visitors expressed very good, 4% of the visitors expressed good.



Suggestions:

1. Try to arrange, to and fro travel support for visitors from ADB road to Campus main gate.
2. Direction boards are present in the campus but still try to provide route map of the college in poster format to reach respective locations without any difficulty.

Action Taken Report

Strengthening of the infrastructure for various facilities has been made with the constructive feedbacks from the stake holders. Suitable corrective and remedial measures are taken periodically based on these feedback and survey reports to improve the facilities of the institution. Students are motivated to provide feedback and help the institute to identify and fill the gaps. A sample statement of feedback on facilities and its corrective action is presented.

S. No	Feedback	Action taken
1	Some of the systems in the library are not functioning properly to view NPTEL videos	Library systems which are having issues to open NPTEL videos are rectified and brought into usage.
2	Sports facilities should be improved	The requirement has been communicated to the principal for the further improvement of sports facilities.
3	Transport facility from the main road to campus should be provided for day scholars.	Mini bus facility from ABD road to campus has been taken into management notices for further action.

9.4. Self-Learning

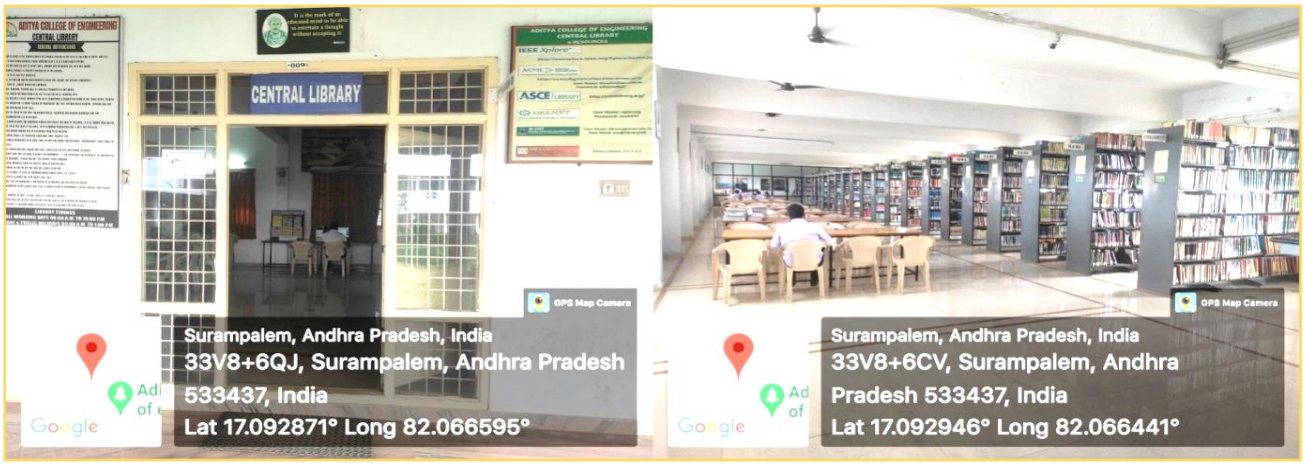
(The institution needs to specify the facilities, materials and scope for self – learning / learning beyond syllabus, webinars, podcast, MOOCs etc., and evaluate their effectiveness)

ACOE maintains all the resources for the students in the campus which is presented

Facilities of Self Learning

Facilities that are available in the Institute to encourage the students for self/learning are Library, Digital Library in college and Department Library apart from online resources.

Central Library in the college has numerous numbers of books from great publishers for the course work, research purpose and for competitive exams like GATE, CAT, IES and many more.



Digital Library is provided separately in the college for online resources access. Apart from the textbooks, college has also provided e/resources access for the students learning purpose. Library in college has provided access to various e/books and e/journals for promoting resource sharing among the libraries. They act as a crucial role for improving student knowledge. Library has access to various e/resources memberships which are listed below.

E-RESOURCES provided for the year 2021-22:

Details Of Memberships	E-Resources	Details Of Subscriptions	Name Of Services Subscribed To	Validity Period	Usage Report From The Service Provider	Whether Remote Access Provided (Yes / No)
Annual Membership	Data Base	DELNET	DELNET	26 January 2023	Available	Yes
Annual Membership	N-List	N-List	INFLIBNET	March 2023	Available	Yes
Annual Membership	Elsevier Engg & CS	Elsevier Engineering and Computer Science Package	Global Information Systems Technology	31st January 2023	Available	Yes
Annual Membership	Knimbus	Knimbus mLibrary Campus Acc	KNIMBUS ONLINE PVT. LTD	31st January 2023	Available	Yes

E-RESOURCES provided for the year 2020-21:

Details Of Memberships	E-Resources	Details Of Subscriptions	Name Of Services Subscribed To	Validity Period	Usage Report From The Service Provider	Whether Remote Access Provided (Yes / No)
Annual Membership	Data Base	DELNET	DELNET	26 January 2020	Available	Yes
Annual Membership	N-List	N-List	INFLIBNET	March 2020	Available	Yes
Annual Membership	E-Books	Pearson E-Library	Paramount Books Distributor	May 2021	Available	Yes

E-RESOURCES provided for the year 2019-20:

Details Of Memberships	E-Resources	Details Of Subscriptions	Name Of Services Subscribed To	Validity Period	Usage Report From The Service Provider	Whether Remote Access Provided (Yes / No)
Annual Membership	Data Base	DELNET	DELNET	26 January 2020	Available	Yes
Annual Membership	N-List	N-List	INFLIBNET	March 2020	Available	Yes
Annual Membership	E-Journals	J-Gate	Cyber Info Services	December 2020	Available	Yes
Annual Membership	e-Journals	Taylor & Francis	JNTUA Consortium Of E-Resources	December 2020	Available	Yes

E-RESOURCES provided for the year 2018-19:

Details of Memberships	E-Resources	Details of Subscriptions	Name of Services Subscribed to	Validity Period	Usage Report From the Service Provider	Whether Remote Access Provided (Yes / No)
Annual membership	Data base	DELNET	DELNET	26 January 2019	Available	Yes
Annual membership	N-list	N-list	INFLIBNET	March 2019	Available	Yes
Annual membership	e-book	McGraw-Hill	McGraw-Hill express library	June 2019	Available	Yes

Materials of Self Learning

Materials that are used by the students are web/based learning like NPTEL, Coursera and Udemy, online lectures through YouTube, seminars and workshops, student seminars/presentations, assignments, paper presentations, group discussions, internships, industrial visits and projects. All the above-mentioned self/learning methods have created a great impact in the learning process of the students.

Scope for Self-Learning facilities

The scope of self-learning is to learn beyond the syllabus to develop strong problem-solving skills. The institute curriculum includes compulsory subject courses for all the UG students that are designed for overall development of student to evolve into an achiever, and all of these components are not strictly restricted to prescribed syllabus but give freedom to student to pursue topics of

interest. These methods of self-learning enhanced the student to dive into various fields of his/her interest.

Students utilize the available resources based on their need and requirement and the scope for self/learning is presented here:

S.No.	Self / Learning Facilities	Description
1	Library	• College Library provides information and ideas that are fundamental for functioning successfully in today's world. • Library consists of all genres books which provides information and to equip students with knowledge and learning skills.
2	Digital Library	• Internet facility is made available to encourage students for self/learning. • The digital library offers NPTEL videos and sufficient systems with multimedia facilities.
3	Departmental Library	• Department is facilitated with books for UG and a system for self/research.
4	Web based learning (NPTEL, Webinars, Podcasts, MOOCs, etc)	• Web based learning is the learning utilizing internet sources like NPTEL lectures, Udemy, Coursera and also attending Webinars, Podcasts. • MOOC courses are used as an alternative method to expand the existing knowledge.
5	Assignments	• Students are given assignments and made to go through the topics in a more elaborate manner in order to get a better learning experience. • Faculty will give assignments on a regular basis and these are graded.
6	Common computer centre	• Including computers as one of the learning will make the students more involved and focused. • Using a computer in education lets each student collaborates and at the same time, teach them to become independent.

Source and Tools of Self Learning

The sources and tools of self-learning are presented:

S. No	Self-learning Sources	Source	Tools/ICT/ Support
1	Web Based Learning/ E/courses	NPTEL, Coursera, SWAYAM, Udemy, YouTube	Computer System with Internet Connection/Wi/Fi
2	Assignments	E-Books / Lecture Notes / NPTEL	--
3	Students Activity Cell (SAC)	Technical, cultural and other activities and competitions will be conducted	Student teams under the guidance of faculty members implements activities

Utilization and Effectiveness

Students from all departments utilize online resources, attend relevant trainings, Project/based learning (PBL) for learning new things, implementing concepts practically, understanding the principles, contents out of syllabus so as to enhance the existing level of their knowledge. Self/learning, in general, happens by doing activity under the guidance of faculty members. The effectiveness is presented here:

Occupancy Time table for Library

ADITYA COLLEGE OF ENGINEERING

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LIBRARY OCCUPANCY CHART
ACADEMIC YEAR 2021-22

Days	1	2	3	4	5	6	7
	9:30 To 10:20	10:20 To 11:10	11:10 To 12:00	12:00 To 12:50	1:50 To 2:40	2:40 To 3:30	3:30 To 4:20
Monday				II EEE-B	III CSE-B	I ECE-D II CE III MECH	II ECE-C III ECE-D II MECH-B
Tuesday			I CSE-B I ECE-B III CSE-A	III ECE-A			II ECE-D III CE II MECH-A
Wednesday				III EEE-B II MECH	I MECH	IV CE	I CSE-AI&ML
Thursday			I ECE-C	I CSE-IOT I ECE-A	I EEE	III ECE-B	I CSE-A
Friday			I CE	III ECE-C	II CSE-B II EEE-A		II-ECE-B
Saturday							II CSE-A
Class	**Faculty**	**Class**	**Faculty**	**Class**	**Faculty**	**Class**	**Faculty**
I CE	B.Kiran Kumar	I ECE-A	Ch.Rama mohan	III ECE-A	K.Sangeeth kumar	II CSE-B	V.Veera Prasad
II CE	U.Praveenkumar	I ECE-B	B.Jyothi	III ECE-B	M.Vidya	III CSE-A	P.S.N.Lakshmi
III CE	Ch.Prabhteja	I ECE-C	O.Savitri	III ECE-C	Y.Sugandi naidu	III CSE	A.Krishna Veni
IV CE	N.Manasa	I ECE-D	M.S.S.Mohan kumar	III ECE-D	S.Dileep kumar	II MECH-A	R.Siva Prasad
I EEE	K.Durga Bhavani	II ECE-A	K.Sangeeth kumar	I CSE-A	N.V.V.D.Prasad	II MECH-B	K.Venkata Ramana
II EEE-A	CH.Srvanthi	II ECE-B	T.Phanimala	I CSE-B	A.Satheesh	IV MECH-A	M.S.Rviteja
II EEE-B	CH.Srvanthi	II ECE-C	P.Jhansi	I CSE-IOT	P.Raja sekhar Reddy	IV MECH-B	N.Prakash Kumar
III EEE-A	B.Veerraju	II-ECE-D	CH.Jhansi Devi	I CSE-AI&ML	G.Parvathi		
I MECH	D.Prasanth Kumar	III MECH-A	K.Venkata Ramana	II CSE-A	Y.Suresh kumar		

LIBRARIAN
Aditya College of Engineering
SURAMPALEM-533 437

Occupancy Time table for Computer Lab

ADITYA COLLEGE OF ENGINEERING

Approved by AICTE, Permanently Affiliated to JNTUK & Accredited by NAAC
Recognized by UGC under Sections 2(f) and 12(B) of UGC Act, 1956
Aditya Nagar, ADB Road, Surampalem - 533 437, E.G.Dist., Ph: 99631 76662.

Department of Computer Science & Engineering

COMMON COMPUTER CENTRE OCCUPANCY CHART (2021-2022)

	11:10-12:00	1:50-2:40	2:40-3:30	3:30-4:20
Monday	II CSE-B	I ME / IV ECE-A	II ECE-B / IV CSE-A	I ECE-B / IV EEE-A
Tuesday	II ECE-D / III CSE-A	I CE / IV ECE-D	III CSE-B / IV ME-B	III ECE-B / IV ME-A
Wednesday	II CSE-A / III CE	II ME / IV CE	I EEE / II CSE -AI&ML	I ECE-C / II CE
Thursday	I CSE-AI&ML / III ME	II EEE-A / IV ECE-C	III ECE-A / IV EEE-B	II CSE-IOT
Friday	I CSE-IOT / III ECE-C	I ECE-A / III EEE	I CSE-A / III ECE-D	II ME-B / IV CSE-B
Saturday	I ECE-D	II ECE-A	II ECE-C / II EEE-B	I CSE-B / IV ECE-B

Computer lab in charge

HOD-CSE

9.5. Career Guidance, Training, Placement **(10)**

(The institution may specify the facility, its management and its effectiveness for career guidance including counseling for higher studies, campus placement support, industry interaction for training/internship/placement, etc.)

Facility and its management

The Career guidance, Training and placement cell of the college is constituted with Chairman, coordinator, senior faculty members and students from various departments of the college to provide necessary guidance and information to the students in shaping the future career. A Meeting of the Career guidance, Training and placement Cell Members will be held in the beginning of the academic year to propose and plan for activities and events during the academic year which will be recorded in the minutes of meeting. The team keeps up to date with employment trends and options to ensure quality advice to students.

Training

Career guidance, Training and placement cell provides commendable services in areas of Campus Interviews, Job Placements and training programmes for the students that enable them to develop applicable skills in the competitive job market. A requisition letter will be sent by Principal to Speaker to conduct the awareness programmes on Career Guidance and Circulating an internal notice to all the students to participate in Career Guidance Awareness Programmes. Feedback forms also will be provided to the students for considering their opinions and suggestions.

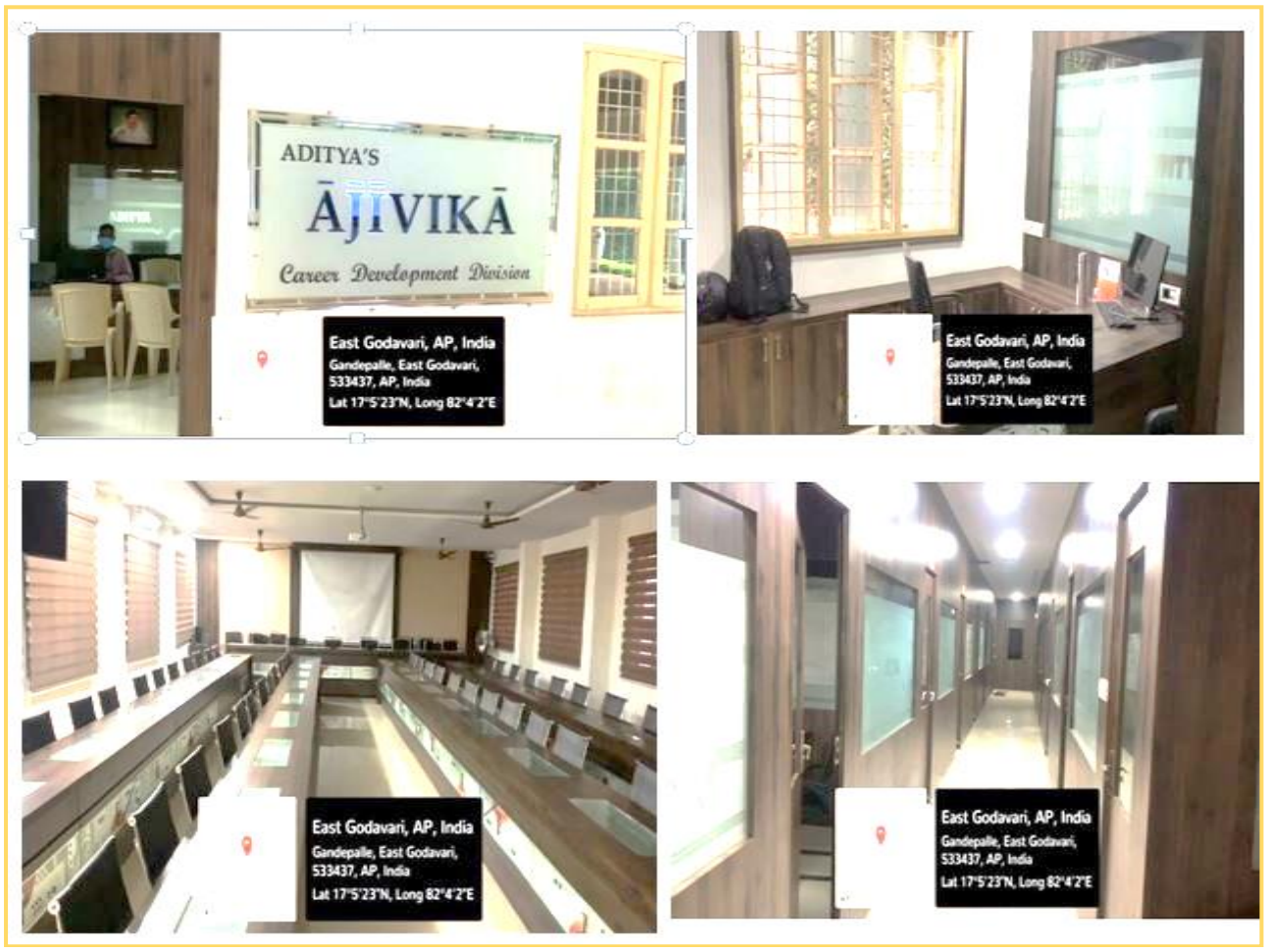
Career guidance

The Cell also organizes Workshops and Seminars on Personality Development, Interpersonal Relationship, Communication Skills, Interview Skills, and Presentation Skills to enable the all/round development of individuals. Eminent resource persons from various sectors and esteemed institutions are invited for providing training to the students. A survey will be conducted among students on their career options either in written form or oral. It organizes programmes to create awareness about the importance of higher studies and opportunities in India and Abroad. Motivates students to take entrance competitive exams such as GATE, CAT, GRE, and GMAT and counsel them for higher studies. It organizes Pre/Placement Training Programs to enable students to showcase their skills during the Interview.

Career guidance, Training and placement cell is formed to plan keeping in view of training needs of the entire student fraternity. It aims to provide adequate training and career opportunities to the students, thereby enabling them to be better professionals in the corporate world. The cell maintains corporate engagements through various platforms such as corporate interactions, summits and numerous other influences. Career guidance, the cell maintains continuous interactions with the

HRs of different multinational companies to understand job scenario in different sectors. The cell acts as an advisory to the training and Placement department suggesting necessary steps to be followed to increase the number of placements. The training programs schedule is planned by the cell to all the students from II year itself as a part of academics which is included in the regular class time tables. Industry interaction is provided to the students for internship which may support their career. Placement cell plans specific company training programs to all the eligible students and provides strategic plan to organize seminars and conduct mock placement drives to all the eligible students to create confidence in them while facing placement drives. The cell supervises and manages the whole placement process in collaboration. Feedback is collected from students and placement personnel (Technical & HR's) of different multinational companies. The committee tries to resolves it in Training and placements coordinators meet. The team of Career guidance and training & placement are given and the activities of Career Guidance, Training and Placement cell are presented.

PLACEMENT FACILITIES



Career development division, personal interview cabins, conference and group discussion hall

CAREER GUIDANCE, TRAINING & PLACEMENT CELL EVENTS AND ACTIVITIES/AY 2021/2022

S. No	Date	Conducted By	Description Of the Event	Venue	Resource Person	No. Of Students Enrolled
1	13/12/2021	Infosys, Hyderabad	Opportunities in Software field	Ramanujan Bhavan. Seminar Hall	B. Sunil Varma	436
2	28/01/2022	Unacademy, Hyderabad	GATE & ESE /Career opportunities for Engineering students	Webinar	B. V. Reddy	418
3	21/03/2022	Purplelane, Kakinada	Awareness on mastering in Visual & UI/UX Design	Ramanujan Bhavan Seminar Hall	Mr. Vara Vinod	230
4	29/03/2022	Made Easy Education Pvt.Ltd	Career Opportunities after Engineering	Ramanujan Bhavan Seminar Hall	Mr. Jitendra Tiwari	312
5	22/04/2022	Jamboree, Hyderabad	Career Avenues through EDUCATION ABROAD	Ramanujan Bhavan Seminar Hall	Smt. Aryama D. Saikia & Roopa Tanti	213

Events conducted under Training & placement committee

AY 2021/2022

S. No	Name of the Program	Date	Resource Person	No. of Students Attended
1	**ICT/Computing skills –**Training on Programming Languages	13/09/2021 to 18/09/2021	Technical Hub, Surampalem Mr. R Sudhir 9951722111	349
2	**Soft skills –** Three days training on Communication skills	25/10/2021 to 27/10/2021	Technical Hub, Surampalem Mr. K. Devan 9397934366	78
3	**Soft skills –** One week CRT training	08/11/2021 to 13/11/2021	Technical Hub, Surampalem Mr. K Bharath Kumar 9346445450	103
4	**ICT/Computing skills –**Training on Salesforce	06/12/2021 to 17/12/2021	Technical Hub, Surampalem Mr. Md. Shaifu Zama 772990360	349

COMPANIES VISITED/AY 2021/22

S. No	DATE	Name of the Company	SALARY PACKAGES
1	03/03/2021	HEXAWARE	3.50 To 5.00 LPA
2	26/05/2021	METRICSTREAM	5.50 LPA
3	15/09/2021	ADP	5.00 LPA
4	29/08/2021	IBM	7.25 LPA
5	20/05/2021	ACCOLITE	5.00 LPA
6	29/06/2021	ABYETI TECHNOLOGIES	5.00 LPA
7	22/07/2021	HEXAVIEW	5.00 To 7.00 LPA
8	05/06/2021	INFOSYS HACKWITHINFY	3.60 To 5.00 LPA
9	16/07/2021	DXC TECHNOLOGY	4.00 LPA
10	15/07/2021	TESSOLVE SEMICONDUCTORS	3.50 LPA
11	23/02/202	HARMAN	5.00 LPA
12	29/07/2021	MAQ SOFTWARE	7.00 LPA
13	04/09/2021	TECHIGAI	6.00 To 8.00 LPA
14	02/09/2021	KEKA TECHNOLOGIES	6.00 To 7.00 LPA
15	13/09/2021	MPHASIS	4.00 LPA
16	20/09/2021	APISERO	5.10 LPA
17	05/09/2021	SYMPHONY RETAILAI	4.00 LPA
18	23/08/2021	CAPGEMINI	4.00 To 7.50 LPA
19	08/10/2021	DIGITALTRUST	5.20 LPA
20	04/09/2021	VALUEMOMENTUM	4.00 LPA
21	30/08/2021	TCS NINJA/DIGITAL	3.36 LPA
22	22/12/2021	MAERSK	9.90 LPA
23	04/10/2021	THOUGHTCLAN TECHNOLOGIES	4.80 LPA
24	24/09/2021	AMAZON	31.31 LPA
25	25/09/2021	WIPRO	3.75 LPA
26	22/09/2021	CSG SYSTEM	7.50 LPA
27	04/10/2021	WIPRO INFOTECH	4.00 LPA
28	15/11/2021	ATOS GLOBAL	3.10 LPA
29	11/10/2021	VIRTUSA	6.5 LPA
30	27/10/2021	ZEMOSO TECHNOLOGIES	6.89 LPA

31	02/11/2021	QUEST GLOBAL	3.25 LPA
32	19/01/2022	CISCO	15.00 LPA
33	17/11/2021	LTI	5.00 LPA
34	27/11/2021	HYUDAI STEEL	2.07 LPA
35	29/11/2021	HYOSEONG ELECTRIC	1.86 LPA
36	08/11/2021	APPS ASSOCIATES	6.00 LPA
37	29/11/2021	SDVVL SURVEY AND CONSTRUCTION PRIVATE LIMITED	2.50 LPA
38	20/11/2021	ALTIMETRIK	7.00 LPA
39	26/10/2021	ZAGGLE	8.00 LPA
40	03/12/2021	INNVENIO BUSINESS SOLUTION	6.00 LPA
41	18/11/2021	DATAFOUNDRY AI	6.00 LPA
42	30/11/2021	COFORGE	4.25 LPA
43	13/12/2021	EPAM	6.00 LPA
44	30/11/2021	TRINAMIX	3.50 LPA
45	20/11/2021	FIS	6.64 LPA to 9.98 LPA
46	09/12/2021	ICICI BANK	3.50 LPA
47	01/11/2021	CALSOFT	7.50 LPA
48	17/11/2021	VINOVE SOFTWARES	5.75 LPA
49	01/12/2021	VAISHNAVI INFORMATION TECHNOLOGIES	4.00 LPA
50	29/11/2021	REVATURE	6.00 LPA
51	11/12/2021	COVALENSE DIGITAL	4.20 LPA
52	17/12/2021	MAGIK MINDS	3.00 LPA
53	19/12/2021	TOLLPLUS	4.50 LPA
54	14/12/2021	CAPGEMINI AWS	4.50 LPA
55	28/12/2021	AVANTIX TECHNOLOGIES	4.00 To 7.00 LPA
56	18/12/2021	HITACHI VANTARA	5.00 LPA
57	22/11/2021	WILEY/MTHREE	7 to 11 LPA
58	28/11/2021	VISTEX	4.50 LPA
59	13/10/2021	WINWIRE TECHNOLOGIES	4.50 LPA
60	02/12/2021	MEDIAMINT	3.10 LPA
61	23/03/2022	EFFTRONICS	5.50 LPA
62	17/01/2022	MORDOR INTELLIGENCE	4.62 LPA

63	21/12/2021	TA DIGITAL	5.70 LPA
64	07/12/2021	PROLIFICS	6.00 LPA
65	18/12/2021	RAMCO CEMENTS	3.84 to 6.24 LPA
66	03/02/2022	PINCLICK	5.16 LPA
67	31/01/2022	UNSCHOOL	5.00 LPA
68	04/01/2022	FUNNL	1.80 LPA
69	10/12/2021	REDHAT	10.00 LPA
70	22/12/2021	INCREFF	7.40 LPA
71	28/01/2022	XORIANT	8.00 LPA
72	09/12/2021	JK TECH	4.00 LPA
73	16/02/2022	BOSCH GLOBAL SOFTWARE	5.00 LPA
74	17/02/2022	PUZZOLONA MACHINERY	1.56 LPA
75	05/02/2022	ZF INDIA	4.75 to 6 LPA
76	21/12/2021	TECH MAHINDRA	3.25 LPA
77	23/02/2022	POWER MECH	2.16 LPA
78	22/09/2021	SIX PHRASE	4.50 LPA
79	04/03/2022	DELPHI / TVS	2.03 LPA
80	25/02/2022	APTEAN	5.50 LPA
81	18/02/2022	INFOLOB	3.00 LPA
82	11/10/2021	VIRTUSA	5.00 LPA
83	19/12/2021	INTELLECT DESIGN	5.00 LPA
84	17/12/2021	ZEROCODE	6.00 LPA
85	16/12/2021	ADROITEC SYSTEMS PVT LTD	3.00 LPA
86	19/12/2021	HCL	3.65 LPA
87	30/04/2022	KPIT	4.00 LPA
88	10/03/2022	MINDTREE	4.00 LPA
89	12/03/2022	MOOLYA TESTING PRIVATE LIMITED	3.00 LPA
90	15/03/2022	PERSISTENT SYSTEMS	4.71 LPA
91	06/01/2022	INFOSYS	3.60 LPA
92	24/02/2022	ICICI PRUDENTIAL	4.15 LPA
93	10/12/2021	VIVO	4.50 LPA
94	26/02/2022	MUTHOOT GROUP	2.28 LPA

95	18/02/2022	ZENSAR TECHNOLOGIES	4.00 LPA
96	16/02/2022	CADSYS	4.26 LPA
97	15/03/2022	MIRACLE SOFTWARE SYSTEMS	2.46 To 2.83 LPA
98	25/02/2022	LUMEN	6.00 LPA
99	05/06/2021	INFOSYS INFYTQ	3.60 LPA
100	30/12/2021	NIHILENT	4.00 LPA
101	23/12/2021	IBM KYNDRYL	4.25 LPA
102	29/12/2021	WABTECH	13.00 LPA
103	25/02/2022	TAVANT	7.00 LPA
104	08/04/2022	TURINGMINDS.AI	6.20 LPA
105	04/04/2022	ETHNUS	3.00 LPA
106	31/03/2022	QSPIDERS	1.50 LPA
107	11/04/2022	MIND BRINK MEDIA	3.00 to 4.00 LPA
108	29/01/2022	SUTHERLAND	2.50 LPA
109	09/04/2022	TEACHNOOK	3.00 LPA
110	19/04/2022	ZELF STUDIE	6.00 LPA
111	18/04/2022	SURYA TECH SOLUTIONS	3.00 LPA
112	29/04/2022	VISHWANADH AVENUES	1.80 LPA
113	05/04/2022	PLANETSPARK	7.00 LPA
114	27/04/2022	PRINCETON IT SERVICES	2.40 LPA
115	28/04/2022	PENTAGON SPACE	4.00 To 6.00 LPA
116	15/04/2022	WELLSFARGO	20.00 LPA
117	20/01/2022	SPERIDIAN TECHNOLOGIES	3.00 LPA
118	09/02/2022	CAPE ELECTRIC INDIA	3.00 LPA
119	03/03/2022	SKILLMINE TECHNOLOGIES	3.5 LPA / 4.00 LPA
120	18/05/2022	KIWO MODULAR	1.80 LPA
121	12/01/2022	BYJU'S	10.00 LPA
122	23/03/2022	MAHINDRA & MAHINDRA LTD	6.24LPA
123	05/04/2022	TAP ACADEMY	1.50 LPA
124	21/05/2022	TRIMAX BIOSCIENCES	2.16 LPA
125	12/05/2022	FIXITY TECHNOLOGIES	3.00 to 5.00 LPA
126	13/05/2022	IQUADRA	3.80 LPA

127	14/05/2022	SMART TRAINING RESOURCES	5.40 LPA
128	23/04/2022	PARK CONTROLS & COMMUNICATIONS	3.00 LPA to 6.00 LPA
129	24/04/2022	JUSTDIAL	3.24 LPA

CAREER COUNSELING AY 2021-22

S. No.	Date	Name of the Company	Description of Pre-placement talk
1	03-03-21	Hexaware	1. A company that was born in the digital culture and creates solutions based on a methodology that combines intense business analysis, UX design and technology 2. works on test automation and marketing
2	29-08-21	IBM	 1. Company that designs critical high-tech systems for strategic industry sectors worldwide. 2. We are recruitment for Trainee Software Associate 3. Requires excellent technical, communication and presentation skills who are available immediately to join. Coding- C,C++,JAVA and Python.
3	22-07-21	HEXAVIEW	 Hexaview Technologies is a digital transformation firm providing high-end products and solutions. 1) Culture is really nice. 2) Proper development and coding work. 3) Best company for freshers.

4	05-06-21	Infosys HackWithInfy	 1. If you have a passion for programming and you envision a future equipped with problem-solving skills and technology innovations, participate in HackWithInfy and build a future of your choice. 2. Your designations will be Associate Software Engineer 3. In coding we will be giving training as per the requirement.
5	16-07-21	DXC TECHNOLOGY	 1. DXC is a consulting company through which we provide recruitment to different multinational companies. 2. Joining in DXC is a kick start and the knowledge in c, C++, java, python is required.
6	15-07-21	Tessolve Semiconductors	1. It is a process automation and information firm founded by industry experts 2. Hiring as Trainee to plan, develop, design, construct
7	03-09-21	Harman	1. Harman is largest automotive transmission and power train components manufacturers in India. 2. Hiring for Graduate Trainee engineer and involves in production of components
8	29-07-21	MAQ	1. A multinational professional services network of firms. 2. By joining You can become an Analyst, economist, Technologist, Innovator.
9	04-09-21	Techigai	

10	23-08-21	CAPGEMINI	 1. Applies next-generation technology to help enterprises transform businesses globally. 2. We would be hiring for Associate Software engineer and required skill sets are Applications Development, Applications Testing, and Application Production Support etc. as per business requirement.
11	15-09-21	ADP	1. we're focused on making connections that allow us to deliver world class software. 2. A good start in career as Associate software Engineer.
12	04-09-21	Value Momentum	1. Applies next-generation technology to help enterprises transform businesses globally. 2. We would be hiring for Associate Software engineer and required skill sets are Applications Development, Applications Testing, Application Production Support etc. as per business requirement.
13	04-10-21	Thought Clan Technologies	
14	13-09-21	Mphasis	 Mphasis has been nimble and agile in integrating and building specialization to enable future proofing of the organization as well as its customers. Associate Software Engineer will be trained to Applications Development, Applications Testing, and Application Production Support etc. as per business requirement.
15	20-09-21	Apisero	
16	05-09-21	Symphony Retail AI	
17	08-10-21	Digital Trust	

18	24-09-21	AMAZON	 1. Company that designs critical high-tech systems for strategic industry sectors worldwide. 2. We are recruitment for Trainee Software Associate 3. Requires excellent technical, communication and presentation skills who are available immediately to join. Coding- C,C++,JAVA and Python.
19	30-08-21	TCS Ninja	 1. Company that designs critical high-tech systems for strategic industry sectors worldwide. 2. We are recruitment for Trainee Software Associate Requires excellent technical, communication and presentation skills that are available immediately to join. Coding- C, C++, JAVA and Python.
20	25-09-21	Wipro	1. Applies next-generation technology to help enterprises transform businesses globally. 2. We would be hiring for Associate Software engineer and required skill sets are Applications Development, Applications Testing, Application Production Support etc. as per business requirement.
21	02-11-21	Quest Global	
22	17-11-21	LTI	
23	27-11-21	Hyundai Steel	 1 .Hyundai Steel Co., Ltd. or HSC is a steel making company 2. For Graduate Trainee Engineer, requires knowledge in Blast furnaces, Hot coil, CR & plate mill

24	29-11-21	HYOSEONG ELECTRIC	 Prominent & Leading Manufacturer from Chennai, we offer Power Steering Pump, Power Steering Hose, Power Steering Bracket, Power Steering Fluid and Power Steering Gear Assembly.
25	29-11-21	SDVVL SURVEY AND CONSTRUCTION PRIVATE LIMITED	1. SDVVL (India) Limited operates as a knowledge process outsourcing company. 2. The Company offers Graduate Trainee Engineer and will be working on GIS and mapping, telecom and CATV, architecture, engineering
26	20-11-21	ALTIMETRIK	
27	03-12-21	Invention Business Solution	
28	15-11-21	Atos Global	1. A to s is the global leader in secure and decarbonizes digital with a range of market-leading digital solutions along with consultancy services. 2. Will train different types solutions on product based
29	30-11-21	Coforge	
30	30-11-21	Trinamix	
31	01-11-21	Calsoft	
32	17-11-21	Vinove software's	 1. A multinational professional services network of firms. 2. By joining you can become an Analyst, economist, Technologist, Innovator.
33	28-11-21	Vistex	

34	02-12-21	Media mint	1. It is a niche software solutions and service provider across horizontal markets. A key enabler in the digital transformation space. 2. involved as Associate Software Trainee who will be working on python, product based.
35	29-11-21	Revature	1. It is a process automation and information firm founded by industry experts 2. Hiring as Trainee to plan, develop, design, construct
36	01-12-21	Vaishnavi Information technologies	
37	20-11-21	FIS	The FIS University Program is the official global program for developing and retaining entry-level talent at FIS.
38	09-12-21	ICICI BANK	ICICI Bank Limited is an Indian banking and financial services company Will be employed as sales executive and responsible for
39	17-12-21 18-12-21	Magic minds	 1. It is a software company which works across ITOps, Cyber security, Networks, and Cloud 2. Joining in this gives a confidence start in career
40	19-12-21 20-12-21	Toll Plus	
41	28-12-21	Avantix Technologies	1.An IT professional services consulting company specializing in Sales force 2. We would be training in sales force , a product based and will be employee testing engineer
42	22-12-21	Maersk	
43	21-12-21	TA Digital	Tech Aspect Solutions Private Limited TA Digital is a digital transformation agency that delivers innovative digital strategy, customer

			experiences, and marketing solutions to transform business

CAREER GUIDANCE, TRAINING & PLACEMENT CELL EVENTS AND ACTIVITIES-AY 2020-2021

S.no	Date	Conducted by	Description of the event	Venue	Resource person	No. of students enrolled
1	16/11/2020	The Hope Overseas Educational Consultants Rajahmahendravarm	Awareness on Overseas Education	Ramanujan Bhavan. Seminar hall	Sri. K. Jaya Sankar	454
2	14/12/2020	Gate Forum Hyderabad	GATE orientation Programme	Ramanujan Bhavan, Seminar Hall	Sri. T. Naveen	428
3	20/01/2021	RK Study Center Rajahmahendravarm	Career in Banking Sector	Ramanujan Bhavan. Seminar hall	Sri J. Laxmi Prasanna	504
4	25/02/2021	Wipro Hyderabad	Opportunities in Software Field	Ramanujan Bhavan. Seminar hall	Sri. B. Vamsidhar	513

Events conducted under Training & placement committee

A.Y. 2020-2021

S. No	Name of the Program	Date	Resource Person	No. of Students Attended
1	**ICT/Computing skills –** Training on AUTOCAD	19-04-2021 to 26-04-2021	Ms. N. Ramya 9110753995 APSSDC	117
2	**ICT/Computing skills –** Python Programming	19-04-2021 to 26-04-2021	Mr. N. SuryaNarayana 8464032385 APSSDC	292
3	**ICT/Computing skills –** INFRA training	16-10-2021 to 30-10-2021	Mr. B. Veerababu 8309369882 Technical Hub, Surampalem	176
4	**ICT/Computing skills –** SDE Training	08-11-2021 to 30-11-2021	Mr. M Ashok 9346296194 Technical Hub, Surampalem	334

COMPANIES VISITED-AY 2020-21

S. No	DATE	Name of the Company	SALARY PACKAGES
1	23/06/2020	TEK SYSTEMS	7.00 LPA
2	23-11-2020	ZENQ	2.80 LPA
3	09/06/2020	ABYETI TECHNOLOGIES	6.25 LPA
4	05/06/2021	ACCENTURE	4.50 LPA
5	28/10/2021	ACUVATE	3.00 LPA
6	29/06/2021	ADAEQUARE	2.80 LPA
7	07/07/2021	APARNA CONSTRUCTIONS	2.40 LPA
8	26/03/2021	APISERO	7.00 LPA
9	02-07-2021	APPS ASSOCIATE	4.00 LPA
10	27-04-2021	ATOS GLOBAL	3.10 LPA
11	25/01/2021	AVTEC	1.56 LPA
12	27/10/2020	AWS	22.00 LPA
13	05-02-2021	AZTEC	2.50 LPA
14	28-06-2021	BCT	3.00 LPA
15	02-07-2021	BRIGHTEX PHOTONICS (BTBP)	3.00 LPA
16	13-04-2021	BYJUS	10.00 LPA
17	04-08-2021	CADSYS	1.50 LPA
18	07-10-2021	CAPGEMINI	3.80 LPA
19	26/03/2021	CARGILL	3.75 LPA
20	03-06-2020	CDK GLOBAL	4.50 LPA
21	24-04-2021	CODILAR TECHNOLOGIES	2.52 LPA
22	23-11-2020	COGNIZANT	4.00 LPA
23	26/11/2021	COPART	6.00 LPA
24	28-11-2020	COVALENSE DIGITAL	3.00 To 4.00 LPA
25	26/01/2021	CTRLS	3.75 to 4 LPA
26	05-04-2021	DAEJOO AUTOMOTIVE	1.56 LPA
27	06/04/2021	DAENIT	5.40 LPA
28	22/05/2021	DARWINBOX DIGITAL SOLUTIONS	3.60 LPA
29	27/11/2020	DELTAX	5.00 LPA
30	02-08-2020	DXC TECHNOLOGY	3.60 LPA

31	07-09-2020	DXC TECHNOLOGY (OFF CAMPUS)	3.60 LPA
32	04/12/2020	FACE PREP	3.50 LPA
33	07-07-2021	FIS UNIVERSITY PROGRAM	5.00 LPA
34	16/11/2020	FULL CREATIVE	3.50 LPA
35	18/11/2020	GAINSIGHT	8.00 lpA
36	23/01/2021	GIBBUZ	2.50 LPA
37	28-01-2021	GLOBAL EDGE	3.50 LPA
38	29/01/2021	GOCOOP	3.00 LPA
39	03/02/2021	GSPANN	2.40 LPA
40	09/02/2021	HARMAN	5.00 LPA
41	20/11/2020	HEXAWARE	3.35 LPA
42	05-04-2021	HITECH ARAI	1.56 LPA
43	09-01-2021	HUNDAI STEEL	1.62 LPA
44	17-02-2021	HYOSEONG ELECTRIC	1.68 LPA
45	23/02/2021	HYUNDAI MOTOR	3.60 LPA
46	30/04/2020	IBM	7.25 LPA
47	18-03-2021	INFOSYS	3.50 LPA
48	31-05-2020	INFOSYS HACKWITH INFY	5.00 LPA to 8.00 LPA
49	30-05-2020	INFOSYS INFYTQ	3.60 LPA
50	16-07-2021	INNOMINDS	2.40 LPA
51	21-08-2021	IVY SOFTWARES	8.00 LPA
52	20/10/2020	JARO EDUCATION	6.00 LPA
53	22/10/2020	JUSPAY	6.00 LPA
54	6-3-2020 7-3-2020	KEKA	5.00 LPA
55	10/09/2020	KJ SYSTEMS	3.00 LPA
56	06/01/2021	KORED INFRATECH	1.80 LPA
57	12/05/2021	LEKHA WIRELESS	4.00 LPA
58	18/02/2021	M/S KWANGJIN INDIA	1.68 LPA
59	10/11/2020	MAQ SOFTWARE	6.00 LPA to 7.00 LPA
60	23-11-2020	MINDTREE	2.97 LPA
61	27/11/2020	MINFY	3.50 LPA
62	10/02/2021	MINFYTECH TECHOLOGIES	3.79 LPA

63	08/04/2021	MPHASIS	4.00 LPA
64	24-11-2020	MULTIPLIER SOLUTIONS	2.80 To 5.50 LPA
65	06/07/2021	NETENRICH	3.50 LPA
66	13/03/2021	NNIIT	3.00 To 5.00 LPA
67	20/03/2021	NOVEL PATENT SERVICES	2.00 LPA
68	19/12/2020	NTT DATA	3.50 LPA
69	02-07-2021	PENTAGON SPACE	1.50 LPA
70	16/02/2021	PHABLECARE	3.60 LPA
71	05-12-2020	PIN CLICK	5.16 LPA
72	13-01-2021	PROLIFICS	3.00 LPA
73	17-04-2021	PWC	6.00 LPA
74	12-02-2021	QSPIDERS	1.50 LPA
75	13/02/2021	QUADRATYX	4.50 LPA to 6.00 LPA
76	30/09/2021	ROBERT BOSCH	5.00 LPA
77	20-03-2021	RONCH POLYMERS	1.50 LPA
78	23/03/2021	SOFTTECH	3.50 LPA
79	24/03/2021	STERLING TOOLS	2.40 LPA
80	26/04/2021	SUNRISE BIZTECH	3.00 LPA
81	03-02-2021	SURYA TECH SOLUTIONS	1.80 To 3.12 LPA
82	25/04/2021	SYMPHONY RETAILAI	4.00 to 5.00 LPA
83	08/04/2021	TCS AWS	3.36 LPA
84	08-08-2020	TCS CODEVITA	3.39 LPA
85	08-06-2021	TCS INFRAMIND	3.36 LPA
86	20-11-2020	TCS NQT	3.36 LPA
87	21-01-2021	TECH MAHINDRA	3.25 LPA
88	23/01/2021	TECH TAMMINA	3.60 LPA
89	28/01/2021	TECTORO CONSULTING	3.50 LPA
90	12/11/2020	TESSOLVE	3.50 LPA
91	25-06-2021	TRANSRAIL	4.00 LPA
92	19/05/2021	TURITO INDIA PRIVATE LIMITED	4.00 LPA
93	15-05-2021	UNSCHOOL	5.00 LPA
94	20-11-2021	VALUE MOMENTUM	3.60 LPA

95	17/02/2021	VEMBU TECHNOLOGIES	3.00 to 4.00 LPA
96	18/11/2020	VIRTUSA	4.00 LPA
97	13-01-2021	VIT INFOTECH	4.00 LPA
98	13-03-2021	VPG SENSORS	1.44 LPA
99	21/03/2021	WHIZHACK TECHNOLOGIES	4.32 LPA
100	21/04/2021	WILEY-MTHREE	11.00 LPA
101	03-03-2021	WIPRO	3.50 LPA
102	28-12-2020	XENON STACK	4.50 LPA
103	29/12/2020	GENESIS	3.50 LPA
104	07/01/2021	YASH	4.00 LPA
105	08/01/2021	ALTIMETRIK	4.25 LPA
106	11/02/2021	TATA ELXSI	3.5 LPA
107	10/03/2021	IB HUBS	3.00 LPA
108	18/03/2021	MTX	6.5 LPA
109	09/01/2021	PURPLETALK	3.50 LPA
110	06/03/2021	TEMINOS	6.25 LPA
111	17/03/2021	BRISTLECONE	3.50 LPA

CAREER COUNSELING - AY 2020-21

S. No.	Date	Name of the Company	Description of Pre-placement talk
1	03-06-2020	CDK Global	 CDK is a company that designs critical high-tech systems for strategic industry sectors worldwide. Its solutions combine electronics and information technology, delivering rapid innovation to its customers. The highly skilled teams enable fast deployment and long-term maintenance of its solutions. 1. We are recruitment for Trainee Software Associate 2. Requires excellent technical, communication and presentation skills who are available immediately to join. Coding- C,C++,JAVA and Python and Machine Learning is necessary

2	31-05-2020	Infosys HACKWITH INFY	 1. If you have a passion for programming and you envision a future equipped with problem-solving skills and technology innovations, participate in HackWithInfy and build a future of your choice. 2. Your designations will be Associate Software Engineer 3. In coding we will be giving training as per the requirement.
3	02-08-2020	DXC	 1. DXC is a consulting company through which we provide recruitment to different multinational companies. 2. Joining in DXC is a kick start and the knowledge in c, C++, java, python is required.
4	07-10-2020	CAPGEMINI	 1. Applies next-generation technology to help enterprises transform businesses globally. 2. We would be hiring for Associate Software engineer and required skill sets are Applications Development, Applications Testing, and Application Production Support etc. as per business requirement.

5	08-08-2020	TCS CodeVita	 1. Company that designs critical high-tech systems for strategic industry sectors worldwide. 2. We are recruitment for Trainee Software Associate Requires excellent technical, communication and presentation skills that are available immediately to join. Coding- C, C++, JAVA and Python.
6	30-05-2020	INFOSYS INFYTQ	 1. If you have a passion for programming and you envision a future equipped with problem-solving skills and technology innovations, participate in HackWithInfy and build a future of your choice. 2. Your designations will be Associate Software Engineer 3. In coding we will be giving training as per the requirement
7	23-11-2020	MINDTREE	 1. A global technology consulting and services company that enables enterprises across industries. 2. We are recruitment for Trainee Software Associate 3. Requires excellent technical, communication and presentation skills that are available immediately to join. Coding- C, C++, JAVA and Python
8	05-12-2020	Pin Click	 1. Pin Click Property Management is a real estate agency in India 2. Hired will be as property advisory who gives solutions.

9	23-11-2020	ZenQ	 1. It is a leading provider of pure-play software testing services to clients across the globe 2. Hiring for Software Developer, Associate Business Development, and Test Engineer. 3. Good knowledge in python, C++ is required
10	28-11-2020	Covalense Digital	 1. Covalence digital is a niche software solutions and service provider across horizontal markets. A key enabler in the digital transformation space. 2. Hiring as Software trainee engineer 3. Coding- C, C++, JAVA and Python is necessary
11	20-11-2020	TCS NQT	 1. Company that designs critical high-tech systems for strategic industry sectors worldwide. 2. We are recruitment for Trainee Software Associate Requires excellent technical, communication and presentation skills that are available immediately to join. Coding C, C++, JAVA and Python.
12	28-12-2020	Xenon Stack	
13	09-01-2021	HUNDAI STEEL	 1 .Hyundai Steel Co., Ltd, or HSC is a steel making company 2. For Graduate Trainee Engineer, requires knowledge in Blast furnaces, Hot coil, CR & plate mill

14	13-01-2021	VIT INFOTECH	1. Applies next-generation technology to help enterprises transform businesses globally. 2. We would be hiring for Associate Software engineer and required skill sets are Applications Development, Applications Testing, Application Production Support etc. as per business requirement.
15	21-01-2021	Tech Mahindra	1. Company that designs critical high-tech systems for strategic industry sectors worldwide. 2. We are recruitment for Trainee Software Associate Requires excellent technical, communication and presentation skills who are available immediately to join. Coding- C, C++, JAVA and Python.
16	25-01-2021 27-01-2021	AVTEC	1. Avtec is largest automotive transmission and power train components manufacturers in India. 2. Hiring for Graduate Trainee engineer and involves in production of components
17	05-02-2021	AZTEC	1. It is a process automation and information firm founded by industry experts 2. Hiring as Trainee to plan, develop, design, construct
18	03-02-2021	SURYA TECH SOLUTIONS	1. It is a niche software solutions and service provider across horizontal markets. A key enabler in the digital transformation space. 2. involved as Associate Software Trainee who will be working on python, product based.
19	17-02-2021	Hyoseong Electric	 Prominent & Leading Manufacturer from Chennai, we offer Power Steering Pump, Power Steering Hose, Power Steering Bracket, Power Steering Fluid and Power Steering Gear Assembly.
20	13-01-2021	PROLIFICS	1. A company that was born in the digital culture and creates solutions based on a methodology that combines intense business analysis, UX design and technology 2. works on test automation and marketing
21	12-02-2021	Qspiders	
22	13-03-2021	VPG SENSORS	
23	28-01-2021	Global Edge	1. we're focused on making connections that allow us to deliver world class software. 2. A good start in career as Associate software Engineer.

24	26-01-2021	CtrlS	 1. CtrlS sells services like data center collocation, DC build and consulting, Internet bandwidth, managed services, cloud security services, and disaster recovery services. 2. Cloud computing, Cloud storage Knowledge of Uptime and TIA standards for data centers design
25	20-03-2021	RONCH POLYMERS	1. Ronch Polymers Pvt. Ltd. (RPPL) is an OEM of thermoplastic moulds, moulded components and its assembly, specializing in manufacturing of water purifiers
26	23-11-2020	Cognizant	1. Company that designs critical high-tech systems for strategic industry sectors worldwide. 2. We are recruitment for Trainee Software Associate Requires excellent technical, communication and presentation skills who are available immediately to join. Coding- C, C++, JAVA and Python.
27	24-11-2020	Multiplier Solutions	1. AI based Healthcare Analytics and Marketing Company. 2. Opportunity to work alongside AI based tech for developers
28	05-04-2021	Daejoo AutoMotive	1. DAEJOO AUTOMOTIVE INDIA PRIVATE LIMITED is a machinery company 2. Involves in production of many components
29	05-04-2021	HITECH ARAI	Hitech Arai Pvt Ltd - Manufacturer of rubber oil seal, shaft oil seal & stainless steel and will be involved in production department as a trainee
30	17-04-2021	PWC	1. A multinational professional services network of firms. 2. By joining You can become an Analyst, economist, Technologist, Innovator.
31	15-05-2021	Unschool	1. Unschool is a melting pot of counter solutions to all the problems that exist in the education system. 2. will be enrolled as student specialist.
32	18-03-2021	Infosys	 1. Company that designs critical high-tech systems for strategic industry sectors worldwide. 2. We are recruitment for Trainee Software Associate 3. Requires excellent technical, communication and presentation skills that are available immediately to join. Coding C, C++, JAVA and Python.

33	05-06-2021	Accenture	1. A multinational professional services network of firms. 2. By joining You can become an Analyst, economist, Technologist, Innovator.
34	06-07-2021	Netenrich PYTHON	1. It is a software company which works across ITOps, Cyber security, Networks, and Cloud 2. Joining in this gives a confidence start in career
35	20-11-2021	Value Momentum	1.ValueMomentum is the largest standalone provider of IT Services & Solutions to Insurers & Financial Services 2. Multinational professional services network of firms. 3. By joining You can become an Analyst, economist, Technologist, Innovator.
36	28-06-2021	BCT	1. Providing Technology Support for Businesses and Organizations. 2. It is a consultancy where it provides many product-based services.
37	13-04-2021	BYJUS	1. BYJU'S is an Indian multinational educational technology company 2. Can become professional in business development, trainings.
38	03-03-2021	Wipro	1. Company that designs critical high-tech systems for strategic industry sectors worldwide. 2. We are recruitment for Trainee Software Associate Requires excellent technical, communication and presentation skills who are available immediately to join. Coding- C, C++, JAVA and Python.
39	29-06-2021	Adaequare	
40	08-06-2021	TCS InfraMind	1. Company that designs critical high-tech systems for strategic industry sectors worldwide. 2. We are recruitment for Trainee Software Associate Requires excellent technical, communication and presentation skills who are available immediately to join. Coding- C, C++, JAVA and Python.
41	25-06-2021	Transrail	Transrail Lighting Limited is an integrated Transmission & Distribution and lighting solution company.
42	02-07-2021	Brightex Photonics (BTBP)	
43	02-07-2021	Apps Associate	1.An IT professional services consulting company specializing in Sales force 2. We would be training in sales force , a product based and will be employee testing engineer
44	02-07-2021	Pentagon Space	1. Pentagon Space is software programming institute in Bangalore 2. We give training in different languages and also provides support till getting job
45	24-04-2021	Codilar Technologies	1. Codilar is an Adobe certified digital commerce agency that specializes in end-to-end Magento services
46	04-08-2021	Cadsys	1. Cadsys (India) Limited operates as a knowledge process outsourcing company.

			2. The Company offers Graduate Trainee Engineer and will be working on GIS and mapping, telecom and CATV, architecture, engineering
47	16-07-2021	Innominds	 1. A multinational professional services network of firms. 2. By joining you can become an Analyst, economist, Technologist, Innovator.
48	02-08-2021	DXC Technologies (Off campus)	1. DXC is an consulting company through which we provide recruitment to different multinational companies. 2. Joining in DXC is a kick start and the knowledge in c, C++, java, python is required.
49	07-07-2021	FIS University Program	The FIS University Program is the official global program for developing and retaining entry-level talent at FIS.
50	27-04-2021	ATOS Global	1. A to s is the global leader in secure and decarbonizes digital with a range of market-leading digital solutions along with consultancy services. 2. Will train different types solutions on product based
51	21-08-2021	IVY Software	
52	30-09-2021	Robert Bosch	1. Robert Bosch India Limited, Bangalore is an electrical/electronic manufacturing company based 2. A Graduate trainee engineer will be involved in design and production of electrical components.

TRAINING, CAREER GUIDANCE & PLACEMENT CELL EVENTS AND ACTIVITIES
AY 2019-20

S. No.	Date	Conducted By	Description Of the Event	Venue	Resource Person	No. Of Students Enrolled
1	17/07/2019	The Gate Academy, Visakhapatnam	Importance of Gate Exam	Ramanujan Bhavan. Seminar hall	Sri K. Harikesh	410
2	19/08/2019	Skylark overseas Education Consultants, Visakhapatnam	Awareness on Overseas Education	Ramanujan Bhavan. Seminar hall	Sri. Dr. Solomon Raju Kuchipudi	397
3	16/09/2019	Sridhar's CCE, Vijayawada	Awareness on Career in Banking Sector	Ramanujan Bhavan. Seminar hall	Sri K. Venkat Rao	361
4	26/12/2019	Time Institute Rajahmahendravarm	Awareness on Civil Services Exams	Ramanujan Bhavan. Seminar hall	Sri K. Sai Venkat	437

5	29/1/2020	Genpact India Private Limited Hyderabad	Opportunities in Software Industry	Ramanujan Bhavan. Seminar hall	Sri M. Srikanth Vihari	414

Events conducted under Training & placement committee

A.Y. 2019-2020

S. No	Name of the Program	Date	Resource Person	No. of Students Attended
1	**ICT/Computing skills –** Training on APTLOGIC	08/07/2019 to 13/07/2019	Technical Hub, Surampalem Mr. K Bharath Kumar 9346445450	135
2	**ICT/Computing skills –** Python Programming	14/10/2019 to 19/10/2019	Technical Hub, Surampalem Mr. R Sudhir 9951722111	187
3	**ICT/Computing skills –** AWS cloud computing Training	06/01/2020 to 11/01/2020	Technical Hub, Surampalem Mr. Md. Shaifu Zama 772990360	290
4	**ICT/Computing skills –** Short term training program on coding skills	10/02/2020 to 15/02/2020	Technical Hub, Surampalem Mr. R Sudhir 9951722111	262

COMPANIES VISITED/AY 2019-20

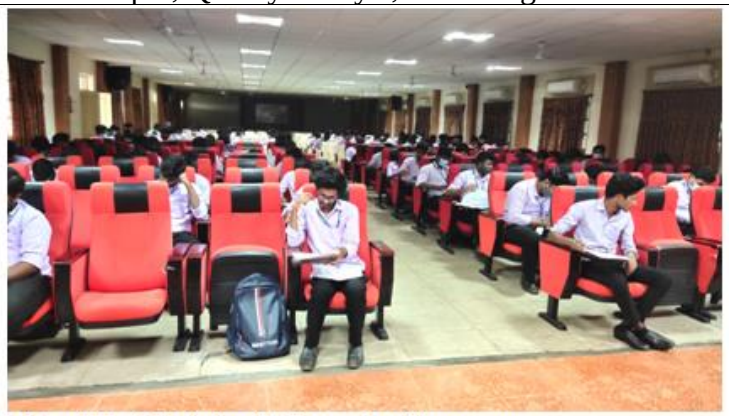
S.No	DATE	Name of the Company	SALARY PACKAGES
1	18/03/2019	KEKA TECHNOLOGIES	6.00 LPA
2	20/03/2019	THOMSON REUTERS	2.00 LPA
3	06/07/2019 07/07/2019	DIVAMI	3.20LPA
4	08/07/2019	HYUNDAI STEEL	1.80 LPA
5	09/07/2019	LEEWON PRECISION PVT. LTD	1.80 LPA
6	09/07/2019	HYOSEONG ELECTRIC	1.80 LPA
7	11/07/2019	VALUELABS	4.5 LPA
8	29/07/2019 30/07/2019	RIKTAM TECHNOLOGY	4.20 LPA
9	16/08/2019	LTI	3.50 LPA
10	14/08/2019	MAQ	4.32 LPA
11	26/08/2019	GGK TECH	2.40 LPA

12	30/08/2019	NIFCO	1.80 LPA
13	30/08/2019	DAEJOO AUTOMOTIVE INDIA	1.80 LPA
14	30/08/2019	KWANGJIN	1.80 LPA
15	07/09/2019	HI/TECH ARAI LIMITED	1.80 LPA
16	08/08/2019	TCS NQT	3.36 LPA
17	12/09/2019	ZENQ	2.80 LPA
18	28/09/2019	CONGNIZANT(CTS)	4.00LPA
19	12/10/2019	HEXAWARE TECHNOLOGIES	3.00 LPA
20	03/10/2019	AMAZON AWS	19.00 LPA
21	18/09/2019	SURYA TECH SOLUTIONS	2.16 LPA
22	09/11/2019	ROBO GROUP	1.80 LPA
23	13/11/2019	T/SYSTEMS	3.50 LPA
24	14/11/2019	EXTRAMARKS	4.2 LPA
25	15/11/2019	VAISHNAVI INFORMATION TECHNOLOGIES	4.00 LPA
26	20/11/2019	FULL CREATIVE TECHNOLOGIES	2.75 LPA
27	26/11/2019	INFOSYS	3.50 LPA
28	29/11/2019	APTROID	4.00 LPA
29	28/11/2019	ABYETI TECHNOLOGIES	4.00 LPA
30	09/12/2019	MINDTREE	3.54 LPA
31	18/10/2019	WIPRO	3.50 LPA
32	13/12/2019	WOOSU AUTOMOTIVE	1.44 LPA
33	04/12/2019 To 06/12/2019	IBM	4.25 LPA
34	14/12/2019	KWANG SUNG	1.44 LPA
35	20/12/2019	WEB SYNERGIES	3.2 LPA
36	21/12/2019	MAGIK MINDS	3.00 LPA
37	22/12/2019	RAYBIZ TECHNOLOGIES	2.40 LPA
38	16/11/2019	EFFTRONICS	3.5 LPA
39	26/12/2019	SAVANTIS SOLUTIONS	3.50 LPA
40	27/12/2019	KRIFY SOFTWARE	2.40 LPA
41	09/01/2020	YSI AUTOMOTIVE	1.60 LPA
42	07/12/2019	TAVANT TECHNOLOGIES	4.25 LPA

43	10/01/2020	TECH MAHINDRA	3.25 LPA
44	22/01/2020	ALLIENS GROUP	1.99 LPA
45	20/01/2020	TESSOLVE	3.60 LPA
46	20/01/2020	TETRASOFT	3.25 LPA
47	29/01/2020 & 30/01/2020	TALENTIO	3.25 LPA
48	29/01/2020	GLOBAL AUTO COMPONENTS	1.74 LPA
49	30/01/2020	SINTEX BAPL	1.62 LPA
50	31/01/2020	UNITED INDUSTRIES	1.66 LPA
51	05/02/2020	MULTIPLIER AI SOLUTIONS	4.10 LPA
52	10/02/2020	L&T NXT	6.40 LPA
53	14/02/2020	BRIGHTEX BIO PHOTONICS	3.00 LPA
54	04/02/2020	RYTHMOS INDIA	3.00 LPA
55	18/01/202	COVALENSE DIGITAL SOLUTIONS	3.00 LPA
56	06/01/2020	WINWIRE TECHNOLOGIES	4.00 LPA
57	20/02/2020 21/02/2020	GENPACT	2.40 LPA
58	19/02/2020	MILEKAL	2.4 LPA
59	03/03/2020	QSPIDER/JSPIDER	2.40 LPA
60	29/02/2020	SYSTEMATIX INFOTECH	2.40 LPA
61	14/03/2020	DXC TECHNOLOGY	3.40 LPA
62	12/03/2020	MEDICO HEALTH CARE	2.04 LPA
63	07/02/2020	THASMAI AUTOMATION	2.60 LPA
64	13/02/2020	EIDIKO	3.00 LPA
65	29/02/2020	THOUGHTCLAN TECHNOLOGIES	4.50 LPA
66	21/06/2020	IVY COMPTECH	5.50 LPA
67	21/07/2020	BYJU'S	10.00 LPA
68	29/09/2020	VAYU GROUP	1.80 LPA
69	17/09/2020	RAMKY INFRASTRUCTURES	1.80 LPA
70	03/11/2020	NIIT STACKROUTE	5.00LPA
71	28/09/2020	SL LUMAX	1.47 LPA
72	06/01/2020	KORED INFRATECH	1.80 LPA
73	17/10/2020	HCL TECHNOLOGIES LTD	2.60 LPA

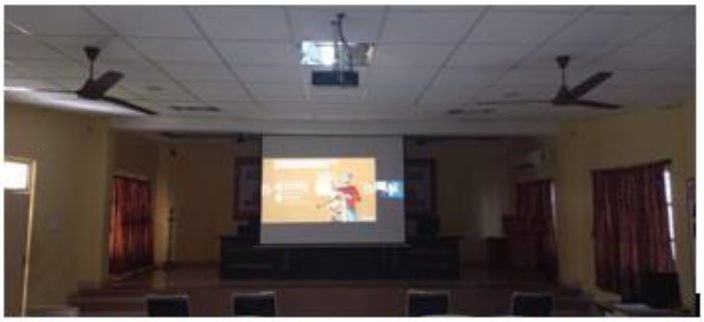
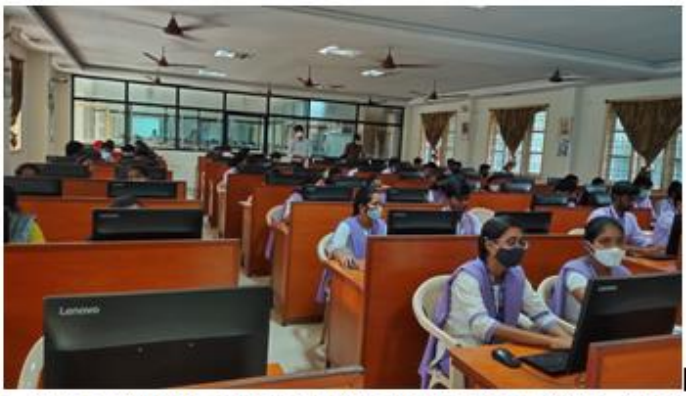
74	10/10/2020	ENVISION FINANCIAL SYSTEM	3.60 LPA
75	11/02/2020	APARNA CONSTRUCTIONS	2.16 LPA
76	18/02/2020	CAPGEMINI	3.50 LPA
77	12/02/2020	SPANDANA SPOORTHY	2.40 LPA
78	19/11/2019	BNP PARIBAS	4.00 LPA
79	06/02/2020	MEC SOLUTIONS	2.16 LPA
80	14/02/2020	RAISING STAR	1.44 LPA
81	13/03/2020	VPG SENSORES	1.44 LPA

CAREER COUNSELING/AY 2019-20

S. No	Date	Name of the Company	Description of Pre/placement talk
1	18/03/19	Keka Technologies	1. Keka is one of the fastest growing SaS (B2B) products in India and has quickly grown to a leader position in its segment in shortest time. We are on a mission to provide best employee experience for companies across the globe 2. If you are a Tech/Savvy, Passionate about Software Development, If you want to build world class products for millions of users using cutting edge technologies. If you have strong Logical, Analytical & Problem/solving skill If you're someone who can code with extreme attention to details, given the complex business problems / challenges, we will be offering you as Full Stack Developer, Front End Developer, Quality Analyst, UX Designer
2	08/07/19	HYUNDAI STEEL	 1 .Hyundai Steel Co., Ltd. or HSC is a steel making company 2. For Graduate Trainee Engineer, requires knowledge in Blast furnaces, Hot coil, CR & plate mill

3	09/07/19	HYOSEONG ELECTRIC	 Prominent & Leading Manufacturer from Chennai, we offer Power Steering Pump, Power Steering Hose, Power Steering Bracket, Power Steering Fluid and Power Steering Gear Assembly.
4	16/08/19	LTI	1. A multinational professional services network of firms. 2. By joining You can become an Analyst, economist, Technologist, Innovator.
5	14/08/19	MAQ	1. A multinational professional services network of firms. 2. By joining You can become an Analyst, economist, Technologist, Innovator.
6	26/8/19	GGK TECH	 1. CDK is a company that designs critical high-tech systems for strategic industry sectors worldwide. Its solutions combine electronics and information technology, delivering rapid innovation to its customers. The highly skilled teams enable fast deployment and long-term maintenance of its solutions. 2. We are recruitment for Trainee Software Associate Requires excellent technical, communication and presentation skills that are available immediately to join. Coding- C, C++, JAVA and Python and Machine Learning is necessary.
7	30/08/19	NIFCO	Plastic fabrication company, After Successful complitation of training, you will design, develop and manufacture quality components for the global automotive industry
8	30/08/19	DAEJOO AUTOMOTIVE INDIA	1. DAEJOO AUTOMOTIVE INDIA PRIVATE LIMITED is a machinery company 2. Involves in production of many components
9	30/08/19	KwangJin	1.Kwang Jin Corporation (KJC) manufactures quality rotary joint and swivel joint that are used in various steel industry fields 2. Involves in production department as an quality analyst.

10	07/09/19	Hi/Tech Arai Limited	Hitech Arai Pvt Ltd / Manufacturer of rubber oil seal, shaft oil seal & stainless steel
11	08/08/19	TCS NQT	To achieve the goal of being a valued employee of the organization that they aspire to be part of.
12	12/09/19	ZENQ	 1. ZenQ is a leading provider of information technology services to clients across the globe. We offer a comprehensive range of value-added outsourcing solutions that are of the highest quality and efficiency, to help our customers build quality products 2. Should have a knowledge in testing tools as a test engineer
13	12/10/19	Hexaware Technologies	1.IT service management company
14	03/10/19	Amazon AWS	1. If you have a passion for programming and you envision a future equipped with problem/solving skills and technology innovations, participate in HackWithInfy and build a future of your choice. 2. Your designations will be Associate Software Engineer 3. In coding we will be giving training as per the requirement
15	18/09/19	Surya Tech Solutions	1. It is a software company which works across ITOps, Cyber security, Networks, and Cloud 2. Joining in this gives a confidence start in career
16	09/11/19	ROBO GROUP	1. It is a construction Company and a graduate trainee position will be offered and will be responsible for the total project until completion
17	13/11/19	T/SYSTEMS	
18	14/11/19	EXTRAMARKS	1. BYJU'S is an Indian multinational educational technology company 2. Can become professional in business development, trainings.
19	15/11/19	VAISHNAVI INFORMATION TECHNOLOGIES	

20	26/11/19	INFOSYS	 1. If you have a passion for programming and you envision a future equipped with problem-solving skills and technology innovations, participate in HackWithInfy and build a future of your choice. 2. Your designations will be Associate Software Engineer 3. In coding we will be giving training as per the requirement
21	18/10/19	WIPRO	1. If you have a passion for programming and you envision a future equipped with problem/solving skills and technology innovations, participate in HackWithInfy and build a future of your choice. 2. Your designations will be Associate Software Engineer 3. In coding we will be giving training as per the requirement
22	13/12/19	WOOSU AUTOMOTIVE	1. WOOSU AUTOMOTIVE INDIA PRIVATE LIMITED is a machinery company 2. Involves in production of many components
23	14/12/19	KWANGSUNG	Prominent & Leading Manufacturer from Chennai, we offer Power Steering Pump, Power Steering Hose, Power Steering Bracket, Power Steering Fluid and Power Steering Gear Assembly.
24	20/12/19	WEB SYNERGIES	
25	21/12/19	MAGIK MINDS	 1. It is a software company which works across ITOps, Cyber security, Networks, and Cloud 2. Joining in this gives a confidence start in career
26	22/12/19	RAYBIZ TECHNOLOGIES	It is completely a software company and working on projects on different languages which helps you to be employed as a software engineer
27	26/12/19	SAVANTIS SOLUTIONS	It is completely a software company and working on projects on different languages which helps you to be employed as a software engineer

28	09/01/20	YSI AUTOMOTIVE	1. WOOSU AUTOMOTIVE INDIA PRIVATE LIMITED is a machinery company 2. Involves in production of many components.
29	07/12/19	TAVANT TECHNOLOGIES	1. It is completely a software company and working on projects on different languages which helps you to be employed as a software engineer.
30	10/01/20	Tech Mahindra	1. A multinational professional services network of firms. 2. By joining You can become an Analyst, economist, Technologist, Innovator.
31	20/1/20	TESSOLVE	
32	20/01/20	TETRASOFT	
33	29/01/20	GLOBAL AUTO COMPONENTS	 1. It is a global production company and will be employed as trainee in production department of various automobile components.
34	30/01/20	SINTEX BAPL	Sintex/BAPL Limited manufactures auto parts. As a trainee, company involves you in production and manufacture of moulded plastic components such as rear bumper, overhead, side wall
35	31/01/20	United Industries	
36	19/02/20	MILEKAL	It is a steelwork design company and the hired one will undergo different software trainings related to steel detailing and desisgns
37	03/03/20	QSPIDER/JSPIDER	QSpiders is No.1 software testing training institute in India with a view to bridge the gap between industry requirement and curriculum of educational. Here you will be trained to make a road map how to make better connections between industry and educational industries.
38	14/03/20	DXC TECHNOLOGY	1. DXC is a consulting company through which we provide recruitment to different multinational companies. 2. Joining in DXC is a kick start and the knowledge in c, c++, java, python is required.

39	12/03/20	Medico Health care	Healthcare services, technology and management company. Good platform for fresher's to grow they life lot of learning will we there
40	07/02/20	THASMAI AUTOMATION	thasmai is an innovative solution provider. Designing solutions for Security, Home Automation and Home Theaters hired will be as design analyst where he works under different environments
41	13/02/20	EIDIKO	1. It is a software company which works across ITOps, Cyber security, Networks, and Cloud 2. Joining in this gives a confidence start in career
42	21/07/20	Byju's	1. BYJU'S is an Indian multinational educational technology company 2. Can become professional in business development, trainings.
43	29/09/20	Vayu Group	1. It is a software company which works across ITOps, Cyber security, Networks, and Cloud 2. Joining in this gives a confidence start in career
44	17/09/20	RAMKY INFRASTRUCTURES	Ramky Infrastructure Ltd a public limited company serving diverse sectors including construction business and infrastructure development projects in India Graduate Trainee Engineer will be trained on all aspects related to construction and business
45	28/09/20	SL LUMAX	
46	10/12/19	HDFC	HDFC Bank Limited is an Indian banking and financial services company Will be employed as sales executive and responsible for financial related .
47	18/1/19	MovingDneedle	Real estate agency and will be hired as sales support
48	10/02/20	Itz My Choice	
49	11/02/20	Mphasis Ltd	 Mphasis has been nimble and agile in integrating and building specialization to enable future proofing of the organization as well as its customers. Associate Software Engineer will be trained to Applications Development, Applications Testing, and Application Production Support etc. as per business requirement.

50	12/02/20	Tata AIG	It is a general insurance company and a joint venture between tata group and American international group
51	13/02/20	Quess Corp Ltd	
52	05/02/20	Multiplier AI Solutions	It is completely a software company and working on projects on different languages which helps you to be employed as a software engineer
53	28/02/20	CES Limited	
54	16/03/20	More Retail Ltd	It is a private company and the career will start as sales executive where you will be given targets
55	12/03/20	Medico Health care	Healthcare services, technology and management company. Good platform for freshers to grow they life lot of learning will we there

TRAINING, CAREER GUIDANCE & PLACEMENT CELL EVENTS AND ACTIVITIES/AY 2018/2019

S. No	Date	Conducted By	Description Of the Event	Venue	Resource Person	No. Of Students Enrolled
1	16/08/2018	ACE Academy Hyderabad	Importance of Gate Exam	Ramanujan Bhavan. Seminar hall	Sri K. Kesava Reddy	387
2	20/09/2018	Global Opportunities Visakhapatnam	Awareness on Higher Education	Ramanujan Bhavan. Seminar hall	Sri I. Mohammed Basha	383
3	12/12/2018	Time Institute Rajahmahendravarm	Career Planning and Management	Ramanujan Bhavan. Seminar hall	Sri K. Sai Venkat	428
4	31/1/2019	Infosys Hyderabad	Awareness on Opportunities in Software Industry	Ramanujan Bhavan. Seminar hall	Sri G. Karthik	445
5	27/2/2019	RK Study Center Rajahmahendravarm	Awareness on Banking sector exams	Ramanujan Bhavan. Seminar hall	Sri V. Sandeep	451

Events conducted under Training & placement committee

A.Y. 2018/2019

S. No	Name of the Program	Date	Resource Person	No. of Students Attended
1	**Soft skills –**English Speaking skills	11/06/2018 to 13/06/2018	Technical Hub, Surampalem Mr. K. Devan 9397934366	272
2	**ICT/Computing skills –** Five-day training on JAVA Programming	17/07/2018 to 21/07/2018	Technical Hub, Surampalem Mr. R Sudhir 9951722111	323
3	**Soft skills –** One week Campus Recruitment Training	10/12/2018 to 15/12/2018	Technical Hub, Surampalem Mr. K Bharath Kumar 9346445450	165
4	**ICT/Computing skills –**Training on Cisco networking	04/02/2019 to 09/02/2019	Technical Hub, Surampalem Mr. B. Veerababu 9492157450	323

Companies Visited 2018/2019

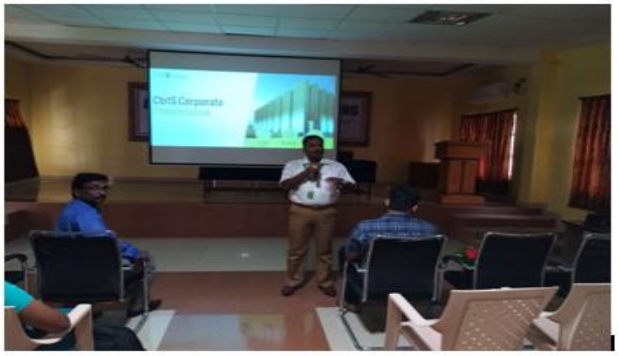
S. No	DATE	Name of the Company	SALARY PACKAGES
1	23/03/2019	PATHFRONT	1.80 LPA
2	18/08/2018	RIKTAM TECHNOLOGY	2.16 To 4.20 LPA
3	09/01/2019	ALIENS GROUP	2.04 LPA
4	20/11/2018 23/11/2018	APTROID	2.40 LPA
5	19/03/2019	ARYAAN SOLUTIONS	1.80 LPA
6	01/10/2019 11/10/2019	ASPIRATION ENERGY	2.40 LPA
7	22/02/2019	ATOS SYNTEL	3.50 LPA
8	17/09/2018	AZTEC	1.90 LPA
9	20/03/2019	BSCPL	1.80 LPA
10	20/02/2019	CALIBER TECHNOLOGIES	2.60 LPA to 2.70 LPA
11	03/10/2018	CAPGEMINI	3.80 LPA
12	23/03/2019	CHOLA MS GENERAL INSURANCE / MURUGAPPA GROUP.	3.00 LPA
13	21/06/2018	CIALFOR	1.80 LPA

14	25/11/2018	CTRLS	3.30 LPA
15	06/02/2019	CTS (COGNIZANT)	3.25 LPA
16	24/05/2019	DECATHLON SPORTS	2.81 To 3.31 LPA
17	28/07/2018/	DIVAMI	3.2 LPA
18	16/05/2019	DREAMGAINS	5.3 LPA
19	11/03/2019	DREAMSTEP	1.20 LPA
20	22/11/2018	EFFTRONICS	3.00 To 7.00 LPA
21	07/03/2019	FNP (FERNS & PETALS)	4.00 LPA
22	14/02/2019 15/02/2019	GENPACT	2.40 LPA
23	09/04/2019	GGK TECH	3.50 LPA
24	09/04/2019	GSK	1.44 LPA
25	07/01/2019	HCL	3.50 LPA
26	26/12/2018 28/12/2018 29/12/2018	HYPER FILTERATION PVT. LTD.	1.80 LPA
27	05/04/2019	IB HUBS	8.00 LPA
28	08/02/2019	IBEON INFOTECH	2.40 LPA
29	22/04/2019	INFOR GLOBAL SOLUTIONS	4.46 LPA
30	21/12/2018	INFOSYS	3.60 LPA
31	28/09/2018	INVENIO SOLUTIONS	3.60 LPA
32	20/11/2018 21/11/2018 22/11/2018	JARO EDUCATION	5.64 LPA
33	27/09/2018 28/09/2018 29/09/2018	KEKA(TECHNOVERT)	6.00 LPA
34	14/03/2019	KRISAM AUTOMATION PVT LTD	1.80 LPA
35	11/03/2019	KWANG JIN INDIA AUTO SYSTEMS PVT LTD	1.56 LPA
36	18/02/2019 19/02/2019	L/CUBE (GLENWOOD SYSTEMS)	2.40 LPA to 2.70 LPA
37	28/12/2018	LTI INFOTECH	3.30 LPA
38	19/11/2018	LTI INFOTECH(PT)	4.10 LPA
39	21/11/2018	MULTIPLIER SOLUTIONS	2.70 LPA
40	18/03/2019	NANDEE NETWORKS	1.80 LPA
41	23/02/2019	NVH INDIA AUTO PARTS PVT. LTD	1.38 LPA
42	07/02/2019	OPEN TEXT	6.82 LPA

43	30/01/2019	PARAMATRIX TECHNOLOGIES	3.00 LPA
44	16/03/2019	PENNANT TECHNOLOGIES	2.40 LPA
45	28/12/2018 29/12/2018	PRATIAN TECHNOLOGIES	4.00 LPA
46	29/03/2019	PROLIFICS	3.00 LPA
47	02/03/2019	QSPIDERS | JSPIDERS	2.40 LPA
48	24/01/2019	RAAM GROUP	2.40 LPA
49	29/01/2019	SAMSUNG R&D	7.50 LPA
50	1502/2019	SAVANTIS	1.83 LPA
51	24/11/2018	SEGUROSOFT	2.40 LPA
52	23/01/2019	SENSA CORE MEDICAL INSTRUMENTATION	1.97 LPA
53	10/04/2019	SEVENTH SENSE TALENT SOLUTIONS	3.50 LPA
54	28/09/2020	SL LUMAX	1.47 LPA
55	12/02/2019	SURYA TECH SOLUTIONS	1.98 LPA to 5.40 LPA
56	10/11/2018	SYNTEL	3.60 LPA
57	04/10/2018	TCS	3.36 LPA
58	13/05/2019	TECH TAMMINA	1.44 LPA
59	12/01/2019	TECHNIPFMC	6.00 LPA
60	28/11/2018 30/11/2018	TEK SYSTEMS	6.00 LPA
61	20/03/2019 21/03/2019	THASMAI AUTOMATION	3.65 LPA
62	29/04/2019	TRINITY CLEANTECH	1.44 LPA
63	15/03/2019	VIJAY NIRMAN	1.80 LPA
64	16/11/2018	WIPRO	3.50 LPA
65	20/09/2018 21/09/2018	ZENQ	3.20 LPA

CAREER COUNSELING/AY 2018-19

S. No.	Date	Name of the Company	Description of Pre/Placement talk
1	28/07/2018	Divami	 1. We are the leading UX UI Design agency offering research, website design, and web and mobile app development 2. An UX Engineer - Intern should have Sound conceptual knowledge on Programming languages and platforms Excellent coding skills in C/C++/Java Good at problem solving and analytical thinking, Soft Skills, Excellent communication skills Team player, Positive Attitude Open to change
2	17/09/2018	AZTEC	1. It is a process automation and information firm founded by industry experts 2. Hiring as Trainee to plan, develop, design, construct
3	28/09/2018	Invenio Solutions	 It is completely an software company and working on projects on different languages which helps you to be employed as a software engineer
4	3/10/2018	CAPGEMINI	1. Applies next/generation technology to help enterprises transform businesses globally. 2. We would be hiring for Associate Software engineer and required skill sets are Applications Development, Applications Testing, Application Production Support etc. as per business requirement.

5	4/10/2018	TCS	1. Company that designs critical high/tech systems for strategic industry sectors worldwide. 2. We are recruitment for Trainee Software Associate Requires excellent technical, communication and presentation skills who are available immediately to join. Coding/ C, C++, JAVA and Python.
6	10/11/2018	Syntel	
7	16/11/2018	WIPRO	1. Company that designs critical high/tech systems for strategic industry sectors worldwide. 2. We are recruitment for Trainee Software Associate Requires excellent technical, communication and presentation skills who are available immediately to join. Coding/ C, C++, JAVA and Python.
8	28/12/2018	LTI INFOTECH	1. Applies next/generation technology to help enterprises transform businesses globally. 2. We would be hiring for Associate Software engineer and required skill sets are Applications Development, Applications Testing, Application Production Support etc. as per business requirement.
9	21/11/2018	MULTIPLIER SOLUTIONS	1. It is a niche software solutions and service provider across horizontal markets. A key enabler in the digital transformation space. 2. involved as Associate Software Trainee who will be working on python, product based.
10	22/11/2018	EFFTRONICS	It is completely a software company and working on projects on different languages which helps you to be employed as a software engineer
11	24/11/2018	SEGUROSOFT	
12	25/11/2018	CTRLS	 1. CtrlS sells services like data center collocation, DC build and consulting, Internet bandwidth, managed services, cloud security services, and disaster recovery services. 2. Cloud computing, Cloud storage Knowledge of Uptime and TIA standards for data centers design

13	21/12/2018	INFOSYS	 1. Company that designs critical high-tech systems for strategic industry sectors worldwide. 2. We are recruitment for Trainee Software Associate Requires excellent technical, communication and presentation skills that are available immediately to join. Coding- C, C++JAVA and Python.
14	19/11/2018	LTI INFOTECH(PT)	1. Applies next/generation technology to help enterprises transform businesses globally. 2. We would be hiring for Associate Software engineer and required skill sets are Applications Development, Applications Testing, Application Production Support etc. as per business requirement.
15	09/01/2019	Aliens Group	1. A company that designs critical high/tech systems for strategic industry sectors worldwide. Its solutions combine electronics and information technology, delivering rapid innovation to its customers. The highly skilled teams enable fast deployment and long/term maintenance of its solutions. 2.We are recruitment for Trainee Software Associate Requires excellent technical, communication and presentation skills who are available immediately to join. Coding/ C, C++, JAVA and Python and Machine Learning is necessary
16	06/02/2019	CTS (COGNIZANT)	1. Company that designs critical high/tech systems for strategic industry sectors worldwide. 2. We are recruitment for Trainee Software Associate Requires excellent technical, communication and presentation skills who are available immediately to join. Coding/ C, C++, JAVA and Python.
17	08/02/2019	IBeON Infotech	1. BYJU'S is an Indian multinational educational technology company 2. Can become professional in business development, trainings.
18	12/02/2019	Surya Tech Solutions	It is completely a software company and working on projects on different languages which helps you to be employed as a software engineer

19	15/02/2019	Savantis	It is completely a software company and working on projects on different languages which helps you to be employed as a software engineer
20	23/02/2019	NVH India Auto Parts Pvt. Ltd	
21	02/03/2019	QSpiders | JSpiders	Qspiders is No.1 software testing training institute in India with a view to bridge the gap between industry requirement and curriculum of educational. Here you will be trained to make a road map how to make better connections between industry and educational industries.
22	07/03/2019	FNP (Ferns & Petals)	
23	11/03/2019	Kwang Jin India Auto systems Pvt Ltd	1.Kwang Jin Corporation (KJC) manufactures quality rotary joint and swivel joint that are used in various steel industry fields 2. Involves in production department as a quality analyst
24	15/03/2019	Vijay Nirman	Vijay Niram Ltd a public limited company serving diverse sectors including construction business and infrastructure development projects in India. Graduate Trainee Engineer will be trained on all aspects related to construction and business
25	18/03/2019	Nandee Networks	It is completely a software company and working on projects on different languages which helps you to be employed as a software engineer
26	19/03/2019	Aryaan Solutions	It is completely a software company and working on projects on different languages which helps you to be employed as a software engineer
27	23/03/2019	Pathfront	Identity Services for their business success. We support identity and access management services from industry leaders including OKTA, Microsoft Azure and IBM Should have knowledge on .net, Java / IBM (Filenet, WebSphere Portal/ i2) / SAP/ Oracle / Microsoft Technologies/ Security etc.
28	23/01/2019	Sensa Core Medical Instrumentation	It is a machinery company Involves in production of many components of medical and will be a representative in sales department.
29	23/03/2019	Chola MS General Insurance / Murugappa Group.	holamandalam MS General Insurance Company Ltd is an Indian insurance firm and a joint venture between the Murugappa Group, an Indian conglomerate, and the Mitsui Sumitomo Insurance Group, a Japanese insurance company
30	16/03/2019	Pennant Technologies	

31	29/03/2019	Prolifics	1. A company that was born in the digital culture and creates solutions based on a methodology that combines intense business analysis, UX design and technology 2. works on test automation and marketing
32	14/03/2019	Krisam Automation Pvt Ltd	is an innovative solution provider. Designing solutions for Security, Home Automation and Home Theaters hired will be as design analyst where he works under different environments
33	10/04/2019	Seventh Sense Talent Solutions	It is completely a software company and working on projects on different languages which helps you to be employed as a software engineer
34	05/04/2019	IB HUBS	 It is completely an software company and working on projects on different languages which helps you to be employed as a software engineer
35	20/03/2019	BSCPL	1. It is a construction Company and a graduate trainee position will be offered and will be responsible for the total project until completion
36	09/04/2019	GSC	 1. GSG is a company that designs critical high-tech systems for strategic industry sectors worldwide. Its solutions combine electronics and information technology, delivering rapid innovation to its customers. The highly skilled teams enable fast deployment and long-term maintenance of its solutions. 2. We are recruitment for Trainee Software Associate 3. Requires excellent technical, communication and presentation skills that are available immediately to join. Coding- C,C++,JAVA and Python and Machine Learning is necessary
37	29/04/2019	Trinity Cleantech	
38	08/09/2018	RAKI AVENUES	RAKI group is the emerging leader in AP state in real estate and Construction sector with major interests in building smartly Graduate trainee Engineer will be trained in all aspects related to construction.

39	05/01/2019	Vivo Global	1. Explore high/tech and powerful vivo smartphone and accessories. The world's leading smart device manufacturers in photography and gaming performance 2.Trainee will be involved in production
40	23/01/2019	BATA INDIA	Bata Corporation is a Czech multinational footwear and fashion accessory manufacturer and retailer
41	30/01/2019	Placement Park	
42	24/01/2019	Raam Group	1. Raam group Leading automobile dealership. 2. will be a sales representative
43	31/01/2019	Spandana Sphoorty	Spandana Sphoorty Financial Ltd is a Micro Finance firm head/quartered at Hyderabad
44	14/02/2019	Genpact	1. Company that designs critical high/tech systems for strategic industry sectors worldwide. 2. We are recruitment for Trainee Software Associate Requires excellent technical, communication and presentation skills who are available immediately to join. Coding/ C, C++, JAVA and Python.
45	18/04/2019	ICICI BANK	ICICI Bank Limited is an Indian banking and financial services company Will be employed as sales executive and responsible for
46	19/03/2019	BROADRIDGE	
47	21/03/2019	CULTFIT	

9.6. Entrepreneurship cell **(5)**

(The institution may describe the facility, its management and its effectiveness in encouraging entrepreneurship and incubation) (Success stories for each assessment years are to be mentioned)

The Entrepreneurship Development Cell (EDC) in Aditya College of Engineering (ACOE) is initiated to promote Entrepreneurship Culture and activities among the students by organizing the related activities.

Facility and its management

ACOE/EDC was established in 2014 and the primary objective of EDC is to organize Entrepreneurship awareness Programs for students in order to bring awareness about Entrepreneurship. The EDC in college conducts a number of Skill development training programs that can lead to self/employment. As a part, research work and surveys will be carried out for identifying entrepreneurial opportunities. EDC also arranges guest lectures by successful

entrepreneurs and provides a platform for interaction between professional entrepreneurs and student entrepreneurs apart from organizing Boot camps, industrial visits, and panel discussions.

The main aim of the EDC is to develop entrepreneurship capability in students by organizing workshops on business communications (Email Writing; CV Making; Applying for a job), Presentation skills (How to present), idea Generation for Startups and technology development. EDC in college invites eminent people as resource persons like personality development trainers to motivate the students and to develop the attitude students. EDC cell has its own committee to take care of all the activities.

Events conducted by EDC AY 2021 - 22

S. No	Event Conducted Date	Name of the Event	Name of Guests	No of students participated
1	08/11/2021 To 13/11/2021	6 Day Workshop on Generate Your Start/up Idea	Mr. K. B. S. Tarun Kumar founder and CEO of Hydro Tribe Private Limited	146
2	12/11/2021	Industrial Visit of Entrepreneurs Club members	Visit to Sri Nikhil Krishna solution Peddapuram	142
3	16/11/2021	Idea Day	Mr. Surya Prasad Padala Founder and CEO of Padala Charitable Trust	139

Events conducted by EDC AY 2020-21

S. No	Event Conducted Date	Name of the Event	Name of Guests	No of students participated
1	23.01.2021	Startup talks and interaction with our Start/up founders	Sri K.B.S. Tarun kumar intern coach of APSSDC	168
2	17/02/2021	Industrial visit for startup aspirant students	Visit to SNKS LED manufacture industry Peddapuram	153

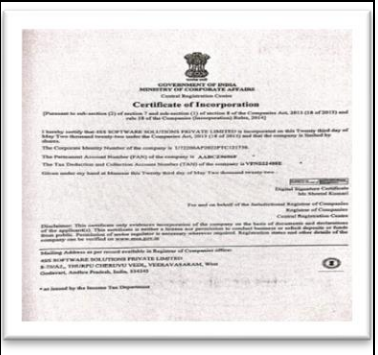
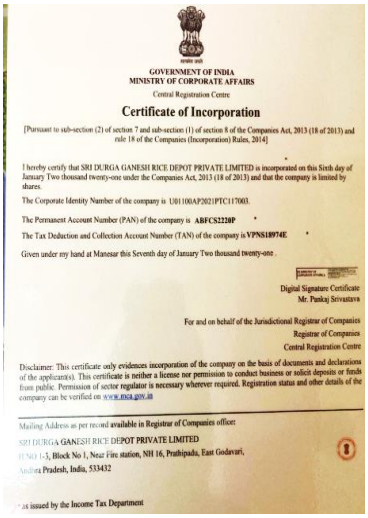
Events conducted by EDC AY 2019-20

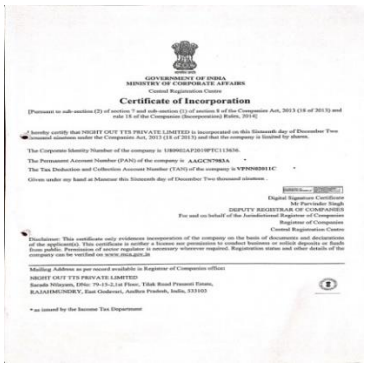
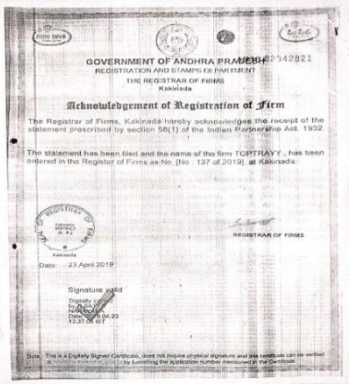
S. No	Event Conducted Date	Name of the Event	Name of Guests	No of students participated
1	05/12/2019 to 07/12/2019	A Three/day college level boot camp on ideation and venture creation	Sri K.B.S. Tarun Kumar, intern coach of APSSDC	156
2	16/02/2020	A Seminar on Entrepreneurship development and Startups in India	Sri K.B.S. Tarun Kumar, intern coach of APSSDC	148

Events conducted by EDC AY 2018-19

S.No.	Event Date	Name of the Event	Name of Guests	No of students participated
1	26/12/2018	ICONIC Event	Dr N. Sesha Reddy Chairman Aditya Group of Institutions Surampalem	142
2	16/02/2019	A Seminar on Entrepreneurship development and Startups in India	Mr. T. Bhogeswara Rao Industrialist. Chairman & Managing Director TBR Group Hyderabad	150
3	20/02/2019 to 21/02/2019	Two/day orientation Programme "CEO Connects"	1. Maj. Gen. VPS Bhakuni VSM(R). (CEO Eagles Unbound) Bangalore. 2. Col. KV. Nair (R) 3. Dr. Saddam	164

Start/up initiated by Students

S. No	Name	Branch	AY	Enterprise	Certificate
1	Ms. T. Bhuvanaeswari	CSE	2021-22	**Tales to Teach Pvt.Ltd** Tales to teach is a unique way of teachings in the form of stories. The team of four members started to bring revolution to the teaching and education sector. This start-up makes different stories to understand the concept and applications in the form of tales.	
2	Mr. V.A.S Subramanyam	CSE	2021-22	**4SS Software Solutions Pvt.Ltd.** They develop software for computers, mobile devices and the web with high quality and adaptable softwares.	
3	Mr. K. Bhaskar & Mr. P. Hari Prasad Reddy	CE ME	2021-22	**SDG Organics (Sri Durga Ganesh Rice deport Pvt.Ltd)** Current scenario its hard to get hygienic and organic rice, wheat, pulses, and veggie products. The team SDG Organics doing a contract farming with the association of Farmers and Tribes to provide healthy and hygienic food to the SDG community families	
4	Mr K.B.S. Tarun Kumar & Mr. R Eswaravara Prasad	ME ME	2020-21	**Hydro Tribe Pvt. Ltd.** Design and installation of customized structures for cultivating organic vegetables by using soil/less forming techniques like hydroponics, Aeroponics and Aquaponics. Varieties of models are available for households and high/rise buildings.	

5	Mr. J. Teja	ECE	2019-20	**Night out Pvt Ltd** It is meticulously designed application where it provides a unique way of learning system. The content lecture videos are in a simple way are in simple language.	
6	Mr. V. Prashanth & Mr.G. Ravi Teja	ECE ECE	2019-20	**Top Tray** Top Tray, the shop where you can find all the desired daily products in one place. In one click you have your desired products in one place.	
7	Mr. P. Bhaskar & Mr. D. Ram Rahul	CE CE	2018-19	**QQadz** QQadz for all Services (Branding & Advertising, Digital Marketing, Web Designing, House Layouts, Consultancy Services, Marketing Strategy, App Development, Media Works). We are with you for showcasing your brand in to market.	
8	Mr. V. Bharath & Mr. A. Sai Kumar	ECE ME	2018-19	**Trigid** Trigid Technologies (3dclikx) Empowering the innovation and prototyping by fulfilling the requirements of the engineers at the best with the joy of 3D printing.	
9	Mr. K. K. Mishra & Mr. C. Manohar	CSE CSE	2018-19	**Agumentik** . Agumentik is the fastest growing startup in Andhra Pradesh for designing Software, Website Development, App Development, Animation, Game Designing and Digital Marketing Era	

10	Mr. D. Charan Sanjeev	ECE	2016/17	**Get my tailor** It is an online tailoring service which enables customers to get their stitching done.	

9.7. Co-curricular and Extra-curricular activities (10)

The college encourages the students to take part in both co/curricular and extra/curricular activities.

The students are allowed to take part in various sport activities also.

Sports and cultural Activities

Under sports and cultural activities ÀCOE conducts many sports and celebrates many activities like Engineers Day, Teachers Day, Farmers Day, Pongal celebrations etc. Along with the above-mentioned events various cultural activities like debate and discussion, Quiz, paper presentations, seminars and group discussion sessions are conducted.

Why Extracurricular Activities Matter

Getting involved in clubs, sports, work or other pursuits outside the classroom can give student new skills and help them learn about their own self. Extracurricular Activities also play a part when you apply to colleges. Most college applications ask about student activities. That's because the things student do in their free time reveal a lot about them — in ways that grades and test scores can't. Student accomplishments outside the classroom show what they are passionate about and that they have qualities valued by colleges.

The details of various categories of sports and cultural activities are listed below:

I) Sports

The Sports activities at Aditya College of engineering offer an opportunity to participate in a broad variety of sports and recreational activities. All programs are based on student interest and creates an environment where students can unite in diverse groups to achieve common goals and objectives while encouraging healthy lifestyles. Sports activities provide a valuable learning experience through student involvement in public relations, organization, administration, budgeting, scheduling, teaching, and leadership development.

Extracurricular activities are part of the college experience to find out what these students learned when they put down the books and got involved. Activities outside the classroom can give new skills and perspectives. They also reveal things about you that grades and test scores can't.

College also offers Intramural leagues, Intramural leagues are set up by the college to give all students a chance to participate. Teams from the same college play against each other.

Students can often participate in traditional sports, such as basketball, soccer and softball, and can sometimes compete in other activities, such as dodgeball, inner/tube water polo or video games. Some colleges offer these types of sports at different levels, so students can match their skills and interest level by choosing a more/ or less/competitive team.

Availability of sports facilities:

List of play fields available in the campus

Sl. No.	Play field	No. of play fields		Sl. No.	Play field	No. of play fields
1	Volleyball courts	2		12	Kho/Kho courts	2
2	Throw ball court	1		13	Ball badminton court	2
3	Basketball court	1		14	Tennikoit court	2
4	Kabaddi court	1		15	Hand ball court	1
5	Long jump pit	1		16	Shotput circle	1
6	High jump pit	1		17	Discuss circle	1
7	200 mts. track	1		18	Javelin throw	1
8	Football and hockey	2		19	Gymnasium	1
9	Cricket field	1		20	Shuttle badminton court	2
10	Cricket bowling and batting nets	3		21	Table tennis boards	2
11	Kabaddi courts	2		22	Billiards board	1

Photo Gallery of the play fields

Images of Cricket Practice Nets,
Table tennis, Basketball court

Images of volleyball court, Football field, Kabaddi & Kho Kho Courts,400m Athletics Track

Images of 100mts track, long jump pitch

List of sport activities:

Total Participant List:

S. No	Year	No of Participants		Total no of Participants
		Boys	Girls	
1	2021-2022	634	274	908
2	2020-2021	222	118	340
3	2019-2020	409	222	631
4	2018-2019	566	374	940

ACADEMIC YEAR 2021-2022

S. No	Name of the Event		Date of events	No of Participants
1	On the eve Independence Day	Kabaddi for Boys	$13^{th}/14^{th}$ August	85 (9 Teams)
		Badminton for Girls		29
2	On the eve of National Sports day	5KM Run for Boys	$26^{th}/27^{th}$ August	62
		3KM Run for Girls		44
3	Chess Championship	Boys	$6^{th}/7^{th}$ December	47
		Girls		33
4	Volleyball Tournament	Boys	$15^{th}/16^{th}$ December	75 (8 Teams)
		Girls		43 (5 Teams)
5	Badminton Tournament	Boys	$28^{th}/29^{th}$ December	57
6	Basketball Tournament	Boys	$7^{th}/8^{th}$ January	62 (7 Teams)
7	A eve of Republic Day	Badminton for Boys	$24^{th}/25^{th}$ January	62
		Throw ball for Girls		56 (5 Teams)
8	Kho Kho Tournament	Boys	$28^{th}/29^{th}$ March	86 (8 Teams)
9	Kabaddi Tournament	Boys	$27^{th}/28^{th}$ April	98 (10 Teams)
		Girls		69 (7 Teams)

ACADEMIC YEAR: 2020 - 2021

S. No	Name of the Event		Date of events	No of Participants
1	Badminton Tournament	Boys	11th/12th February	57
		Girls		36
2	Chess Championship	Boys	24th/25th February	51
		Girls		47
3	Volleyball Tournament	Boys	9th/10th March	56 (7 Teams)
		Girls		35 (4 Teams)
4	Kabaddi Tournament	Boys	25th/26th March	58 (6 Teams)

ACADEMIC YEAR: 2019-2020

S. No	Name of the Event		Date of events	No of Participants
1	On the eve of Independence Day	Volleyball for Boys & Girls	12th/14th August	56 (6Teams)
				38 (4 Teams)
		Cricket for Boys		75 (5 Teams)
		Tennikoit for Girls		32
2	On the eve of National Sports day	5KM Running for Boys	27th/28th August	56
		3KM Running for Girls		37
3	Kabaddi Tournament	Boys	6th/7th October	68 (7 Teams)
4	Kho Kho Tournament	Boys	28th/29th November	60 (5 Teams)
		Girls		47 (4 Teams)
5	On the eve of Republic Day	Badminton for Boys & Girls	24th/25th January	32
		Volleyball for Boys & Girls		27
				62 (6 Teams)
				41 (4 Teams)

ACADEMIC YEAR 2018 - 2019

S. No	Name of the Event		Date of events	No of Participants
1	On the eve of Independence Day	Chess for Boys & Girls	10th/14th August	63
				51
		Kabaddi for Boys		62 (6 Teams)
		Badminton for Boys & Girls		53
				45
2	On the eve of National Sports day	100M Running for Boys & Girls	25th/28th August	42
				31
		Shot put for Boys & Girls		32
				17
		Long Jump for Boys & Girls		35
				21
		Volleyball for Boys		68 (7 Teams)
		Tennikoit for Girls		30
3	Basketball Tournament	Boys	10th/11th September	47(5 Teams)
4	Throw ball Tournament	Girls	26th/27th November	42 (4 Teams)
5	On the eve of Republic day	Kabaddi for Boys & Girls	23rd/25th January	61 (6 Teams)
				52 (5 Teams)
		Kho Kho for Boys & Girls		55 (5 Teams)
				53 (5 Teams)
6	Badminton Tournament	Boys	14th/15th March	48
		Girls		32

Images of intramural games & sports meet (CHESS COMPETITION)

Images of intramural games & sports meet (VOLLEYBALL TOURNAMENT)

Images of intramural games & sports meet (Aditya premier league & Aditya football league)

II) Extracurricular activities

List of extracurricular activities

S. No.	Name of the extracurricular activity	Date of activity	Number of participants
1	Dance show	16/03/2018	35
2	Role play	13/08/2018	25
3	Singing competition	05/11/2018	32
4	Rangoli	20/12/2018	45
5	Fashion show	24/01/2019	20
7	Dance show	02/09/2019	40
8	Singing competition	03/09/2019	25
9	Dance show	11/12/2021	45

10	Role play	11/12/2021	20
11	Fashion show	11/12/2021	30

Images of extracurricular activities

III) NSS and other Clubs:

a) National Service Scheme (NSS):

NSS is a voluntary association of young people in Colleges, Universities. The cardinal principal of the NSS program is that it is organized through participation in community service; gets a sense of involvement in the task of nation building.

List of NSS Events:

Sl. No.	Event Name	No. of students participated	Date
1	Blood bank camp	253	14/06/2021
2	One rupee fund program for orphanage	75	08/10/2021
3	Eye camp and free distribution of spectacles	92	28/10/2021

Table 9.7.: Summary of NSS events conducted

Photo gallery of NSS activities

Images of Eye camp and free distribution of spectacles

Images of One rupee fund program for orphanage

Images of Vaccination camp

b) Club activities

SAC is an official student/led body of Aditya College of Engineering (ACOE). It acts as a student representative medium and student/led venture accelerator that fosters the development of entrepreneurs in the ACOE community through the educational experience of developing an eco /system for business from concept to launch. SAC (Student Activity Council) of our college is constituted by the following clubs.

1. AID (Ability in Disability)
2. Tech Club
3. Speakers & Readers Club
4. Entrepreneurship Club

Summary of club events conducted in the academic years of 2020 - 2021

Sl. No.	Event Name	Number of students participated	Date
1	Guest Lecture on Entrepreneurship by Mr. Manu Iyer	164	10.07.2018
2	Guest Lecture on Entrepreneurship by Mr. Ravi Budama	220	28.07.2018
3	Awareness program on Entrepreneurship	1200	31.07.2019
4	Business Idea Competition / 2019	160	05.09.2019
5	Demo Day	120	14.09.2019
6	Promoting Entrepreneurship to All First/Year Students	260	28.09.2019
7	Start/up Talks and Interaction Session	80	23.01.2020
8	Germinate Your Business Idea	35	18.02.2020 to 20.02.2020
9	Industrial Visit	35	17.02.2020
10	Guest Lecture on Opportunities in LED Industries by Mr. I. Nikhil SNK Solutions	150	27/02/2020
11	Singing	30	10.01.2022
12	Dance show	45	10.01.2022
13	Rangoli competition	36	10.01.2022
14	Fashion show	26	10.01.2022
15	Sankranti sambaralu event	150	10.01.2022

Student Activity Council organized Sankranthi sambaralu on10-11January 2022 at Aditya College of Engineering

Student activity Council organized “Start/up Talks”. In this event, Entrepreneurship Development Cell supported start up founders who delivered their entrepreneurial journey to the students 80 participants.

Germinate your business idea is a workshop for budding student entrepreneurs was organized and in this GYB workshop, they will learn how to generate a business idea and identify the problem

& solution. They can also learn about how to evaluate the idea and how to do a SWOT analysis for the business idea. Institution Innovation Council & Entrepreneurship Development cell of Aditya College of Engineering organized this Generate Your Business Idea Workshop from 18.02.2020 to 20.02.2020.

Students visited the SNKS led manufacturing unit located at Peddapuram, East Godavari district, Andhra Pradesh and 35 students participated in this visit. Students are exposed to the production and manufacturing process and how a manufacturing firm can be as startups and the images are presented here.

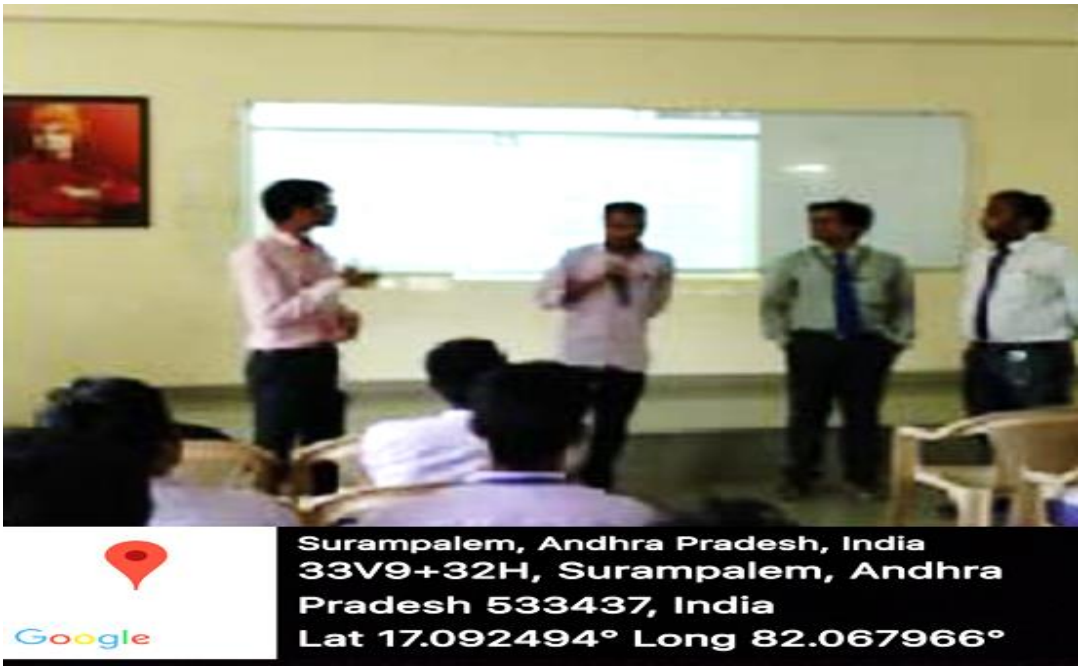
A guest lecture on ‘Opportunities n LED industries was organized and successful entrepreneurs Mr. I Nikhil MD of Sri Nikhil Krishna Solutions, as a Guest speaker explained about the importance of entrepreneurship and opportunities in LED industries with 150 students’ participation.

Interactive Session on Entrepreneurship by Mr. Manu Iyer Managing Director, Blue Hill Capital Pvt Ltd, on 10th July 2018 and Mr Iyer explained about how to generate ideas and evaluate the idea, how to find a good team and team building, how to face market challenges, how to handle the Financials for start/ups. In this session, 110 students participated and interacted with the speaker, from all the Departments of Aditya College of Engineering.

On July 28th, Interactive Session on Entrepreneurship by Speaker Ravi Budama Founder & CEO of Startupyo. In this session, Mr. Ravi Budama interacted with students and with Start/up teams. He explained why Entrepreneurship is important in the Present Scenario. How MSME's is playing a key role in Country Development. He has given some inputs to the start/up's teams

SAC Entrepreneurship Club associated with the Entrepreneurship development cell organized an "Awareness program on entrepreneurship" for 90 Minutes from 24.06.2019 to 31.07.2019. Speakers Mr K. B. S. Tarun Kumar and Mr T. Charan delivered a talk on what is innovation and entrepreneurship, need for innovation in daily life and conducted a brainstorming session with 1200 students' active participation.

SAC Members displayed and explained the ventures under the Entrepreneurship development cell. Students visited the products displayed and services provided by the startups. They learn how these startups are running and how they innovate the products and services to gain the customer interest. 1st year students understood how entrepreneurship development cell helps to the startups and 260 students were participated.



On 5th September 2019, Student Activity Council associated with Entrepreneurship Development cell organized Business Idea Competition/2019. In this program 5 best ideas in different emerging technologies like Agri/tech, Edu/tech, and E/Commerce were shortlisted out of 28 ideas were registered.

Student Activity Council associated with Entrepreneurship Development Cell organized Demo Day on 13/14 September 2019 at Aditya College of Engineering. In this event from the Entrepreneurship development cell, 10 start/ups and 6 ideated ventures participated.

III) Annual activities:

Sl. No.	Event	Participants	Months of Conduction
1	Christmas Celebrations	300	December,2021
2	International Students Day Celebration	500	November, 2021
3	Engineer's Day	300	September, 2021
4	Achievers' day	300	September, 2021
5	Christmas Celebrations	350	December,2019
6	International Students Day Celebration	150	November,2019
7	Engineer's Day	290	September,2019
8	Independence Day	250	August, 2019
9	Republic day celebrations	350	January, 2019
10	Christmas Celebrations	300	December,2018
11	International Students Day Celebration	150	November,2018
12	Engineer's Day	500	September,2018
13	Independence Day	250	August, 2018
14	Republic day celebrations	300	January, 2018

Table 9.7.7: List of Annual activities

Christmas Celebrations, 160th birth Anniversary celebrations of Sir Mokshgundam Visvesvaraya, International Students Day Celebrations, Achievers Day celebrations for A.Y 2021-2022

Images of Republic Day, Engineers Day celebrations for A.Y 2019 – 2020

Images of Republic Day, Engineers Day celebrations for A.Y 2018-2019

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CRITERION 10	Governance, Institutional Support and Financial Resources	120

10.1 Organization, Governance and Transparency (40)

10.1.1 State the Vision and Mission of the Institute (5)

Vision of the Institute:

To induce higher planes of learning by imparting technical education with

International standards

Applied research

Creative Ability

Value based instruction and to emerge as a premiere institute.

Mission of the Institute:

Achieving academic excellence by providing globally acceptable technical education by forecasting technology through

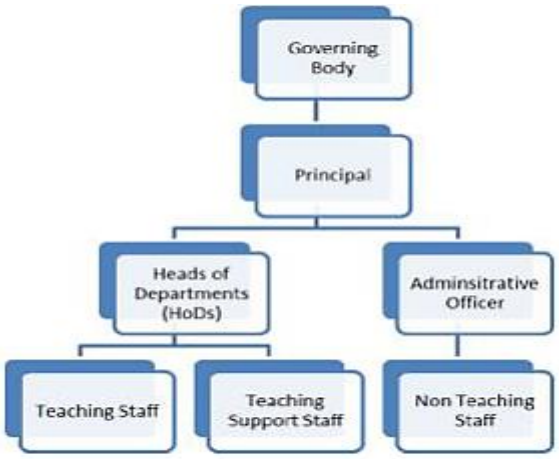
M1: Innovative Research And development

M2: Industry Institute Interaction

M3: Empowered Manpower

10.1.2 Governing body, administrative setup, functions of various bodies, service rules, procedures, recruitment and promotional policies (10)

ACOE follows the organization chart shown and the effective leadership is visible in various institutional practices such as decentralization and participative management.



Governing Body

The Governing body is constituted as per the guidelines prescribed by AICTE / State Government / UGC / State Government. The Governing Body meets once in six months and interacts with industry experts, faculty, students and corporate to understand the improvement areas and raise the level of knowledge delivery at Aditya College of Engineering with the assistance of faculty members and administrators of the Institute. The Chairman, Vice-Chairman and Secretary are the functionaries who take the responsibility of implementing the policy decisions of the governing body. The functions and composition of Governing Body is presented and the minutes of governing body meetings are annexed.

- Governing body members are required to respect the confidentiality of sensitive information held by the Institute.
- The Governing body will comply with detailed tendering and purchasing procedures as well as complying with prescribed levels of authority for sanctioning any expenditure.
- The Members are required to use their reasonable endeavours to attend all governing body meetings.
- Governing body will guide and monitor the Institute while fulfilling the objectives.
- All the Institute activities and recommendations of the Academic Committee are reviewed.
- Governing body approves new courses/programs /certification programs recommended by the principal.
- Recruitment process for Teaching/Non-teaching shall be approved by the Governing body with the policies laid down by AICTE/UGC/State Government/University etc.
- Governing body approves the annual budget of the Institute while considering all the requirements.

S. No.	Name of the member	Position in GB
1	Dr N. Satish Reddy	Chairman
2	Dr N. Sesha Reddy	Member
3	Sri N. K. Deepak Reddy	Member
4	Dr N. Suguna Reddy	Member
5	Smt. N. Sruthi	Member
6	Dr Pullela S.V.V.S. Ravi Kumar, Dean (A & A)	Faculty Member
7	Sri K. Manoj Kumar Reddy, Professor & HOD-EEE	Faculty Member
8	Dr M. Srinivasa Reddy	Educationist

9	Smt Pilli Sumalatha, Asst. Manager, Poorna Textiles, Peddapuram	Industry Nominee
10	Regional Officer, SCRO, AICTE, Hyderabad	Ex-Officio Member
11	Principal, Govt. Model Residential Polytechnic, Rajahmahendravarm	State Government Nominee & Ex-Officio Member
12	Dr K. Ramu, Professor of ECE, JNTUK, Kakinada	University Nominee
13	Dr A. Ramesh, Professor of EEE & Principal, ACOE	Member Secretary

Principal

Principal is responsible for overall administration and academic function of the institution in keeping with policies of the management as well as mandatory regulations of the related authorities. The principal has the executive powers to administrate the academic, non-academic and other functions based on the guidelines prescribed. The Principal of an Institution should always be honest, fair, objective, supportive, and protective and law abiding. Besides, the following traits are expected from the principal.

- Chalk out a policy and plan to execute the vision and mission.
- Promote industry-institution interaction and inculcate research and development activities.
- Ensure that the staff and students are aware of rules, policies and procedures lay down by the college and enforce them.
- Recommend and forward communication to the authorities.
- Monitor, manage and educate the administration of the institution and take remedial measures / actions based on the stakeholder's feedback.
- Execute any other qualitative and quantitative work for the welfare of the institution.
- Empower the staff and the students to reach their maximum potential.
- Exhibit outstanding strong leadership skills with the high integrity.

Dean (Academics & Administration)

- The Dean (Administration & Academics) has a key role to play in all academic matters to tone up the academic performance of all the departments and the overall quality and standards of the students and enriching the skills of the staff members.
- Assist the Principal in all matters of academic activities.
- Prepare all reports / documents / write-ups that the institution has to prepare for a specific purpose or help the principal in all such matters.
- Responsible in making periodic assessment of Teaching faculty & Staff particularly the new entrants and submit a report with suggestions / remarks to the principal.

- Accountable for the academics & the administration of all the departments.
- Evolves new strategies and action plans, involving the HOD concerned, for the development and the quality improvement of the department.
- Responsible for computing the manpower requirements as per work load norms of the department along with the HOD and recommend the staff requirement to the principal on an ongoing basis.
- Expected to interact with students periodically, review the student performance in the internal and end semester examinations, regularity in attendance, and monitor general discipline of the students inside the campus and take appropriate corrective or disciplinary action in consultation with HODs.
- Monitor the functioning of each department under his control, and act as a strong interface between the Principal and the Head of the department in implementing policies and programs formulated from time to time for improving the quality effectiveness of teaching – learning process.
- Any other responsibility given by the authorities from time to time.

Head of the Department (HOD)

- HOD is responsible for the smooth functioning of all the department level activities and responsible for preparing curriculum and strategic plan pertaining to the department.
- He shall adhere to the Policies and Procedures governed by the Academic committee and ensures quality practices in their departments. Monitors the academic schedule/attendance/syllabus completion/Internal examinations.

Monitors the requirements in laboratories and prepares budget proposals for purchase. He conducts regular faculty meetings and submits the minutes of the meeting to the principal.

Various Committees/Cells/Clubs

For administrative convenience a number of committees/Cells/Clubs have been constituted to look into various aspects of the college administration, development and student & staff affairs. The list of such committees is presented here and their corresponding meeting minutes and resolutions are published in college Website at http://acoe.edu.in/?p=IQAC#tab10 (http://acoe.edu.in/?p=IQAC#tab10).

Sl. No.	Name of the Committee		Sl. No.	Name of the Committee
1	ACADEMIC AND ADMINISTRATIVE AUDIT COMMITTEE		18	GRIEVANCE REDRESSAL CELL
2	ACADEMIC COMMITTEE		19	HEALTH CLUB
3	ADMISSIONS COMMITTEE		20	HOSTEL COMMITTEE
4	ALUMNI COMMITTEE		21	IIPC
5	ANTI-RAGGING COMMITTEE		22	LIBRARY COMMITTEE
6	BUILDING & WORKS COMMITTEE		23	MAGAZINE COMMITTEE
7	CANTEEN COMMITTEE		24	NSS COMMITTEE
8	CAREER GUIDANCE CELL		25	PLACEMENT & TRAINING COMMITTEE
9	CENTRAL PURCHASE COMMITTEE		26	PEVENTION OF SEXUAL HARASSMENT CELL / INTERNAL COMPLAINTS COMMITTEE
10	COUNSELLING COMMITTEE		27	R&D, CONSULTANCY COMMITTEE
11	CULTURAL COMMITTEE		28	RTI COMMITTEE
12	CURRICULUM COMMITTEE		29	SPORTS & GAMES COMMITTEE
13	DISCIPLINARY COMMITTEE		30	STUDENT ACTIVITY CENTER (SAC) STUDENT ACTIVITY COUNCIL(SAC)
14	ECO CLUB		31	STUDENTS COUNCIL
15	ENTREPRENEURSHIP DEVELOPMENT CELL		32	TRANSPORT COMMITTEE
16	ETHICS COMMITTEE		33	WEBSITE COMMITTEE
17	EXAMINATIONS AND MALPRACTICES COMMITTEE		34	WOMEN GRIEVANCES & EQUAL OPPORTUNITY CELL

Functions of various committees:

Internal Quality Assurance Cell

- Keeping the vision of the institution in view the cell advises on the following issues.
- Internal Quality Assurance Cell (IQAC) aims at continuous enhancement of quality in teaching-learning process.
- Development and application of quality benchmarks/parameters for various academic and administrative activities of the institution.
- Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes.

- Optimization and integration of modern methods of teaching, learning and evaluation.
- Introduction of Add-on Courses.
- Welfare schemes for staff and students.
- Research and consultancy.
- Promotion of culture and Heritage.
- Organizing seminars, conferences and workshops at different levels.
- Extension and up gradation of Classrooms and Laboratories.

Curriculum Committee

- Curriculum planning involves effective delivery by providing competence, values, good citizenry skills besides making students develop holistically and capable of leading happy and purposeful life to cater the national goals in tune with Vision and Mission of the college.
- Curriculum committee along with Principal and Heads of the Departments (HOD) conducts meetings with to develop strategies for implementation of the curriculum. Each department head conducts departmental meeting before the class work commencement and prepares the academic calendar as per the schedule given by the university along with other activities like conduction of Seminars, Industrial visits, Guest lectures and Workshops. HOD will conduct meeting and allocate the subjects based on various parameters like experience, area of specialization and previous result analysis of the subject. Faculty prepares course files which consist of different parameters. Academic Audit committee will audit the course files.

  Curriculum delivery:
- College implements the lecture delivery by chalk and talk, power point presentations, video lectures/ NPTEL, animated videos, case studies, quiz, study tours, industrial visits.
- College conducts Induction program and bridge courses for 1st year students to help them to understand fundamental concepts in their respective program. Various training and certification programs, add–on courses etc. are conducted to 2nd, 3rd and 4th year students to make them industry ready. Faculty maintain the course register for both theory and lab classes which consists of syllabus, session planner, daily attendance, lecture diary, weekly self-appraisal, result analysis which ensures number of periods, topics covered, etc.
- The curriculum gaps bridged through delivery in the form of content beyond Syllabus and covered during regular classes, Guest Lectures and Workshops. Every fortnight syllabus completion status should be submitted by every faculty.

Academic committee

- Academic committee is centralized (Institute level) committee responsible for regulating and implementing different academic activities and it is headed by Convener along with all Heads

of the Department and the representative from each department acts as Departmental Academic Coordinator is the member of Academic Committee.

- The followings are the duties of the academic committee in order to enhance the efficiency of learning and teaching process.
- To review advice on and develop policies on assessment for learning, teaching and learning quality.
- To review and formulate policies to enhance students‟ learning motivation.
- To review and advise elective subjects to be offered by the concern departments.
- To review and formulate policies to cater for student diversity.
- To monitor and following up students learning outcomes.
- To introduce and promote different teaching methods.
- To set up academic reward systems.
- To promote academic activities and creating an atmosphere of learning.
- To record students' personal data and other learning experience records systematically to help students pursue further studies or develop their career.
- To help and support the teacher's development through holding different professional development activities and orientations.
- Issuing the guidelines to the departments to organizing guest lectures by esteemed personalities from the industry and conducting workshops, organizing events for the improvement of the student's academics and knowledge.
- Encouraging and enhancing the teaching efficiency through the appraisal system.
- Make regulations for sports, extra-curricular activities, and proper maintenance and functioning of the playgrounds and hostels.
- To request the Governing body to encourage the best students with scholarships, fellowships, prizes and medals, and to frame regulations for the award of the same.
- Perform other functions as may be assigned by the Governing Body.

Admissions Committee

- The Admissions Committee is constituted to decide on the Admission related matters of the College.
- Functions and Responsibilities:
- Gathering Information about the process of Admission.
- Reviewing and developing admissions policy and practice.
- Notifying the seats available in various disciplines, Fee Structure, Commencement of admission and the last date.

- The admissions committee tracks the success of the admissions process each year by maintaining a database of pertinent information on the applicants.
- Provide guidance and counselling to parent and students who seek admission.

Examination and Malpractice Committee

- The main function of this Committee is to carry out examinations, publish results and award certificates (provided by the University) to the students who pass the final examinations.
- Functions and Responsibilities:
- To conduct Internal Assessment and External Assessment Examination related all work as per university notifications and ordinance.
- Set principles and guidelines for exam policy
- To notify the schedules of examination to the faculty and students well in advance to prepare themselves for the examinations.
- Preparation of smooth conduct of Examinations, preparation of time – table schedules, Invigilation duty chart, Seat allotment in the Examination halls etc.
- Assigning the duty to staff properly during examination as per duty chart
- To take decision on malpractice cases and award punishments as per the university regulations
- To facilitate the departments for smooth conduction of practical examination and submitting the attendance sheets and awarded marks sheets in closed envelops duly signed by the examiners to the university.

Career guidance cell

- To create awareness among the students about latest trends & needs of Government & Private Sector.
- To prepare the students to overcome challenges of the corporate world.
- To give training and guidance to students on career related matters and assist them in exploring new opportunities
- To activate resources for needy students to apply jobs
- To invite companies to interact with students

Industry Institute Partnership cell (IIPC)

- To develop of a strong technical workforce that would bridge the gap between industry requirements and academic orientation.
- To offer courses on the latest developments in engineering and technology to practitioners.
- To encourage industry and organizations for placement and training of students in industries.
- To conduct industrial training and industrial visit for the students and faculty.
- Motivate the young executives to become successful entrepreneur.

Training and Placement committee

- The Placement & Training Committee shall be primarily responsible for the activities related with campus placements. The responsibilities and functions shall include (but not limited to) the followings.
- To build confidence in students and develop right attitude in them
- Organize Various Training Programs to train the students in the areas of Quantitative Aptitude, Logical Reasoning and Verbal reasoning through the reputed external training organizations and in-house trainers.
- To plan and implement a mechanism for organizing various placement activities so as to provide placements to all the eligible candidates.
- To device and implement mechanism to liaison with good companies for recruitment of the students.
- To organize pool campus drive in campus or off campus.
- To work out and execute any other activity related with the placement of the students.

Library committee

The Library Committee provides a forum for open discussion of matters relating to the library and its services. The Committee will look into the matters relating to library such as procurement or adding up of titles, volumes, learning resources such as e-journals, e-learning material for the college for the academic year.

- To frame general rules for the management of the library.
- To prepare annual budget estimated of the library for submission to the academic Committee.
- To allocate funds, from the sanctioned annual budget of the library, to the Department and Centre of Studies for the purchase of books, journals, and periodicals.
- It invites the requirements from all the departments based on revisions in curriculum as well as students through a requirement register available in the Central Library and in the form of feedback.

Research & Development (R & D) committee

- Research and Development cell has been formed on the recognition of the fact that pioneering research and technological innovations will be critical drivers for the nation’s sustained economic growth,
- It will facilitate the interchange of information, establishment of standards, new techniques and fresh approaches to old problems. The R&D Committee shall focus on providing an atmosphere conducive to research and development for faculty and students.

- To inculcate the concept of research among students & staff by arranging paper presentation competitions
- To organize Short Term Training Programs and workshops regarding Research.
- To support the faculty for writing quality research papers, patents and books
- To provide research atmosphere in the college.
- To arrange talks and interactions by eminent personalities from industry, R&D organizations, Institutions of repute; for the better understanding of research methodology and practices currently followed.
- To help the faculty in submitting the proposals to AICTE,DST/Non Govt. organizations

Entrepreneurship Development Cell (EDC)

- To promote entrepreneurship culture among the students by organizing entrepreneurship awareness programs
- Guide and assist potential entrepreneurs in the process of setting up, growing and managing the new venture
- To create awareness on entrepreneurship among the students.
- To device and implement a mechanism for creating awareness on Intellectual Property Rights (IPR) by motivating student and faculties, organizing workshops / seminars on the same.
- To device and implement a mechanism for patenting of the products or innovations and securing the prototypes/processes/products under intellectual property rights.
- To provide a platform for interaction with entrepreneurs.
- Motivate students to develop their own start-ups.

Counselling committee

- To resolve day to day academic problems of the student
- To monitor the students regularity & discipline
- To enable the parents to know about the performance & regularity of their wards.
- To monitor periodically progress of students in all aspects & ensure their well being
- Identify the students with problems avoid the distress situation
- To train the students in self-control of emotions
- Guiding students to choose right career path for job, higher studies, Entrepreneurship, etc.

Disciplinary Committee

- Disciplinary Committee consists of Senior Faculty members, drawn from all the departments.
- In order to maintain serene, silent clear and studious environment in the college campus and to inculcate discipline in the students, the following Rules and Regulations are formulated:

Ragging (inside & outside the college) is strictly prohibited as per Andhra Pradesh Government Act and any such act is liable for suspension, dismissal and penal punishment.

- Students should neither involve nor encourage in acts of boycott/strike/quarrels, etc.
- Students should strictly follow the college timings and adhere to the dress code prescribed by the college.
- Students should not possess Mobile phones in the premises of college campus. If found, will be ceased and penalized.
- Students should wear I.D. Card as long as they are in the college campus.
- During the interval and lunch time the students are expected to maintain strict discipline and silence while moving in the corridors.
- Students should cooperate to maintain cleanliness in the campus. Students are strongly advised to use dust bins.
- Students should maintain decency and decorum in the class room
- Students should not slink or mess up others items/cash/books/calculators etc., in the class room and college.
- Students are strictly instructed to follow the above listed Rules and Regulations. Any violation in the General Discipline is liable for punishment (such as Suspension from attending college/ Rustication etc.) as decided by the principal based on the recommendations made by the Disciplinary Committee. There lies the responsibility of the students to safeguard the image and reputation of the college, in their own interests.
- **Dress Code:** The following "DRESS CODE" is to be observed in the college premises.
- The boy student should attend the college only with College Uniform,, Formal dress with shirt tuck-in and shoes". The girl student should attend the college with College Uniform "Chudidhar" and "Dupatta".
- The foreign national study in this college should follow Formal Dress Code.

Anti-Ragging Committee

Anti – Ragging committee is one of the key committees that will be involved in designing strategies and action plan for curbing the Menace of Ragging in the institute by adopting an array of activities.

- Displaying the charts and other material stating evil nature, punishment of Ragging and also student's discipline.
- Ensuring compliance with the provision of UGC regulation 2009 at the institute level
- Appoint Anti-Ragging Squads in the institution monitor and oversee the performance of Anti-Ragging Squads in prevention of ragging in the institution creation of cordial atmosphere.

- To take appropriate action in case an incident of ragging is reported by Anti-Ragging Squad of the institute in case of need, reporting to the nearest police station

Anti-Ragging Committee--- Action Procedure

Anti-Ragging Squad will immediately inquire and report any incidence of ragging or abetment of ragging noticed by them immediately to the head of the institute and also to the Anti-Ragging Committee and Immediate action as per the situation will be taken by the Institute Anti Ragging Committee which may include:

- Immediate suspension of involved students
- Sending reinforcements or any help if required.
- Forwarding the report of the incident to the Anti-Ragging Committee of the University.

The Anti-Ragging Committee will examine the report and recommend appropriate punishment to University Anti Ragging Committee for approval (Reporting of the matter to the Civil Police or District Administration or lodging of complaint/FIR will not be done without the approval of University Anti Ragging Committee). If any incident, even minor is reported, in addition to action taken with regard to that incidence the anti-Ragging measures will be reviewed and strengthened with immediate effect.

Grievance and Redressal Committee

The main objective of the Grievance Redressal Committee is to provide simple, smooth and readily accessible procedure for prompt disposal of the day to day genuine grievances of the student and faculty community to maintain a compatible atmosphere at institution level.

- The committee proactively gives an opportunity to everyone in ACE to be listened to so that any feeling of injustice is sorted out promptly.
- The function of the cell is to look into the complaints lodged by any student/faculty, and judge its merit. The Grievance cell is also empowered to look into matters of harassment.
- Anyone with a genuine grievance may approach the department members in person, or in consultation with the class in-charge.
- In case the person is unwilling to appear in self, grievances may be dropped in writing at the letterbox/ suggestion box which are placed at different locations in the institution
- The cases will be attended promptly on receipt of written grievances from the students/faculty. The Grievance Cell will act upon those cases which have been forwarded along with the necessary documents.
- Use positive, friendly ways to resolve the crisis than punitive steps, which disturb the system
- Reassure them that the authorities will be acting impartially and will try to resolve the matter as amicably as possible.

- The Grievance Cell will assure that the grievance has been properly solved in a stipulated time limit provided by the cell
- The cell formally will review all cases and will prepare statistical reports about the number of cases received. The cell will give report to the authority about the cases attended to and the number of pending cases, if any, which require direction and guidance from the higher authorities.

Prevention of sexual harassment cell

- To provide an environment free of gender-based discrimination
- To deal with cases of discrimination and sexual harassment in a time bound manner, aiming at ensuring support services to the victimized
- To facilitate a safe environment that is free of sexual harassment
- Receive and redress complaints received from any member of the College (including students, research scholars, staff, and hostel residents) alleging sexual harassment by another member(s) of the College.
- Conduct formal inquiry and investigate and take decisions upon each complaint and recommend appropriate punishment or action to be taken, by the appropriate authority, in each instance.
- Ensure that all information pertaining either to complaints registered and the proceedings and findings of any inquiries and/or investigations are kept strictly confidential.

Sports and Games Committee

- To recommend to principal to provide facilities for indoor and outdoor games
- To finalize annual calendar of internal and external sports activities
- Prepare budget for proposed activities
- Provide necessary training to the students in different sports activities
- Selection of teams to represent college in intercollegiate tournaments and intramural tournaments.

Student Activity Centre (SAC)

- Functions and Responsibilities:
- To complement the academic experience of the students with extra-curricular programs that promotes social and personal development.
- To advise and assist the student groups in planning various programs.
- To provide as a recreational activity for the students to relax during free time
- To ensure overall development of every student.

NSS Committee

- Motivate, recruit and select students for NSS activities
- To create awareness regarding social service among the students and other members of the college community.
- To organize orientation programs for NSS volunteers, explain them about the concept of social service, and teach them methods and skills required for achieving the objectives of the scheme
- To select service projects on the basis of utility and feasibility
- To ensure cooperation and coordination of community agencies, government departments and non-governmental agencies.

Cultural committee

- To plan and schedule cultural events for the academic year.
- To prepare budget for all cultural events and take necessary steps for its approval.
- To promote and arrange extracurricular activities to bring out the talents of students in performing arts.
- To obtain formal permission from the College authorities to arrange program.

Website Committee

- To administer data acquisition process, maintenance of the institutes website with regards to all activities related to domain & hosting.
- To administer regular updates to the site by securing necessary approval/authentication of the information from the concerned authority before hosting on to the website.
- To collect information & data reports from various academic department & internal bodies like library, NCC, NSS, Training & Placement, Sports, Women Empowerment Cell etc. at regular intervals for necessary and timely updates of the site.

Alumni committee

- To plan and implement a mechanism for alumni feedback and suggestions from as well as schedule and execute Alumni meet.
- Support a strong relationship between alumni association and current students
- To organize interactive sessions with alumni to current students
- Assist current students and alumni in career planning, placement and transitions.
- The committee also tracks and highlights the achievements and successes of alumni so as to provide impetus to the institute and its students.

Women grievances & equal opportunity cell

- To enquire the Complaints received from the female students or staff of the College.

- To deal with the issues of Gender based violence
- To conduct various gender sensitization programmers
- To pay Special Attention on ragging/exploitation related issues.

Central Purchase Committee

- To take indents from the departments/committees/ faculties etc against requirement.
- To supervise all the purchases made in the campus.
- To analyse quotations provided by the logistics department, and provide recommendation for approval by the person having delegated powers.
- To request technical input from relevant staff as required.
- To ensure proportionality, transparency, accountability and fairness in the procurement process
- To frame necessary guidelines to exercise its powers judiciously.

Magazine Committee

- To communicate periodically with the Editor of the College Magazine committee and discuss issues of policies and finances.
- To publish college magazine
- To maintain a record of all interactions with the publications members
- To select the best articles and publish in the magazine.
- To record the achievements of students and congratulates them for their hard work. It also publishes the information on the activities of the college.

Ethics committee

- Propose the Code of Ethics for the Institution.
- Organize ways to communicate the Code of Ethics to all staff and students and enhance its understanding.
- Report breaches of Code of Ethics or non-compliance of ethical practices amongst students, faculty and staff to the Principal.
- Formulate policies for corrective actions.
- Coordinate the periodic revision of the Code of Ethics and related implementation mechanisms.

Transport Committee

- To allot seats for students and faculty in concerned routes and display of list of faculty and students
- To take necessary steps for prevention of un-authorized boarders
- To recommend management for additional transport facilities

- To review the operation of vehicle in all routes
- To review the maintenance of transport vehicles

Hostel Committee

- At the beginning of the academic session the entire data regarding the number of students staying in boys and girls hostel to be obtained for the smooth functioning of the college.
- Conduct sudden visits to the messes and hostels at regular intervals to find out the living conditions, mess facilities etc.
- Conduct meeting with the inmates of both the hostels and have a detailed discussion regarding their accommodation, messing etc.
- In case of any serious drawback report the matter to the management.

ECO Club

- To empower students to participate and take up meaningful environmental activities and projects
- To maintain cleanliness in and around the college campus.
- To protect planet Earth by creating environment awareness
- To motivate students to work in an environment friendly manner which includes use of LPG, paper bag, Gas pipe line, save electricity.
- Sensitize the students to minimize the use of polluting products.
- Organize tree plantation programs, awareness programs and educate students about re-use of waste material & preparation of products out of waste.

Health club

- To provide students with knowledge, skills, capacities, values and the enthusiasm to mould a healthy lifestyle into adulthood.
- To organize Awareness drives in which students are sensitized towards cleanliness.
- Imparting information about various diseases prevailing in a particular duration of year and various preventive steps.
- To create awareness of physical fitness which an important component of wellness.

Building & works committee

- To devise and implement a mechanism for infrastructure development & maintenance of existing as well as new infrastructure especially the buildings for instructions, amenities and administration:
- To work out and execute any other activity related with the buildings & works of the institute. The ultimate objective shall be to provide state-of-art buildings and infrastructure for an ever-evolving academically ambient environment.

- Review and approve all contract documents prior to bidding and start of construction

SERVICE RULES, POLICIES AND PROCEDURES:

Appointment of the human resource shall be approved by the governing body. The qualification and experience required for the post to fill various posts is stipulated by the Governing body based on the norms prescribed by the State Government / Affiliating University / UGC / AICTE. Selection may be done by direct recruitment or promotion of existing staff to fill various positions.

Teaching Staff	
Grade	**Designations**
T1	Principal
T2	Professor
T3	Associate Professor
T4	Assistant Professor

Technical Support Staff	
Grade	**Designations**
TS1	Electrical Engineer, Civil Engineer, System Administrator
TS2	Programmers, Lab assistants, Library assistant, Hardware Technician

Non-Teaching	
Grade	**Designations**
NT1	Administrative officer, Office Superintendent, Accounts officer
NT2	Senior Assistant, Junior Assistant, Cashier, Accountant
NT3	Drivers, Security guard, Maintenance staff
NT4	Attender, Gardener, Sweeper, Scavenger

RECRUITMENT POLICY:

The recruitment policy is designed to ensure qualified candidates are hired for all the positions. Whenever the requirement of teaching/non-teaching staff arises, the same will be informed to the principal which in turn will be forwarded to the management. After taking the approval of the management, Department level selection committee will be constituted with two internal experts and one/two experts drawn from university faculty. For direct requirement advertisement will be released in print & electronic media. The profiles received will be shortlisted and the candidates are informed to attend for a written test and/or interview on scheduled dates. Based on the recommendations of the selection committee, the selection list will be sent to management for approval. Based on the approval by the management, required staff recruitment will be done by the Principal.

The staff recruited will be under probation period for a period of 1 year. In exceptional cases based on decision of the management the probation period may be waived off. During probation if the services of the staff member are not satisfactory he / she may be terminated. On successful

completion of probation period, the staff member will be regularized based on the recommendations of the Head of the department and Principal.

Resignation/Termination/Relieving

- An employee may submit his resignation due to his personal reasons.
- An employee may be terminated from his service if the services of the employee are not satisfactory to the Management/Principal.
- There is no provision to relieve faculty members in the middle of an academic year.
- Employee who secures a job in Government sector or got admission to full-time Ph.D. program in reputed institutions like NIT / IIT / Government State Universities could be relieved without notice period on submission of proof. Women faculty who gets married and want to relocate to husband place will also be relieved.
- At the end of academic year during the month of April the employee may get relieved voluntarily without notice period by submitting the resignation.
- Technical and Non-Teaching staff who wants to get relieved should submit a letter with a notice period of three months.

DRESS CODE FOR THE EMPLOYEES: All the employees should follow the dress code based on designation.

For Faculty:

Male – Formal Dress with tuck-in & Shoe, clean shave with Tie and ID card

Female – Formal Saree with ID card

For Technical & Non-Teaching staff:

The Technical and Non-Teaching staff is assigned with different uniforms. They have to attend to the duties in uniform only. If uniform is not designated to them then they have to attend in formal dress.

WORKING HOURS (w.e.f. 30th October, 2019)

For Faculty and Technical Staff : 9.25 AM to 4.25PM

For Administrative Staff : 8.30 AM to 5.50 PM

Staff members should reach the college and put their thumb impression prior to and after the schedule timings. Staff members are allowed with three late/early permissions per month. After that, every late arrival or early departure will attract half-day loss of pay.

Benefits to Employees

Casual Leaves: An employee can avail one casual leave per month. If not availed in that month, it will be accumulated for the next month(s). An employee can avail a maximum of **12 casual leaves** per academic year.

On Duty: On Duty is granted to an employee when the University / Principal / Head of the Department / or any other competent authority assigns a duty that has to be carried out for the institute/ University. The faculty has to adjust/complete the class/lab work and then can go for on-duty without disturbing the class/lab work.

Deputation of faculty for Training Programs: The faculty will be supported with registration fee, TA, DA to attend different training programs like seminars/workshops/symposiums conducted by reputed institutions / Universities. The request by the faculty must be approved by Head of the Department & Principal. Additional on-Duty to attend conferences for presenting their research papers/attending workshops will be granted for a maximum of 3 days per semester.

School Fee Concession to employee's children: School Fee Concession up to 50% in tuition fee will be given for wards of the employees studying in Aditya Educational institutions (Schools & Junior colleges). The request letter from the employee duly approved by the principal has to be submitted to concerned institution where the ward is studying to avail the same.

Provident Fund: Provident Fund facility will be provided for Professors.

Group Insurance: Employees can avail Group Insurance based on the interest of the employee; a request letter has to be submitted to the Principal for including them in such facility.

Employees State Insurance (ESI): Staff members whose monthly salary is less than Rs. 21,000/- must opt for ESI and can avail the benefits under it.

Summer Vacation: Summer Vacation may be availed by the teaching staff with prior recommendation and approval from the Head of the Department /Principal. This vacation may be shared between the two semester breaks in exceptional cases. Any balance of unused accumulated vacation cannot be carried forward, under any circumstances. Prefix/Suffix weekend or holidays are considered part of the week. Period of Vacation is based on the continuous service of the employee as follows:

Period of Service	Vacation Period
Less than 1 year	1 Week
More than 1 year	2 Weeks
**Additional summer vacation for faculty pursuing Ph.D.	1 Week

To avail this, they have to take prior recommendation from Head, R & D by submitting a letter countersigned by research supervisor/co-supervisor. Technical and Non-Teaching staff, who completed 6 months of service, can avail One Week summer vacation.

INCENTIVES

The staff members who are actively involved in motivating/mentoring the students to attend the university/state/national level competitions for project presentation will be rewarded with cash prize. The cash prize will be decided based on the level of competition and the prize won. Travelling and other allowance will be granted for the same to accompany the students based on employee cadre.

Other benefits: Incentives to Faculty for SWAYAM - NPTEL Web Courses

Category	Fee concession	Elite (Final Score 60+)	Elite Gold (Final Score 90+)	Topper (1%, 2% & 5%)
Faculty	50%	100% Fee concession	100% Fee concession + Rs. 1000/- Cash Prize	100% Fee concession + Rs. 1000/- Cash Prize

- Above incentives are applicable only for those who registered through SPOC only one among Elite Gold and Topper will be considered
- Subsidized lunch facility may be availed by all the employees.
- Hostel facility for unmarried staff and staff quarters for staff with family.
- Free transport facility may be availed by all the employees. Additional transport facility for those who work beyond college hours is also available.
- Unpaid maternity leave can be availed by the female employees. Re-joining to her position is purely based on the available vacancy position only.

Incentives for Publication of Research papers/book chapter/book/articles/patent: To promote research and its allied activities, the faculty is appraised with the following incentives:

International Journal with IF>8.1 or H-Index>226	Rs. 30,000/-
International Journal with 5.1<IF<8 or H-Index 151<HI<225	Rs. 25,000/-
International Journal with 2.1<IF<5 or H-Index 101<HI<150	Rs. 20,000/-
International Journal with 0.6<IF<2 or H-Index 51<HI<100	Rs. 15,000/-
International Journal with <0.5 or H-Index HI<50	Rs. 10,000/-
International Journal (Indexed by Scopus and ESCI)	Rs. 10,000/-
International Journal (Scopus Indexed /WOS indexed)	Rs. 7500/-
Scopus Indexed International Conference Registration (Max.) (Max. of 2 conferences per year per faculty)	Rs. 7500/-
Book chapters indexed in Scopus (Not through conference, only direct submission will be considered)	Rs. 7500/-

National Conference Registration Fee (Max.)	Rs. 4000/-
UGC Indexed Journal (Only for English and Mgmt. Studies)	Rs. 2000/-
PUBLISHING TEXT BOOK	
International Edition by top 60 publishers in the world (List enclosed in Annexure – 1)	Rs. 20,000/-
Indian Edition Book should meet the criteria mentioned in guidelines	Rs. 10,000/-
Publishing book chapter in Non-Scopus Editions	Pro rata basis
Publishing an article in a Magazine	Rs. 2,000/-
PATENTS	
Publication of Patent	Rs. 10,000/-
Grant of Patent	Rs. 10,000/-
Note: Filling charges will be paid by the management and incentives will be given only if the college is an applicant and if the disclosure goes through detailed search process by Novel Patents.	

EMPLOYEE's LEAVE, VACATION, PERMISSION, ON DUTY AND BIO-METRIC SYSTEM POLICY: This policy is w.e.f. from 26-01-2020.

FOR FACULTY AND ADMIN STAFF

LEAVE / VACATION

- Leaves should be treated as a privilege offered to the employee but not as a right.
- Every employee will eligible for 1 CL per month i.e. 12 CLs for the academic year.
- A newly joined employee who works for at least 7 physical working days in a particular month will only be eligible for one CL during that month.
- Leave calendar year starts from 26th May of every year and ends on 25th May of succeeding year or up to the reopening of the college.
- CLs will be calculated on pro-rata basis.
- CL should be prior sanction by the concerned sanctioning Authority.
- CL can be accumulated up to the end of leave calendar year i.e. up to 25th May or up to the reopening of the college of succeeding year. After the end of every leave calendar year any CL credit will be automatically lapsed.
- CL can be availed for half a day also (Forenoon-up to 1 PM and Afternoon from 1 PM) with the approval of respective sanctioning authority.
- If the employee works above 5 hours (continues) after office hours/holidays, he will be eligible for ½ day CCL. The same should be considered based on biometric system only.
- The CCL credit for the employees, if any, shall be utilized within the academic year of every year. Otherwise, it will be automatically lapsed.

SPECIAL LEAVES

- As a good will gesture, maximum of 6 working days special leave along with summer vacation in a year will be sanctioned with full pay to teaching staff who have registered and doing Ph.D. for attending the Ph.D. work, provided relevant documents from the University confirming the guide and a letter from the guide are submitted.
- If the college is declared holiday on account of any bandh, curfew, environmental calamity etc., a special leave will be granted to all employees with full emoluments. But in compensation to his/her absence, the employee has to attend the duties on some non-Working day/Holiday as required and specified by the management.

SUMMER VACATION

(a) Teaching Staff:

- Satisfactory Service with one complete academic year 6 working days
- Satisfactory Service with two complete academic years 12 working days

(b) Admin and Technical staff:

- Satisfactory Service with one complete academic year 6 working days
- Summer vacation for the department staff of Admission Cell, Examination Section and Placement Department shall be eligible to utilize their summer vacation (at a stretch) before December of every year.
- The department heads shall plan the staff summer vacation without disturbing the regular office works. After December, any summer vacation credit for the above department staff will be lapsed.

BIOMETRIC SYSTEM

- Monthly attendance will be calculated strictly on the basis of biometric system only.
- Every employee should put his/her thumb daily 2 times i.e. before attending the duties and before leaving the duties.
- Teaching staff: Duty reporting time at 9-25 AM and leaving time 4-25 PM
- Admin staff: Duty Reporting time at 8-30 AM and leaving time 5-50 PM
- Employees who wish to avail ½ day leave should put his thumb during entering into the campus and leaving from the campus.
- In case employee applied ½ day (first half) leave, he/she put their in thumb before 1 PM
- In case employee applied ½ day (second half) leave, he/she put their out thumb after 1 PM
- Any employee works after 6 PM and before 8 AM he/she put their thumb at Security Gate before leaving/entering. Otherwise, their duty timings will not be considered.

PERMISSIONS

- Staff permissions shall be allowed only for 2 per month (late coming/early going/in between permissions in the working hours).
- Third and fourth late mark will be treated as ½ day CL each if CL credit available, otherwise ½ day LOP each will be applicable.
- Fifth Late onwards every late will be treated as ½ day LOP and will be viewed seriously.
- No permissions will be allowed for ½ day leaves.
- Each permission time is maximum 1 Hour.

ON DUTIES (ODs)

- On Duties (ODs) shall be authorized by both Dept. HOD and Principal concerned. OD register shall be maintained at college level.
- OD letter/s should be approved in advance or within one day from the date of OD by the concerned and the same should be entered in ECAP on the same day. Late approval of ODs strictly rejected and will be treated as LOP.
- Faculty members are permitted to utilize ODs restricted to 4 per semester and 8 per academic year for their professional development (attending seminars, conferences, workshops etc.).
- Anyhow, the faculty member can utilize more than 4 in odd semester subject to continue his services in the even semester.

GENERAL

- After expiry of any kind of sanctioned leave period, employee should report back immediately on the next working day to the authorities of the college concerned.
- Leave should not be recommended and sanctioned without ensuring the alternative arrangements.
- During the Resignation/Termination notice period, employee is not eligible for availing accumulated CLs if any, except one CL of that particular month in order to complete the pending work and facilitate handing over by the reliving date.
- In case, employee avails more leaves during that month they are required to extend their notice period till completion of pending work and handing over process. During this extended period they will not get any remuneration.
- Employee should attend the inspections and in any emergency cases during any kind of leave/vacation period. In that case, no compensation and TA will be granted.
- Late mark should be highlighted with red ink for admin staff (only horizontal line) in the manual attendance register sharp at 8-31 AM by the Administrative Officer of the college.

- Monthly attendance statement shall be checked by Mr. Papayya, AO before forwarding to the Accounts Department.
- Monthly attendance statements shall be submitted on or before 28th of every month to the accounts Department.

FOR CONSTRUCTION, ELECTRICAL, PLUMBING, GARDENING & HOSTEL

- **Construction Dept.:** 2CLs per month & 30 days working in a month. CLs will be carried forward or en-cashed with 1:2 ratio (maximum 2 CLs will be enchased per month).
- **Electrical & Plumbing Dept.**: 2 CLs per month and 30 days working in a month. CLs will be carry forwarded or can be en-cashed with 1: 1 ratio (maximum 2 CLs will be enchased per month).
- **Electrical In-charge:** 4 CLs per month, 30 working days, No CL encasement facility and CLs will be carry forwarded. Electrical Supervisor: 2 CLs per month, 30 working days, No CL encashment facility and CLs will be carry forwarded
- **Gardening Dept.** (Gardeners, watchmen, tractor drivers)
- 2 CLs per month and 30 days working in a month. CLs will not be carry forwarded and No Encashment facility. But CLs will be carried forward to the Tractor Drivers.
- **Hostel Wardens:** 2 CLs per month and 30 days working in a month. CLs will be carried forward.
- **Hostel Ayas & Hostel Watchmen**: One CL per month, 30 working days. CL will not be carried forward.
- Management from time to time can issue amendments and clarifications to the prevailing leave rules.
- They will be chronologically numbered and part of this policy.
- Management reserves the right to suspend/dissolve/review/modify/change part or whole of these leave rules.

It is advised to the employees to be aware of guidelines and conditions for availing leaves and try to accumulate the leaves for any future emergencies

10.1.3 Decentralization in working and grievance redressal mechanism (10)

Aditya college of Engineering believes the culture of participative management in all academic and non-academic activities. To ensure the participative management and decentralization of governance institute follows committee system for implementation of all its decisions. Various committees are set up with the faculty as coordinators and student representatives.

Governance Body	Grievance Redressal Cell
Internal Quality Assurance Cell (IQAC)	Prevention of Sexual Harassment Cell
Academic Administrative Audit Committee	Sports & Games Committee
Curriculum Committee	Student Activity Centre (Sac)
Academic Committee	NSS Committee
Admissions Committee	Canteen Committee
Examination and Malpractice Committee	Cultural Committee
Career Guidance Cell	Website Committee
Industry Institute partnership Cell (IIPC)	Alumni Committee
Placement & Training Committee	Women Grievances & Equal Opportunity Cell
Library Committee	Central Purchase Committee
R&D Committee	Magazine Committee
Entrepreneurship Development Cell (EDC)	Ethics Committee
Counselling Committee	Transport Committee
Disciplinary Committee	Hostel Committee
Anti-Ragging Committee	Eco Club
Health Club	Building & works committee

Meetings with the committee members will be organized once in a semester and all the members will discuss the points of agenda along with other points and finds a solution to the problem, if any. Proposed solution/ resolutions will be documented and submitted to the principal for approval and necessary instructions will be issued to the person/authority concerned for initiation. Institute is having grievances redressal mechanisms such as women grievance and equal opportunity cell, Anti-Ragging committee, Prevention of Sexual Harassment Committee to resolve the problem, if any. The functions of these committees are given here:

Women Grievances and Equal Opportunity Cell:

1. The cell has been initiated with the main objective of creating an effective organizational structure for improving the status of women in the institution.
2. The committee will maintain communication with and advise the institutions administration in planning and monitoring progress for women personnel and students.
3. The committee shall advise the administration about a broad range of issues and concerns that influence women's work lives and status in the institution.
4. The Cell will conduct educational programs regarding gender equity, work life balance etc.
5. The cell will give counselling and provide support services to the female staff and students in the college.

6. The Cell will provide assistance for taking preventive steps in the matter of gender discrimination.
7. The Cell may form / review the guidelines / policy for redressal of the Grievance as required from time to time, which may be in accordance with those issued by Supreme Court and Government Agencies.
8. The Cell will deal with the complaints of any type of harassment or any other of the female students, teaching and non-teaching women staff of the college.
9. The Cell shall process all the individual complaints and take immediate Suitable action.
10. Female students and staff give their Grievance in the form of letter or oral to any of committee member of the cell.
11. After knowing the grievance of the students or staff, the Committee discusses it with concerned HOD and principal to take appropriate solution.
12. Any member found to have harassed another member or guest will be subject to appropriate disciplinary procedure action, including warnings, suspension or termination from roles.
13. The cell will meet at least once every academic year. Other than that; emergency meeting shall be called on receipt of a complaint. The quorum for the meeting should be at least one third of the total members
14. The cell provides appropriate working conditions in respect of work, leisure, health and hygiene to further ensure that there is no hostile environment towards women at work places and that no women employee has reasonable grounds to believe that she is disadvantaged in connection with her employment.
15. The cell promotes educational programs for the workforce regarding gender equality and work-life balance.

Anti-Ragging Committee

To make our college as a Ragging free Institution a team of Anti-Ragging committee of Aditya College of Engineering is constituted with the following guidelines:

1. Allotting duties to the staff members in almost all vulnerable areas in the college (i.e canteen, parking places, play grounds etc) and ensure that staff members are present at any time at all the vulnerable locations to avoid ragging activities.
2. Taking precautionary method by means of continuous monitoring of CCTV Cameras and with the support of student volunteers at various locations like bus stops, play grounds and boarding points to avoid ragging activities.
3. The faculty members can take the help of the student member as and when required and can also involve them in different activities relating to Anti-Ragging Committee.

4. Keep reminding students about the severe actions which could be taken against them if they are found involved or indulged in ragging.
5. Informing students about the affidavit form of Anti-Ragging given by AICTE and encourage students to fill and submit it in time.
6. Wide canvassing about Anti-Ragging should be done by displaying Flex, Posters and Boards in college premises and surrounding areas where there is a chance for ragging.
7. To take all necessary measures for prevention of Ragging inside the Hostels, assigning separate staff members for both Boys hostel and Girl's hostel.
8. To ensure compliance with the provision of UGC regulation 2009 at the institute level.
9. For each ragging incident, the member person is supposed to prepare and submit a complete report including their remarks about the incident for further action to the Head of Anti-Ragging Committee
10. To offer services of counselling and create awareness among the students.
11. Grievance and Redressal committee members are also made as a part of these Anti-Ragging Activities.
12. Active participation of the committees in regular intervals pursuing whether ragging is taking place by surprise visits

Prevention of Sexual Harassment Committee

1. To provide an environment free of gender-based discrimination
2. To deal with cases of discrimination and sexual harassment in a time bound manner, aiming at ensuring support services to the victimized
3. To facilitate a safe environment that is free of sexual harassment
4. Receive and redress complaints received from any member of the College (including students, research scholars, staff, and hostel residents) alleging sexual harassment by other member(s) of the College.
5. Conduct formal inquiry and investigate and take decisions upon each complaint and recommend appropriate punishment or action to be taken, by the appropriate authority, in each instance.
6. Ensure that all information pertaining either to complaints registered and the proceedings and findings of any inquiries and/or investigations are kept strictly confidential.

10.1.4 Delegation of financial powers (10)

Budgets for running the departments are very essential. These are prepared by every department before the commencement of the academic year. In this regard, Heads of the Departments, with senior faculties give the requisition to the principal with regard to stationery, lab requirements,

etc, for which budget allocations are approved by the Principal in discussion with the Management. On the same lines, proposals are sent to the Principal for procuring new equipment for the labs, interactive technologies in the classrooms, conduction of workshops/ conferences/ seminars by the Heads of Departments for which fund allocations are made.

- Principal has powers for purchase/ spending for infrastructure development related to academic activity like addition of classrooms, laboratories, improving other facilities like hostels, food courts etc. As a single signatory power, he can spend up to **Rs.1Lakh** as per the resolutions made in the Governing Body.
- Heads of departments are given imprest money which can be used for all purchases related to consumables, other emergency purchases after obtaining from the Principal. As per the resolution made in the Governing Body the imprest amount is **Rs. 5000/-.**
- Relevant in-charges- Librarian, Physical Education Director, Hostel wardens etc. have powers for purchases of all items related to their departments in consultation with the purchase committee and approval from principal.
- Coordinators of various functional committees have powers of spending money from their respective department accounts for any co- curricular/ extracurricular activities after obtaining relevant permission from the Principal.

10.1.5 Transparency and availability of correct/unambiguous information in public domain (5)

The institute hosted all the relevant information on its own website which is updated as and when required. The institute and programme specific information is made available to all aspirants through the web-site.

College Website URL	www.acoe.edu.in (http://www.acoe.edu.in/)
E-CAP software	http://info.aec.edu.in/acoe/main.aspx (http://info.aec.edu.in/acoe/main.aspx)

The college website and the E-CAP software ensure that all information's pertaining to students, staff in the ERP to ensure that all stake holders are adequately informed about the policies and procedures along with the developments taking place that could affect them. All the information pertaining to the admissions, faculty and supporting staff details, student attendance, internal marks, infrastructural facilities, details of programs, information related to ongoing student training programs, faculty development programs, symposiums etc., are made available in the college internet-based E-CAP software.

All Minutes of Meetings like Academic Council, Department Review Meetings (DRM) and other information are mailed to all HODs for further information to all the faculty members. The relevant

details are available in the departmental files which are readily accessible to all faculties in the departmental file racks.

10.2 Budget Allocation, Utilization, and Public Accounting at Institute level (30)

10.2.1 Adequacy of budget allocation (10)

S.NO.	ASSESMENT YEAR	BUDGET ALLOCATED (Rs.)	ACTUAL EXPENDITURE (Rs.)	ADEQUATE/ NON ADEQUATE
1	2021-22	13,21,70,000	13,19,41,446	ADEQUATE
2	2020-21	11,54,00,000	11,37,24,654	ADEQUATE
3	2019-20	14,72,15,000	14,08,67,946	ADEQUATE

10.2.2 Utilization of allocated funds (15)

ACOE utilized the budgets more than 95% for all the assessment years and the statistics are shown in the table. Utilization of funds is towards the development of infrastructure, establishment of laboratory equipment, renovation of laboratories, procuring the books for central library, establishment of digital library, subscription of E-Journals and E-Books etc.

S.NO.	ASSESMENT YEAR	BUDGET ALLOCATED (Rs.)	ACTUAL EXPENDITURE (Rs.)	PERCENTAGE OF UTILIZATION
1	2021-22	13,21,70,000	13,19,41,446	99.82
2	2020-21	11,54,00,000	11,37,24,654	98.54
3	2019-20	14,72,15,000	14,08,67,946	95.68

Summary of current financial year's budget and actual expenditure incurred (for the institution exclusively) in the three previous financial years.

Total Income at Institute level: For CFY, CFYm1, CFYm2 & CFYm3

CFY: (Current Financial Year),

CFYm1: (Current Financial Year minus 1),

CFYm2: (Current Financial Year minus 2) and

CFYm3: (Current Financial Year minus 3)

Table 1 - CFY 2021-22

Total Income: 124668416				**Actual expenditure (till…): 131941446**			**Total No. Of Students 2585**
Fee	Govt.	Grants	Other sources(specify) Consultancy, Special fee etc.,	Recurring including salaries	Non-Recurring	Special Projects / Any other, specify	Expenditure per student
114290688	0	0	10377728	123735706	8205740	0	51041.18

Table 2 - CFYm1 2020-21

Total Income 112316928.34				**Actual expenditure (till…): 113724653.6**			**Total No. Of Students 2179**
Fee	Govt.	Grants	Other sources(specify) Consultancy, Special fee etc.,	Recurring including salaries	Non-Recurring	Special Projects / Any other, specify	Expenditure per student
103175591	0	0	9141337.34	105523185.6	8201468	0	52191.21

Table 3 - CFYm2 2019-20

Total Income : 152168688				**Actual expenditure (till…): 140867946.7**			**Total No. Of Students 2112**
Fee	Govt	Grants	Other sources(specify) Consultancy, Special fee etc.,	Recurring including salaries	Non-Recurring	Special Projects / Any other, specify	Expenditure per student
141167000	0	0	11001688	121367485.7	19500461	0	66698.84

Table 4 - CFYm3 2018-19

Total Income: 144189006				**Actual expenditure (till…): 180890622**			**Total No. Of Students 2294**
Fee	Govt.	Grants	Other sources(specify) Consultancy, Special fee etc.,	Recurring including salaries	Non-Recurring	Special Projects / Any other, specify	Expenditure per student
134432606	0	0	9756400	108230219	72660403	0	78853.80

Summary of Budget allocation and Actual Expenditure incurred

Items	Budgeted in 2021-22	Actual Expenses in 2021-22 till	Budgeted in 2020-21	Actual Expenses in 2020-21 till	Budgeted in 2019-20	Actual Expenses in 2019-20 till	Budgeted in 2018-19	Actual Expenses in 2018-19 till
Infrastructure Built-Up	170000	150235	50000	45202	65000	62535	55000000	54391272
Library	3000000	2755214	1100000	633810	3700000	3676656	400000	358237
Laboratory equipment	2000000	930256	4500000	4144951	11800000	11622145	10000000	9692548
Laboratory consumables	650000	561235	300000	309934	600000	571334	500000	515106
Teaching and non-teaching staff salary	110000000	110809931	100000000	98795248	110000000	103981811	100000000	93442122
Maintenance and spares	8700000	8666978	6000000	6388034	13350000	13291430	15000000	14143019
R&D	2500000	2738963	2000000	1963760	2000000	1870039	1500000	1469444
Training and Travel	4000000	4109785	1000000	1062717	3500000	3592996	4000000	4001474
miscellaneous	700000	718781	100000	80000	1200000	1160000	1600000	1610000
Others, specify	450000	489951	300000	301200	1000000	1040000	1300000	1267400
Total	**132170000**	**131941452**	**115400000**	**113724654**	**147215000**	**140867946**	**189300000**	**180890622**

10.2.3 Availability of the audited statements on the institute's website (5)

Audited statements of the last 6 Assessment year are available at : http://acoe.edu.in/?p=IQAC#tab11

Assessment Year (2022-23) http://acoe.edu.in/audit_statements/AY2022-23.pdf

Assessment Year (2021-22) http://acoe.edu.in/audit_statements/AY2021-22.pdf

Assessment Year (2020-21) http://acoe.edu.in/audit_statements/AY2020-21.pdf

Assessment Year (2019-20) http://acoe.edu.in/audit_statements/AY2019-20.pdf

Assessment Year (2018-19) http://acoe.edu.in/audit_statements/AY2018-19.pdf

Assessment Year (2017-18) http://acoe.edu.in/audit_statements/AY2017-18.pdf

10.3 Program Specific Budget Allocation, Utilization (30)

Total Income at Institute level: For CFY, CFYm1, CFYm2 & CFYm3

CFY: (Current Financial Year),

CFYm1 : (Current Financial Year minus 1),

CFYm2 : (Current Financial Year minus 2) and

CFYm3 : (Current Financial Year minus 3)

Table1: CFY 2021-22

22630000		Actual expenditure (till…): 22303565		Total No. of Students 252
Non-Recurring	**Recurring**	**Nonrecurring**	**Recurring**	**Expenditure per student**
1680000	20950000	1426826	20876739	89214.26

Table2:CFYm1 2020-21

19460000		Actual expenditure (till…): 19253420		Total No. of Students 208
Non-Recurring	**Recurring**	**Non-Recurring**	**Recurring**	**Expenditure per student**
870000	18590000	868530	18384890	92564.52

Table3::CFYm2 2019-20

21545000		Actual expenditure (till…):21295685		Total No. of Students 286
Non-Recurring	**Recurring**	**Non-Recurring**	**Recurring**	**Expenditure per student**
1910000	19635000	1905867	19389818	74460.44

Table4::CFYm3 2018-19

15725000		Actual expenditure (till…):15564652		Total No. of Students 371
Non-Recurring	**Recurring**	**Non-Recurring**	**Recurring**	**Expenditure per student**
1450000	14275000	1448183	14116769	41953.24

Items	Budgeted in 2021-22	Actual Expenses in 2021-22 till	Budgeted in 2020-21	Actual Expenses in 2020-21 till	Budgeted in 2019-20	Actual Expenses in 2019-20 till	Budgeted in 2018-19	Actual Expenses in 2018-19 till
Laboratory equipment	300000	49870	150000	149856	1500000	1497480	100000	99641
Software	0	0	0	0	0	0	0	0
Laboratory consumable	100000	98983	40000	39851	85000	84792	75000	74219
Maintenance and spares	50000	49678	50000	49623	50000	49135	200000	199273
R&D	1000000	998734	500000	499841	100000	98827	1100000	1099649
Training and Travel	300000	298796	150000	149325	250000	249780	200000	199167
Miscellaneous Expenses	40000	39900	35000	34546	30000	29938	25000	24458
Others Specify (Teaching and Non-teaching salaries, etc.,	20840000	20767604	18535000	18330378	19530000	19285733	14025000	13868245
TOTAL	22630000	22303565	19460000	19253420	21545000	21295685	15725000	15564652

10.3.1 Adequacy of budget allocation (10)

The department of Mechanical Engineering found that the funds allocated were adequate in providing the entire necessary infrastructure along with the laboratory equipment to maintain the quality of teaching-learning process.

S.NO.	ASSESSMENT YEAR	BUDGET ALLOCATED (Rs.)	ACTUAL EXPENDITURE (Rs.)	ADEQUATE/ NON ADEQUATE
1.	2021-22	22630000	22303565	Adequate
2.	2020-21	19460000	19253420	Adequate
3.	2019-20	21545000	21295685	Adequate
4.	2018-19	15725000	15564652	Adequate

10.3.2 Utilization of allocated funds (20)

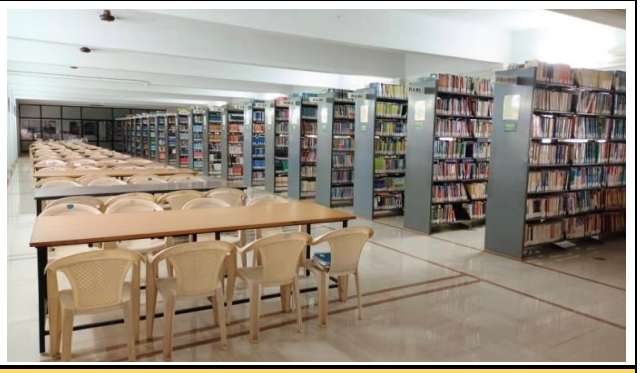
The department of Mechanical Engineering utilized the funds in establishing/renovation of laboratories, procuring equipment, tools, consumables as per the regulations, procuring books and digital resources, providing amenities and facilities wherever necessary for the assessment years.

S.NO.	ASSESSMENT YEAR	BUDGET ALLOCATED (Rs.)	ACTUAL EXPENDITURE (Rs.)	PERCENTAGE OF UTILIZATION
1.	2021-22	22630000	22303565	98.55
2.	2020-21	19460000	19253420	98.94
3.	2019-20	21545000	21295685	98.84
4.	2018-19	15725000	15564652	98.98

10.4 Library and Internet (20)

The central library as well as the department of Mechanical Engineering has necessary learning resources include e-resource and the details are furnished. College is maintaining accessible collection of all resources as a repository. Central Library open from 8.30 AM to 8.30 PM with full internet access and from 9 AM to 4 PM on all Sundays and other holidays. Students can borrow books/CD ROMS, use of internet and other resources, reference books using their library cards and 6 cards will be issued to each student. Additional 2 cards are provided for those who perform well in academics. Physical space of library facility, details of learning resources in library along with list of journals, expenditure are provided.

Carpet area of library (m^2)	902
Reading space (m^2)	500
Number of seats	300
Number of users (issue) per day	250
Number of users per day	300
Total Number of library staff	5
Number of qualified staff	4

Circulation	Reference area
	
Periodical Section	**Issue Section**
	
e-Resources	**Issue Section**
	

Available learning resources	
Number of titles	4,190
Number of volumes	31,208
CDs	2,175
Availability of Digital Library services	Yes
Availability of Digital Library Contents	Yes
E-Journals	60
International/National journals	270

Institutional Membership	DELNET, JGatex, Metzger, INFLIBNET, National Digital Library
Students can access eBooks/journals using internet in the library	Yes

Expenditure on Library books, Magazines / Journals and others

Year	Expenditure						
	Books	N-List	Magazines/journals				E-Journals
			DELNET	Journals and Magazines	AMC S/W	E-Books	
2021-22	52,681	5,900	13,570	1,24,612	15,525	16,93,607	8,44,395
2020-21	8,101	5,900	13,570	20,661	15,525	4,74,681	90,333
2019-20	82,677	5,900	13,570	95,410	15,025	33,55,623	98,002
2018-19	2,35,160	5,900	13,570	80,035	14,927	-	-
2017-18	1,75,626	5,750	11,500	21,077	14,927	-	-

Support to students for self –learning activities:

Students can make use of all resources in the library like books, journals (hard copy and e-journals), CDs, NPTEL materials, intranet etc. Similarly, they can make use of the language lab in the department of English in order to improve their language proficiency and communication skills. All departments can upload resources applicable for their academic programs into the Content Management System available as an intranet service. The day scholars and hostel students can make use of the learning resources like lesson plan, course plan, lecture notes, PPTs, video files, assignment questions, practice problems, solutions, e-books, instructional guides, etc. The resources can be either be downloaded or can be written on CD through wired or Wi-Fi network.

The Digital Library, Video Conference Room, Reading Rooms are available and students can refer any kind of material to carry out their minor/major projects or Engineering Exploration projects. College has subscribed the E-resources of N-List and all the students and staff can login through https://nlist.inflibnet.ac.in/ (https://nlist.inflibnet.ac.in/) and avail the facility. As some of these e-resources are accessible within campus network only, to make them accessible over Internet the accessibility is extended using Knimbus (https://acoe.knimbus.com/user#/home). All the faculty and student can access all the digital resources through this portal using their login credentials.

E-Journals (Full text) -792 titles
American Institute of Physics (http://iam.atypon.com/action/ssostart?idp=https%3A%2F%2Fnlistidp.inflibnet.ac.in%2Fidp%2Fshibboleth&redirectUri=%2F&targetSP=https%3A%2F%2Faip.scitation.org) **[18 titles]**
Annual Reviews (http://iam.atypon.com/action/ssostart?idp=https%3A%2F%2Fnlistidp.inflibnet.ac.in%2Fidp%2Fshibboleth&redirectUri=%2F&targetSP=https%3A%2F%2Fwww.annualreviews.org) **[33 titles]**
Indian Journals (http://iproxy.inflibnet.ac.in:2048/login?auth=shibboleth&url=http://www.indianjournals.com/) **[180+ titles]**
Institute of Physics (https://myiopscience.iop.org/signin?origin=deeplink&entity=https://nlistidp.inflibnet.ac.in/idp/shibboleth&target=https://iopscience.iop.org/) **[46 titles]**
Oxford University Press (https://shibboleth2sp.sams2.oup.com/Shibboleth.sso/Login?entityID=https://nlistidp.inflibnet.ac.in/idp/shibboleth&target=https://shibboleth2sp.sams2.oup.com/shib?dest=https://academic.oup.com/SHIBBOLETH?dest=/journals) **[262 titles]**
Royal Society of Chemistry (https://www.rsc.org/rsc-id/account/checkfederatedaccess?instituteurl=https%3A%2F%2Fnlistidp.inflibnet.ac.in%2Fidp%2Fshibboleth&returnurl=https%3A%2F%2Fpubs.rsc.org) **[29 titles]**
Cambridge University Press (https://shibboleth.cambridge.org/Shibboleth.sso/discovery?entityID=https://nlistidp.inflibnet.ac.in/idp/shibboleth&target=https://shibboleth.cambridge.org/CJOShibb2/index?app=https://www.cambridge.org/core/shibboleth?ref=core) **[224 titles]**

E-Books
Cambridge Books Online (https://shibboleth.cambridge.org/Shibboleth.sso/discovery?entityID=https://nlistidp.inflibnet.ac.in/idp/shibboleth&target=https://shibboleth.cambridge.org/CJOShibb2/index?app=https://www.cambridge.org/core/shibboleth?ref=core) **[1800 titles]**
eLbrary (http://iproxy.inflibnet.ac.in:2048/login?url=https://ebookcentral.proquest.com/lib/inflibnet-ebooks) **[185000+ titles]**
EBSCo Host-Net Library (http://iproxy.inflibnet.ac.in:2048/login?auth=shibboleth&url=http://search.ebscohost.com) **[936 titles]**

E-Books
Hindustan Book Agency (http://iproxy.inflibnet.ac.in:2048/login?auth=shibboleth&url=https://portal.igpublish.com/iglibrary/) **[65+ titles]**
Institute of South East Asian Studies(ISEAS) Books (http://iproxy.inflibnet.ac.in:2048/login?auth=shibboleth&url=https://portal.igpublish.com/iglibrary/) **[382+ titles]**
Oxford Scholarship (http://iproxy.inflibnet.ac.in:2048/login?auth=shibboleth&url=https://oxford.universitypressscholarship.com/) **[1402+ titles]**
Springer eBooks (https://fsso.springer.com/federation/init?entityId=https%3A%2F%2Fnlistidp.inflibnet.ac.in%2Fidp%2Fshibboleth&returnUrl=https%3A%2F%2Flink.springer.com%2Fsearch%3Ffacet-end-year%3D2012%26facetcontent-type%3D%2522Book%2522%26date-facet-mode%3Dbetween%26facet-language%3D%2522En%2522%26facet-start-year%3D2005) **[2300 titles]**
Sage Publication eBooks (https://connect.openathens.net/sagepub.com/15b7e6a9-8721-41fa-86fe-4e2b8fa4c097/login?entity=https://nlistidp.inflibnet.ac.in/idp/shibboleth&target=http://sk.sagepub.com/books/) **[1000 titles]**
Taylor Francis eBooks (http://www.tandfebooks.com/action/ssostart?idp=https%3A%2F%2Fnlistidp.inflibnet.ac.in%2Fidp%2Fshibboleth&redirectUri=https%3A%2F%2Fwww.taylorfrancis.com%2Fsearch%3FisFullAccessOnly%3Dtrue) **[1800 titles]**
Mylibrary-McGraw Hill (http://iproxy.inflibnet.ac.in:2048/login?url=https://ebookcentral.proquest.com/lib/inflibnet-ebooks) **[1124 titles]**

Access E-Journals (DELNET)	
Engineering & Technology (860)	
Automobile Engineering (15)	Chemical Engineering & Technology (46)
Computer Science (160)	Construction & Infrastructure (79)
Electrical and Nuclear Engineering (70)	Electronics & Communication Engineering (41)
General & Civil Engineering (115)	Hydraulic Engineering (44)
Industrial Engineering (46)	Manufacturing (25)
Materials (36)	Mechanical Engineering (40)
Military Sciences (23)	Mining and Metallurgy (20)
Technology (General) (65)	Transportation (35)
Engineering & Technology: only TOC (321)	Management (240)
Education (241)	
Autobiographies & Biographies (123)	
TOTAL= 1464	

S. No	Name of the Journal	Period	Publisher	No. of Issues
1	Advances In Computational Sciences & Technology	Jan-Dec 22	RIP	2
2	Aryabhatta Journal of Mathematics & Information	Jan-Dec 22	DIVA	2
3	Bulletin Of Materials Science	Jan-Dec 22	IAS	6
4	CIGRE India Journal	Jan-Dec 22	DIVA	2
5	Computer Science	Jan-Dec 22	IUP	4
6	Cooling India	Jan-Dec 22	CHARY	12
7	CSIR News	Jan-Dec 22	NISCAIR	24
8	Current Science	Jan-Dec 22	IAS	24
9	Electrical And Electronic Engineering	Jan-Dec 22	IUP	4
10	Electrical India	Jan-Dec 22	CHARY	12
11	Electronics Today	Jan-Dec 22	ET	4
12	Embedded For You	Jan-Dec 22	EMBEDDED FOR YOU	6
13	Energy Future	Jan-Dec 22	TERI	4
14	English Studies	Jan-Dec 22	IUP	4
15	Gyanoday-The Journal Of Progressive Education	Jan-Dec 22	DIVA	2
16	IETE Journals Of Research	Jan-Dec 22	IETE	6
17	IETE Journal Of Education	Jan-Dec 22	IETE	6
18	IETE Technical Review	Jan-Dec 22	IETE	6
19	IN Cold Journal (A Half Yearly Technical Journal Of Indian Commerce)	Jan-Dec 22	DIVA	2
20	Indian Journal Of Technical Education	Jan-Dec 22	ISTE	4
21	Indian Journal Of Chemical Technology	Jan-Dec 22	NISCAIR	6
22	Indian Journal Of Engineering And Materials Science	Jan-Dec 22	NISCAIR	6
23	Indian Journal Of Industrial & Production Engg. .& Tech.	Jan-Dec 22	RIP	2
24	Industrial Safety Chronicle	Jan-Dec 22	NISCAIR	6
25	Innovation In It	Jan-Dec 22	DIVA	1
26	International Journal Of Engineering & Management Research	Jan-Dec 22	VANDANA	6

27	International Journal of Physiology, Nutrition & Physical Education	Jan-Dec 22	AKNIK	2
28	International Journal of Yoga	Jan-Dec 22	MEDKNOW	3
29	International Journal of Yogic, Human Movement & Sports Science	Jan-Dec 22	AKNIK	2
30	Invent Impact Business Research & Reviews	Jan-Dec 22	INVENTI	4
31	Inventi Impact Auto	Jan-Dec 22	INVENTI	4
32	Inventi Impact Civil Engineering	Jan-Dec 22	INVENTI	4
33	Inventi Impact Energy and Power	Jan-Dec 22	INVENTI	4
34	Inventi Impact Software Engineering	Jan-Dec 22	INVENTI	4
35	Inventi Impact Start-Up	Jan-Dec 22	INVENTI	4
36	Journal Of Astrophysics &Astronomy	Jan-Dec 22	IAS	4
37	Journal Of Chemical Science	Jan-Dec 22	IAS	12
38	Journal Of Earth System Science	Jan-Dec 22	IAS	8
9	Journal Of Scientific Temper	Jan-Dec 22	NISCAIR	4
40	Journal On Electrical Engineering	Jan-Dec 22	I-MANGER	4
41	Journal On Electronics Engineering	Jan-Dec 22	I-MANGER	4
42	Journal On English Language Teaching	Jan-Dec 22	I-MANGER	4
43	Journal On Mechanical Engineering	Jan-Dec 22	I-MANGER	4
44	Journals On Education Technology	Jan-Dec 22	I-MANGER	4
45	Kurukshetra (English)	Jan-Dec 22	STAND	12
46	Lighting India	Jan-Dec 22	CHARY	6
47	Mechanical Engineering	Jan-Dec 22	IUP	4
48	Power Engineer Journal	Jan-Dec 22	DIVA	2
49	Power Line	Jan-Dec 22	IIPL	12
50	Praman Journal of Physics	Jan-Dec 22	IAS	12
51	Proceeding (Mathematical Science)	Jan-Dec 22	IAS	4
52	Sadhana Engineering Science	Jan-Dec 22	IAS	8
53	Science Report	Jan-Dec 22	NISCAIR	12
54	Soft Skills	Jan-Dec 22	IUP	4
55	Structural Engineering	Jan-Dec 22	IUP	4

56	Telecommunications	Jan-Dec 22	IUP	4
57	Terr Green	Jan-Dec 22	TERI	12
58	University News	Jan-Dec 22	AIU	52
59	Vidhigya: The Journal of Legal Awareness	Jan-Dec 22	DIVA	2
60	Yojana (English)	Jan-Dec 22	MINISTRY OF I&B	12

10.4.2 Internet (10)

Name of the Internet provider	BSNL (Leased Line)
Available band width	400 MBPS
WiFi availability	Campus/Hostels are Wi-Fi enabled
Internet access in labs, classrooms, library and offices of all Departments	Yes
Security arrangements	Yes Firewall: pfSense (OpenSource) Anti-Virus: Windows Defender

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Annexure I

(A) PROGRAM OUTCOME (POs)

Engineering Graduates will be able to:

1. Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

(B) PROGRAM SPECIFIC OUTCOME (PSOs)

PSO 1: Apply concepts in Electronics & Communication Engineering to design and implement systems in the areas related to Communication, Image processing, VLSI, Antennas and Embedded systems.

PSO 2: Demonstrate proficiency in utilization of software and hardware tools related to Electronics & Communication technologies, while acquiring soft skills like persistence, proper judgment through projects and industrial interactions.

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Declaration

(The head of the institution needs to make a declaration as per the format given)

I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines inforce as on date and the institutes hall fully abide by them.

It is submitted that information provided in this Self-Assessment Report is factually correct. I understand and agree that an appropriate disciplinary action against the Institute will be initiated by the NBA. In case, any false statement/information is observed during pre-visit, visit, post visit and subsequent to grant of accreditation.

Date: Signature & Name

Place: Head of the Institution with Seal