



ADITYA COLLEGE OF ENGINEERING

Approved by AICTE, Permanently Affiliated to JNTUK & Accredited by NAAC
Recognized by UGC under section 2(f) of UGC Act 1956

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

Date: 22/12/2021

ACADEMIC AND ADMINISTRATIVE AUDIT OF THE DEPARTMENT Academic Year: 2020-21

1. Name of the Department: Electrical and Electronics Engineering
2. Year of establishment: 2008
3. Courses offered: UG, PG

Year	UG	PG
2020-21	B. Tech	M. Tech PE & D

4. Number of teaching posts sanctioned, filled and vacant.

	Sanctioned	Filled
Professor	3	3
Associate Professor	8	8
Assistant Professor	21	21
Total	32	32

5. Faculty profile with name, qualification, designation, experience, nature of appointment (confirmed/ probation/temporary):

S. No.	Name	Designation	Qualification	Teaching Experience	Nature of appointment
1	Karri Manoz Kumar Reddy	Professor	M.Tech (Ph.D)	16	confirmed
2	Dr. Adireddy Ramesh	Professor	Ph.D	19	confirmed
3	Dr.Y.Srinivasa Rao	Professor	Ph.D	19	confirmed
4	Dr.Manam Ravindra	Associate professor	Ph.D	9	confirmed
5	A.S.S.Veerendra Babu	Associate professor.	Ph.D	7	confirmed
6	Donepudi Tata Rao	Associate professor	M.Tech	18	confirmed
7	Chaturvedula Uma Phanendra Kumar	Associate professor	M.Tech (Ph.D)	15	confirmed
8	Kambampati Lakshmi	Associate professor	ME	14	confirmed
9	P.Bala Krishna	Associate professor	M.TECH	12	confirmed

10	Babbellapati Sai Gopal Venkata Surya Subrahmanya	Associate professor	M.Tech	10	confirmed
11	Adari G V Chiranjeevi	Associate professor	M.Tech (Ph.D)	8	confirmed
12	K.K.Pavan Kumar	Asst.Prof.	M.TECH	6	confirmed
13	Majji Venkata Kumar Reddy	Assistant professor	M.Tech	10	
14	P.Krishna Jyothi	Asst.Prof.	M.TECH	1.5	confirmed
15	M.Ravi Kumar	Asst.Prof.	M.TECH	5.7	confirmed
16	Manthina Satyanarayana Raju	Assistant professor	M.Tech	4	confirmed
17	Chithaluru Manoj	Assistant professor	M.Tech	2	confirmed
18	Himaja Tata	Assistant professor	M.Tech	6	confirmed
19	Geddam Chakramanikanteswa rarao	Assistant professor	M.Tech	2	confirmed
20	Ponnada Srinivas	Assistant professor	M.Tech	7	confirmed
21	Veeraroutula Nagalakshmi	Assistant professor	M.Tech	4	confirmed
22	Nandipati Rama Surya Rao	Assistant professor	M.Tech	1	confirmed
23	Veeravelli Venkata Balaji	Assistant professor	M.Tech	1	confirmed
24	Nukala Jaswanth	Assistant professor	M.Tech	4	confirmed
25	Mathamsetti Mownika	Assistant professor	M.Tech	4	confirmed
26	B Prakash Yellamelli	Assistant professor	M.Tech	4	confirmed
27	Chekuri Sravanthi	Assistant professor	M.Tech	2	confirmed
28	Daranikota Ravi Kiran	Assistant professor	M.Tech	2	confirmed
29	Veerraju barla	Assistant professor	M.Tech	6	confirmed
30	Rajesh gajjelli	Assistant professor	M.Tech	1.5	confirmed
31	Balu maloth	Assistant professor	M.Tech	3	confirmed
32	Anjani kumar mekala	Assistant professor	M.Tech	5	confirmed

5. Programme-wise Student Teacher Ratio: (Average of 4 Years):

UG: 15:1 and PG: 12:1

6. Number of academic support staff (technical) and administrative staff sanctioned, filled and vacant:

S. No.	Post	Sanctioned Posts	Filled	Actual
1	Laboratory Assistant	6	6	6
2	Clerk (office)	1	1	1
3	Laboratory Attendant	1	1	1
4	Peon	1	1	1
5	Other	-	-	-

7. Thrust areas of research as identified by the department:

1. Power Electronics
2. Artificial Intelligence Techniques
3. Power Systems

8. Special research laboratories sponsored by / created by industry or corporate bodies:

No

9. Faculty Research Conference papers/Posters:

S. No.	Name of the Faculty as Author	Title of the Paper	Name of the Conference	Dates	Organized by with location	ISBN/ISSN Number
1	Dr.A.Ramesh	Model-Order Reduction and Reduced Controller Design Using Routh Approximation and Factor Division Method	3rd International conference on Computing and Communication (IC3-2020)	13 th and 14 th July 2020	Sikkim Manipal Institute of Technology, Sikkim	978-981-15-7394-1
2	Dr.A.Ramesh	Optimization of Fuzzy Inference System Using Genetic Algorithm	3rd International conference on Computing and Communication (IC3-2020)	13 th and 14 th July 2020	Sikkim Manipal Institute of Technology, Sikkim	978-981-15-7394-1

3	Mr.K.Manoz Kumar reddy	Optimal deployment of UPFC based on critical bus ranking using an effective PSO Algorithm	International Conference on Research in Science, Engineering, Technology and Management- 2020	28-Dec-20	Vagdevi college of Engineering, Warangal, Telengana, India	22147853
4	Dr.M.Ravindra	Critical bus ranking constrained Optimal allocation of PMUs for Network Observability	International Conference on Research in Science, Engineering, Technology and Management- 2020	28-Dec-20	Vagdevi college of Engineering, Warangal, Telengana, India	22147853
5	Mrs.T.Himaja	Design and Analysis of AC-DC Power Factor Correction Converter	6 th International Conference for Convergence in Technology (I2CT)	4 th April 2021	Sinhgad Institute of Technology Lonavala and Siddhant Group of Institutes	978-1- 7281- 8876-8
6	Mrs.T.Himaja	Study of soft- starter based Induction generator for Wind Energy Conversion system	2021 Asian Conference on Innovation in Technology (ASIANCON)	28 th to 29 th August 2021	Pimprichinchwa d Education trust, Pimprichinchwa d college of Engineering & Research, Pune	Pune, India
7	Mr. A.S.S. Veerendra Babu	An Improved Efficiency of Solar Photo Voltaic System Applications by Using DC- DC Zeta Converter	National Conference for Postgraduate Research (NCON-PGR)- 2020	9 th December 2020	Institute of Postgraduate studies (IPS), Universiti Malaysia Pahang	Malaysia, Kuantan

10. Faculty Research Publications (Journals):

S. No.	Name of the Faculty Author	Title of the Paper	Name of the Journal	ISBN/ISSN Number	Vol/Month	Index No UGC/SCOPUS
1	Dr.A.Ramesh	Optimal Capacitor Placement - A Bibliometric Survey	Library Philosophy and Practice (e-journal)	1522-0222	June	Scopus
2	Dr.A.Ramesh	Thirteen and Twenty-one level Hybrid H-Bridge Multilevel Inverter Topology for Grid Connected System	International Journal of Grid and Distributed Computing	2005-4262	vol.13/july	Web of Science(ESCI)
3	Dr.A.Ramesh	Study of different techniques to mitigate temporary overvoltage in photovoltaic system	Materials Today Proceedings-Journal/ Elsevier	22147853	November	Scopus
4	Dr.A.Ramesh	Design of sliding mode controller for induction motor drive	Materials Today Proceedings-Journal/ Elsevier	22147853	November	Scopus
5	Dr.A.Ramesh	Circuit analysis and modelling of dual active bridge bidirectional converter	Materials Today Proceedings-Journal/ Elsevier	22147853	November	Scopus
6	Mr.K.Manoz kumar reddy	optimal deployment of UPFC based on critical bus ranking using an effective PSO algorithm	Materials Today Proceedings-Journal/ Elsevier	22147853	April	Scopus
7	Mr.K.Manoz kumar reddy	Design and simulation of high voltage gain current fed fullbridge voltage doubler converter fed multi- level inverter for fuel cell powered electric vehicle	International journal of emerging trends in engineering research	2347-3983	September	Scopus
8	Dr.M.Ravindra	Critical bus ranking constrained Optimal allocation of PMUs for Network Observability	Materials Today Proceedings-Journal/ Elsevier	22147853	April	Scopus

9	Dr.M.Ravindra	RA 123 s: Three metaphor less Algorithms for Economic Load Dispatch Solution	Journal of Electrical Engineering & Technology(Springer)	19750102	October	Web of Science(SCIE)
10	Mr.A.S.S.Veerendra Babu	Modelling and simulation of dual sourced front-end converter for Hybrid electric vehicles	International Journal of Ambient Energy	2162-8246	January	Scopus
11	Mr.A.S.S.Veerendra Babu	Minimization of total harmonic distortion and enhancing voltage level for hybrid multi-level converter with different sources	Advanced control for applications: Engineering and Industrial systems	2578-0727	2(4), e58/5/11/2020	INSPEC (IET) (Proquest)
12	Mr.A.S.S. Veerendra Babu	Hybrid power management for fuel cell/super capacitor series hybrid electric vehicle	International Journal of Green Energy	1543-5083	18(2),26/01/2021	Science Citation Index Expanded (SCIE)
13	Mr.A.S.S. Veerendra Babu	A novel fault-detection methodology of proposed reduced switch MLI fed induction motor drive using discrete wavelet transforms	International Transactions on Electrical Energy Systems	2050-7038	e12820, April	Science Citation Index Expanded (SCIE)
14	Mr.A.S.S. Veerendra Babu	Digital Fuzzy Current Controlled Light-Emitting Diode Driver with Power Factor Correction	International Journal of Photo energy	1687-529X	6618284, March	Science Citation Index Expanded (SCIE)
15	Mr.A.S.S. Veerendra Babu	Wavelet Transform Based Fault Identification and Reconfiguration for a Reduced Switch Multilevel Inverter Fed Induction Motor Drive	Electronics	2079-9292	10(9), January	Science Citation Index Expanded (SCIE)
16	Mr.A.S.S. Veerendra Babu	Modeling and analysis of hybrid multilevel converter for constant DC and fuel cell sources	Energy Storage	2578-4862	e193, August	Web of Science (ESCI)

17	Mr.A.S.S. Veerendra Babu	Performance analysis of distributed power flow controller with ultra-capacitor for regulating the frequency deviations in restructured power system	Journal of Energy Storage	2352-152X	Volume 31, October	Science Citation Index Expanded (SCIE)
18	Mr.A.S.S. Veerendra Babu	Review on automatic generation control strategies for stabilizing the frequency deviations in multi-area power system	International Journal of Ambient Energy	2162-8246	September	Scopus
19	Mr.D.Tata Rao	Novel Repetitive Control Technique for Three Phase Four Wire Shunt Active Power Filter	International Journal of Science Engineering and Advance Technology	2321-6905	Vol. 9, Issue5, May, 2021.	UGC
20	Mrs.K.Lakshmi	Load Flow Solution of Distribution Systems - A Bibliometric Survey	Library Philosophy and Practice (e-journal)	1522-0222	July	Scopus

11. Faculty Patents:

Sl. No.	Name of the Faculty	Patent details	Area of the patents files/ obtained	Status	Filing agency
1	Dr.A.Ramesh	Agri-Tech Farming Revolution For Using PLC Solar Water and Fertilizers Pump with New Altered-Nozzle	Internet of Things(IOT)	Awarded	Intellectual Property India
2	Mr.K.Manoz Kumar Reddy	Safe Driving and Accident Prevention using wireless transmitter Traffic control	Electronic Communication Engineering	Published on 31/07/2020	Intellectual Property India
2	Dr.M. Ravindra	Multimodal fuzzy logic based variable pitch angle control system for wind turbines	Mechanical Engineering	Published on 04/09/2020	Intellectual Property India

3	Dr.M. Ravindra	Machine Learning Based Smart Electric Vehicle Battery Management System	Computer Science Engineering	Published on 06/11/2020	Intellectual Property India
4	Mr.Ch.UP Kumar	IOT Based Automated Green Energy Management of Public Gardens	Electrical & Agricultural	Granted on 2 nd Nov 2021	Australian Government IP Australia
5	Dr.A.Ramesh	Nutritional health assessment and diet plan prediction system for children		Filed on 6/6/2020	Intellectual Property India
6	Dr.A.Ramesh	Body Vitals Monitoring Smart Mobility Assistance Walker		Filed on 12/1/2021	Intellectual Property India
7	Dr.A.Ramesh	Authentication enabled nutritional health assessment system		Filed 27/6/2020	Intellectual Property India

12. Workshops/ Seminars/ Guest Lectures Organized:

S. No.	Title of Event	Name of the Coordinator	Resource Person Details	Date/s of the event
1	A four-day work shop on Bibliometric Analysis using Scopus Data Base	Mr. D.Tata Rao	Dr. Durgesh Nandan, Account Manager, CL Educate	25 -04- 2021
2	Employability Skills required for students	Mr.K.Manoz Kumar Reddy	Sri Winny Patro Co-Founder & CEO of Recordent	27-03-2021
3	A Seminar on "Power Semiconductor Drives and Applications"	Mrs.K.Lakshmi	Dr Ch. Punya Sekhar, Associate Professor, Acharya Nagarjuna University	4-12-2020
4	A Seminar on "Advanced Control Systems and Simulations"	Mr.M.Ravindra	Dr. M. Siva Kumar, Professor, EEE Department, Gudlavelleru Engineering College	12-12-2020
5	A seminar on "Signals& Systems"	Mr.K.Lakshmi	Dr G. Raghu ram, Retired Professor, Jntuk, Kakinada	26-02-021
6	Guest lecture Renewable Energy & Modern Trends in metering	Mr. D.Tata Rao	Mr.TVVDV Prasad, Deputy Executive Engineer, MRT Vigilance, AP Transco	27-11-2020
7	An Online seminar on "High Voltage DC	Mr. M.Ravindra	Mr. B. Bala Anakayya ,Power Operations Engineer,	22-05-2021

	Transmission System”		EmiratesGlobal aluminum, Dubai	
8	A Seminar on “Energy Audit and Conservation management Strategies”	Mr. Ch.U.P.Kumar	Rupa Mandal Post Graduate Engineer Trainee, Racanaa energy Bangalore	2/9/2021
9	Entrepreneur Challenges and Opportunities	Mr.D.Tata Rao	Mr.A.R.Arun Kumar Entrepreneur, Business Trainer, President-Eminent Investment Services	21-10-2021
10	A Seminar on “Power System Operation and Control and Simulations.	Dr.M.Ravindra	Mr. B. Bala anakayya Power Operations Engineer, Emirates Global aluminum, Dubai	28-01-2021

13. Incentives granted for publications/Conferences attended/memberships:

S. No	Name of the teacher	Name of the Publication/Conference/ Membership	Amount Granted
1	Dr.A.Ramesh	Model-Order Reduction and Reduced Controller Design Using Routh Approximation and Factor Division Method	5000
2	Dr.A.Ramesh	Optimization of Fuzzy Inference System Using Genetic Algorithm	3000
3	Mr.K.Manoz Kumar reddy	Optimal deployment of UPFC based on critical bus ranking using an effective PSO Algorithm	3000
4	Dr.M.Ravindra	Critical bus ranking constrained Optimal allocation of PMUs for Network Observability	3000
5	Dr.A.Ramesh	Optimal Capacitor Placement - A Bibliometric Survey	3000
6	Dr.A.Ramesh	Thirteen and Twenty-one level Hybrid H-Bridge Multilevel Inverter Topology for Grid Connected System	3000
7	Dr.A.Ramesh	Study of different techniques to mitigate temporary overvoltage in photovoltaic system	3000
8	Dr.A.Ramesh	Design of sliding mode controller for induction motor drive	3000
	Dr.A.Ramesh	Circuit analysis and modelling of dual active bridge bidirectional converter	3000
10	Mr.K.Manoz kumar reddy	optimal deployment of UPFC based on critical bus ranking using an effective PSO algorithm	3000

11	Mr.K.Manoz kumar reddy	Design and simulation of high voltage gain current fed fullbridge voltage doubler converter fed multi- level inverter for fuel cell powered electric vehicle	3000
12	Dr.M.Ravindra	Critical bus ranking constrained Optimal allocation of PMUs for Network Observability	3000
13	Dr.M.Ravindra	RA 123 s: Three metaphor less Algorithms for Economic Load Dispatch Solution	3000
14	Mr.D.Tata Rao	Novel Repetitive Control Technique for Three Phase Four Wire Shunt Active Power Filter	3000
15	Mrs.K.Lakshmi	Load Flow Solution of Distribution Systems - A Bibliometric Survey	3000
16	Mrs.T.Himaja	Design and Analysis of AC-DC Power Factor Correction Converter	3000

14. Consultancy services provided, name of the teacher/s and income generated:

Nil

15. Details of Industrial/Academic Experts invited as resource persons for Refresher courses, Seminars, Workshops:

1. Dr. Durgesh Nandan, Account Manager, CL Educate
2. Sri Winny Patro Co-Founder & CEO of Recordent.

16. Details of teachers participated in Refresher courses, Orientation courses, Seminars, Workshops, Conferences at national and international levels. (participant, presented paper, chaired the session):

S.No	Name of the Faculty	Name of the Event	Name of the organizer	Place/ Location	Dates/ Duration
1	Dr.A.Ramesh	International Conference on Research in Science, Engineering, Technology and Management-2020	Department of CSE, Vagdevi College of Engineering,	Warangal, Telengana	28/12/2020
2	Dr.A.Ramesh	A two day Online workshop on Recent Technologies in Power Systems	Department of EEE, JNTUK- University college of Engineering Vizianagaram	Vizianagar am	30 31 st August 2021
3	Dr.M.Ravindra	International Conference on Research in Science, Engineering, Technology and Management-2020	Department of CSE, Vagdevi College of Engineering,	Warangal, Telengana	28/12/2020

4	Mr.K.Manoz Kumar Reddy	International Conference on Research in Science, Engineering, Technology and Management-2020	Department of CSE, Vagdevi College of Engineering,	Warangal, Telengana	28/12/2020
5	Mr.K.Manoz Kumar Reddy	3rd International conference on Computing and Communication (IC3-2020)	Sikkim Manipal Institute of Technology, Sikkim	Sikkim	13 th 14 th july 2020
6	Mrs.K.Lakshmi	A two day workshop onRecent technologies in power systems	JNTU- University College of Engineering Vizianagaram	Vizianagar am	30&31st August 2021(2days)
7	Mrs.K.Lakshmi	A one day workshop on Changing Global Perspective on Investments-Careers, Financial Statements and Sustainability	Govindrao Wanjari College of Engineering& Technology	Nagpur	06-12-2021
8	Ch.Manoj	3rd International conference on Computing and Communication (IC3-2020)	Sikkim Manipal Institute of Technology, Sikkim	Sikkim	13 th 14 th july 2020
9	M.V.Kumar Reddy	3rd International conference on Computing and Communication (IC3-2020)	Sikkim Manipal Institute of Technology, Sikkim	Sikkim	13 th &14 th july 2020
10	M.V.Kumar Reddy	A one day workshop on “Smart Grid Technology and Applications”	Dept. of EEE,Indus Institute of Engineering and Technology	Siddipeta, Telangana	4 th Aug 2020
11	M.V.Kumar Reddy	A one day workshop on “Unsupervised Learning with K-Means Clustering”	Dept of ECE,CMR Engineering College	Hyderab ad	4 th Aug 2020
12	M.V.Kumar Reddy	A one day workshop on “Role of IOT in Healthcare during Covid”	Dept of ECE,C.Abdul Hakeem College of Engineering & Technology	Vellore	5 th Aug 2020
13	Mrs.T.Himaja	A Two-Day Online workshop on Recent Technologies in Power System	Department of EEE, JNTUK- University College of Engineering	Vizianagar am	30, 31 August 2021

14	Mrs.T.Himaja	One week Induction Program on Hybrid Energy Storage Systems-DPE	Department of EEE Pragati Engineering College(A)	Surampalem, Andhra Pradesh	19-05-2021 to 25-05-2021
15	Mrs.T.Himaja	6 th International Conference for Convergence in Technology (I2CT)	Sinhgad Institute of Technology Lonavala and Siddhant Group of Institutes	Pune	4 th April 2021
16	Mr.M.Satyanarayana Raju	A Two day workshop on IQ-F-PLC	CVR College of Engineering	Hyderabad	28-10-2021 to 29-10-2021
17	Mr.M.Satyanarayana Raju	A Two day National workshop on "Managing Cyber Security in the New Normal:	Department of Computer Science and Engineering for IOT and Advanced Computing, Tagore University	Bhopal	22-10-2021 & 23-10-21
18	Mr.D.Tata Rao	A Two day National Level Workshop on Transformation Through NAAC Accreditation Process	College of Education & Technical Education Department.	Hyderabad	21 st and 22 nd June 2021
19	Mr.D.Tata Rao	A Two-Day Online workshop on Recent Technologies in Power System	Department of EEE, JNTUK-University College of Engineering	Vizianagar	30,31 August 2021
20	T. Padmaja Rani	One week workshop on Future challenges in renewable energy systems- a research perspective	Shri Vishnu Engineering College for Women	Bhimavaram	13-19th September, 2021
21	Dr.A.S.S. Veerendra Babu	National Conference for Postgraduate Research (NCON-PGR)-2020	Institute of Postgraduate studies (IPS), Universiti Malaysia Pahang	Malaysia, Kuantan	9 th December 2020
22	Mr.M.V.Kumar Reddy	A four-day Online workshop on Bibliometric Analysis using Scopus Data Base	Aditya College of Engineering	Surampalem	26 th April 2021 to 29 th April 2021

23	Mr. Nukala Jaswanth	A four-day Online work shop on Bibliometric Analysis using Scopus Data Base	Aditya College of Engineering	Surampalem	26 th April 2021 to 29 th April 2021
24	Mrs. Mathamsetti Mownika	A four-day Online work shop on Bibliometric Analysis using Scopus Data Base	Aditya College of Engineering	Surampalem	26 th April 2021 to 29 th April 2021
25	Mrs.Chekuri Sravanthi	A four-day Online work shop on Bibliometric Analysis using Scopus Data Base	Aditya College of Engineering	Surampalem	26 th April 2021 to 29 th April 2021
26	Mr. Veerraju Barla	A Seminar on "Intellectual Human values and ethics in technical education"	Aditya College of Engineering	Surampalem	17 th Dec 2020
27	MrsK.Lakshmi	A Seminar on "Intellectual Human values and ethics in technical education"	Aditya College of Engineering	Surampalem	17 th Dec 2020
28	Rajesh Gajjelli	A Seminar on "Intellectual Human values and ethics in technical education"	Aditya College of Engineering	Surampalem	17 th Dec 2020
29	Anjani Kumar Mekala	A Seminar on "Intellectual Human values and ethics in technical education"	Aditya College of Engineering	Surampalem	17 th Dec 2020

17. Awards and Prizes received by students at university, state, national and international level:

S. No	Name of the Student	Achievement	Field/Area/Event
1	Poliseti Harsha Krishna Varaprasad	First place in JNTUK Best Physique presentation On "Automatic Drip Irrigation For Organic Cultivation"	JNTUK Best Physique Intercollegiate Tournament at GMRIT Rajam. Dec. 2021
2	Rangireddy Sai Durga Siva Satya Prasad	Winners of Intramural Volley Ball Tournament	Intramurals_Aditya College of Engineering, Surampalem, AP, Dec. 2021
3	Mummidi Muttayya	Winners of Intramural Volley Ball Tournament	Intramurals_Aditya College of Engineering, Surampalem, AP, Dec. 2021
4	Vakada Saran Kumar	Winners of Intramural Volley Ball Tournament	Intramurals_Aditya College of Engineering, Surampalem, AP, Dec. 2021
5	Sana Vijay Ramesh	Winners of Intramural Volley Ball Tournament	Intramurals_Aditya College of Engineering, Surampalem, AP, Dec. 2021

18. Year-wise results of students at UG and PG:

UG/PG	Year	Appeared	Passed	Pass %
UG	II B. Tech I Sem.	25	9	36
	II B. Tech II Sem.	25	7	28
	IIIB. Tech I Sem.	67	29	43.28
	III B. Tech II Sem.	67	48	71.64
	IV B. Tech I Sem.	28	21	75
	IV B. Tech II Sem.	28	20	71.43
PG	I M. Tech I Sem.	18	12	66.66
	I M. Tech II Sem.	16	12	75

19. Number of students cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give Category wise data.

Year	Civil Services and Defense Services examinations	PGCET	GATE	Others
2020-21	0	2	0	0

20. Student progression/ placement record: Number/ percentage of students proceeded for higher studies Number/percentage of students placed:

Year	% proceeded for higher studies	% of students placed
2020-21	2	64.28

21. Number of faculty who were awarded M.Phil./ Ph.D., D.Sc. / D.Lit.: 1

22. Present details of departmental infrastructural & other facilities with regard to

- a) Central Library Books and Journals, etc, relevant to Department: Titles: 620
 Volumes: 4080
 Journals: 8
- b) Departmental Library (books, journals etc.): 130 & 5
- c) Computers and Internet facilities for staff: 4
- d) Total number of class rooms: 7
- e) Class rooms with ICT facility: 6
- f) Students' laboratory: 12
- g) Research laboratories: 1
- h) Seminar Hall: 1
- i) Smart class room: 6
- j) Any other facility LCDs,

Number of post graduate students getting financial assistance from the university/state / central government: 8

22. Curricular Aspects:

a) Does the faculty take initiative in curriculum development process?

No

b) Is curriculum suitable to make students globally competitive in the subject?

Yes

c) Does the department offer program with sufficient no. of electives options?

Yes

d) While developing curriculum, is feed-back taken from stakeholders viz. Students/Alumni/Parents/Employers considered?

Yes

e) What is the frequency of curriculum revision? (3/4/5 years or more):

3 years

23. Teaching-Learning, Evaluation.

1) Number of teachers preparing & following Academic Teaching plan : 32

2) How many teachers use the following teaching methods:

a) Interactive lecture method using blackboard, Group discussions, Problem solving, Seminars: 32

b) Use ICT methods to support lectures: 32

3) Does the department have any mechanism to ensure that entire syllabus is Completed: YES

4) Do you offer Bridge/Remedial courses? If yes, Give details.

Yes, for students lagging behind the classes we conduct as per the schedule provided.

S. No	Subject Name	Date	Time
1	Electrical Circuit Analysis-II	01-02-2021 To 13-02-2021	3:45 Pm To 5:00 Pm
2	Electro Magnetic Field	15-02-2021 to 27-02-2021	3:45 Pm To 5:00 Pm
3	Electrical Machines-I	01-03-2021 to 13-03-2021	3:45 Pm To 5:00 Pm
4	Power Systems-I	15-03-2021 to 27-03-2021	3:45 Pm To 5:00 Pm
5	Power Electronics	05-04-2021 to 17-04-2021	3:45 Pm To 5:00 Pm
6	Digital Signal Processing	07-06-2021 to 19-06-2021	3:45 Pm To 5:00 Pm
7	Signal And Systems	21-06-2021 to 03-07-2021	3:45 Pm To 5:00 Pm
8	Linear IC Applications	05-07-2021 to 17-07-2021	3:45 Pm To 5:00 Pm
9	Electrical Measurements & Instrumentation	19-07-2021 to 31-07-2021	3:45 Pm To 5:00 Pm
10	Digital Electronics	15-03-2021 to 27-03-2021	3:45 Pm To 5:00 Pm
11	Power Systems-II	05-04-2021 to 17-04-2021	3:45 Pm To 5:00 Pm
12	Electrical Machines-II	07-06-2021 to 19-06-2021	3:45 Pm To 5:00 Pm
13	Renewable Energy Systems	01-03-2021 to 13-03-2021	3:45 Pm To 5:00 Pm
14	Digital Control Systems	01-02-2021 To 13-02-2021	3:45 Pm To 5:00 Pm
15	Electric Drives	15-02-2021 to 27-02-2021	3:45 Pm To 5:00 Pm
16	Power System Analysis	01-03-2021 to 13-03-2021	3:45 Pm To 5:00 Pm
17	Micro Processors And Micro Controllers	15-03-2021 to 27-03-2021	3:45 Pm To 5:00 Pm

5) What is the method for conducting internal evaluation?

There is complete transparency in the internal assessment. The criterion adopted is as directed by the university.

- At the beginning of the semester, faculty members inform the students about the various components in the assessment process during the semester.
- The internal assessment test schedules are prepared as per the university and communicated to the students well in advance.

- To ensure proper conduct of formative tests, two invigilators are assigned to each hall. Evaluation is done by the course handling faculty members within three days from the date of examination.
- The corrected answer scripts at random are verified by HOD to ensure the standard evaluation process.
- The corrected answer papers of the students are distributed to them for the verification by the students and any grievance is redressed immediately. The marks obtained by the students in internal assessment tests are displayed on the department notice board.
- The marks obtained by the students in internal assessment tests are uploaded periodically on the university web portal along with their attendance.
- Noting the values in observation and validating the theoretical aspects student must submit lab record regularly.
- Day to day performance of the students is assessed for every experiment which includes regularity, performance, viva and the promptness in submitting the record.
- For lab courses, the marks/grade scored by the student for each experiment is indicated in the observation/record. The independent learning, practical approach to the real-time applications is tested by viva-voice for laboratory courses.
- For the quality of the projects, the evaluation is done by Project Review Committee along with the project guides.
- To ensure the transparency and curb the mall practices the university has introduced jumbling system and theory end examinations are conducted at a center other than the college.
- The end examination for the laboratory and projects shall be conducted with internal and external examiner appointed from the other colleges as decided by the University.

24. Teacher Performance:

1) Whether the performance of the teacher assessed by the students? If yes, are the feedback reports analyzed and suggestions communicated to teachers? :

Yes

2) Number of teachers getting remarks from students:

a) Very Good: 19 b) Good: 11 c) Average: 2

2) Whether any facility available in the department to get suggestions from students on infrastructural facilities available in the department?

Yes

4) Are the suggestions received from students used for improvement of facilities? :

Yes

5) Do teachers submit Self-Appraisal Reports? Are these reports appraised by HOD and forwarded to the management with comments? :

Yes

25. List the distinguished alumni of the department (At least 10)

S. No	Name of the Alumni	Alumni Details	Roll No
1	K.V.V.S.M.Nikhil	Graduate Engineer, HYOSEONG ELECTRIC	17MH5A0202
2	AvantsaBalajiSairamManohar	Graduate Engineer, DXC Technologies	17MH5A0204

3	A B S Manohar	Graduate Engineer, MAGIK MINDS	17MH5A0204
4	B SaiVenkatesh	Graduate Engineer, UNITED INDUSTRIES	17MH5A0205
5	BeerakaVenkatesh	MEC Solutions	17MH5A0206
6	BillakurthiRajkumar	Graduate Engineer, NIFCO	17MH5A0207
7	ChallaVeerababu	Graduate Engineer, NIFCO	17MH5A0210
8	Penke Uma Devi	Asst. Engineer, HI-TECH ARAI	17MH5A0211
9	DachepalliPrudhviraj	Asst. Engineer, MEC Solutions	17MH5A0212
10	DachepalliPrudhviraj	Asst. Engineer, NIFCO	17MH5A0213
11	DadisettiSwamin	Asst. Engineer, NIFCO	17MH5A0213
12	D.B.V.S.M.Raju	HYOSEONG ELECTRIC	17MH5A0214
13	GalidevaraSrihari	NIFCO	17MH5A0216

26. Give details of student enrichment programmes (special lectures /workshops / seminar) involving external experts.

S. No.	Date/s of the event	Special lectures /workshops / seminar	Resource Person Details
1	26 th April 2021 to 29 th April 2021	A four-day work shop on Bibliometric Analysis using Scopus Data Base	Dr. Durgesh Nandan, Account Manager, CL Educate
2	4-12-2020	A Seminar on “Power Semiconductor Drives and Applications”	Dr Ch. Punya Sekhar, Associate Professor, Acharya Nagarjuna University
3	03-11-2020& 04-11-2020	A Two day Seminar on “Electro Magnetic Fields& Electrical Circuit Analysis”.	Dr. S. Rama Reddy, Retired Professor, University of Jerusalem, Chennai
4	12-12-2020	A Seminar on “Advanced Control Systems and Simulations”	Dr. M. Siva Kumar, Professor, EEE Department, Gudlavelleru Engineering College
5	27-11-2020	A Seminar on Renewable Energy resources & Modern Trends	Mr.TVV DV Prasad, Deputy Executive Engineer, MRT Vigilance, AP Transco
6	27-03-2021	Employability Skills required for students	Sri Winny Patro Co-Founder & CEO of Recordent
7	21-10-2021	Entrepreneur Challenges and Opportunities	Mr.A.R.Arun Kumar Entrepreneur, Business Trainer, President-Eminent Investment Services
8	16-02-2021	A seminar on Different types of motor and its applications	Mr. B. Giri Kiran, Senior Electric Design, Marathon Electric India Pvt Ltd.
10	17-12-2020	A Seminar on “Intellectual Human values and Professional ethics in technical education”	Dr.J.Hanumant Rao, Professor, ACET. Surampalem

27. State the Innovative practices adopted in the department.

1. Department event club activities.
2. Department news letter.
3. Innovative projects.

28. High light the participation of students and faculty in extension activities.

S.No.	Name of the Candidate	Achievement	Field/Area/Event
1	B. Krishna Chaitanya	Participated in COVID-19 Quiz	VIBA Vaagdevi College of Engineering
2	Bodda Sri Shanmuka Sai Pavan Abhishaik	Gold medal in JNTUK Power lifting	JNTUK Power lifting Intercollegiate Tournament at GMRIT Rajam
3	C. Ravibabu	Participated in COVID-19 Quiz	VIBA Vaagdevi College of Engineering
4	D. Kameswara Rao	First Prize in Paper Presentation	Digital Veda 2K21 Aditya College of Engineering & Technology
		Automation Anywhere Certified Advanced RPA Professional	Automation Anywhere
		Certification on Automation Anywhere University Certified Essentials RPA Professional	Automation Any where, THUB, Aditya College of Engineering, Surampalem
		Certificate of Energy Literacy	Energy Literacy Drive of the Energy Swaraj Foundation in Association with Aditya college of Engineering, Surampalem
		Certification of Participation of Neural Hack 2021	Neural Hack-Season-5_Virtusa_Graduate Talent Program
5	G. Abhishek	Participated in COVID-19 Quiz	VIBA Vaagdevi College of Engineering
6	G.Venkata Narayana Murthy	Participated in Paper Presentation on “Plastic Solar cell technology”	Digital Veda 2K21 Aditya College of Engineering & Technology
7	K. Ganga Sunny	Participated in National level Technical Quiz Competition	Sparkle Minds Jntuk, Vizianagaram
8	K.Ganesh	Participated in COVID-19 Quiz	VIBA Vaagdevi College of Engineering
9	K.N.G. Arun Pratap	Participated in COVID-19 Quiz	VIBA Vaagdevi College of Engineering
10	Kommana Haridatta	Certification on AWS Cloud Practitioner	AMAZON,THUB_Aditya College of Engineering,

			Surampalem
11	KuncheNanibabu	Certification on MTA Security Fundamentals	Microsoft, THUB_Adiya College of Engineering, Surampalem
12	M.Saitarun	First Prize in Poster Presentation	Digital Veda 2K21 Aditya College of Engineering & Technology
13	MummidiMuttayya	Winners of Intramural Volley Ball Tournament	Intramurals_Adiya College of Engineering, Surampalem
14	P. Sai Krishna	Participated in COVID-19 Quiz	VIBA Vaagdevi College of Engineering
15	P.Shanti	Participated in Paper Presentation on “Super Charger”	Digital Veda 2K21 Aditya College of Engineering & Technology
16	Poliseti Harsha Krishna Varaprasad	First place in JNTUK Best Physique	JNTUK Best Physique Intercollegiate Tournament at GMRIT Rajam
17	R.Pushpa Kumari	Participated in Paper Presentation on “E-Bomb”	Digital Veda 2K21 Aditya College of Engineering & Technology
18	R.S.R.Manikanta	Participated in Poster Presentation on “ Smart Solar Inverter”	Digital Veda 2K21 Aditya College of Engineering & Technology
19	Rangireddy Sai Durga Siva Satya Prasad	Winners of Intramural Volley Ball Tournament	Intramurals_Adiya College of Engineering, Surampalem
20	S.Jagadeeswari	Participated in COVID-19 Quiz	VIBA Vaagdevi College of Engineering
21	Sana Vijay Ramesh	Winners of Intramural Volley Ball Tournament	Intramurals_Adiya College of Engineering, Surampalem
22	T.Neelima	First Prize in Project Expo	VEDA 2021, Aditya college of Engineering, Surampalem
		Participated in COVID-19 Quiz	VIBA Vaagdevi College of Engineering
23	Thippana Surendra	Certification on MTA Security Fundamentals	Microsoft, THUB_Adiya College of Engineering, Surampalem
24	Vakada Saran Kumar	Winners of Intramural_Volley Ball Tournament	Intramurals_Adiya College of Engineering, Surampalem
25	Vasamsetti Satya Sai Kumar	Certification on AWS Cloud Practitioner	AMAZON, THUB_Adiya College of Engineering, Surampalem

29. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

a. Strengths:

1. The Department has qualified and dedicated faculty
2. Well established state-of-art laboratories and infrastructure
3. Memberships in Professional bodies like ISTE

b. Weaknesses:

1. Predominantly students come from guided education system hence resistance to adapt to outcome based education system

2. This branch is not among the top preferences of the Students because of their limited knowledge about the Industry.

c. Opportunities:

1. R & D activity and Institutional collaboration

2. Increasing scope for entrepreneurship development.

3. Funding from DST in the areas of Renewable Energy.

4. More number of opportunities can be foreseen as Kakinada is identified as one of the first 20 smart cities in the country.

5. Students can settle not only in core side industries but also in software.

d. Challenges:

1. Changing trends in recruitment patterns.

2. Poor language skills and other employability skills among the students.

30. Future plans of the department:

a. Long term plans-

1. To encourage innovation in the department.

2. To have a strong industrial interaction.

3. To encourage all faculties to get involved in research programs leading to acquire Doctoral degree, hence better expertise.

b. Short term plans –

1. To improve the student's academic performance towards better results and campus placements.

2. To acquire accreditation from the National Board of Accreditation – NBA.


Head of the Department


Dean (Academics & Administration)


Convener
Academic Committee


Principal
PRINCIPAL
Aditya College of Engineering
SURAMPALEM-533 437



ADITYA COLLEGE OF ENGINEERING

Date: 27/12/2021

INFORMATION FOR ACADEMIC AND ADMINISTRATIVE AUDIT OF THE DEPARTMENT Academic Year - 2020-21

1. Name of the Department: Electronics and Communication Engineering
2. Year of establishment: 2008
3. Courses offered: UG, PG

Year	UG	PG
2020-21	B.Tech	M.Tech (ES)

4. Courses introduced during last 4 years: Zero
5. Details of programs discontinued, if any, with reasons: VLSI
6. Number of teaching posts sanctioned, filled and vacant.

Designation	Sanctioned	Filled
Professor	01	01
Associate Professor	02	02
Assistant Professor	05	05
Total	08	08

7. Faculty profile with name, qualification, designation, experience, nature of appointment (confirmed/probation/temporary):

S.No	Name	Designation	Qualification	Experience		Nature of Appointment
				Teaching	Industrial	
1	Mr Guttula Rama Krishna	Professor & HoD	Ph.D	18	0	REGULAR
2	Mr.Geesala Veerapandu	Professor	M.TECH (Ph.D)	18	6	REGULAR
3	Dr G Meenakshi Sundaram	Professor	Ph.D	16	0	REGULAR

4	Dr U S B K Mahalakshmi	Professor	M.TECH (Ph.D)	12	0	REGULAR
5	M Kishore Kumar	Professor	M.TECH (Ph.D)	17	0	REGULAR
6	Mr Mannepally Venkateswarlu	Associate Professor	M.TECH (Ph.D)	15	0	REGULAR
7	Mr Pudi Ramesh	Associate Professor	M.TECH	16	0	REGULAR
8	Mr Mandipudi Raghunath	Associate Professor	M.S	10	0	REGULAR
9	Mr S Anil Nagendra	Assistant Professor	M.TECH	3months	1	REGULAR
10	Dr R Raman	Associate Professor	Ph.D	8	0	REGULAR
11	Mr Kalesh Busa	Associate Professor	M.TECH	9	0	REGULAR
12	Mr S Vinay Kumar	Associate Professor	M.TECH	12	0	REGULAR
13	Mrs Chavvakula Janaki Devi	Associate Professor	M.TECH	12	0	REGULAR
14	Mr Ketha Mahesh Babu	Associate Professor	M.TECH	9	0	REGULAR
15	Mrs Yenugula Sugandhi Naidu	Assistant Professor	M.TECH	9	0	REGULAR
16	Mr Pulipati Vndk Kishore	Assistant Professor	M.TECH	6	0	REGULAR
17	Ms P Mamathadevi	Assistant Professor	M.TECH	1	0	REGULAR
18	Ms T Phanimala	Assistant Professor	M.TECH	3	0	REGULAR
19	Mr Venneti Kiran	Assistant Professor	M.TECH	8	0	REGULAR
20	Mrs Pandiri Jhansi	Assistant Professor	M.TECH	9	0	REGULAR
21	Mr S Siva Prasad	Assistant Professor	M.TECH(PhD)	5	3	REGULAR
22	Mr K V Bala Rama Krishna	Assistant Professor	M.E	8	0	REGULAR
23	Mr K Chandra Sekhar	Assistant Professor	M.TECH	4	0	REGULAR
24	Ms Gampala Nissi Evangelim	Assistant Professor	M.TECH	3	0	REGULAR
25	Ms Saithana Parameswari	Assistant Professor	M.TECH	3	0	REGULAR
26	Mr Yadala Ravindra Babu	Assistant Professor	M.TECH	3	0	REGULAR
27	Mrs Papisetti Santhi	Assistant Professor	M.TECH	3	0	REGULAR
28	Ms Bonda Lakshmi	Assistant	M.TECH	3	0	REGULAR

		Professor				
29	Mrs Rameswarapu Sridevi	Assistant Professor	M.TECH	2	0	REGULAR
30	Mrs Meka Vidya	Assistant Professor	M.TECH	2	0	REGULAR
31	Mrs P Dedeepya	Assistant Professor	M.TECH(Ph.D)	5	0	REGULAR
32	Mr Siva Nagu T	Assistant Professor	M.TECH	2	0	REGULAR
33	Ms Pyla Saimata Sailaja	Assistant Professor	M.TECH	2	0	REGULAR
34	Dr G Jaffino	Assistant Professor	Ph.D	4	0	REGULAR
35	Mr M Sai	Assistant Professor	M.TECH	1	0	REGULAR
36	Mrs T Krishna Mohana	Assistant Professor	M.TECH	5	0	REGULAR
37	Mr K. Sangeet Kumar	Assistant Professor	M.TECH	3	0	REGULAR
38	Mr P.Bhupa Reddy	Assistant Professor	M.TECH	7	0	REGULAR
39	Mr M. Madhu Manikya Kumar	Assistant Professor	M.TECH	6	0	REGULAR
40	Ms K.Suma	Assistant Professor	M.TECH	7	0	REGULAR
41	Mrs K. Vijaya Kumari	Assistant Professor	M.TECH	5	0	REGULAR
42	Mr Bokka Jagadeesh Babu	Assistant Professor	M.TECH	4	0	REGULAR
43	Mr Banthu Suresh	Assistant Professor	M.TECH	NIL	0	REGULAR
44	Mr Lingampelli Geetesh	Assistant Professor	M.TECH	NIL	0	REGULAR
45	Mr T Gopala Krishna	Assistant Professor	M.TECH	NIL	0	REGULAR
46	Mr CH Srikanan	Assistant Professor	M.TECH	6 MONTHS	0	REGULAR
47	Mr G Narasimha Rao	Assistant Professor	M.TECH	0	0	REGULAR
48	Mr S Dileep Kumar	Assistant Professor	M.TECH	0	0	REGULAR
49	Dr. K Kanthamma	Assistant Professor	M.TECH(Ph.D)	16	0	REGULAR
50	Dr. A Anil Jitendra Prasad	Assistant Professor	M.TECH(Ph.D)	10	0	REGULAR

8. Programed-wise Student Teacher Ratio: (Average of 4Years)

UG. = 1:15, P.G. = 1:12

9. Number of academic support staff (technical) and administrative staff sanctioned, filled and vacant:

Sr. No.	Posts	Sanctioned posts	Filled	Actual
1	Laboratory Assistant	03	05	6
2	Clerk (office)	0	0	1
3	Laboratory Attendant	0	0	1
4	Peon	0	0	1
5	Other	0	0	2

10. Thrust areas of research as identified by the department:

Digital Image Processing
Wireless Communications
Antennas

11. Special research laboratories sponsored by / created by industry or corporate bodies.

Texas Instruments –Innovation Laboratory

12. Publications:

Sl.No	Name of the author	Title of Paper	Name of journal	ISBN/ISSN number	Year of Publications
1	Dr.G. Rama krishna	Epoxy based wideband antenna by 1*2 grid pattern and detection of cancer by composites	Science direct	2214-7853	Dec 2020

2	Dr.G. Rama Krishna	Wearable transceiver with composite test-beds for breast cancer diagnosis	Materials Today Proceedings	2214-7853	Jan 2021
3	Dr.G. Jaffino	Adaptive rag bull rider a modified self adaptive optimization algorithm for epileptic seizure detection with deep stacked autoencoder using electroenceplogram	Elsevier	0346-251X	February 2021,
4	Dr. G.Jaffino	Rag-Bull rider optimization with deep recurrent neural network for epileptic seizure detection using electroencephalogram	SCI Journal	1751-9675	2020
5	Kishore Mumar M	Wideband Antenna Array for C Band Applications	Design Engineering	0011-9342	June 2021,
5	Dr. R.Raman, ,	Evaluate and Design the Mni Hexagon – Shaped Monopole Antenna Controller to Minimize Losses in the Unit	Nuclear Energy Science and Power Generation Technology	2325-9809	2021
6	Dr.G.Meenakshisundaram,	Evaluate and Design the Mni Hexagon – Shaped Monopole Antenna Controller to Minimize Losses in the Unit	Nuclear Energy Science and Power Generation Technology	2325-9809	2021
7	Dr.G.MeenakshiSundaram	Improved Learning Environment for Mathematics Course Thorough Blend Learning	Annals of R.S.C.B	1583-6258.	2021

13. Conferences :

S.No	Authour	Title of Paper	Conference Name	Year
1	N. Sravani	Successive Approximation Compressor for Efficient FIR Filters in C-MOS VLSI Design	6th International Conference for Convergence in Technology (I2CT-2021)	2nd to 4th April 2021
2	K. Siva Nagendhra	“Implementation of a MIMO space-time coded wireless communication system) ,	INCET2021	2021
3	Dr.G.Jaffino	“FPGA Implementation of Epileptic Seizure Detection Using ELM Classifier”	International Conference on Biosignals, Images and Instrumentation , held at SSN College of Engineering, Chennai.	2021
4	Dr.G.Jaffino	Grey Wolf Optimization with Deep Recurrent Neural Network for Epileptic Seizure Detection in EEG signals”	International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT).	2021
5	Rajesh Babu Nemani	A Review on FPGA Based Traffic Sign Detection”	6th International Conference for Convergence in Technology (I2CT-2021)	DOI: 2nd to 4th April 2021

14. Incentives granted for publications/Conferences attended/memberships:

Sr. No.	Year	Name of the teacher	Name of Publication/Conference/ Workshop / Membership	Amount Granted
1	2021	Dr.G. RAMA KRISHNA	EPOXY BASED WIDEBAND ANTENNA BY 1*2 GRID PATTERN AND DETECTION OF CANCER BY COMPOSITES	5000
2	2021	Dr.G. RAMA KRISHNA	Wearable transceiver with composite test-beds for breast cancer diagnosis	5000
3	2021	Dr.G. Jaffino	ADAPTIVE RAG BULL RIDER A MODIFIED SELF ADAPTIVE OPTIMIZATION ALGORITHM FOR EPILEPTIC SEIZURE DETECTION WITH DEEP STACKED AUTOENCODER USING ELECTROENCEPHALOGRAPH	5000
4	2021	KISHORE KUMAR M	Wideband Antenna Array for C Band Applications	5000
5	2021	Dr. G.Jaffino	Rag-Bull rider optimization with deep recurrent neural network for epileptic seizure detection using electroencephalogram	5000
6	2021	Dr. R.Raman, Dr.G.Meenakshisundaram,	Evaluate and Design the Mni Hexagon – Shaped Monopole Antenna Controller to Minimize Losses in the Unit	5000
7	2021	Dr.G.MeenakshiSundaram	Improved Learning Environment for Mathematics Course Thorough Blend Learning	5000
8	2021	N. SRAVANI	Successive Approximation Compressor for Efficient FIR Filters in C-MOS VLSI Design	3000
9	2021	K. Siva Nagendhra	“Implementation of a MIMO space-time coded wireless communication system) ,	3000
10	2021	Dr.G.Jaffino	“FPGA Implementation of Epileptic Seizure Detection Using ELM Classifier”	3000
11	2021	Dr.G.Jaffino	Grey Wolf Optimization with Deep Recurrent Neural Network for Epileptic Seizure Detection in EEG signals”	3000
12	2021	Rajesh BabuNemani	A Review on FPGA Based Traffic Sign Detection”	3000

15. Consultancy services provided, name of the teacher/s and income generated:

Sr. No.	Year	Name of the teacher	Nature of consultancy	Funds generated (In Lakh)
1	2021	M.Venkateswarlu	Autoatic on off LED street light system devolpent	0.525

16. Details of Industrial/Academic Experts invited as resource persons for Refresher courses, Seminars, Workshops.

S.No	Training Course	Company/Industry	Resource Person	Date	No. of Students attended
1	VISION ENHANCEMENT	UAE	Mr.Jignesh Diwanji, Operations Head,UAE	28/08/2020 to 02/10/2020	276
2	Seminar on "SPACE TECHNOLOGY"	ISRO	Dr. Vara Prasad, Senior Scientist, Retired ISRO	15/08/2020	276
3	APSSDC Python	APSSDC	Mr.P Hanuman Kumar, Mr.N.Subbareddy, Mr.Ch.Ramesh	19/04/2021 to 03/05/2021	60
4	Siemens APSSDC training	APSSDC	Mr.Siva Ramakrishna	03/09/2021 to 15/09/2021	40
5	ADITYA WORLD SPACE WEEK CELEBRATIONS	ISRO	1)Y.Siva Prasadh, Former Scientist, Isro 2) D S Raghu Vamsi Aerospace Engineer & Researcher,France	04/10/2021 to 10/10/2021	276

Guest Lectures conducted

S.No.	Name of the FDP	Name of the faculty Coordinator	Dates/Duration	Resource Person Details	Year	No. of Participants
1	Image processing	Dr. G.Jaffino	26-08-2020	Dr.Ch.Srinivasa Rao	2020	80
2	Microwave Engineering	Mr. G.Veera Pandu	16-02-2021	Dr. NV Rao	2021	90
3	Wireless Communications	Dr.U.S.B.K.Mahalakshmi	02-08-2020	Dr. K. Dhana Lakshmi	2020	85

17. Details of teachers participated in Refresher courses, Orientation courses, Seminars, Workshops, Conferences at national and international levels. (participant, presented paper, chaired the session)

S.No.	Name of the faculty	Name of the Event	Name of the organizer	Place/ Location	Dates/ Duration	Remarks
1	Dr.G.Jaffino	Data Science Using Phyton	Amrita College of Engineering and Technology, Nagerkovil	Online	17 th -25 th June 2020/ 9 Days	Workshop
2	Dr.G.Jaffino	India International Science Festival 2020	Council Scientific and Industrial Research	Online	22 nd – 25 th December 2020	Conference
3	Dr.G.Jaffino	Young Scientist Conference 2020	Council Scientific and Industrial Research	Online	22 nd – 24 th December 2020	Conference
4	Dr.R.Raman	Industrial Applications and Career Oppurtunities(IACO-2020)	Arjun College of Technology, Coimbatore.	Online	5 th -6 th June 2020/ 2 Days	Webinar
5	Dr.R.Raman	Accelerating Commercializationof SIC Power Electronics	St. Joseph's Institute of Technology, Chennai	Online	21 st June 2020/1 Day	Webinar

6	Dr.R.Raman	Multi-Robot Motion Planning: The Easy, The Hard and The Uncharted	St. Joseph's Institute of Technology, Chennai	Online	26 th June 2020/ 1 Day	Webinar
7	Dr.R.Raman	Virtual Reality	St. Joseph's Institute of Technology, Chennai	Online	14 th July 2020/1 Day	Webinar
8	Dr.G.Jaffino	Fourth IEEE International Conference on Electrical, Computer & Communication Technologies	Velalar College of Engineering and Technology	Erode	15 th -17 th September 2021	Conference
9	Dr.G.Jaffino	International Conference on Advances in Electrical Computing, Communication & Sustainable Technologies	Shri Shankaracharya Technical Campus Bhilai	Bhilai	21-22 Apr, 2021	Conference
10	B.Jagadeesh babu	International Conference on Advances in Computer Engineering and Communication Technology	Aditya College of Engineering & Technology	Online	22-23 Oct ,2021	Conference
11	P.Ramesh	Internet of Things	National Institute of Technical Teachers Training&Research (Chandigarh)	Online	15 th -19 th Aug,2020	Workshop
12	M.Madhu Manikya Kumar	Two day Workshop on Research using SCOPUS/SCI Database	Oriental Institute of Science and Technology, Bhopal	Online	9 th -10 th July,2021	Workshop
13	Y. Sugandhi Naidu	Two day Workshop on Research using SCOPUS/SCI Database	Oriental Institute of Science and Technology, Bhopal	Online	9 th -10 th July,2021	Workshop
14	Y. Sugandhi Naidu	Two day Workshop on Emerging trends in technology with focus on Artificial Intelligence &	Bharath Institute of Engineering and Technology	Online	28 th -29 th May,2021	Workshop

		Machine Learning & Nano Electronics				
15	K.Sangeeth Kumar	Two day Workshop on Emerging trends in technology with focus on Artificial Intelligence & Machine Learning & Nano Electronics	Bharath Institute of Engineering and Technology	Online	28 th -29 th May,2021	Workshop
16	K.Sangeeth Kumar	Two day Workshop on Research using SCOPUS/SCI Database	Oriental Institute of Science and Technology, Bhopal	Online	9 th -10 th July,2021	Workshop
17	K.V.Balarama krishna	International Conference on Artificial Intelligence & Information Technology	School of Computational Studies	Online	29 th September,2021	Conference
18	Kalesh Busa	International Conference on Artificial Intelligence & Information Technology	School of Computational Studies	Online	29 th September,2021	Conference
19	P.Mamatha Devi	International Conference on Advances in Computer Engineering and Communication Technology	Aditya College of Engineering & Technology	Online	22-23 Oct ,2021	Conference
20	G.Veera pandu	International Conference on Advances in Computer Engineering and Communication Technology	Aditya College of Engineering & Technology	Online	22-23 Oct ,2021	Conference
21	Kalesh Busa	International Conference on Efficient Design of	School of Computational Studies	Online	29 th September,2021	Conference

		Technology				
22	Ch. Janaki Devi	MEMO & Beam forming Antenna for Wireless & Satellite Applications	IEEE	Online	26 th -30 th Apr,2021	Conference

FDPs

S.No.	Name of the faculty	Name of the Event	Name of the organizer	Place/ Location	Dates/Duration
1	P. Ramesh	Advanced Technologies in wireless Communication Networks	GMR IT,RAJAM	Online	2 nd -6 th Aug,2021
2	Madhu Manikya Kumar	IPR awareness & Patent Prosecution	Oriental Institute of Science and Technology, Bhopal	Online	13 th -17 th July,2021
3	Dr. R.Raman	Trends and Challenges in the Design & Implementation of Planar Antennas	Sreenidhi Institute of Science and Technology	Online	1 st -5 th Sep,2021
4	Dr. R.Raman	Wearable Devices	Saintgits College of Engineering	Online	11 th -15 th Jan 2021
5	P.Mamatha Devi	Digital VLSI Design and Verification	Bangalore Institute of Technology	Online	23 rd -27 th Aug,2021
6	P.Mamatha Devi	Emerging Materials, Sensors & Devices for IOT & Industry	AICTE	Online	23 rd -27 th Aug,2021
7	P. Mamatha Devi	Embedded Systems	APSSDC	Online	16 th Aug- 4 th Sep,2021
8	T. Phanimala	Digital VLSI Design and Verification	Bangalore Institute of Technology	Online	23 rd -27 th Aug,2021
9	K. Balarama krishna	Recent Advances in Signal Processing	ATAL	Online	2 nd -6 th Aug,2021
10	K. Balarama krishna	Sensors Technology	ATAL	Online	7 th -11 th Dec,2021
11	Dr.G.Jaffino	Deep Learning and Its Applications	Lakireddy Balireddy College of Engineering	Online	15 th - 20 th June 2020/ 6 Days

12	G. Veerapandu	Internet Of Things	Rajagopal Polytech College	Online	23 rd -27 th Aug,2021
13	G. Veerapandu	Challenges in Adapting Machine Learning towards 5G/6G Communications	Valluri Nageswararao Vignana Jyothi Institute of Engineering & Technology	Online	9 th -13 th Aug,2021
14	G. Veerapandu	MELSEC	CVR College of Engineering, Hyderabad	Online	15 th -16 th June,2021
15	Ch. Janaki Devi	RF Energy Harvesting Antenna Design for Wireless Body area network, Design, Development and Challenges	Sri Vasavi Engineering College	Online	23 rd -27 th Aug 2021
16	Y .Sugandhi Naidu	Emotional Intelligence	ATAL	Online	7 th -11 th June,2021
17	Y. Sugandhi Naidu	Machine Learning applications in Micro, Nano, VLSITechnologies	ATAL	Online	21 st -26 th June,2021
18	Y. Sugandhi Naidu	Role of Mathematics in Latest Engineering Trends	Lords Institute of Engineering	Online	4 th -10 th June,2021
19	M.Sai	MATLAB & Simulink in Engineering Education	APSSDC	Online	10 th -11 th June,2020
20	T. Krishna Mohana	Control Systemsand Sensors Technology	ATAL	Online	2 nd -6 th Nov 2020
21	T. Krishna Mohana	Emotional Intelligence	ATAL	Online	7 th -11 th June,2021

NPTEL courses

S.No	Name Of The Faculty	Name Of The Course	Dates/Duration	Equivalent FDP Days	Year
1	K.V. Balarama krishna	ANALOGCIRCUITS	Mar 2019/8 Week	1	2020

2	U.S.B.K. Mahalakshmi	DIGITALCIRCUITS	Jul-Oct 2019/12 Week	1.5	2020
3	Jhansi Pandiri	Microprocessorand MicroController	Mar 2019/8 Week	1	2020
4	Sugandhi Naidu Y	Microprocessorand MicroController	Mar 2019/8 Week	1	2020
5	Kalesh Busa	Aademic Writing	July-Oct/15 Week	2	2020
6	P. Ramesh	DIGITAL CIRCUITS	Jul-Oct 2019/12 Week	1.5	2020
7	B. Jagadeesh Babu	DIGITAL ELECTRONICS CIRCUITS	Jan-Apr/12 Week	1.5	2020
8	M. Sai	DIGITAL CIRCUITS	Jul-Oct 2019/12 Week	1.5	2020
9	Dr.G.Jaffino	Digital Image Processing	Jul-Oct 2019/12 Week	1.5	2020
10	M.Venkateswarlu	Principals of Signals and Systems	Jan-Apr/12 Week	1.5	2020
11	K.V. Balaramakrishna	Principals of Communication Systems-I	Jan-Apr/12 Week	1.5	2020
12	G. Veerapandu	Principals of Signals and Systems	Jan-Apr/12 Week	1.5	2020
13	K. Chandrasekhar	Analog Communication	Jul-Oct 2018/12 week	1.5	2020
14	K. Chandrasekhar	LDPC and polarcodes in 5G Standard	Jan-Feb2019/4 week	0.5	2020
15	K. Chandrasekhar	Principles of Modern CDMA/MIMO OFDM Wireless Communications	Aug-Oct 2019/8 week	1	2020
16	K. Sangeeth Kumar	Fundamentals of Semiconductor Devices	Jan-Apr/12 Week	1.5	2020
17	T. Krishna mohana	DIGITAL CIRCUITS	Jul-Oct 2019/12 Week	1.5	2020
18	K.Mahesh Babu	Principals of Communication Systems-I	Jan-Apr/12 Week	1.5	2020
19	K.Mahesh Babu	Fundamentals of Semiconductor Devices	Jan-Apr/12 Week	1.5	2020

18. Year-wise results of students at UG andPG:

UG/PG	Year	Appeared	Passed	Pass %
UG	II-I	221	65	29.41
	II-II	221	58	26.24
	III-I	225	129	57.33
	III-II	224	142	63.39
	IV-I	159	93	58.49
	IV-II	161	132	81.98

19. Diversity of Students :(Year-wise)

Name of the Programme	% of students within the State	% of students outside the State	% of students from other countries
UG	99.6	0.2	0.2
PG	100	0	0

20. Number of students cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give Category wise data.

Year	NET/SET	GATE	Other Exams	Total
2020-21	0	1	2	03

21. Student progression/ placement record: Number/ percentage of students proceeded for higher studies Number/percentage of students placed:

Year	% proceeded for higher studies		% of students placed
	UG to PG		
2020-21	19.8		48.54

22. Diversity of Faculty:

Teaching faculty	%
from the same university	75.9
from other universities within the State	11.1
from other States	13.0
from outside the country	-

23. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. /D.Lit.:

Ph.D : 02

24. Present details of departmental infrastructural & other facilities with regard to

a) Central Library Books and Journals, etc, relevant to Department	6887
b) Departmental Library (books, journals etc.) :	745
c) Computers and Internet facilities for staff :	10
d) Total number of class rooms :	12
e) Class rooms with ICT facility :	12
f) Students' laboratory :	06
g) Research laboratories :	01
h) Seminar Hall :	01
i) Smart class room :	01
j) Any other facility LCDs,	12

25. Number of post graduate students getting financial assistance from the university/state / central government :

GATE:00, Fee Reimbursement: M.Tech -06.

26. Curricular Aspects:

a) Does the faculty take initiative in curriculum development process?

NO

b) Is curriculum suitable to make students globally competitive in the subject? If yes, substantiate.

Yes, the subjects & labs what the students are studying and doing are much related to the global competitions.

c) Does the department offer program with sufficient no. of electives options.

Yes, during the final year of the course work, students are welcome to prefer elective subjects of their area of interest as a choice.

Two electives are offered during the IV B.Tech. I Semester and another two electives during the IV B.Tech. II Semester

d) Is feed-back taken from stakeholder's viz. Students/ Alumni/ Parents/ Employers considered on curriculum aspects?

Yes

e) What is the frequency of curriculum revision? (3/4/5 years or more)

3 Years and prescribed by the University only as we are an affiliated institute to JNTUK.

27. Teaching-Learning, Evaluation.

a) Number of teachers preparing & following Academic Teaching plan

100%

b) How many teachers use the following teaching methods:

i. Interactive lecture method using blackboard, Group discussions, Problem solving, Seminars.

100%

ii. Use ICT methods to support lectures.

100%

iii. Does the department have any mechanism to ensure that entire syllabus is completed?

Yes

iv. Do you offer Remedial courses? If yes, Give details.

Yes, We are offering remedial classes to the students who are having the backlogs in every semester and the details for the academic year 2020-21 are given below

S.No	Year	Semester	No. of Students attended
1	II year	II sem.	30
2	III Year	I Sem.	85
3	III Year	II Sem.	112
4	IV Year	I Sem.	30
5	IV Year	II Sem.	34
Total			291

v. What is the method for conducting internal evaluation?

The criterion adopted is as directed by the University. All the students are familiar about the transparency in internal assessment. The internal marks for the student is awarded by taking sum of best mid and the corresponding on-line. The internal assessment is made by the University. In spite of all the above aspects of the students, their behavioral aspects, independent learning and communication skill etc. are also taken into consideration during the assessment of a student during the lab marks evaluation.

28. Teacher Performance:

a) Whether the performance of the teacher assessed by the students? If yes, are the feedback reports analyzed and suggestions communicated to teachers?

Yes

b) Number of teachers getting a) Very Good 40 b) Good 13

c) Average 01 remarks from students.

d) Whether any facility available in the department to get suggestions from students on infrastructural facilities available in the department?

Yes

e) Are the suggestions received from students used for improvement of facilities?

Yes

f) Do teachers submit Self-Appraisal Reports? Are these reports appraised by HOD and forwarded to the management with comments?

Yes, yearly Faculty appraisal forms are collected

29. List the distinguished alumni of the department

S.No	Roll No	Name of the Alumni	Alumni details
1	17MH1A04B0	DASARI NARENDRA BABU	DXC Technologies, 301, Begumpet Flyover, Kundanbagh Colony, Begumpet, Hyderabad, Telangana 500016
2	17MH1A04B0	DASARI NARENDRA BABU	CAPGEMINI, 55-156, EPIP Zone Whitefield Rd, Phase 2, Brookefield, Bengaluru, Karnataka 560066
3	17MH1A0449	PEKETI MANI VINODH	TCS CodeVita Blocks SDB1 & SDB2, Sy. No. 255(Part Ibrahimpatnam Mandal, Adibatla, Telangana 501510
4	17MH1A04B0	DASARI NARENDRA BABU	
5	17MH1A0426	PRUDHVI BABU KOMMU	Infosys INFYTQ, Survey No. 210 ISB Road, Lingampally Rd, Manikonda Jagir, Telangana 500032
23	17MH1A04A7	ADHIKARI VENKATARATNAM NAIDU	MINDTREE, #150, EPIP 2nd phase, KIADB Export Promotion Industrial Area, Whitefield, Bengaluru, Karnataka 560066
7	17MH1A04C4	KATARI VEERA CHAKRADHAR	ZenQ, Madhapur, Telangana 500081
8	17MH1A0407	MURALI KRISHNA GOOTURU	Covalense Digital, Madhapur, Telangana 500081
9	17MH1A04E2	PENMETSA MAHIMA GAYATHRI	TCS NQT, Blocks SDB1 & SDB2, Sy. No. 255(Part Ibrahimpatnam Mandal, Adibatla, Telangana 501510
10	17MH1A04E4	POLAVARAPU PADMASRI	
11	17MH1A04E2	PENMETSA MAHIMA GAYATHRI	Xenon Stack, Plot No. C-184, Sixth Floor 603 , Sector 75 Phase VIIIA, Punjab 160071
12	17MH1A0407	GOOTURU MURALI KRISHNA	Tech Mahindra, Survey No. 62/1 A, Qutubullapur Mandal Bahadurpally Village District, Hyderabad, Telangana 500043
13	17MH1A04E5	R. VENKATA KRISHNA	SURYA TECH SOLUTIONS, Flat no-401 Bhavani plaza apartments, ECIL Cross Roads, opp. bus stop, Moula Ali, Secunderabad, Telangana 500062

14	18MH5A0402	KOTA SRINU	PROLIFICS, Madhapur, Telangana 500081
15	18MH5A0418	MARRI JOSHNA VEERA MAHALAKSHMI	Qspiders, 560019, Basappa Layout, Gavipuram Extn, Kempegowda Nagar, Bengaluru, Karnataka 560019
16	17MH1A04D4	VEERA VENKATA VARA PRASAD NALLURI	
17	18MH5A0414	MEESALA SIVA SHANKAR	VPG SENSORS, Oragadam Industrial Corridor, Mathur, Tamil Nadu 631604
18	17MH1A0479	MUTHYALA KRISHNA SAILAJA	Global Edge, Global Village, RVCE Post, Mysore Rd, Bengaluru, Karnataka 560059
19	17MH1A0426	KOMMU PRUDHVIBABU	PWC , Pine Valley 4th Floor, Village, Intermediate Ring Rd, Embassy Golf Links Business Park, Challaghatta, Bengaluru, Karnataka 560071
20	17MH1A0435	M. SRINIVASA RAGHURAM	Infosys, Survey No. 210 ISB Road, Lingampally Rd, Manikonda Jagir, Telangana 500032
21	17MH1A04A7	ADHIKARI VENKATARATNAM NAIDU	Accenture, DLF IT Park, Block 1C, 1/124, 1st Floor, Shivaji Gardens, Mount Poonamallee Rd, Chennai, Tamil Nadu 600089
22	17MH1A04D6	NERELLA SOWMYA	Netenrich PYTHON, Door #3-131 Goraganamudi Village, Palakoderu, Bhimavaram, Andhra Pradesh 534244
23	17MH1A0424	KODURI L S M BHAVANI	BCT, Bahwan CyberTek Pvt. Ltd. 148, Rajiv Gandhi Salai (OMR) Okkiyam Thoraipakkam
24	17MH1A04C7	GANGA VEERRAJU KORUMILLI	Wipro, Papanna Street, Off, St Marks Rd, Bengaluru, Karnataka 560001
25	17MH1A04C7	KORUMILLI GANGA VEERRAJU	TCS InfraMind, Blocks SDB1 & SDB2, Sy. No. 255(Part Ibrahimpatnam Mandal, Adibatla, Telangana 501510
26	17MH1A0403	ATHKURI CHANDHANAASHRE	Pentagon Space, 765, 8th Cross Rd, Govindaraja Nagar Ward, MC Layout, Vijayanagar, Bengaluru, Karnataka 560040
27	17MH1A0419	G SAI NAGA LAKSHMI GAYATRI	Infosys, Survey No. 210 ISB Road, Lingampally Rd, Manikonda Jagir, Telangana 500032
28	17MH1A0423	K. NAGABABU	PURPLE TALK, Survey No 9, Watermark Technopark, Plot No 11, 12th floor, Whitefields, Kondapur, Telangana500084
29	17MH1A0445	NUNNA SRUTHI	COGNIZANT, Plot No 129 to 132, 1 & 2nd Floor, Block 1, Dlf Building, Gachibowli, Hyderabad - 500032, Near Aphb Colony
30	17MH1A0449	MANI VINODH PEKETI	AMAZON, Jayabheri Orange Towers, Jairaj, Rd Number 2, Financial District, Nanakaramguda, Telangana 500032

30. Give details of student enrichment programs (special lectures / workshops / seminar) involving external experts.

S. No.	Program Name	Date	Resource Person with designation	% of students present
1	Guest lecture on image processing using MATLAB	26-11-2020	Dr.Ch.Srinivasarao Professor ,JNTUV	80
2	A Seminar on MEMS for Microwave Engineering	16-02-2021	Dr.N.V.Rao, Professor ,JNTUK	85
3	Workshop on HFSS Antenna Design	19-01-2021&20-01-2021	Dr U.V.Ratna kumari, Professor, JNTUK	90
4	A online Seminar on Wireless Sensors	2-02-2021	Dr.K.Dhanalakshmi, JNTUK	85
5	Seminar on Internet of Things	21-11-2020	Mr.Sudheer Certified trainer T-Hub	75
6	Online seminar on Semiconductor technology	22-12-2020	G.Murali,ECIL, Senior Engineer	80
7	Certification course on CCNA	04-12-2020	Mr.A.Chaitnya Certified trainer T-Hub	66
8	Master Class on FPGA	19-04-2021	M.Mariappan, Director, Pantech Solutions	89
9	Workshop on Image processing using MATLAB	12-04-2021	M.Mariappan, Director, Pantech solutions	80
12	Workshop on image and signal processing using machine learning	20-12-2021	Dr. I. Santhi prabha, Professor, JNTUK	85
13	Seminar on "Inculcating Human Values and Ethics in Technical Education	13-12-2020	Dr.J.Hanumant rao,Professor, ACET, Surampalem	78

31. State the Innovative practices adopted in the department.

- Remedial Classes & Makeup Classes for non-meritorious students.
- Proctor System for close monitoring of the student personal & academic activities.
- Sending monthly attendance, SMS, fee details, academic reports to the parents.
- Regular training on Soft skills, Reasoning, Aptitude.
- Series of workshops on latest technologies through Skyfi Labs, APSSDC, JKC, Campus Connect etc.

32. Highlight the participation of students and faculty in extension activities.

Students & Faculty are actively participated in Blood Donation, Swatch Barath, NSS.

33. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

a. Strengths:

- Most Preferred branch among students for good career pursuits.
- Good number of best rankers are opting the branch.
- Good track record of Student placements.
- Knowledge, Experienced and Qualified faculty.
- Good infrastructural facilities.
- Well established state of the art Laboratories with latest configuration and software.
- Established Texas Instruments & Intel Galileo Labs to conduct Lab experiments beyond the academic curriculum prescribed by university.
- Amicable Management ever ready to provide required infrastructural and any other required support to the department.

b. Weaknesses:

- R & D and Consultancy associated activities need to be improved.
- Collaborative programs and sponsored projects to be improved.

c. Opportunities:

- The graduates of ECE have multiple opportunities of placements both in hardware and software industry as well as in public sector.
- With focus on increasing indigenous production of IT hardware, the government of India has recently identified Kakinada as Smart city and also fab-city is proposed to be set up in Kakinada which will provide huge Job opportunities for the students of ECE.

d. Challenges:

- Heavy competition as more number of colleges are established in the state and in almost all colleges, ECE branch is offered huge intake.
- Career orientation towards high-end applications, such as NASA, SAC etc. is limited.

34. Future plans of the department:

a. Long term plans-

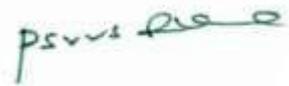
- To shape the department as a Centre-of-Excellence.
- To host international seminars and conferences.

b. Short term plans

- To strive and improve student pass percentage and placement.
- To groom students to become global leaders in Engineering & Technology.
- To motivate the students to do more of industry related projects and provide them necessary support.



Head of Department



Dean (Academic & Administration)



Convener
Academic Committee



Principal

PRINCIPAL
Aditya College of Engineering
SURAMPALEM-533 437





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.

Date: 26/12/2021

INFORMATION FOR ACADEMIC AND ADMINISTRATIVE AUDIT OF THE DEPARTMENT Academic Year: 2020-21

1. Name of the Department: Civil Engineering

2. Year of establishment: 2014

3. Courses offered: UG

Year	UG
2014-2021	B. Tech

4. Courses introduced during last 4 years:

Year	UG	Specialization
NIL	NIL	NIL

5. Details of programs discontinued, if any, with reasons:

Year	PG	Specialization
NIL	NIL	NIL

6. Number of teaching posts sanctioned, filled and vacant.

	Sanctioned	Filled
Professor	2	1
Associate Professor	3	2
Assistant Professor	7	7
Total	12	10

7. Faculty profile with name, qualification, designation, experience, nature of appointment (confirmed/ probation/temporary):

S. No	Name	Designation	Qualifications	Teaching/Research	Experience in
1	Mr.V.Tamilselvan	Associate Professor	ME	7.5	Teaching
2	Dr. Swamy nadh	Associate Professor	Ph.D	4.5	Teaching
3	B.Ragava maheedhar	Assistant professor	M.Tech	4.6	Teaching
4	Mr. Ch.Naresh	Assistant professor	M.Tech	2.4	Teaching
5	SD.Nizamuddin Khadri	Assistant professor	M.Tech	0.5	Teaching
6	U.Praveen kumar	Assistant professor	M.Tech	0.5	Teaching
7	Miss Sangita De	Assistant professor	M.Tech	2	Teaching
8	Mr.Pothula Haranadh	Assistant professor	M.Tech	1.5	Teaching
9	Mr.Donthi Rama Bhupal Reddy	Assistant professor	M.Tech	1	Teaching
10	Mr.Hasnat Hossain	Assistant professor	M.Tech	2	Teaching
11	Mr.Cheerla Prabhu Teja	Assistant professor	M.Tech	1	Teaching

8. Programme-wise Student Teacher Ratio: (Average of 4 Years):

UG: 15:1

9. Number of academic support staff (technical) and administrative staff sanctioned, filled and vacant:

S. No.	post	Sanctioned Posts	Filled	Actual
1	Laboratory Assistant	4	4	4
2	Clerk (office)	1	1	1
3	Laboratory Attendant	1	1	1
4	Peon	1	1	1
5	Other			

10. Thrust areas of research as identified by the department:

1. Structural Engineering
2. Water Resource Engineering
3. Transportation Engineering
4. Geotechnical Engineering

11. Special research laboratories sponsored by / created by industry or corporate bodies:

No

12. Publications:

S.No	Authors	Title of The Paper	Journal Name with ISSN No.	Year of Publication
1	Dr.V.Swamy nadh	Analysis of RCC T beam and prestressed concrete box girder bridge's superstructure under different span conditions	Materials today proceedings 2214-7853	2021
2	Mr .B. Maheedar	Mechanical properties of light transmitting concrete	International journal of innovative technology and exploring engineering ISSN: 2278-3075	2020
3	Mr.Nizamuddin Khadri	Analysis of structure on slopes having infill shear wall at different locations	International journal of psychosocial rehabilitation	Dec 2020
4	Dr.V.Swamy nadh	Structural Behavior of Nano-Coated Oil Palm Shell as Coarse Aggregate in Lightweight Concrete	Journal of Nano materials	2021

13. Conferences:

1	B.Raghava Maheedhar	Study on Formation and propagation of cracks in concrete:A Review	1st online International conference on recent advances in computational and experimental mechanics	PAPER ID:ICRACEM/2020/AM-20-011	2020
---	----------------------------	--	--	--	-------------

14. Incentives granted for publications/Conferences attended/memberships:

S. No	Year	Name of the teacher	Name of the Publication/Conference/ Membership	Amount Granted
1	2021	Mr .B. Maheedar	1st online International	2500

			conference on recent advances in computational and experimental mechanics	
2	2021	Dr.V.Swamy Nadh	Materials today proceedings 2214-7853	7500
3	2021	Dr.V.Swamy nadh	Journal of Nano materials	20000

15. Consultancy services provided, name of the teacher/s and income generated:

S. No	Year	Name of the teacher	Nature of consultancy	Funds generated (In Lakh)

16. Details of Industrial/Academic Experts invited as resource persons for Refresher courses, Seminars, Workshops:

Area of Interest-Geotechnical Earthquake Engineering: Design of Coastal Geotechnical structures, Soil dynamics, Ground improvement techniques, Foundation systems for High-Rise structures

POSITIONS HELD

Assistant Professor & Head (September, 2018- Present) Department of Civil Engineering, National Institute of Technology Andhra
(December, 2017- August, 2018) Department of Civil Engineering, Mahindra École Centrale, Hyderabad, India.
Research Associate (May, 2017- November, 2017)
Department of Civil Engineering, Indian Institute of Technology (IIT) Bombay, India

EDUCATION

Doctor of Philosophy (Civil Engineering, 2013-2017)
Indian Institute of Technology (IIT) Bombay, India
Thesis title: Seismic stability of seawalls considering wave forces
Major: Geotechnical Earthquake Engineering

Master of Technology (Civil Engineering, 2011-2013)
Indian Institute of Technology (IIT) Guwahati, India
Dissertation title: Embankments resting on PVD incorporated soft soil: Modeling issues, analysis and interpretation
Major: Geotechnical Engineering

Bachelor of Technology (Civil Engineering, 2007-2011)
Acharya Nagarjuna University, Bapatla Engineering College, Bapatla, Andhra Pradesh, India.

17. Details of teachers participated in Refresher courses, Orientation courses, Seminars,

Workshops, Conferences at national and international levels.(participant, presented paper, chaired the session):

S. No	Name of the Faculty	Name of the Programme	Host Institution
1)	Mr.V.Tamilselvan	A Oneyday Workshop on RCC Structuraling Detailing & Drafting	VBIT-Hyderabad
2)	V. Swamy nadh	Three day faculty development programme	St. Martin's-Hyderabad
3)	B.Ragava maheedhar	Workshop on St ructural Analysis using E-TABS	RVRJC-Guntur
4)	Sangita DE	A Oneyday Workshop on RCC Structuraling Detailing & Drafting	VBIT-Hyderabad
5)	Mr.V.Tamilselvan	Workshop on Strcutural Anlaysis using E-TABS	RVRJC-Guntur
6)	V. Swamy nadh	Three day workshop on Innovations in civil Engg	St. Martin's-Hyderabad
7)	B.Ragava maheedhar	A Oneyday Workshop on RCC Structuraling Detailing & Drafting	VBIT-Hyderabad
8)	Mr.Ch.Naresh	A One-week Workshop on Recent Advances in Civil Engineering	NREC-Hyderabad
9)	SD.Nizamuddin Khadri	A Oneyday Workshop on RCC Structuraling Detailing & Drafting	VBIT-Hyderabad

18. Awards and Prizes received by students at university, state, national and international level:

S. No	Name of the Student	Achievement	Field/Area/Event
1.	GORRELA SURYA	First Prize	Weight lifting, Eastgodavari

19. Year-wise results of students at UG and PG:

UG/PG	Year	Appeared	Passed	Pass %
UG	II B. Tech I Sem.	38	24	63.16
	II B. Tech II Sem.			
	IIIB. Tech I Sem.	47	35	74.47
	III B. Tech II Sem.			
	IV B. Tech I Sem.	57	34	59.65
	IV B. Tech II Sem.	57	56	94

PG	I M. Tech I Sem.	NIL	NIL	NIL
	I M. Tech II Sem.	NIL	NIL	NIL

20. Diversity of Students: (Year-wise)

Name of the Programme	% of students within the State	% of students outside the State	% of students from other countries
UG (B. Tech)	97.89	0	2.11
PG (M. Tech)	NIL	NIL	NIL

21. Number of students cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give Category wise data.

**Year NET/ SET GATE Other Exams (PGCET) Total
2020-2021 - 5**

22. Student progression/ placement record: Number/ percentage of students proceeded for higher studies Number/percentage of students placed: 73.6%

Year % proceeded for higher studies % of students placed

23. Diversity of Faculty:

Teaching faculty %

From within the State 64.28

from other States 35.71

from outside the country -0

24. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. / D.Lit.: 2

25. Present details of departmental infrastructural & other facilities with regard to

a) Central Library Books and Journals, etc, relevant to Department : Titles:

Volumes:

Journals:

b) Departmental Library (books, journals etc.) :

c) Computers and Internet facilities for staff : 1

d) Total number of class rooms : 4

e) Class rooms with ICT facility : 4

f) Students' laboratory : 8

g) Research laboratories : 0

h) Seminar Hall : 1

i) Smart class room :

j) Any other facility LCDs, 0

Number of post graduate students getting financial assistance from the university/state / central government: 0

26. Curricular Aspects:

a) Does the faculty take initiative in curriculum development process: YES

b) Is curriculum suitable to make students globally competitive in the subject? YES

c) Does the department offer program with sufficient no. of electives options: YES

d) While developing curriculum, is feed-back taken from stakeholder's viz.

Students/Alumni/Parents/Employers considered? YES

e) What is the frequency of curriculum revision? (3/4/5 years or more): 3 years

27. Teaching-Learning, Evaluation.

1) Number of teachers preparing & following Academic Teaching plan : 10

2) How many teachers use the following teaching methods:

a) Interactive lecture method using blackboard, Group discussions, Problem solving, Seminars: 10

b) Use ICT methods to support lectures: 10

3) Does the department have any mechanism to ensure that entire syllabus is Completed: YES

4) Do you offer Bridge/Remedial courses? If yes, Give details.

Yes, for students lagging behind the classes we conduct as per the schedule Provided

All the III & IV B.Tech Civil Engineering students who have backlogs are informed that the schedules for II semester remedial classes are planned as follows. Students are advised to attend the remedial classes as per the time table without fail.

II YEAR II SEMESTER REMEDIAL CLASSES TIME TABLE		
W.E.F. 21/10/2021 to 02/11/2021		
DAY	FACULTY NAME	REMEDIAL CLASS 3:30 TO 4:30 PM
Monday	V.Tamil Selvan	
Tuesday	Ms.Sangita de	
Wednesday	Ch.Naresh	
Thursday	Dr.V.Swamynadh	
Friday	Sangita de	
Saturday	V.Tamil Selvan	

III YEAR II SEMESTER REMEDIAL CLASSES TIME TABLE		
W.E.F. 21/10/2021 to 02/11/2021		
DAY	FACULTY NAME	REMEDIAL CLASS 3:30 TO 4:30 PM
Monday	V.Tamil Selvan	
Tuesday	Ms.Sangita de	
Wednesday	Ch.Naresh	
Thursday	Dr.V.Swamynadh	
Friday	Sangita de	
Saturday	V.Tamil Selvan	

All the II, III & IV B.Tech Civil Engineering students who have backlogs are informed that the schedules for I semester remedial classes are planned as follows. Students are advised to attend the remedial classes as per the time table without fail.

II YEAR I SEMESTER REMEDIAL CLASSES TIME TABLE		
W.E.F. 14/09/2020 to 26/09/2020		
DAY	FACULTY NAME	REMEDIAL CLASS 3:30 TO 4:30 PM
Monday	B.R.Maheedhar	

Tuesday	Sangita de	
Wednesday	Ch.Naresh	
Thursday	B.R.Maheedhar	
Friday	Sangita de	
Saturday	Ch.Naresh	

III YEAR I SEMESTER REMEDIAL CLASSES TIME TABLE		
W.E.F. 14/09/2020 to 26/09/2020		
DAY	FACULTY NAME	REMEDIAL CLASS
		3:30 TO 4:30 PM
Monday	Dr.V.Swamynadh	
Tuesday	Ms.Sangitha de	
Wednesday	Ch.Naresh	
Thursday	Dr.V.Swamynadh	
Friday	Ms.Sangitha de	
Saturday	V.Tamil Selvan	

IV YEAR I SEMESTER REMEDIAL CLASSES TIME TABLE		
W.E.F. 14/09/2020 to 26/09/2020		
DAY	FACULTY NAME	REMEDIAL CLASS
		3:30 TO 4:30 PM
Monday	Ch.Naresh	
Tuesday	B.R.Maheedhar	
Wednesday	B.R.Maheedhar	
Thursday	Ch.Naresh	
Friday	Ch.Naresh	
Saturday	B.R.Maheedhar	

5) What is the method for conducting internal evaluation?

There is complete transparency in the internal assessment. The criterion adopted is as directed by the university.

- At the beginning of the semester, faculty members inform the students about the various components in the assessment process during the semester.
- The internal assessment test schedules are prepared as per the university and communicated to the students well in advance.
- To ensure proper conduct of formative tests, two invigilators are assigned to each hall. Evaluation is done by the course handling faculty members within three days from the date of examination.
- The corrected answer scripts at random are verified by HOD to ensure the standard evaluation process.
- The corrected answer papers of the students are distributed to them for the verification by the students and any grievance is redressed immediately. The marks obtained by the students in internal assessment tests are displayed on the department notice board.
- The marks obtained by the students in internal assessment tests are uploaded periodically on the university web portal along with their attendance.
- Noting the values in observation and validating the theoretical aspects student must submit lab record regularly.

- Day to day performance of the students is assessed for every experiment which includes regularity, performance, viva and the promptness in submitting the record.
- For lab courses, the marks/grade scored by the student for each experiment is indicated in the observation/record. The independent learning, practical approach to the real-time applications is tested by viva-voice for laboratory courses.
- For the quality of the projects, the evaluation is done by Project Review Committee along with the project guides.
- To ensure the transparency and curb the mal practices the university has introduced jumbling system and theory end examinations are conducted at a center other than the college.
- The end examination for the laboratory and projects shall be conducted with internal and external examiner appointed from the other colleges as decided by the University.

28. Teacher Performance:

1) Whether the performance of the teacher assessed by the students? If yes, are the feedback reports analysed and suggestions communicated to teachers? : YES

2) Number of teachers getting a) Very Good ___17_ b) Good ___9__ c) Average ___1__ remarks from students.

2) Whether any facility available in the department to get suggestions from students on infrastructural facilities available in the department?: YES

15

4) Are the suggestions received from students used for improvement of facilities? : YES

5) Do teachers submit Self-Appraisal Reports? Are these reports appraised by HOD and forwarded to the management with comments? : YES

29. List the distinguished alumni of the department (maximum 10)

S. No	Roll Number	Name of the Student
1	18MH5A0105	DOMALA SAI SUHAS
2	18MH5A0111	KAMIREDDY DURGA SUNIL
3	18MH5A0118	KOVVURI VENKATA SURENDRA REDDY
4	18MH5A0125	PENNAM MANIKANTA
5	18MH5A0129	SEERAM VENKATA SUDHA SAI

30. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

31. State the Innovative practices adopted in the department.

1. Department event club activities.
2. Department news letter.
3. Innovative projects.

32. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

a. Strengths:

1. The Department has qualified and dedicated faculty
2. Well established state-of-art laboratories and infrastructure
3. Memberships in Professional bodies like ICI

b. Weaknesses:

1. Predominantly students come from guided education system hence resistance to adapt to out come based education system
2. This branch is not among the top preferences of the Students because of their limited knowledge about the Industry.

c. Opportunities:

1. R & D activity and Institutional collaboration
2. Increasing scope for entrepreneurship development.
4. More number of opportunities can be foreseen as Kakinada is identified as one of the first 20 smart cities in the country.
5. Students can settle not only in core side industries but also in software

d. Challenges:

1. Changing trends in recruitment patterns.
2. Poor language skills and other employability skills among the students.

34. Future plans of the department:

a. Long term plans-

1. To encourage innovation in the department.
2. To have a strong industrial interaction.
3. To encourage all faculties to get involved in research programs leading to acquire Doctoral degree, hence better expertise.

b. Short term plans –

1. To improve the student's academic performance towards better results and campus placements.
2. Awareness sessions to drive away the nescience of parents & students.



Head of Department



Dean (Academic & Administration)



Convener
Academic Committee



Principal
Aditya College of Engineering
SURAMPALAM-533 437



ADITYA COLLEGE OF ENGINEERING

Approved by AICTE, Permanently Affiliated to JNTUK & Accredited by NAAC
Recognized by UGC under section 2(f) of UGC Act 1956

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

Date: 27/12/2021

ACADEMIC AND ADMINISTRATIVE AUDIT OF THE DEPARTMENT Academic Year: 2020-21

1. Name of the Department: Computer Science and Engineering
2. Year of establishment: 2008
3. Courses offered: UG, PG

Year	UG	PG
2020-21	B. Tech	M. Tech-CSE

4. Courses introduced during last 4 years: 2
5. Details of programs discontinued, if any, with reasons: -Nil-
6. Number of teaching posts sanctioned, filled and vacant.

	Sanctioned	Filled
Professor	4	4
Associate Professor	9	9
Assistant Professor	19	19
Total	32	32

7. Faculty profile with name, qualification, designation, experience, nature of appointment (confirmed/ probation/temporary):

S. No	Name	Designation	Qualifications	Teaching/Research Experience in years	Nature of appointment
1	Dr. Pullela S.V.V.S.R. Kumar	Professor	Ph.D	20	confirmed
2	Dr. G.S.N.Murthy	Professor & HOD	Ph.D	23	confirmed

3	Dr.B.Annapurna	Professor	Ph.D	22	confirmed
4	T.Veerraju	Professor	M.Tech (Ph.D)	21	confirmed
5	V.Chandra Sekhara Rao	Associate Professor	M.Tech (Ph.D)	14	confirmed
6	M.Uma Devi	Associate Professor	M.Tech (Ph.D)	19	confirmed
7	Dr.Gorantla Prabhakara Rao	Associate Professor	Ph.D	6	confirmed
8	Dr. Palla Karunakar Reddy	Associate Professor	Ph.D	8	confirmed
9	V.Anantha Lakshmi	Associate Professor	M.Tech(Ph.D)	13	confirmed
10	Dr. U.N.P.G.Raju	Associate Professor	Ph.D	7	confirmed
11	T.Satya Kumari	Associate Professor	M.Tech	11	confirmed
12	N.Praveen	Associate Professor	M.Tech	11	confirmed
13	A.Rama Devi	Assistant Professor	M.Tech	14	confirmed
14	P.N.S.Lakshmi	Assistant Professor	M.Tech	11	confirmed
15	V.Veera Prasad	Assistant Professor	M.Tech	6	confirmed
16	Gandikota V R Pavankumar	Assistant Professor	M.Tech	3	confirmed
17	Vundavill Padmaraju	Assistant Professor	M.Tech	3	confirmed
18	Chundru Srinivas	Assistant Professor	M.Tech	3	confirmed
19	Jami Madhusudhana Rao	Assistant Professor	M.Tech	3	confirmed
20	A.Krishna Veni	Assistant Professor	M.Tech	3	confirmed
21	V.Neelima	Assistant Professor	M.Tech	2	confirmed
22	Ch.Dolly Rupa Devi	Assistant Professor	M.Tech	1	confirmed
23	M.V.B. Murali Krishna. M	Assistant Professor	M.Tech	7	confirmed
24	Kota Kalyana Venkata Satyanarayana	Assistant Professor	M.Tech	0	confirmed
25	Attru	Assistant	M.Tech	4	confirmed

	Hanumantha Rao	Professor			
26	Koppiseti Giridhar	Assistant Professor	M.Tech	7	confirmed
27	Yadavalli Suresh Kumar	Assistant Professor	M.Tech	5	confirmed
28	Anu Chandana Kucherla	Assistant Professor	M.Tech	8	confirmed
29	Gudelli Nagarjuna Rao	Assistant Professor	M.Tech	0	confirmed
30	V Naga Raju	Assistant Professor	M.Tech	2	confirmed
31	Korri Raju	Assistant Professor	M.Tech	3	confirmed
32	Y. Raviraju	Assistant Professor	M.Tech	11	confirmed

8. Programme-wise Student Teacher Ratio: (Average of 4 Years):

UG: 20:1

PG: 12:1

9. Number of academic support staff (technical) and administrative staff sanctioned, filled and vacant:

S. No.	post	Sanctioned Posts	Filled	Actual
1	Laboratory Assistant	10	10	
2	Clerk (office)	1	1	
3	Laboratory Attendant	-	-	
4	Peon	1	1	
5	Other	1	1	

10. Thrust areas of research as identified by the department:

Data Analytics, Cloud Computing, Image Processing and Security in Fog Computing, Internet of Things, Deep learning, Machine Learning.

11. Special research laboratories sponsored by / created by industry or corporate bodies:

-Nil-

12. Publications:

S.No	Authors	Title of The Paper	Journal Name with ISSN No.	Year of Publication
1	Dr. Pullela SVVSR Kumar	A Hybrid Advanced Encryption Scheme for a Protected Wireless Sensor data in Secure	International Journal of Advanced Science and Technoolgy	2020-21

		transmission and Storage	2005-4238	
2	Dr. Pullela SVVSR Kumar	Disabled Chronicle Management using Block chain Technology	International Journal of Advanced Science and Technology 2005-4238	2020-21
3	Dr. Pullela SVVSR Kumar	Enactment Of Deep Learning Methods For Bird Cataloging By Deploying Convolution Neural Networks (CNN)	Journal of Critical Reviews 2394-5125	2020-21
4	Dr. Pullela SVVSR Kumar	Driver Deviation and Drowsiness Detection Alert System	Journal of Xi'an University of Architecture & Technology 1006-7930	2020-21
5	G.S.N.Murthy	Predictive Machine Learning(ML) Algorithm using IOT Framework for Novel CORONA VIRUS (COVID-19)	Psychology and education ISSN:00333077	2020-21
6	G.S.N.Murthy	A Hybrid Advanced Encryption Scheme for a Protected Wireless sensor data in Secure transmission and storage	International Journal of Advanced Science and Technology (IJAST) ISSN:2005-4238	2020-21
7	Dr. B. Annapurna	Max 30100/30102 Sensor Implementation to Viral Infection Detection Based on Spo2 and Heartbeat pattern	Annals of R.S.C.B ISSN:1583-6258, Pages : 2053-2061	2020-21
8	Dr. B. Annapurna	Building Time Series Prognostic Models to Analyze the Spread of COVID-19 Pandemic	International Journal of Advanced Science and Technology Page No.: 13258 – 13268	2020-21
9	Dr. B. Annapurna	Solar Energy Augmentation Stratagem Via IOT and Robotics	SolidState Technology Page No.: 1665-1670	2020-21
10	Dr. B. Annapurna	Diabetic Foot Ulcer Treatment Device Using Peltier and Embedded	Journalof Physics doi:10.1088/1742-6596/1712/1/01204	2020-21

		Electronics	page No's: 1 to 6	
11	Dr. B. Annapurna	Coordinate Access System for Live Video Acquisition	doi:10.1088/1742-6596/1712/1/012034 Page No's: 01 to 06	2020-21
12	V Veera Prasad	Coordinate Access System For Live Video Acquisition	doi:10.1088/1742-6596/1712/1/012034 Page No's: 01 to 06	2020-21

13. Conferences:

S. No	Authors	Title of The Paper	Conference Name	ISBN No.	Year
1	Dr. Pullela SVVSR Kumar	Real Time Nitrogen, Phosphorus, Potassium (NPK) Detection in Soil Using IoT	International Conference on Emerging Applications of Information Technology(EAIT 2021	978-981-16-4435-1	2020-21
2	G.S.N.Murthy	A Fact-Based Liver Disease Prediction by Enforcing Machine Learning Algorithms	Springer proceedings of 4 th International conference on Computational vision and Bio Inspired Computing(ICCVBIC 2020)		2020-21
3	Dr.B.Annapurna	Diabetic Foot Ulcer Treatment Device Using Peltier and Embedded Electronics	International Conference on Computational Physics in Emerging Technologies- ICCPET.2020	volume 1712, Issue 1 page No: 1 to 6 IOP Publishing	2020-21

14. Workshops/ Seminars/ Guest Lectures Organized:

S. No	Name of the Workshops/ Seminars/ Guest Lectures	Date (From-To) (DD-MM-YYYY)	No. of participants attended
1	A Two days FDP on Research Methodology & Data Analysis	16-11-2021 to 20-11-2021	42

2	A Five day Online Faculty Development Programon“Deep Learning & Its Applications	05-04-2021 to 09-04-2021	43
---	--	--------------------------	----

15. Incentives granted for publications/Conferences attended/memberships:

S. No	Name of the teacher	Name of the Publication/Conference/ Membership	Amount Granted
1	Dr.B.Annapurna	International Conference on Advances in Computer Engineering and Communication Technology ICACET-2021,ACET,Surampalem,22-23,Oct 2021	7,500
2	T.Satya Kumari	IC-MISP-2021,NIT Arunachal Pradesh, 23-25,Sep-2021	4500
3	N.Praveen	IC-MISP-2021,NIT Arunachal Pradesh, 23-25,Sep-2021	4500

16. Consultancy services provided, name of the teacher/s and income generated:-Nil-

17. Details of Industrial/Academic Experts invited as resource persons for Refresher courses, Seminars, Workshops: -Nil-

18. Details of teachers participated in Refresher courses, Orientation courses, Seminars, Workshops, Conferences at national and international levels.(participant, presented paper, chaired the session):

S. No	Name of the Faculty	Name of the Programme	Host Institution
1	Dr. B. Annapurna	Advanced Data Science and its Applications	BVRIT College of Engineering for Women
2	Dr. B. Annapurna	Blockchain and Machine Learning	ATAL
3	Dr. B. Annapurna	Evolution of IOT and It's Real Time Applications	Malla Reddy Institute of Technology and Science, Dept of CSE
4	T.Veerraju	Internet of Things	KLEF ,ATAL Academy
5	V.ChandraSekhararao	Python Gjango Framework	Ramachandra College of Engg.
6	V.ChandraSekhararao	Research Challenges in CSE	Ramachandra College of Engg.

7	V.ChandraSekhararao	Introduction to Automata, Languages and Computation	NPTEL
8	T.Satya Kumari	Python 3.4.3 & Python DJANGO	C M R Engg. College
9	T.Satya Kumari	Block Chain Technologies	Gudlavalleru Engg.College
10	T.Satya Kumari	Data Science behind NLP	LakkiReddi Bali Reddy College of Engg.
11	N Praveen	Research Area in Artificial Intelligence & machine Learning with case studies	International School of technical sciences for Women
12	N Praveen	IPR awareness & patent prosecution	Orient Institute of science & technology, Bhopal
13	V Veera Prasad	Evolution Of Iot And Its Real Time Applications	Mallareddy Institute Of Technology And Science
14	A.KrishnaVeni	Java Foundation	Oracle Academy
15	A.KrishnaVeni	Data Science behind NLP	Lakkireddy Bali Reddy College of Engineering

19. Awards and Prizes received by students at university, state, national and international level:

S. No	Name of the Student	Achievement	Field/Area/Event
1	Pappu Venkata Lakshmi Sai Pranathi	2 nd prize in Technical Quiz	VEDA DIGI 2020
2	Maganti Pavan Aditya G Charanya Lakshmi Sai tulasi	2 nd Presentation on emerging Technologies	VEDA DIGI 2020

20. Year-wise results of students at UG and PG:

UG/PG	Year	Appeared	Passed	Pass %
UG	II B. Tech I Sem.	126	33	26.19
	II B. Tech II Sem.	126	33	26.19
	III B. Tech I Sem.	112	72	64.28
	III B. Tech II Sem.	112	85	75.89
	IV B. Tech I Sem.	109	67	61.46
	IV B. Tech II Sem.	109	94	86.23
PG	I M. Tech I Sem.	6	4	66.66
	I M. Tech II Sem.	6	4	66.66

21. Diversity of Students: (Year-wise)

Name of the Programme	% of students within the State	% of students outside the State	% of students from other countries
UG (B. Tech)	95.70	2.58	1.72
PG (M. Tech)	100	-	-

22. Number of students cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give Category wise data.

Year NET/ SET GATE Other Exams (PGCET) Total

Nil

23. Student progression/ placement record: Number/ percentage of students proceeded for higher studies Number/percentage of students placed:

Year % proceeded for higher studies % of students placed

Year	% proceeded for higher studies	% of students placed
2020-21	UG to PG	54.93
	8.57	

24. Diversity of Faculty:

Teaching faculty	%
from the same university	85.71
from other universities within the State	10.71
from other States	3.5
from outside the country -	--

25. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. / D.Lit.: 2

26. Present details of departmental infrastructural & other facilities with regard to

a) Central Library Books and Journals, etc, relevant to Department: Titles: 620
 Volumes:4080
 Journals: 8

b) Departmental Library (books, journals etc.): 130 & 5

c) Computers and Internet facilities for staff: 4

d) Total number of class rooms: 6

e) Class rooms with ICT facility: 6

f) Students' laboratory: 6

g) Research laboratories: -

- h) Seminar Hall: 1
- i) Smart class room: 7
- j) Any other facility LCDs: 6

27. Curricular Aspects:

a) **Does the faculty take initiative in curriculum development process?**

We are affiliated to JNTUK, Kakinada. We follow the University Curriculum.

b) **Is curriculum suitable to make students globally competitive in the subject?**

Yes, the theory subjects and laboratories those are included in the curriculum, which is related to the industrial requirements globally.

c) **Does the department offer program with sufficient no. of electives options?**

Yes, as per the curriculum prescribed by the university, students can choose four elective from a pool of subjects of their choice.

d) **While developing curriculum, is feed-back taken from stakeholders viz. Students/Alumni/Parents/Employers considered?**

Yes

e) **What is the frequency of curriculum revision? (3/4/5 years or more):**

3 years

28. Teaching-Learning, Evaluation.

1) **Number of teachers preparing & following Academic Teaching plan :**
100%

2) **How many teachers use the following teaching methods?**

a) **Interactive lecture method using blackboard, Group discussions, Problem solving, Seminars: 100%**

b) **Use ICT methods to support lectures: 100%**

3) **Does the department have any mechanism to ensure that entire syllabus is Completed?**

There is a review of syllabus for every fortnight. If there is any lagging in the Syllabus, the faculties are instructed to complete the syllabus by taking the extra classes.

4) **Do you offer Bridge/Remedial courses? If yes, Give details.**

Yes, we are offering Remedial classes for weak students.

5) What is the method for conducting internal evaluation?

There is complete transparency in the internal assessment. The criterion adopted is as directed by the university.

- At the beginning of the semester, faculty members inform the students about the various components in the assessment process during the semester.
- The internal assessment test schedules are prepared as per the university and communicated to the students well in advance.
- To ensure proper conduct of formative tests, two invigilators are assigned to each hall. Evaluation is done by the course handling faculty members within three days from the date of examination.
- The corrected answer scripts at random are verified by HOD to ensure the standard evaluation process.
- The corrected answer papers of the students are distributed to them for the verification by the students and any grievance is redressed immediately. The marks obtained by the students in internal assessment tests are displayed on the department notice board.
- The marks obtained by the students in internal assessment tests are uploaded periodically on the university web portal along with their attendance.
- Noting the values in observation and validating the theoretical aspects student must submit lab record regularly.
- Day to day performance of the students is assessed for every experiment which includes regularity, performance, viva and the promptness in submitting the record.
- For lab courses, the marks/grade scored by the student for each experiment is indicated in the observation/record. The independent learning, practical approach to the real-time applications is tested by viva-voice for laboratory courses.
- For the quality of the projects, the evaluation is done by Project Review Committee along with the project guides.
- To ensure the transparency and curb the mal practices the university has introduced jumbling system and theory end examinations are conducted at a center other than the college.
- The end examination for the laboratory and projects shall be conducted with internal and external examiner appointed from the other colleges as decided by the University.

29. Teacher Performance:

1) Whether the performance of the teacher assessed by the students? If yes, are the feedback reports analyzed and suggestions communicated to teachers?

Yes

2) Number of teachers getting a) Very good: 21 b) Good: 6 c) Average: 0 remarks from students.

3) Whether any facility available in the department to get suggestions from students on infrastructural facilities available in the department?

Yes

4) Are the suggestions received from students used for improvement of facilities?

Yes

5) Do teachers submit Self-Appraisal Reports? Are these reports appraised by HOD and forwarded to the management with comments?

Yes. Yearly faculty appraisal forms are collected and submitted to the management along with comments by HOD and Principal.

30. List the distinguished alumni of the department (maximum 10)

S.NO	NAME OF THE ALUMNI	ALUMNI DETAILS	ROLL NO
1.	AYUSH ASHISH	Associate Software Engineer, Tech Mahindra, Hyderabad	16MH1A0503
2	DEVARAPALLI ESWARI SAI SANTHOSHI	Trainee Software Engineer, NANDEE NETWORKS, Banglore	16MH1A0513
3	GOLUGURI SURYA KUMARI	Software Engineer 1, MAQ Software,Hyderabad	16MH1A0516
4	PANTHAM VENKAT	SDE-1, Matrix Intelligence and Aspire Info Labs Hyderabad	16MH1A0538
5	POLEPALLI NAGENDRA KUMAR	JIO,Rajahmundry	16MH1A05B0
6	REDDIPALLI RAMYA	Indian Postal Services	16MH1A05B4
7	PILLA SATISH	ALTIUX INNOVATIONS PVT.LTD,Bangalore	16MH1A05A7

31. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

S.No	DATE FROM - TO	NAME OF WORKSHOP/SEMINAR	RESOURCE PERSONS
1	8 th June to 11 th June 2021	A Four day Work shop on “ Scopus database”	Dr. Durgesh Nandan, CLEducate, Bengaluru
2	15 th September 2021	A seminar on” Machine Learning algorithms used in real applications”	Dr. V. Vijay Kumar, Professor of CSE, Anurag Group of Colleges
3	14 th April to 15 th April 2021	A Two workshop on” Enhancement of Coding Skills”	N.Babji, CEO, T-Hub
4	9 th February 2021	A seminar on “Cyber Security”	E. Chaitanya, Cloud Synergy

31. State the Innovative practices adopted in the department.

1. Department event club activities.
2. Department newsletter.
3. Innovative projects.

32. Highlight the participation of students and faculty in extension activities.

The faculty and students participate in various extension activities organized at university level like NSS, university fest, Blood donation camps, Yoga, Swatch bharat and Public survey which are relate to the state government.

S.No	Name of the activity	Organizing unit agency/ collaborating agency	Number of participated in such activity	Number of students participated in such activities
1	Training for technical skills regarding Industrial/Software development applications	Andhra Pradesh State Skill Development Center (APSSDC)	20	2
2	Authorized Exam center & Student training)	Pearson VUE	10	--
3	6Campus Recruitment Training program (CRT) for campus placements)	ELEPHOS	50	1

33. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC)of the department.

a. Strengths:

- Well-equipped laboratory, library and class room facilities.
- Dynamic, dedicated and experienced (**Average 10+ years**) faculty with excellent academic /industry experience.
- Demonstrate a high level of interaction between faculty & students through counseling activities.
- Online access of course content through college knowledge portal to students.
- MIC facilitates the students update with recent trends prevailing in IT industry.
- Aptitude & Soft Skills training for students from their first year into the college.
- Co-Cubes & AMCAT assessment is done and students are motivated to acquire the required skills.

b. Weaknesses:

- The students are examination oriented while industry is stressing on knowledge base.

- Students enrolled come from guided type of education system.
- Resistance from students to adapt to out-come based system.
- Very few students are innovating and research oriented.

c. Opportunities:

- Presently enjoying the “most preferred branch” status.
- State bifurcation, offers a big opportunity for growth in IT sectors especially in and around “Kakinada-Smart City”
- Increase in e-learning Practices, new trends in teaching methods and multi- disciplinary professional education.
- Provision to attend FDP/SDP’s, Seminars, Workshops to enhance Knowledge.

d. Challenges:

- Train the students according to industry needs as technology changes frequently.
- Transition of technical education from theory-base to application base.
- Non-availability of IT companies in and around, exposing students to the industry requirements is becoming difficult.

34. Future plans of the department:

a. Long term plans-

- More focus on tie-ups with Industry and eminent Universities to enhance quality in curricular standards.
- Planning for adapting Outcome based education

b. Short term plans –

- To establish university recognized research Centre.
- To Host an International Conference.
- Training the students to make them Industry Ready
- More focus on R & D Activities

G. S. Murthy

Head of Department

G. Anand Kumar

Convener,
AAA Committee



P. S. S. Rao

Dean (Academics and Administration)

A. S. S. Rao

Principal

PRINCIPAL
Aditya College of Engineering
SURAMPALEM-533 437