

ABOUT MECHANICAL DEPARTMENT

At a Glimpse

- POs,PSOs,PEOs
- Student Training Programmes
- Student Technical Events
- Faculty Publications
- NPTEL Certifications
- Faculty as Resource Person
- Batch Toppers

Mechanical engineers develop state-of-the-art technologies and exhilarating solutions for the mankind. We attempt to provide our students with a cheerful, productive and satisfying experience at all levels of their program of studies to explore the amazing world of mechanical engineering. The department has secured high repute through its quality of teaching, infrastructure & equipment. Teaching has been rendered by highly qualified and experienced faculty with good publications in reputed journals. The department is recognized as a research centre by JNTUK, Kakinada for pursuing Ph.D. programme in Mechanical Engineering. The department has spacious laboratories and well equipped with experimental set-ups as per the requirement of the curriculum. The faculty are very active and encourage the students in fabricating real models viz., Go-kart, Robots, Solar based vehicles and other working models, which are very useful in day-to-day life and teach students with live examples.

Vision

To be a center of excellence in Mechanical Engineering education and research

Mission

To promote trainings with institutional association

To provide skill-based education with focus on Automotive

To promote innovative ideas through creativity and leadership quality



Editorial Board:

1. Dr. CH V V M J Satish Asst. Professor
2. Mr. B Jagadish Asst. Professor
3. Mr. Lokesh Nagala (Student)
4. Mr. Veerababu Pilli (Student)
5. Mr. M. S. Sai Kumar (Student)
6. Mr. CH. Devi Prasad (Student)

Programme Outcomes (POs)

1. **ENGINEERING KNOWLEDGE:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **PROBLEM ANALYSIS:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **DESIGN/DEVELOPMENT OF SOLUTIONS:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **CONDUCT INVESTIGATIONS OF COMPLEX PROBLEMS:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **MODERN TOOL USAGE:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
6. **THE ENGINEER AND SOCIETY:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **ENVIRONMENT AND SUSTAINABILITY:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **ETHICS:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **INDIVIDUAL AND TEAM WORK:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **COMMUNICATION:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, give and receive clear instructions.
11. **PROJECT MANAGEMENT AND FINANCE:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **LIFE-LONG LEARNING:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Programme Specific Outcome (PSOs)

PSO1: Mechanical Engineers must be able to analyze, design and evaluate mechanical components and systems using cutting edge software tools as required by the industries from time to time.

PSO2: The ability to work in manufacturing and other sectors operations and maintenance plants.

PSO3: As part of a team or individually, plan and manage activities in micro, small, medium and large enterprise.

Programme Educational Objectives

PEO1: Learn the principles of applied and fundamental engineering sciences that are required to formulate and solve problems in Mechanical Engineering.

PEO2: Exhibit technical skills in solving real world problems using emerging technologies considering societal, technological and business challenges

PEO3: Work effectively as individuals and as team members in multidisciplinary projects.

PEO4: Engage in professional practice with ethical values and attitude of lifelong learning.

Student Training Programmes

To improve communication skills of students a training program has been conducted on Improvement of language and communication skills



Student Technical Events

Students have successfully participated and cleared in virtual phase 2 round of BAJASAE INDIA, this round involves CAE evaluation Manufacturing plan Estimation cost IPG CAR Maker Design, brake, ac...

SINGLE CYLINDER PETROL ENGINE
18.7 N-MM TORQUE
10 HORSE POWER
305 CC

CONTINUOUS VARIABLE TRANSMISSION

2 WD(REARWHEEL)
WHEEL BASE "56"
TRACK WIDTH : 52"(FRONT)
50" (REAR)

Single seat ATV
5,40,000 INR

5 Litres



Organized by **SAE INDIA** Under the aegis of **SAE** **INDIA** **INDIA** **INDIA** **INDIA**

BAJA SAE INDIA 2022

mBAJA SAE INDIA 2022 DESIGN PRESENTATION SCORE

TEAM ID	COLLEGE	TEAM NAME	CITY	STATE	DESIGN PRESENTATION SCORE (OUT OF 100)	PENALTY	FINAL DESIGN PRESENTATION SCORE (OUT OF 100)
22001	ABES ENGINEERING COLLEGE	DRIFTERS	GHAZIABAD	UTTAR PRADESH	69.10		69.10
22002	ADITYA COLLEGE OF ENGINEERING AND TECHNOLOGY	TEAM IGNITO	SURAMPALEM	ANDHRA PRADESH	27.42		27.42
22003	ALL INDIA COLLEGE OF ENGINEERING	PERFORMANCE RACING	PUNE	MAHARASHTRA	68.31		68.31
22004	AMRITA SCHOOL OF ENGINEERING, COMBATOR	TEAM TORPEDO	COMBATOR	TAMIL NADU	60.36		60.36
22005	BANGALORE INSTITUTE OF TECHNOLOGY	TEAM STRATOS	BANGALORE	KARNATAKA	44.02		44.02
22006	BANNARI AMMAN INSTITUTE OF TECHNOLOGY	QUATTRO RACING	BATHYHANGALAM	TAMIL NADU	62.49		62.49
22007	BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI - HYDERABAD CAMPUS	TEAM VULCAN	HYDERABAD	TELANGANA	BACKOUT		BACKOUT
22008	BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI - K. K. BIRLA GOA CAMPUS	GREASE MONKEYS	SANCDALE	GOA	48.65		48.65
22009	BIRLA INSTITUTE OF TECHNOLOGY MESRA PATNA CAMPUS	ADHWA	PATNA	BIHAR	48.78		48.78

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BAJA SAE INDIA 2022

mBAJA SAE INDIA 2022 SALES PRESENTATION SCORE

TEAM ID	COLLEGE	TEAM NAME	CITY	STATE	SALES PRESENTATION SCORE (OUT OF 50)	PENALTY	FINAL SALES PRESENTATION SCORE (OUT OF 50)
22001	ABES ENGINEERING COLLEGE	DRIFTERS	GHAZIABAD	UTTAR PRADESH	33.15		33.15
22002	ADITYA COLLEGE OF ENGINEERING AND TECHNOLOGY	TEAM IGNITO	SURAMPALEM	ANDHRA PRADESH	29.00		29.00
22003	ALL INDIA COLLEGE OF ENGINEERING	PERFORMANCE RACING	PUNE	MAHARASHTRA	37.42		37.42
22004	AMRITA SCHOOL OF ENGINEERING, COMBATOR	TEAM TORPEDO	COMBATOR	TAMIL NADU	32.40		32.40
22005	BANGALORE INSTITUTE OF TECHNOLOGY	TEAM STRATOS	BANGALORE	KARNATAKA	33.48		33.48
22006	BANNARI AMMAN INSTITUTE OF TECHNOLOGY	QUATTRO RACING	SATHYANGANGALAM	TAMIL NADU	22.50		22.50
22007	BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI - HYDERABAD CAMPUS	TEAM VULCAN	HYDERABAD	TELANGANA	BACKOUT		BACKOUT
22008	BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI - K. K. BIRLA GOA CAMPUS	GREASE MONKEYS	SANCDALE	GOA	40.50		40.50
22009	BIRLA INSTITUTE OF TECHNOLOGY MESRA PATNA CAMPUS	ADHWA	PATNA	BIHAR	32.64		32.64
22010	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	FIREBOLT RACING TEAM	RANCHI	JHARKHAND	45.84		45.84

SAE BAJA

Organized by SAEINDIA Under the aegis of SAE INDIA 2022							
mBAJA SAEINDIA 2022 COST PRESENTATION SCORE							
TEAM ID	COLLEGE	TEAM NAME	CITY	STATE	COST PRESENTATION SCORE (OUT OF 50)	PENALTY	FINAL COST PRESENTATION SCORE (OUT OF 50)
22001	ABES ENGINEERING COLLEGE	DRIFTERS	GHAZIABAD	UTTAR PRADESH	25.48	5.00	20.48
22002	ADITYA COLLEGE OF ENGINEERING AND TECHNOLOGY	TEAM IGNTO	SURAMPALEM	ANDHRA PRADESH	19.80		19.80
22003	BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI - HYDERABAD CAMPUS	RESONANCE RACING	PUNE	MAHARASHTRA	25.34		25.34
22004	AMRITA SCHOOL OF ENGINEERING, COMBATORE	TEAM TORPEDO	COMBATORE	TAMIL NADU	29.05		29.05
22005	BANGALORE INSTITUTE OF TECHNOLOGY	TEAM STRATOS	BANGALORE	KARNATAKA	18.00		18.00
22006	BANNAIR AMMAN INSTITUTE OF TECHNOLOGY	QUATRO RACING	SATHYANAGALAM, ERODE(DISTRICT)	TAMIL NADU	24.74		24.74
22007	BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI - HYDERABAD CAMPUS	TEAM VULCAN	HYDERABAD	TELANGANA	BACKOUT		BACKOUT
22008	BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI, J. K. BIRLA-GOA CAMPUS	GREASE MONKEYS	SANKOALE	GOA	26.04		26.04
22009	BIRLA INSTITUTE OF TECHNOLOGY, MESRA PATNA CAMPUS	ASHWA	PATNA	BIHAR	30.64		30.64
22010	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	FIREBOLT RACING	RANCHI	JHARKHAND	33.52		33.52
22011	BRAC'S VISHVAKARMA INSTITUTE OF TECHNOLOGY	TEAM ENJOYMENT RACING	PUNE	MAHARASHTRA	30.31		30.31

Organized by SAEINDIA Under the aegis of SAE INDIA 2022							
mBAJA SAEINDIA 2022 MANUFACTURING PRESENTATION SCORE							
TEAM ID	COLLEGE	TEAM NAME	CITY	STATE	MANUFACTURING PRESENTATION SCORE (OUT OF 50)	PENALTY	FINAL MANUFACTURING PRESENTATION SCORE (OUT OF 50)
22001	ABES ENGINEERING COLLEGE	DRIFTERS	GHAZIABAD	UTTAR PRADESH	29.87		29.87
22002	ADITYA COLLEGE OF ENGINEERING AND TECHNOLOGY	TEAM IGNTO	SURAMPALEM	ANDHRA PRADESH	25.80		25.80
22003	ALL INDIA SPIRIT DRIVERS SOCIETY COLLEGE OF ENGINEERING	RESONANCE RACING	PUNE	MAHARASHTRA	41.25		41.25
22004	AMRITA SCHOOL OF ENGINEERING, COMBATORE	TEAM TORPEDO	COMBATORE	TAMIL NADU	27.63		27.63
22005	BANGALORE INSTITUTE OF TECHNOLOGY	TEAM STRATOS	BANGALORE	KARNATAKA	34.09		34.09
22006	BANNAIR AMMAN INSTITUTE OF TECHNOLOGY	QUATRO RACING	SATHYANAGALAM, ERODE(DISTRICT)	TAMIL NADU	30.55		30.55
22007	BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI - HYDERABAD CAMPUS	TEAM VULCAN	HYDERABAD	TELANGANA	BACKOUT		BACKOUT
22008	BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI, J. K. BIRLA-GOA CAMPUS	GREASE MONKEYS	SANKOALE	GOA	33.34		33.34
22009	BIRLA INSTITUTE OF TECHNOLOGY, MESRA PATNA CAMPUS	ASHWA	PATNA	BIHAR	29.99		29.99
22010	BIRLA INSTITUTE OF TECHNOLOGY, MESRA	FIREBOLT RACING	RANCHI	JHARKHAND	37.29		37.29

Faculty Publications

Dr P Daniah has published in Scopus indexed journal paper entitled **Renewable Energy Systems for Machine Learning**. International Journal of Mechanical engineering



Dr P Gangadhar rao has published in scopus indexed journal, paper entitled **Design and Optimization of 200 Ton H- Type Hydraulic Press** in E3S web of conferences



Dr Akilesh Kumar Singh has published in Scopus indexed journal paper entitled **Thermal analysis of Laser welding of Grade 91 steel**. Materials Today: Proceedings.



NPTEL Certification



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
P V S MURALIKRISHNA
for successfully completing the course

Fluid Machines

with a consolidated score of **70** %

Online Assignments	21.79/25	Proctored Exam	48/75
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Total number of candidates certified in this course: **89**


Prof. G P Raja Sekhar
Dean, Continuing Education
IT Kharagpur

Aug-Oct 2021
(8 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL21ME75514410150 To validate and check scores: <https://nptel.ac.in/noc>



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



TOPPER

This certificate is awarded to
DR NITLA STANLEY EBENEZER
for successfully completing the course

Theory of Production Processes

with a consolidated score of **69** %

Online Assignments	22.81/25	Proctored Exam	46.5/75
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Total number of candidates certified in this course: **71**


Prof. V. C. Srivastava
Coordinator, Continuing Education Centre
IT Roorkee

Jul-Oct 2021
(12 week course)


Prof. Priya Maheshwari
NPTEL Coordinator
IT Roorkee



Indian Institute of Technology Roorkee



Roll No: NPTEL21ME88544590546 To validate and check scores: <https://nptel.ac.in/noc>



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
SATYA SURYA PRAKASH VINNAKOTA
for successfully completing the course

Foundations of Cognitive Robotics

with a consolidated score of **63** %

Online Assignments	25/25	Proctored Exam	37.5/75
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Total number of candidates certified in this course: **154**


Prof. Rajesh M. Hegde
Chairman, Centre for Continuing Education
IT Kanpur

Jul-Aug 2021
(4 week course)


Prof. Satyaki Roy
NPTEL Coordinator
IT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL21ME100524300189 To validate and check scores: <https://nptel.ac.in/noc>



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
GOLLAPALLI VEERA SATYA SRINIVAS
for successfully completing the course

Fluid Machines

with a consolidated score of **60** %

Online Assignments	22.33/25	Proctored Exam	37.5/75
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Total number of candidates certified in this course: **89**


Prof. G P Raja Sekhar
Dean, Continuing Education
IT Kharagpur

Aug-Oct 2021
(8 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL21ME75514410181 To validate and check scores: <https://nptel.ac.in/noc>

Faculty acted as resource person



Dr Akilesh Kumar Singh acted as keynote speaker in the international conference on modern machinery manufacturing and materials engineering



Dr Akilesh Kumar Singh acted as resource person and delivered a guest lecture on recent welding process organized Aditya engineering college



Dr Akhilesh Kumar Singh acted as keynote speaker in the international conference of mechanical design and simulation 2022

Batch Toppers



Ms. T ALEKHYA
19P35A0302 8.52 (SGPA)



Mr. A BHASKAR
19P35A0304 8.43 (SGPA)



Mr. ABHISHEK SINHA
18P31A0302 8.05 (SGPA)

III B.TECH - II SEM MECHANIACL – B TOPPERS



19P35A0351
Mr. A RAMESH 8.86(SGPA)



19P35A0384
Mr R S KRISHNA 8.71



19P35A0375
Mr M VEERENDRA 8.43(SGPA)

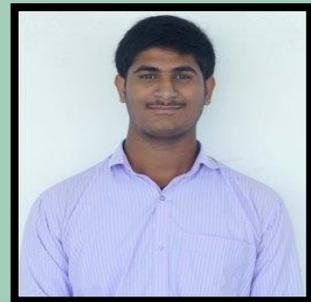
III B.TECH - II SEM MECHANIACL – C TOPPERS



19P35A03B1
Mr. J N M SWAMY 8.90 (SGPA)



18P31A0351
Mr. K M REDDY 8.57SGPA



19P35A03A9
Mr.G NARAYANA 8.57(SGPA)