

MECH VIDYA

Bi-Annual News Letter

2022, Issue 2 (July -December)



VIDYA JYOTHI INSTITUTE OF TECHNOLOGY
An Autonomous Institute
Aziz Nagar Gate, C.B. Post, Hyderabad
<http://vjit.ac.in/mechanical/>
DEPARTMENT OF MECHANICAL ENGINEERING

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Professor, MED

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Dr. E. Sai Baba Reddy

Principal & Director, VJIT

Dr. A. Padmaja

Dean, VJIT



From Correspondent's Desk

I congratulate Dr. G. Sreeram Reddy and his team for the achievement of National Board Of Accreditation (NBA) for a period of 3years. I wish them All The Best for the Future Endeavour.

Dr. P. Rajeshwar Reddy, Correspondent, VJES



From Director Desk

I extend my hearty congratulation to the Mechanical Engineering Department on the successful completion of their Accreditation Process and getting Accredited for 3years.

Dr. E. Sai Baba Reddy, Principal & Director VJIT



From Dean Desk

I appreciate and congratulate whole heartedly the efforts of the Mechanical Engineering Department for their hard work they put for the Accreditation and subsequent achievement of Accreditation for 3years.

Dr. A Padmaja, Dean VJIT

Overview of the Department

Mechanical Engineering has been on an integration phase with other disciplines of Science and Technology for the past few decades and offers many challenging career opportunities for the students. The Department of Mechanical Engineering in VJIT was established in 1999 and is accredited by NBA in 2018. Going by the technological advances the Department has been actively engaged in transforming the learning systems and creating a sound knowledge base in the minds of the students. Innovations, hands-on-workshops, community projects & industry internships fine tune the students into industry ready.

Program Assessment Committee

Department of Mechanical Engineering has constituted Program Assessment Committee with the following members:

S.No	Name of the Member	Designation	Position
1	Dr. G. Sreeram Reddy	HOD	Chairman
2	Dr. V.V.Satyanarayana	Professor	Convener
3	Dr. B. Ravinder Reddy	Associate Professor	Member
4	Dr. L. Madan Ananda Kumar	Associate Professor	Member
5	Dr. J.Jagadesh kumar	Associate Professor	Member
6	Mr. K.Rajesh	Associate Professor	Member
7	Mrs.J.Emeema	Associate Professor	Member

Department Advisory Board

Department of Mechanical Engineering has constituted a Departmental Advisory Board with the following members for the academic year:

S.No	Name of the Member	Designation	Position
1	Dr. G. Sreeram Reddy	HOD	Chairman
2	Dr. V.V.Satyanarayana	Professor	Convener & program coordinator
3	Dr. B.Ravinder Reddy	Associate Professor	Member
4	Mr. Muralidhar Ekamaram	CEO Adriot servo-Mechatronics	Member
5	Mr. K.Ramu	Parent	Member
6	Mr. K.Krishna Chaitanya	student	Member

Achievement of the Department

- The department is NBA accredited for three year period till June 2025
- Dr. V Phanindra Bogu, Associate professor Department of Mechanical Engineering delivered a training on the topic "3D Printing in Manufacturing" On 25th April 2022 at ENGINEERING STAFF COLLEGE OF INDIA(ESCI), HYDERABAD.
- Dr.G.Sreeram Reddy, Dr.L Madan Ananda Kumar, Dr.J.Jagadeesh Kumer, Dr.S.Prasad Kumar were participated in FDP in the domains of engineering enabled acquisition of latest technologies on 6th-12th April 2022.
- TASK workshop on 21st &22 July 2022 on autocad to students enhanced knowledge in modelling aspects.
- Department of mechanical engineering has hosted an FDP (online mode) from 30th May to 10th June 2022 in collaboration with NITTR Kolkata in machine learning area.

LIST OF PROFESSIONAL SOCIETIES IN THE DEPARTMENT OF MECHANICAL ENGINEERING

- Indian Society for Technical Education (ISTE)
- Indian Institute of Welding (IIW)
- Industrial Engineering and Operations Management (IEOM)
- Society of Automotive Engineers (SAE)
- Institution of Engineers (India) (IE)

Engineering Events under Professional Societies:

Institute of Engineers Mechanical (IE)

S.No	Date	Topic	Resource person	Affiliation
1	21-July-2022	Advanced materials and the applications in engineering components	Prof. A. Purshotham	SNIST, Hyderabad

Name of the activity: Guest Lecture

Title/Topic: Advanced materials and the applications in engineering components

Resource persons/Guests: Prof. A. Purshotham, SNIST, Hyderabad

Date: 21-July-2022

Summary:

Objectives: Exploring the Frontiers of Material Science and Engineering

Agenda:

Session 1: Introduction to Advanced Materials and Their Properties

This session will begin with defining advanced materials and their significance in modern engineering, providing an overview of various categories such as polymers, composites, ceramics, and others. The discussion will highlight the role of advanced materials in addressing contemporary engineering challenges. Participants will then explore the mechanical, thermal, and electrical properties of these materials, along with techniques for characterization, including microscopy, spectroscopy, and various testing methods. A case study will illustrate material behavior under extreme conditions, reinforcing the importance of understanding properties in practical applications.

Session 2: Processing Techniques, Applications, and Future Trends

The second session will cover processing and manufacturing techniques, focusing on polymer processing methods like injection molding and additive manufacturing, as well as composite fabrication techniques such as layup and resin infusion. The session will also address the processing of ceramics and advanced metals through sintering and powder metallurgy. Applications of advanced materials in various fields will be explored, including lightweight composites in aerospace, electrification in automotive engineering, and innovations in biomedical and electronics sectors. The discussion will then turn to challenges such as sustainability, material limitations, and the exploration of nanomaterials and bio-inspired materials. The session will conclude with a panel discussion, allowing participants to engage with experts, address inquiries, and foster collaboration within the materials community.



Fig: Prof. A. Purshotham delivering lecture on “Advanced materials and the applications in engineering components”

Research Publications

Faculty have published 08 technical papers in peer reviewed Journals with diverse specializations from materials to manufacturing methods

Papers Published by Faculty:

Sno.	Name of the author	Title	Journal	Scopus / UGC
1	G. Sreeram Reddy; Dr.V.V.Satyanarayana	Deviation analysis of reverse engineering freeform surface with rapid prototyping	APL Energy	Scopus
2	G. Sreeram Reddy; Dr.L.Madan Ananda Kumar	Design and development of metal with plastic replacement by reverse engineering	APL Energy	Scopus
3	Dr. J Jagadesh Kumar	Effect of Notch Geometry on the Fatigue Life of UNS S31803 Duplex Stainless Steel	IRJET	Google scholar
4	Dr. B Ravinder Reddy	Effect of Tio2 Nanoparticles on Friction Stir Welding Joints of AA8011 Aluminium Alloy	IRJET	Google scholar
5	Dr. VV Satyanarayana	Design and Analysis of Penumatic Exo-skeleton Arm	IRJET	Google scholar
6	Mr. K Rajesh	Analysis of Friction Stir Welding of AZ91D Magnesium Alloy with Boron Application using TOPSIS Taguchi Method	J CPR	Google scholar
7	Mr. M Mallesh	Sensitivity Analysis of 2PRRR-1RRR Planer Parallel Manipulator	IJSDR	Google scholar
8	Mr. M Mallesh	Sensitivity Indices of 1PRRR-2RRR Planar Parallel Manipulator	IJAEMA	Google scholar

FDP Attended by faculty:

S. No	Name of The Faculty	Name of The Event	Place	Date of The Event	Duration
1	Dr.L.Madan Ananda Kumar	A Workshop on "Industrial Tribology"	Anurag University, Telangana	31/10/2021	1 day
2	Dr. V.Phanindra Bogu	A workshop on "Gender Sensitization"	Anurag University, Telangana	9/12/2021	1 day
3	Dr.B.Sudha Bindu	A Seminar on "Get Connected Before you Communicate"	JBREC, Moinabad	1/12/2021	1 day
4	Mr.DRS.Narsingh Rao	workshop on "Electric Vehicles: The Future of Mobility"	Mandsaur University, Mandsaur, M.P	30/08/2021 to 04/09/2021	6 days
5	Mr.C.Naveen Raj	A Workshop on "Human Vlaues and Professional Ethics"	Sagar Group of Institutions, Telangana	17/09/2021 to 23/09/2021	7days
6	Mr.K.Rajesh Kumar	A Workshop on "Frontiers in Advanced Materials, Manufacturing and Sustainability "	CMRIT, Hyderabad	11/10/2021 to 16/10/2021	6 days
7	Mr.N.Praveen	A Workshop on "Frontiers in Advanced Materials, Manufacturing and	CMRIT, Hyderabad	11/10/2021 to 16/10/2021	6 days

		Sustainability "			
8	Mr.K.Ashoka Chary	A Workshop on "Industrial Tribology"	Anurag University, Telangana	31/10/2021	1 day
9	Mr.S.Prasad Kumar	A Workshop on "Industrial Tribology"	Anurag University, Telangana	31/10/2021	1 day
10	Mrs.P.Pavani	A workshop on "Gender Sensitization"	Anurag University, Telangana	9/12/2021	1 day
11	Mrs.G.Sowmya	A workshop on "Gender Sensitization"	Anurag University, Telangana	9/12/2021	1 day
12	Mr.G.Rajesh Babu	A workshop on "Gender Sensitization"	Anurag University, Telangana	9/12/2021	1 day
13	Mr.P.Sampath Kumar	A FDP on "Design & Implementation of Student Centered Learning"	KGR CET, Moinabad	05/01/2022 to 06/01/2022	2 days
14	Mrs.C.L.Sindhuja	A FDP on "Design & Implementation of Student Centered Learning"	KGR CET, Moinabad	05/01/2022 to 06/01/2022	2 days
15	Mr.S.Venkatesh	A FDP on "Design & Implementation of Student Centered Learning"	KGR CET, Moinabad	05/01/2022 to 06/01/2022	2 days

Students achievements :

The Department of Mechanical Engineering expresses its appreciation to the students below for their active involvement and success in national sports competitions.

S. No	Name of the Sport/Game	National/ University Level	Place & Date & Year	Medal/ Position	Student /Year/H.T.No
1	Wrestling	All India Inter University	C.B.L University, Bhiwani, Haryana March 2022	Participated	Mr. K. Goutham III-MECH 20915A0318
2	Wrestling	All India Inter University	C.B.L University, Bhiwani, Haryana March 2022	Participated	Mr.L.Sai Nandu Yadav III-MECH 20915A0319
3	Wrestling	All India Inter University	C.B.L University, Bhiwani, Haryana March 2022	Participated	Mr.V.Bhava Sai Ram II-MECH 20911A0374
4	Table Tennis and Kabaddi	National	Sports Bout'22 ANURAG UNIVERSITY, Gatkesar, Hyderabad, 22nd & 23rd April 2022.	Winner & Runner's	Mr. M.Purushotham(MECH-III, 19911A0397) & his team
5	Volleyball, Kabaddi and Cricket	National	PHOENIX'22 Sports Fest VJIT, Hyderabad, 12th & 13th May 2022.	Winner's & Runner's	Mr. M. Purushotham MECH-III & his team

JNTUH Wrestling All India Inter University Team 2022



Mr. K.GOUTHAM



Mr. L.SAI NANDU



Mr.V.BHAVA SAI RAM

Placement details: Department of mechanical engineering congratulates below students for being placed in various companies.

S.NO	Roll no	Name of the student	Placed in
1	18911A0301	Adimulka Vinay	Cognizant
2	18911A0303	Ahmed Zufair Ullah Shareef	Rexnord;Sutherland
3	18911A0304	Ashireddygari Sreeja	Wipro
4	18911A0305	B Sannidhi	JSW
5	18911A0311	Dadi Uday Kiran	Cyient;Mediamint
6	18911A0316	Gugulothu Naveen	Addod Solutions;Hyundai Mobis
7	18911A0317	Jogi Rahul	Addod Solutions;Cognizant
8	18911A0321	Lella Harshavardhan	Cognizant
9	18911A0328	Miryala Hruthik	Addod Solutions;Cadsys
10	18911A0329	Mudavath Teja Naik	Capgemini
11	18911A0330	Naddunoori Manohar	Cognizant
12	18911A0331	Oggu Venkata Hitha Sree	Cognizant
13	18911A0334	Pennakoduru Vamshikrishna	Quest Global;Capgemini
14	18911A0344	Veluru Hareesh	Cognizant;Sutherland;Wipro
15	18911A0347	Ameti Sri Charan	TCS
16	18911A0348	Anirudh Neelakantam	Cognizant;Technip
17	18911A0350	Bukya Sathish	Addod Solutions
18	18911A0351	Chatla Saikiran	Sutherland
19	18911A0356	Ellkolla Naveenkumar Goud	Addod Solutions
20	18911A0357	Endurthi Nuthan Teja Reddy	Cognizant;Innovas Tech Solutions
21	18911A0359	Gannevaram Pavan Kumar	Byjus;Quest Global
22	18911A0363	Juttiga Rudra Vara Prasadu	Cognizant
23	18911A0367	Kurukuntla Pavan Sagar	Cognizant;Wipro
24	18911A0369	Madaram Rajesh Kumar	Cognizant
25	18911A0372	Mathangi Anvesh Kumar	Cognizant;Wipro
26	18911A0374	Md Parvez	Capgemini

27	18911A0377	Nayakawadi Ranadheer	Innovas Tech Solutions
28	18911A0384	S Aravind Reddy	Addod Solutions
29	18911A0388	Srimantula Shiva Shanker	Addod Solutions
30	18911A0389	V Raghu	Cognizant
31	18911A0394	Bandari Deekshith	Mediamint
32	18911A0396	Bodapothula Sai Vivek Goud	Addod Solutions
33	18911A03A4	K Shashi Preetam	Eidiko
34	18911A03A5	Kalluri Rajashekar	Sutherland;Wipro
35	18911A03B3	Manchirevula Haripavan	Sutherland
36	18911A03B8	Mohammed Abrarkhan	Cognizant
37	18911A03B9	Mohammed Moinuddin Siddiqui	Addod Solutions;Sutherland
38	18911A03C2	Mokala Rohith Kumar	Sutherland
39	18911A03C6	Palakolanu Ramsai Reddy	Cognizant
40	18911A03C9	Pesaragayala Puneeth Reddy	Qspiders
41	18911A03D1	Syed Farhan Ahmed	Addod Solutions
42	18911A03D2	Syed Mahmood Yousuf	Sutherland
43	18911A03D6	Amidyala Saikumar	Cadsys;Mediamint
44	18911A03D8	Chillara Manikanta	Cognizant;Wipro
45	18911A03E2	Durushetty Varun	Sutherland
46	18911A03E9	Koshika Prashanth Kumar	Mediamint
47	18911A03G1	Nambi Sai Teja	Mediamint
48	18911A03G8	Rajanala Prudvi Raj	Cognizant
49	18911A03H0	Rohan Matthew	Addod Solutions;Sutherland
50	18911A03H2	Saliganti Nanda Kishore	Addod Solutions
51	18911A03H3	Sangareddy Achyuth Reddy	JSW;Sutherland
52	18911A03H4	Shaik Fazil Ahmed	Qspiders
53	19915A0304	Abdul Afrid	Addod Solutions;Quest Global
54	19915A0305	Aekkaladevi Rohith Kumar	Cognizant;GEP
55	19915A0308	Boddu Vamsidhar	Cognizant;GEP;TCS;Wipro
56	19915A0309	Bellam Aishwarya	Cognizant
57	19915A0311	Buyyakar Jeevan Prakash	Innovas Tech Solutions
58	19915A0314	Cheryala Veerendranath	Cognizant;TCS;Technip;Wipro
59	19915A0316	Chintakindi Sravani	Cognizant;Innovas Tech Solutions;TCS
60	19915A0318	Doddipatla Shanmukha Surya Sriteja	Accenture;Wipro
61	19915A0319	Darshinala Anvesh	Addod Solutions
62	19915A0320	Devansh Singh	Addod Solutions;Cadsys;Mediamint
63	19915A0323	Erra Dayakar	Ramky
64	19915A0327	Gummadi Karunakar	Cadsys
65	19915A0328	Janwada Gnaneshwar	Sutherland
66	19915A0333	Kamuju Pavan Sai	Innovas Tech Solutions
67	19915A0334	K Raj Kiran	Sutherland
68	19915A0339	Karike Chandra Sekhar	Innovas Tech Solutions

69	19915A0341	Khaja Safi Ullah Khan	Addod Solutions;Cognizant
70	19915A0342	Lavudiya Kalyan	Qspiders
71	19915A0343	Matam Balu Prasad	Addod Solutions
72	19915A0346	Mekala Sai Goutham	Mediamint
73	19915A0349	Maloth Sandeep	Sutherland
74	19915A0351	Mohammad Abdul Irfan Ahmed	Addod Solutions;Quest Global;Wipro
75	19915A0353	Mohammed Sadin Rayees	Addod Solutions
76	19915A0354	Mohammed Amer	Infosys;Wipro
77	19915A0357	Nadiminti Prudhvi Raju	Innovas Tech Solutions
78	19915A0360	Raghavendra Naidu Palakam Setty	Qspiders;Technip
79	19915A0361	Prajapati Rahul Kumar	Cognizant;Wipro;Capgemini
80	19915A0363	Ponneboina Vamshi Krishna	Wipro
81	19915A0364	Pasupuleti Bilvanth	Wipro
82	19915A0365	Peddammala Avinash	Cognizant
83	19915A0366	Pokury Ashok	Innovas Tech Solutions
84	19915A0367	Rejintal Anush Kumar	Addod Solutions
85	19915A0368	Regunta Jashwanth	Cadsys
86	19915A0372	Saiba Vishal Kumar	Cognizant
87	19915A0373	Teppa Vijay Kumar	Sutherland;Capgemini
88	19915A0374	Thatepally Srividya	Cognizant;Qspiders

Information Bulletin for Students

- ✓ GATE 2023, the Graduate Aptitude test will be conducted on 4, 5, 11, 12 of February, 2023.
- ✓ Students of final year will be given the award for BEST Project depending upon the work done for their project.

Meet you again in the next Issue of **MECH VIDYA**

Vision of Institute

To develop into a reputed Institution at National and International level in Engineering, Technology and Management by generation and dissemination of knowledge through intellectual, cultural and ethical efforts with human values.

To foster Scientific Temper in promoting the World class professional and technical expertise.

Mission of the Institution

To create state of art infrastructural facilities for optimization of knowledge acquisition

To nurture the students holistically and make them competent to excel in the global scenario

To promote R&D and Consultancy through strong Industry Institute Interaction to address the societal problems.

Vision of Department

To be recognized as a center of excellence in providing Mechanical Engineering education of international standards leading to well qualified engineers who are innovative,

immediate contributors to their profession, successful in advanced studies and employable globally.

Mission of Department

To educate, prepare and mentor students to excel as professionals and grow throughout their careers in the field of Mechanical Engineering. This can be accomplished by:

Providing the facilities and environment conducive to a high quality education, strong foundation in the fundamental principles of Mechanical Engineering and preparing them for diverse careers.

Engaging in academic activities, which strengthen the students regional, national and international reputation.

Program Educational Objectives (PEOs)

PEO-I: Successful career in mechanical and allied industries through strong foundation in basic sciences, mathematics and engineering fundamentals.

PEO-II: Ability to update knowledge on dynamically changing industrial practices.

PEO-III: Capability to work in a global environment imbuing team spirit with ethical responsibility.

PEO-IV: Ability to enrich knowledge, communication and leadership skills through perpetual learning with zeal towards research.

Program Specific Outcomes (PSOs)

PSO-I: Analyze and solve problems of thermal and manufacturing by comprehensive design of mechanical engineering components.

PSO-II: Ability to design, develop and implement mechanical engineering solutions keeping in view, sustainability and environmental issues with social responsibility.

“Education is one thing no one can take away from you.” — Elin Nordegren