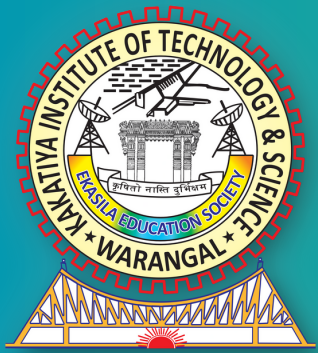




ESTD-1980
KITSW

DEPARTMENT OF MECHANICAL ENGINEERING
KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE: WARANGAL
(An Autonomous Institute under Kakatiya University, Warangal)
Opp. Yerragattu Hillock, Warangal, Telangana-506015

MAGAZINE

THE PRO-DIGY

2022-23

FACULTY EDITORIAL TEAM:

Dr. K. Raja Narendra Reddy, Prof & Head MED

Sri. K. Kishore Kumar, Assistant Professor

Sri. V. Rajesh, Assistant Professor

Dr. B. Srinivasa Reddy, Assistant Professor

STUDENT EDITORIAL BOARD

K. Siddhartha, IV/IV



MAGAZINE

THE PRO-DIGY: 2022-23

DEPARTMENT OF MECHANICAL ENGINEERING



Dr. K. Ashoka Reddy
Principal

The Mechanical Engineering department of KITSW has distinguished itself through its achievements and contributions in academics, research and social responsibility.

I feel that bringing out a magazine at departmental level is a breakthrough idea which connects every single person in the department and the content in it surely motivates everyone to put their best effort to improve the performance of the department.

I feel students are the primary benefiterers of this work through which they can communicate, learn about the department and finally add another useful skill to themselves by contributing to this work.

As I look forward, I can visualize that this effort by the team will grow the standards of the department and improve its efficiency, quality, and strength.



Dr. K. Raja Narendra Reddy
Prof. & HOD, MED

As the Head of Mechanical Engineering department of this institute, I'm always immensely delighted for its distinction and excellence and feel that great responsibility of improving the standards and efficiency of the department is on my shoulders.

Our annual departmental magazine is one among those extraordinary works which glorifies the department as the title "THEPRODIGY" explains the motto very intensely.

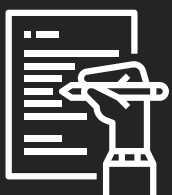
I am extremely happy that this tradition serves as a good purpose to unite the entire department and displays the strength in our students thought process.

I whole heartedly congratulate our team and appreciate for their efforts and I wish all the best.



Chief Editor

Dr. K. Raja Narendra Reddy
Professor & Head



Editors-in-charge

K. Kishore Kumar, Assistant Professor
Sri V. Rajesh, Assistant Professor
Dr. B. Srinivasa Reddy, Assistant Professor



Student Editorial Board

K. Siddhartha, IV/IV



Capt. V. Lakshmikantha Rao
Chairman, Ex M.P. (R.S.)
KITSW

I am very glad that the department of Mechanical Engineering of this Institute has unveiled “THEPRODIGY 2023”, an annual departmental magazine displaying significance of the department and its involvement in improving the value of this institute. It gives me a pleasure reading this magazine consisting of a lot of valuable content and I whole heartedly appreciate the department and its editorial team for building this icon of fame.

I am fully convinced that this institution is self-sufficient in the objectives and values of true education and this work is indubitably a concrete form of this Learning Center’s great Endeavour. I am sure that this book of great value inspires everyone to achieve more and set new bench marks to all the forthcoming generations.

I congratulate the students and Staff and wish a grand success.



P. Narayana Reddy
Treasure, KITSW

From the inception of the institute in 1980, the Mechanical Engineering Department has been involved in imparting quality education and research through various programmes.

I believe that this work of bringing out a departmental magazine “THEPRODIGY” will be of great help to students as they can understand its vision, its mission and the varied ideas of the student community in the best way by witnessing all the happenings of the department in this year and realizing their true essence.

I deem it as a privilege to compliment the faculty and staff for the efforts and commitment put forth for making this a success. I wish the department all the success and I hope everyone enjoys learning from this magazine.

VISION OF THE INSTITUTE

- To make our students technologically superior and ethically strong by providing quality education with the help of our dedicated faculty and staff and thus improving the quality of human life.

MISSION OF THE INSTITUTE

- To provide latest technical knowledge, analytical and practical skills, managerial competence and interactive abilities to students, so that their employability is enhanced.
- To provide a strong human resource base for catering to the changing needs of the Industry and Commerce.
- To inculcate a sense of brotherhood and national integrity.

VISION OF THE MECHANICAL DEPARTMENT

- To be a centre of excellence in Mechanical Engineering, to provide the best teaching-learning and research environment, to produce high quality professionals and entrepreneurs to cater the needs of society.

MISSION OF THE MECHANICAL DEPARTMENT

- To impart quality education that builds strong ethical attitude, technical knowledge and professional skills by providing congenial teaching-learning environment.
- To nurture the reasoning, problem solving and research capabilities of learners by providing the state-of-the-art facilities, to meet the changing needs of society.
- To inculcate life-long learning and leadership traits for successful professional careers, by counseling and mentoring.

Program Educational Objectives (PEOs) of B. Tech in Mechanical Engineering Program

PEO1: To provide comprehensive knowledge in basic sciences, mechanical engineering and multi disciplinary areas.

PEO2: To apply modern tools and techniques to design, analyze, interpret and solve mechanical and allied engineering problems and communicate them effectively.

PEO3: To impart responsibility towards socio-technical, economical, environmental and energy related issues

PEO4: To inculcate professionalism, ethical attitude, team spirit and lifelong learning to achieve career goals.

Program Outcomes (POs) of B. Tech in Mechanical Engineering Program Engineering Graduates will be able to:

PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

PO2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

PO3: 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.

PO4: 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.

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling, to complex engineering activities with an understanding of the limitations.

PO6: 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.

PO7: 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.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and teamwork: Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings.

PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: 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.

PO12: 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.

Program Specific Outcomes (PSOs) of B.Tech in Mechanical Engineering Program

PSO1: To apply learned principles and knowledge in various applications of materials, design, thermal, production, and industrial engineering.

PSO2: To model, analyze, design, develop, and implement advanced mechanical systems or processes.

Program Educational Objectives (PEOs) of PG - M. Tech (Design Engineering) Program

The postgraduates of DESIGN ENGINEERING will be able to...

PEO1 (Research and Innovation): engage in research, innovation and in teaching in Higher education institutions

PEO2 (Technical expertise and Successful career): excel in profession in industry, and entrepreneurship with updated technologies in the domain of design engineering

PEO3 (Soft skills and Lifelong learning): exhibit professional ethics, effective communication and teamwork in solving engineering problems by adapting contemporary research towards sustainable development of society

Program Outcomes (POs) of PG - M. Tech (Design Engineering) Program

At the time of graduation, the postgraduates of Design Engineering will be able to ...

PO1: independently carry out research /investigation and development work to solve practical problems

PO2: write and present an effective technical report/document

PO3: demonstrate competence in the area of design engineering

Program Specific Outcomes (PSOs) of PG - M. Tech (Design Engineering) Program

The postgraduates of Design Engineering will be able to...

PSO1: apply knowledge of design engineering for development of effective and innovative solutions to engineering problems

PSO2: apply appropriate methodology, contemporary hardware and software tools to solve complex engineering problems in the domain of design engineering

FACULTY PROFILE

S. No.	Name of the Faculty	Qualification (specialization)	Designation
1	Dr. K. Eswaraiiah	Ph.D. (Production Engg.)	Professor
2	Dr. K. Sridhar	Ph.D. (Energy Systems)	Professor
3	Dr. K. R. Narender Reddy	Ph.D. (Natural Fiber Composites)	Professor & Head
4	Dr. P. Srikanth	Ph. D. (Production Engg.)	Professor
5	Dr. U. Shrinivas Balraj	Ph. D. (EDM)	Professor
6	Dr. G. Ganesh Kumar	Ph.D. (Heat Transfer)	Associate Professor
7	Dr. P. Prabhakara Rao	Ph. D. (Foundry & Forge Tech.)	Associate Professor
8	Dr. A. Devaraju	Ph. D. (Welding Technology)	Associate Professor
9	Dr. P.S.S. Murthy	Ph. D.(Mechanical Vibrations)	Assistant Professor
10	Dr. J. Laxman	Ph.D. (EDM)	Assistant Professor
11	Dr. S. Chandramouli	Ph.D. (EDM)	Assistant Professor
12	Dr. G. Srinivasa Rao	Ph.D. (Heat Transfer)	Assistant Professor
13	Sri Ch. Karunakar	M. E. (Production Engg.)	Assistant Professor
14	Sri S. Ramesh	M. Tech. (Thermal Engg.)	Assistant Professor
15	Sri A. Hari Kumar	M.S. (Computational Engg.)	Assistant Professor
16	Sri S. Anil Kumar	M. Tech. (Thermal Engg.)	Assistant Professor
17	Sri K. Kishor Kumar	M. Tech. (Design Engg.)	Assistant Professor
18	Sri M. Anil Kumar	M. Tech. (Design Engg.)	Assistant Professor
19	Dr. MD. Sameer	Ph. D (Welding Technology)	Assistant Professor
20	Dr. G. Sai Kumar	Ph. D (Material Science & Metallurgy)	Assistant Professor
21	Dr. G. Srinu	M. Tech (Production Engg.)	Assistant Professor
22	Smt. P. Anitha	M. Tech. (Design Engg.)	Assistant Professor
23	Sri B. Ravi Kumar	M. Tech. (Design Engg.)	Assistant Professor
24	Sri S. Sripathy	M. Tech. (Design Engg.)	Assistant Professor
25	Sri V. Srikanth	M. Tech. (Design Engg.)	Assistant Professor
26	Sri V. Prasanna	M. Tech(AMS)	Assistant Professor
27	Sri D. Sammaiah	M. Tech(AMS)	Assistant Professor
28	Sri V. Rajesh	M. Tech (AMS)	Assistant Professor
29	Ms. P. Divya	M. Tech. (Design Engg.)	Assistant Professor
30	Sri V. Rakesh	M. Tech. (Design Engg.)	Assistant Professor
31	Sri P. Anil Kumar	M. Tech. (Engineering Design)	Assistant Professor
32	Sri P. Sreedhar	M. Tech. (Industrial Metallurgy)	Assistant Professor
33	Sri V. Pradeep	M. Tech. (Design Engg.)	Assistant Professor
34	Dr. E. Ramesh	Ph. D(Thermal Engineering)	Assistant Professor
35	Dr. Shakunthala Ohja	Ph. D (Composite Materials)	Assistant Professor
36	Dr. T. Manoj Kumar	Ph. D (Micro fluidics)	Assistant Professor
37	Dr. B. Srinivasa Reddy	Ph. D (Fuels Cells)	Assistant Professor

NON TEACHING STAFF

S. No.	Name of the staff	Qualification	Designation
1	Sri A. Rathnakar	I.T.I	Instructor
2	Sri M. Madhukar	M.C.A	Programmer
3	Sri D. Kishan	I.T.I	Mechanic
4	Sri K. Venkata Ramana	I.T.I	Mechanic
5	Sri K. Ravi Kumar	D.M.E	Mechanic
6	Sri M. Sumanth	B. Tech(CSE)	Programmer
7	Sri A. Poshalu	I.T.I	Instructor
8	Sri M. Madhusudhan	D.M.E.	Instructor
8	Sri Md. Vilayath Ali	L.M.E.	Instructor
10	Sri K. Shankarachary	I.T.I	Instructor
11	Ms. Rubeena Begum	MBA	Jr. Assistant
12	Sri P. Rajinikanth	S.S.C	Attender

MESA EVENT SCHEDULE FOR THE ACADEMIC YEAR- 2022-2023

S.no	Date	Name of the event
1	16.08.2022 (Tuesday)	Inaugural of MESA for A.Y-2022-23
2	19.08.2022 (Friday)	Session on “Opportunities for Mechanical Engineers on Advanced Simulation Process” by Sri. Raja Mahendra, Simulation Engineer, Mayinkrish solutions, Bangalore
3	19.08.2022 (Friday)	World Photography Day Celebrations
4	23.08.2022 (Tuesday)	Session on " Exploring the Avenues in Automotive Sector" by
5	25.08.2022 (Thursday)	A Session on “Role of Mechanical Engineers in Indian industries” by Ms. S. Kousalya, Associate Engineer, Integrated Engineering Dept. Technip FMC, Hyderabad
6	30.08.2022 (Tuesday)	Debate Competition
7	05.09.2022 (Monday)	Teachers’ Day Celebration
8	06.09.2022 (Tuesday)	Career opportunities for Mechanical Engineering students
9	13.09.2022 (Tuesday)	Auto-quiz & Ingenuous Solutions for B.Tech III semester students Group Discussion for B.Tech V semester Students
10	15.09.2022 (Thursday)	Engineers’ Day Celebration
11	16.09.2022 (Friday) to 17.09.2022 (Saturday)	TECHNICAL FEST SUMSHODHINI
12	20.09.2022 (Tuesday)	Project Exhibition Awareness Program on Resume building
13	27.09.2022 (Tuesday)	Mock Press for B.Tech III semester Students Auto Quiz & Ingenuous Solutions for B.Tech V semester students
MSE- I Break		
14	14.10.2022 (Friday)	World Standards Day
15	18.10.2022 (Tuesday)	Awareness Program on Intellectual Property Rights (IPR) with Special Emphasis on Mechanical and Civil Related Inventions under National Intellectual Property Rights Awareness Mission (NIPAM), Govt. of India.
16	01.11.2022 (Tuesday)	Auto Bidding
17	15.11.2022 (Tuesday)	Trouble Shooting (Day-to-Day problems)
18	16.11.2022 (Wednesday)	International day for Endurance
19	22.11.2022 (Tuesday)	MECathon(Encouraging Innovations)
20	29.11.2022 (Tuesday)	Poster Presentation

21	14.12.2022 (Wednesday)	International Energy Day
SEMESTER BREAK		
22	03.01.2023 (Tuesday)	Auto-quiz & Ingenuous Solutions
23	09.01.2023 (Monday)	Pravasi Bharatiya Divas - NRI Day
24	10.01.2023 (Tuesday)	Introduction to FEA through ANSYS
25	17.01.2023 (Tuesday)	JAM (Just a minute) Session
26	24.01.2023 (Tuesday)	Role play National Girl Child day of India
27	25.01.2023 (Wednesday)	National Voters Day & India Tourism Day
28	31.01.2023 (Tuesday)	Importance of Programming Languages Bootcamp on C , C++ & Java
29	07.02.2023 (Tuesday)	Internal Hackathon
30	14.02.2023 (Tuesday)	Business plan Presentation
MSE-I Break		
31	21.02.2023 (Tuesday)	Portrait commenting & International Mother Language day
32	27.02.2023 (Monday)	World Sustainable Energy Day
33	28.02.2023 (Tuesday)	Word buzz & National Science Day
34	14.03.2023 (Tuesday)	Session on “Fundamentals of computational fluid dynamics and applications”
35	15.03.2023 (Wednesday)	World Consumer Rights Day
36	21.03.2023 (Tuesday)	Awareness Program on Resume building
37	23.03.2023 (Thursday)	World Meteorological Day
38	28.03.2023 (Tuesday)	Auto Bidding & Trouble Shooting
39	07.04.2023 (Friday)	World Health Day
40	11.04.2023 (Tuesday)	Project Expo

Faculty In-charge MESA
Sri. K. Kishor Kumar
Sri V. Rajesh
Dr. B. Srinivasa Reddy

Dr. K. Raja Narender Reddy
Professor & Head, MED.

16th August 2022

MESA Inaugural Session

An inaugural session of Mechanical Engineering Students Association was held on August 16, 2022, for the academic year 2022-23. The inaugural event was conducted successfully with the cooperation of the back stage team. The audience turnout was exceptional. The audience consisted of faculty of mechanical engineering, students from the discipline of mechanical engineering.

The session opened its curtains in the MESA hour allotted on the time period from 11:40 am to 12:30 pm. Firstly the General Secretary, Seervi Vidhi invited the dignitaries onto the dais followed by their introduction. The next a wonderful speech was given by a faculty coordinator, Mr. B Srinivas Reddy, one of the dignitaries of the session. The speech enlightened the students about the history of mechanical engineering in our college and the appointment of MESA. The president of the executive council, Mr. K. Siddharta was invited on the dais by Mr. B. Srinivas Reddy.

The president has briefly shed some light about the role of MESA in the mechanical engineering department and how it is managed by synchrony in the students. Then the members of the executive council were introduced.

Followed by the recent event, MESA faculty coordinator Mr. Kishor Kumar was invited by the president to say some words regarding MESA. In lieu of this, Mr. K Kishor Kumar has said some awe-inspiring words about his history, involvement in MESA along, its evolution and how the progressions were being made in the association. On the conclusion of his speech, Mr. U. Srinivasa Balaraj was invited on the dais.

Mr. U. Srinivasa Balaraj has conveyed the main goal, ideology and cruciality of MESA. He helped to understand how MESA is for the students, by the students and run by the students along with faculty support. Interesting facts were shared regarding the MESA. The goal to work, prosper and make progress to bring laurels to mechanical engineering department was effectively conveyed. The history of Mr. U. Srinivasa Balaraj and Mr. K Kishor Kumar working together for the establishment and progress of MESA was told. After the conclusion, the head of the department, Dr. K. Raja Narendar Reddy was invited onto the dais to convey his views and enlighten further on MESA and the fair participation of the students of the executive council.

Dr. K. Raja Narendar Reddy, department of mechanical engineering has perfectly conveyed the main aim, purpose of MESA. He further shed some light on how the roles assigned to various members of the executive council work, cruciality of diplomacies among team members, ethical code of conduct. The process of smooth conduction of events was explained. He also shared how valuable and leading the MESA is among the other student associations of other branches. He also portrayed how being a part of MESA contributes to the enhancement, development of interpersonal skills. He concluded his speech by congratulating all the appointees and wishing them good luck. Following the conclusion, Mr. V Rajesh was invited to present the vote of thanks and conclude the inaugural session.

Mr. V Rajesh presented the vote of thanks and thanked all the members for the successful conduction of the event, the active participation of the students and all the faculty members. The inaugural session was concluded, followed by a photoshoot session of all the members of MESA.



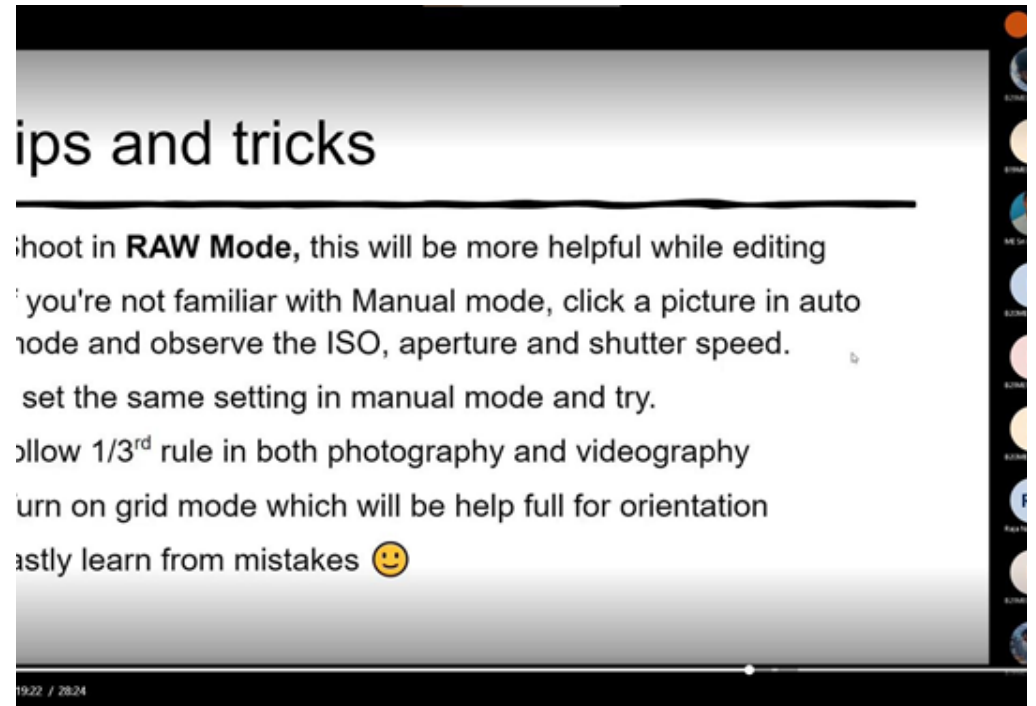
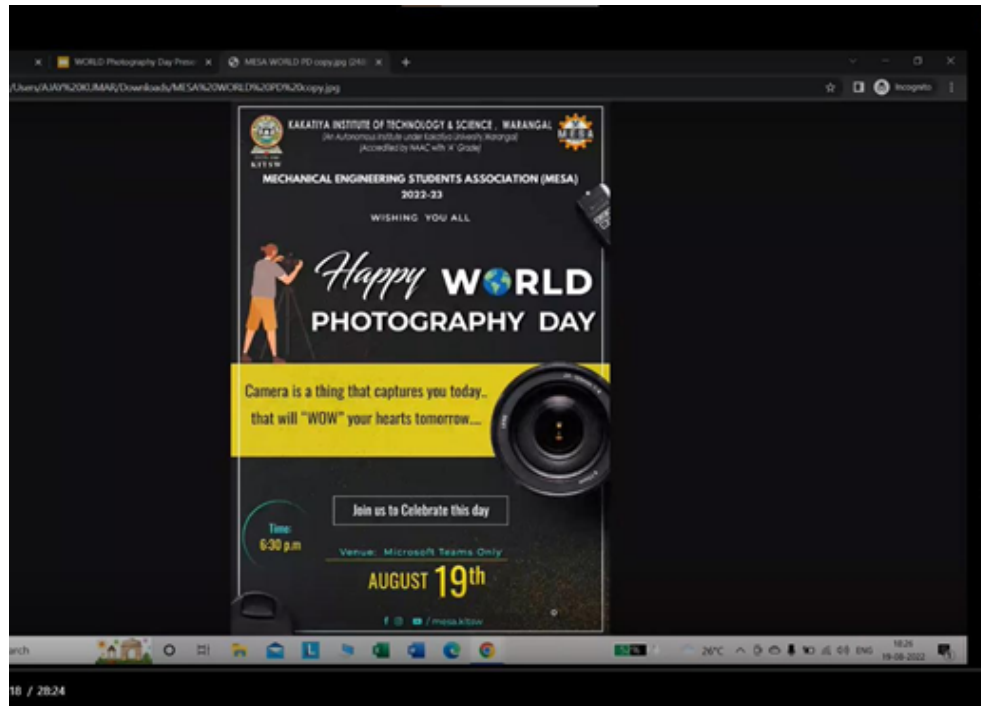


Head of the department addressing the audience



19 August, 2022 WORLD PHOTOGRAPHY DAY

The online event witnessed its opening on August 19, 2022, at 6:30 pm. The session has begun with a welcome address by the General Secretary, Seervi Vidhi. She addressed the students about the dignitaries of the event. President K. Siddhartha briefly talked about the occasion. Following it, Mr. Venkata Rudhra Sai Teja of 5 ME- 2 addressed the session on the eve of world photography day and explained the skill of great demand, photography.



OPPORTUNITIES FOR MECHANICAL ENGINEERING STUDENTS IN ADVANCED SIMULATION PROCESS

Following the successful conduction of the MESA inaugural session, a consequent session was organized on August 18, 2022 named "OPPORTUNITIES FOR MECHANICAL ENGINEERING IN ADVANCED SIMULATION PROCESS". The title and area of discipline inspired, attracted and left the hall filled with elevated, curious and zealous students. The invited guest and the speaker of the session was Mr. Raja Mahendra, Simulation Engineer, Mayinkrish from Bangalore.



21 August, 2022
Report of the webinar titled:
Journey from Innovation to Entrepreneurship



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE: WARANGAL
(Accredited by NAAC with 'A' Grade)
(An Autonomous Institute under Kakatiya University)





**INSTITUTION'S
INNOVATION
COUNCIL**
(Ministry of HRD Initiative)

**CENTRE FOR INNOVATION, INCUBATION, RESEARCH
AND ENTREPRENEURSHIP (I²RE) - KITSW &
DEPARTMENT OF MECHANICAL ENGINEERING
IN COLLABORATION WITH
ENTREPRENEURSHIP DEVELOPMENT CELL (KITSW)**

ON OCCASION OF 'WORLD ENTREPRENEURS' DAY'
presents a webinar on

**" JOURNEY FROM INNOVATION
TO ENTREPRENEURSHIP "**



Mr. KIRAN LAKKAPRAGADA
co-founder, KiksAR Technologies

ON 21ST AUGUST, 2022 (11:00 AM TO 12:00 PM)
THROUGH MS TEAMS (LINK WILL BE SHARED)

Sri. K. Kishor Kumar
Convener, EDC, KITSW

Dr. B. Jagadish Kumar
Coordinator, EDC, KITSW

Dr. S. Sunil Pratap Reddy
President, IIC, KITSW

Dr. K. Raja Narendar Reddy
Professor & Head, MED

Dr. P. Srikanth
Head, Centre for I²RE

Dr. K. Ashoka Reddy
Principal, KITSW

The session was devoted to a webinar titled, „Journey from Innovation to Entrepreneurship“. It was conducted on 21st August, 2022 from 11:00 am to 12:00 pm IST. The platform of the webinar was MS Teams. The invited speaker, Mr. Kiran Lakkapragada is an alumnus of KITSW and a successful entrepreneur. He is the co-founder of KiksAR Technologies, an AR based firm. The attendees of the session apart from Mr. Kiran were as follows:

1. Sri. K Kishor Kumar- Convener, EDC, KITSW
2. Dr. B Jagadish Kumar- Coordinator, EDC, KITSW
3. Dr. S. Sunil Pratap Reddy- President, IIC, KITSW
4. Dr. K. Raja Narendar Reddy- Professor & Head, MED, KITSW
5. Dr. P. Srikanth- Head- Centre for I²RE
6. Dr. K. Ashoka Reddy- Principal, KITSW

Report on RIPE Program 24th August, 2022

The RIPE program was scheduled on 24th August, 2022 from 9:30 am to 4:00 pm including a lunch break scheduled from 12:30 pm to 1:30 pm in the middle. Following the inaugural event, the RIPE program was completed successfully by the speaker, Mr. Ramprasad LV.



Faculty Publications

1. Srinivasa Reddy Badduri, G. Naga Srinivasulu, S. Srinivasa Rao, V. Venkateswarlu, Ch. Karunakar, K. Sridhar, and A. V. S. Ramanuja Charyulu, "Effect of interdigitated leaf channel design bipolar plate on the performance of proton exchange membrane fuel cell," Chem. Papers Vol. 77 (2) PP. 1095–1106, September 2023. DOI: 10.1007/s11696-022-02517-1.
2. Srikanth V, Reddy KRN. Investigation of thermo-mechanical properties of Cochlospermum Gossypium composite materials with inserted OPM fibre. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering. 2023; 0(0). doi:10.1177/09544089231152714
3. M. Madhavi and P. Srikanth, "Characterization of process parameters in micro EDM on stainless steel", Materials Today: Proceedings, 2023
4. Madhavi and P. Srikanth, "A Micro-EDM based experimental study of surfacetexture on stainless steel 316 micro-machined holes", Materials Today: Proceedings, 2023.
5. Rugveda Thanneeru, Sadia Alvi, Sai K. Gadakary, Ganesh K. Gampa, James Antaki, Harvey S. Borovetz, Naveen Chander Reddy, P. S. Reddy (2023), "INDUS: Economical Maglev Centrifugal Blood Pump for Developing Countries- Preliminary In-Vitro Hemolysis Testing", ASAIO Journal June 23, Volume 68 (2), ISSN 1058-2916, pp 63, Wolters Kluwer Publishers (SCI Journal).
6. Battula, N.K., Daravath, S. and Ganesh Kumar, G., (2023), "Numerical studies on conjugate convection from discretely heated electronic board", World Journal of Engineering, ISSN: 1708-5284 Vol. 20(4)
7. Akhil Raja Keshetti, Aruri Devaraju, L. Rohith, P. Manish Reddy and M.D. AssadullaSharfi, "Influence of volumetric percentage of high entropy alloys on mechanical behaviour of 6061 T6 Al alloy surface composite processed by friction stir processing", Adv. Mater. Process. Technol., Taylor & Francis, Published online: 23 Dec 2022. (Scopus Indexed)
8. Ravi Prakash Babu Kocharla, Raghu Kumar Bandlamudi, Devaraju Aruri, MurahariKolli, SatyanarayanaKosaraju and G. Sai Kumar, "Finite element modeling aspects in the fracture assessment of a low pressure steam turbine blade", Int. J. Interact. Des. Manuf., Springer, Published: 04 October 2022.(Scopus Indexed)
9. MurahariKolli, Satyanarayana Kosaraju, Devaraju Aruri and Medikondur Nageswara Rao, "Influence of Rotary Assisted Electrical Discharge Machining of 17-4PH Stainless Steel Using Taguchi Technique", Indian J. Eng. Mater. Sci., vol. 29, pp. 799-806, Dec 2022. (CSIR-NIScPR) (SCI Indexed)
10. Srinivasa Reddy Badduri, G. Naga Srinivasulu, S. Srinivasa Rao, V. Venkateswarlu, Ch. Karunakar, K. Sridhar, and A. V. S. Ramanuja Charyulu, "Effect of interdigitated leaf channel design bipolar plate on the performance of proton exchange membrane fuel cell," Chem. Papers Vol. 77 (2) PP. 1095–1106, September 2023. DOI: 10.1007/s11696-022-02517-1.
11. Harikumar Andem and Dr. Ramesh Babu P., "Characterization and Fabrication of Aluminium Foam using Powder Metallurgy Method", International Journal of Mechanical Engineering, Volume 7, Issue 08, pp 393–399, August 2022.
12. MD Sameer, Pabba Srikanth and B Shalini Valentina, "Mechanical and microstructural properties of stir cast aluminium metal matrix composites reinforced with B4C and Al2O3 nanoparticles", Positif Journal, Vol 22, Issue 7, 2022, Page No : 423-433. <https://doi.org/10.37896/psj30.7/1234>.
13. N. Shruthi, Md. Sufiyan, K. Sai Suhas Reddy, Ch. Shiva Manikanta and MD.Sameer, "Study of mechanical, microstructural and tribological properties of Friction Stir welded AZ91 Magnesium alloy reinforced with Al2O3 nanoparticles", Positif Journal, Vol. 22, Issue 7, 2022, Page No : 444-455. <https://doi.org/10.37896/psj30.7/1236>
14. O. Mounika, B.Ramya, Manoj Kumar, B. Abhinay and Sameer MD, "Optimization of EDM Parameters for Machining Stir cast Aluminium metal matrix composites using RSM and Taguchi Method" Positif Journal, Vol 22, Issue 7, 2022, Page No : 434-443. <https://doi.org/10.37896/psj30.7/1235>

15. Kocharla, R.P.B., Bandlamudi, R.K., Aruri, D. MurahariKolli, Satyanarayana, K. & Sai Kumar, G. Finite element modeling aspects in the fracture assessment of a low pressure steam turbine blade. Int J Interact Des Manuf (October, 2022). <https://doi.org/10.1007/s12008-022-01045-2>
16. Srikanth V, Reddy KRN. Investigation of thermo-mechanical properties of Cochlospermum Gossypium composite materials with inserted OPM fibre. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering. 2023; 0(0). doi:10.1177/09544089231152714
17. Srinivasa Reddy Badduri, G. Naga Srinivasulu, S. Srinivasa Rao, V. Venkateswarlu, Ch. Karunakar, K. Sridhar, and A. V. S. Ramanuja Charyulu, “Effect of inter digitated leaf channel design bipolar plate on the performance of proton exchange membrane fuel cell,” Chem. Papers Vol. 77 (2) PP. 1095–1106, September 2023. DOI: 10.1007/s11696-022-02517-1.
18. Sateesh Kumar Manupati, G Naga Srinivasulu and Srinivasa Reddy Badduri, “Experimental investigation of a natural circulation fuel delivery system on the performance of an air breathing direct methanol fuel cell with liquid electrolyte layer” sadhana, Vol.5, PP. 879-897, April 2023. DOI: <https://doi.org/10.1007/s12046-023-02264-3>

Details of FDPs/ STTPs / Workshops/ Conferences organized by the Department during 2022-23:

S. No.	Organized STTP/ FDP/ Workshop/ Conference	Title of STTP/ FDP/ Workshop/ Conference	Coordinators	Duration & Dates	No. of participants
1	FDP	One week Faculty Development Programme (FDP) on Hands on Program on Additive Manufacturing (HPAM)-2023	1. Dr. G. Ganesh Kumar 2. Sri A. Hari Kumar	11-16 March, 2023	46
2	FDP	One week Faculty Development Programme (FDP) on "Innovations in Teaching Learning Process in Mechanical Engineering"	Dr. U. Shrinivas Balraj	5-9 December, 2022	38
3	Workshop	Two day Workshop Design and 3D Printing of Novel Components	Sri K. Kishor Kumar	18.11.2022 to 19.11.2022	60
4	Webinar Series under Inculcating Inspiration Making (IIM@ME)	Cam Less Engine	Sri K. Kishor Kumar	01.07.2022	11
5	Webinar Series under Inculcating Inspiration towards self discipline & commitment (IISC@ME)	Remembering Tribal Hero Who Led Fight Against British-Alluri Sitarama Raju	Sri V. Rajesh	04.07.2022	9
6	Webinar Series under Inculcating innovative thoughts(IIT@ME)	Ritesh Agarwal-Founder and CEO of OYO.	Sri P. Anil Kumar	06.07.2022	13
7	Webinar Series under IIM@ME	4d-Printing	Sri K. Kishor Kumar	08.07.2022	16
8	Webinar Series under IISC@ME	The Untold Story of the Freedom Fighter Jayaprakash Narayan	Sri V. Rajesh	11.07.2022	11

9	Webinar Series under IIT@ME	Bhavish Agarwal, CEO of Ola	Sri P. Anil Kumar	13.07.2022	15
10	Webinar Series under IIM@ME	Humanoid Robotics	Sri K. Kishor Kumar	15.07.2022	12
11	Webinar Series under IISC@ME	Inspiring Story of Miracle Man of Medicine-Dr. Yella Pragada Subbarao	Sri V. Rajesh	18.07.2022	13
12	Webinar Series under IIT@ME	Anu Meena-Founder & CEO of Agrowave	Sri P. Anil Kumar	20.07.2022	16
13	Webinar Series under IIM@ME	Anti-Drone Mechanism	Sri K. Kishor Kumar	22.07.2022	18
14	Webinar Series under IISC@ME	An Indian Philosopher, Ram Singh Kuka	Sri V. Rajesh	25.07.2022	16
15	Webinar Series under IIT@ME	The Evolving of Vijay Shekhar Sharma-Founder of Paytm As An Entrepreneur	Sri P. Anil Kumar	27.07.2022	10
16	Webinar Series under IIM@ME	A Plug-In Hybrid	Sri K. Kishor Kumar	29.07.2022	12
17	Webinar Series under IISC@ME	A Mighty Clairvoyant of Nationalism-Bipin Chandra Pal	Sri V. Rajesh	01.08.2022	11
18	Webinar Series under IIT@ME	Growth Trajectory of Deepinder Goyal-Founder &C.E.O of Zomato	Sri P. Anil Kumar	03.08.2022	13
19	Webinar Series under IIM@ME	Solar Collectors	Sri K. Kishor Kumar	05.08.2022	18
20	Webinar Series under IISC@ME	A Braveheart Youth Martyr Babu Genu.	Sri V. Rajesh	08.08.2022	15
21	Webinar Series under IIT@ME	Growth Trajectory of Sachin Bansal-Founder & C.E.O of Flipkart	Sri P. Anil Kumar	10.08.2022	20
22	Webinar Series under IIM@ME	Cryogenic Treatment of Brake Rotars	Sri K. Kishor Kumar	12.08.2022	11
23	Webinar Series under IISC@ME	The Journey of the Indian National Flag	Sri V. Rajesh	15.08.2022	9
24	Webinar Series under IIT@ME	Growth Trajectory of Deep Kalra_CEO of Make My Trip	Sri P. Anil Kumar	17.08.2022	15
25	Webinar Series under IIM@ME	Making Projects Using Arduino	Sri K. Kishor Kumar	19.08.2022	12
26	Webinar Series under IISC@ME	The Legendary King of Jagdishpur-Veer Kunwar Singh	Sri V. Rajesh	22.08.2022	13
27	Webinar Series under IIT@ME	Bharat Sethi's Growth Pathway as CEO of Rage Coffee	Sri P. Anil Kumar	24.08.2022	16
28	Webinar Series under IIM@ME	Ceramic Rotars for Brakes	Sri K. Kishor Kumar	26.08.2022	18
29	Webinar Series under IISC@ME	An Indian Educator, Political Activist, And Publisher-Aruna Asaf Ali	Sri V. Rajesh	29.08.2022	16

30	Webinar Series under IIT@ME	Growth Trajectory of Azim Premji_CEO of Wipro	Sri P. Anil Kumar	31.08.2022	10
31	Webinar Series under IIM@ME	Making of Roboic Arm	Sri K. Kishor Kumar	02.09.2022	12
32	Webinar Series under IISC@ME	The untold story of an Indian political activist and writer—Vinayak Damodar Savarkar	Sri V. Rajesh	05.09.2022	11
33	Webinar Series under IIT@ME	Growth Trajectory of Karan Chawla_CEO of Thapar Techie's	Sri P. Anil Kumar	07.09.2022	13
34	Webinar Series under IIM@ME	making of a radiator	Sri K. Kishor Kumar	09.09.2022	18
35	Webinar Series under IISC@ME	The Revolutionary Career of Batukeshwar Dutt	Sri V. Rajesh	12/9/2022	15
36	Webinar Series under IIT@ME	Growth Trajectory Of Trishneet Arora_C.E.O of Tac Security	Sri P. Anil Kumar	14.09.2022	20
37	Webinar Series under IIM@ME	The Operation Of A Piezoelectric Actuator	Sri K. Kishor Kumar	16.09.2022	11
38	Webinar Series under IISC@ME	The Life And Journey Of "Legenedary Engineer Sir Mokshagundam Visvesvaraya"	Sri V. Rajesh	19.09.2022	9
39	Webinar Series under IIT@ME	Growth Trajectory Of Ola Kallenius_CEO Of Mercedes-Benz	Sri P. Anil Kumar	21.09.2022	15
40	Webinar Series under IIM@ME	How Are The Timy Parts Of Analogue Watches Manufactured?	Sri K. Kishor Kumar	23.09.2022	12
41	Webinar Series under IISC@ME	The Inspiring Story Of The Freedom Fighter And Educationalist Pandit Mada. Mohan Malaviya	Sri V. Rajesh	26.09.2022	13
42	Webinar Series under IIT@ME	Growth Trajectory Of Enzo Ferrari, C.E.O Of Ferrari	Sri P. Anil Kumar	28.09.2022	16
43	Webinar Series under IIM@ME	Suspension Dampers	Sri K. Kishor Kumar	30.09.2022	18
44	Webinar Series under IIT@ME	Growth Trajectory Of Unsoo Kim, C.E.O Of Hyundai Motor India Limited	Sri P. Anil Kumar	05.10.2022	16
45	Webinar Series under IIM@ME	How Are Automobile Mufflers Manufactured?	Sri K. Kishor Kumar	07.10.2022	10
46	Webinar Series under IISC@ME	Sukhdev Thapar, An Indian Revolutionary Who Fought The British	Sri V. Rajesh	10.10.2022	12
47	Webinar Series under IIT@ME	Growth Trajectory Of Divya Gandotra Tandon-CEO Of Scoop Beats Pvt. Ltd.	Sri P. Anil Kumar	12.10.2022	11
48	Webinar Series under IIM@ME	Dual Clutch Transmission	Sri K. Kishor Kumar	14.10.2022	13

Conferences attended by the faculty, for presenting research papers, during 2022-23:

S. No.	Name of the Faculty	Details of conference where papers were presented	Venue	Dates of the conference	Title of the paper presented, including page numbers
1	Dr. K. Sridhar	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)	NIT Warangal.	June 23-25, 2023	Exergoeconomic Analysis of a Gas Turbine Cogeneration Power Plant
2	Dr. U. Shrinivas Balraj	2nd Int. Conf. Emerging Trends in Engineering,	Osmania University, Hyderabad	April 28-30, 2023.	Multi-objective optimization of EDM process on ZE41 Magnesium alloy with Copper, Brass and NE8 Electrodes using AHP-TOPSIS Method
3	Dr. G. Ganesh Kumar	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)	NIT Warangal.	June 23-25, 2023	Experimental Analysis of Thermo-Electric generator used in IC Engine
4	Sri Ch. Karunakar	2nd Int. Conf. Emerging Trends in Engineering,	Osmania University, Hyderabad	April 28-30, 2023.	Study of Mechanical and Morphological properties of Cellulose Reinforced Composites”
5	Dr. G. Sai Kumar	68th Annual Conference-American Society for Artificial Internal Organs (ASAIO-2023)	San Francisco, USA	June 14-17, 2023.	“INDUS - Economical Maglev Centrifugal Blood Pump for Developing Countries”
6	Sri S. Sripathy	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)	NIT Warangal.	June 23-25, 2023	Enhancing Mechanical Properties of Glass Fiber-Reinforced Polymer Composite Material with the addition of SiO ₂ And Multi-Walled Carbon Nanotubes

Details of STTPs/ FDPs/ Workshops etc., attended by the faculty during 2022-23, conducted outside the Institute

S. No.	Faculty Name	STTP/FDP/ Workshop/ Others	Details	Venue	Duration	Dates	
						From	To
1	Dr. K. Raja Narendra Reddy	Seminar	One day national seminar on National Credit Framework: Credit Transfer Policy	Institution of Eminence and Human Resource development Centre, University of Hyderabad	One Day	10.02.2023	--
2	Dr. P.S.S.Murthy	FDP	One week FDP on Advanced Manufacturing System, Sponsored by AICTE ATAL & AICTE IDEA Lab, New Delhi	VTU, Muddenahalli, Bangalore	One Week	05.06.2023	10.06.2023

S. No.	Faculty Name	STTP/FDP/ Workshop/ Others	Details	Venue	Duration	Dates	
						From	To
3	Dr. K. Sridhar	FDP	Problem Solving Through Programming in C	Online SWAYAM NPTEL	12 week	Jan, 2023	April , 2023
4	Dr. P. Srikanth	FDP	Problem Solving Through Programming in C	Online SWAYAM NPTEL	12 week	Jan, 2023	April , 2023
5	Dr. P.S.S.Murthy	FDP	Introduction to Industry 4.0 and Internet of Things	Online SWAYAM NPTEL	12 week	Jan, 2023	April , 2023
6	Dr. J. Laxman	FDP	Problem Solving Through Programming in C	Online SWAYAM NPTEL	12 week	Jan, 2023	April , 2023
7		FDP	Advanced Machining Processes	Online SWAYAM NPTEL	12 week	Jan, 2023	April , 2023
8	Dr. S. Chandramouli	FDP	Introduction to Industry 4.0 and Internet of Things	Online SWAYAM NPTEL	12 week	Jan, 2023	April , 2023
9		FDP	Programming in Java	Online SWAYAM NPTEL	12 week	Jan, 2023	April , 2023
10	Dr. G. Srinivasa Rao	FDP	Computational Fluid Dynamics for Incompressible Flows	Online SWAYAM NPTEL	12 week	Jan, 2023	April , 2023
11	Sri S. Ramesh	FDP	Problem Solving Through Programming in C	Online SWAYAM NPTEL	12 week	Jan, 2023	April , 2023
12	Sri S. Anil Kumar	FDP	Problem Solving Through Programming in C	Online SWAYAM NPTEL	12 week	Jan, 2023	April , 2023
13	Sri K. Kishor Kumar	FDP	Problem Solving Through Programming in C	Online SWAYAM NPTEL	12 week	Jan, 2023	April , 2023
14	Sri M. Anil Kumar	FDP	Introduction to Industry 4.0 and Industrial Internet of Things	Online SWAYAM NPTEL	12 week	Jan, 2023	April , 2023
15	Dr. G. Sai Kumar	FDP	Problem Solving Through Programming in C	Online SWAYAM NPTEL	12 week	Jan, 2023	April , 2023
16	Sri V. Prasanna	FDP	Problem Solving Through Programming in C	Online SWAYAM NPTEL	12 week	Jan, 2023	April , 2023
17	Ms. P. Divya	FDP	Problem Solving Through Programming in C	Online SWAYAM NPTEL	12 week	Jan, 2023	April , 2023
18	Sri V. Rakesh	FDP	Problem Solving Through Programming in C	Online SWAYAM NPTEL	12 week	Jan, 2023	April , 2023
19	Sri P. Anil Kumar	FDP	Introduction to CFD	Online SWAYAM NPTEL	12 week	Jan, 2023	April , 2023
20		FDP	Problem Solving Through Programming in C	Online SWAYAM NPTEL	12 week	Jan, 2023	April , 2023
21	Sri V. Pradeep	FDP	Problem Solving Through Programming in C	Online SWAYAM NPTEL	12 week	Jan, 2023	April , 2023
22	Dr. E. Ramesh	FDP	Computational Fluid Dynamics for Incompressible Flows	Online SWAYAM NPTEL	12 week	Jan, 2023	April , 2023

Faculty visits abroad during 2022-23

S. No.	Name of the faculty	Place	Dates	Purpose of visit
1	Dr. G. Sai Kumar	San Francisco, USA	June 14-17, 2023	Attend 68th Annual Conference-American Society for Artificial Internal Organs (ASAIO)

Faculty visits to Industries during 2022-23:

S. No.	Name of the faculty	Visited Industry & location	Dates	Details including purpose
1	Dr. K. Raja Narendra Reddy	L&T EduTech, Chennai	29.01.2023 to 03.06.2023	Industrial Training
2	Dr. A. Devaraju	ZF India Private Limited Tech Centre India	12.02.2023	Accompanying the SAE Collegiate club Students on an Industrial Visit
3	Sri Ch. Karunakar			
4	Sri K. Kishor Kumar			
5	Smt. P. Anitha			
6	Sri S. Anil Kumar	Kakatiya Thermal Power Station (KTPP), Chelpur, Jayashankar Bhupalpally, TS	28.01.2023	Accompanying the Students on an Industrial Visit
7	Smt. P. Anitha			
8	Dr. E. Ramesh			

Details of expert lectures delivered by the faculty inside & outside the institution during 2022-23

S. No.	Name	expert lectures delivered	Date	Venue
1	Dr. K. Sridhar	Balance & Enjoying Life	04.11.2022	KITS, Warangal
2	Dr. K. Raja Narendra Reddy	Overview of Mechanical Engineering & Advancements	02.11.2022	KITS, Warangal
3		Guest Lecture on career guidance	02.03.2023	Government Polytechnic, Kataram
4		Giving the lecture on one day national conference at, “Innovations in Engineering & Technology (NCIET-23)” Organized by ISTE chapter and student’s activity center	03.03.2023	Kamala Institute of Technology and Science, Huzurabad
5		YOGA One week Faculty Development Programme (FDP) on “Innovations in Teaching Learning process in Mechanical Engineering (ITLPME2022)	09.12.2022	KITS, Warangal
6	Dr. P. Srikanth	Significance of I2RE in Engineering	01.11.2022	KITS, Warangal
7	Dr. U. Shrinivas Balraj	Outcome based Education	04.11.2022	KITS, Warangal
8	Dr. P. Prabhaka Rao	Overview of Mechanical Engineering & Advancements	03.11.2022	KITS, Warangal
9	Dr. A. Devaraju	Overview of Mechanical Engineering & Advancements	02.11.2022	KITS, Warangal
10	Sri S. Ramesh	Importance of YOGA in daily Life	04.11.2022	KITS, Warangal

Details of Placed Students

S. No	Name of The Student	Roll Number	Name of The Company
1	Thurpati Venkanna	B19ME027	JSW
2	Ankam Bhanu Teja	B19ME046	JSW
3	Gummadavelli Jaya Prakash	B20ME196L	Hyundai Motor
4	Mushka Uma Laxmi	B20ME198L	Hyundai Motor
5	Bhukya Saikiran	B19ME031	MuSigma
6	Yara Navya	B19ME049	MuSigma
7	Jayanth Koraboina	B19ME040	ACCENTURE - ASE
8	Potlacheru Manohar	B19ME041	ACCENTURE - ASE
9	Ummalla Usha	B19ME052	ACCENTURE - ASE
10	MD Essamuddin Ahmed	B19ME065	ACCENTURE - ASE
11	Thalla Ravi Teja	B19ME078	ACCENTURE - ASE
12	Bashetti Mukuldheeraj	B19ME172	ACCENTURE - ASE
13	Rebelly Harshavardhan	B19ME003	Cognizant Genc
14	Godala Koushik	B19ME028	Cognizant Genc
15	Ankam Bhanu Teja	B19ME046	Cognizant Genc
16	Macharla Sidhu	B19ME058	Cognizant Genc
17	Rayekanti Vamshikrishna	B19ME063	Cognizant Genc
18	Thota Dinesh	B19ME074	Cognizant Genc
19	Thalla Ravi Teja	B19ME078	Cognizant Genc
20	Shaik Irfan	B19ME094	Cognizant Genc
21	Cheera Prem Chand	B19ME118	Cognizant Genc
22	Mohammed Sadiq Ali	B19ME145	Cognizant Genc
23	Bashetti Mukuldheeraj	B19ME172	Cognizant Genc
24	Bathula Rohith	B20ME199L	Cognizant Genc
25	Vennam Vivek	B20ME209L	Cognizant Genc
26	Rebelly Harshavardhan	B19ME003	Mindtree
27	Nalla Deepika	B19ME009	Mindtree
28	Marepally Himanshuka	B19ME013	Mindtree
29	Adela Vishwas Reddy	B19ME014	Mindtree
30	Kothi Siddhartha	B19ME018	Mindtree
31	Ankam Bhanu Teja	B19ME046	Mindtree
32	A. Vishal	B19ME072	Mindtree
33	Thalla Ravi Teja	B19ME078	Mindtree
34	Keerthana Venishetty	B19ME104	Mindtree
35	Badineni Srinija	B19ME105	Mindtree
36	Kodam Laxmi Prasanna	B19ME116	Mindtree
37	Kalvacherla Ruthvik	B19ME127	Mindtree
38	Vaddeboina Sai Krishna	B19ME147	Mindtree

S. No	Name of The Student	Roll Number	Name of The Company
39	Lone Tejasri	B19ME154	Mindtree
40	Vaddala Niketh Kumar	B19ME155	Mindtree
41	Kuruma Suchith	B19ME179	Mindtree
42	Bathula Rohith	B20ME199L	Mindtree
43	Pydimarri Phanindra Sharma	B20ME203L	Mindtree
44	Chiluveri Akanksha	B20ME205L	Mindtree
45	Vennam Vivek	B20ME209L	Mindtree
46	Adela Vishwas Reddy	B19ME014	TCS Ninja
47	Vajja Koushik	B19ME051	TCS Ninja
48	S S D V Prasad Chakali	B19ME087	TCS Ninja
49	Lone Tejasri	B19ME154	TCS Ninja
50	Velde Srivastava	B19ME165	TCS Ninja
51	Burra Naveen	B20ME183L	TCS Ninja
52	Podishetty Rohith	B20ME193L	TCS Ninja
53	Rayekanti Vamshikrishna	B19ME063	VEM Technologies
54	Matla Premchand	B19ME144	Design Tribe
55	Kanukuntla Karthikeya	B20ME187L	Design Tribe
56	Vaddepally Poornachander	B20ME197L	Design Tribe
57	Kapile Rakesh	B20ME204L	Design Tribe
58	Yerrabelly Sindhu	B20ME206L	Design Tribe
59	Chennuri Srikanth	B19ME020	Polycab India Ltd
60	Thurpati Rakesh	B19ME101	Polycab India Ltd
61	Banoth Naresh	B19ME119	Polycab India Ltd
62	Rangu Shiva Kumar	B19ME138	Polycab India Ltd
63	Aile Bhaviteja	B19ME152	Polycab India Ltd
64	Mallethula Sai Teja	B19ME171	Polycab India Ltd
65	Kommu Praveen	B19ME159	Kaveesha Engineering India Pvt. Ltd.
66	Md. YOUNUS ANSARI	B19ME002	Kaveesha Engineering India Pvt. Ltd.
67	G. Rohith	B20ME181L	Kaveesha Engineering India Pvt. Ltd.
68	Bharath	B19ME085	Kaveesha Engineering India Pvt. Ltd.
69	Rakesh	B19ME169	Kaveesha Engineering India Pvt. Ltd.

Students Internships / Visits to Industries during 2022-23:

S. No.	Industry Name& details	Internship mode (Online / Offline)	Dates	Roll number of students attended internships
1	SCCL, Bhupalpally	Offline	20.05.23 to 19.06.23	B21ME001
2	NIT Warangal	Offline	15.05.23 to 2.06.23	B21ME003
3	NIT Warangal	Offline	15.05.23 to 2.06.23	B21ME004
4	SCCL, Bhupalpally	Offline	22.05.23 to 19.06.23	B21ME010
5	SCCL, Bhupalpally	Offline	22.05.23 to 19.06.23	B21ME011
6	NIT Warangal	Offline	15.05.23 to 2.06.23	B21ME012
	NIT Warangal	Offline	15.05.23 to 2.06.23	B21ME015
7	Maathrusri Engineering, Hyderabad	Offline	22.05.23 to 22.06.23	B21ME016
8	BHEL, Hyderabad	Offline	31.05.23 to 29.06.23	B21ME017
9	SCR, Diesel Loco shied	Offline	15.05.23 to 29.05.23	B21ME019
10	Maathrusri Engineering, Hyderabad	Offline	22.05.23 to 22.06.23	B21ME020
11	KTPS, Paloncha	Offline	26.05.23 to 6.6.23	B21ME029
12	SCR, Diesel Loco shied	Offline	1.06.23 to 15.06.23	B21ME023
13	BHEL, Hyderabad	Offline	31.05.23 to 29.06.23	B21ME026
14	SCR, Diesel Loco shied	Offline	30.05.23 to 13.06.23	B21ME030
15	HVAC	Offline	25.05.23 to 28.06.23	B22ME121L
16	NIT Warangal	Offline	15.05.23 to 2.06.23	B22ME122L
17	Vasanth Tool Crafts	Offline	18.05.23 to 28.06.23	B22ME123L
18	NIT Warangal	Offline	15.05.23 to 2.06.23	B22ME124L
19	NIT Warangal	Offline	15.05.23 to 2.06.23	B22ME125L
20	NIT Warangal	Offline	15.05.23 to 2.06.23	B22ME126L
21	Vasanth Tool Crafts	Offline	18.05.23 to 28.06.23	B22ME127L
22	SCR, Diesel Loco shied	Offline	15.06.23 to 29.06.23	B22ME128L
23	KTPP, Chelpur	Offline	6.6.23 to 19.6.23	B22ME129L
24	SCR, Diesel Loco shied	Offline	15.06.23 to 29.06.23	B22ME130L
25	NIT Warangal	Offline	15.05.23 to 2.06.23	B22ME131L
26	SCR, Diesel Loco shied	Offline	15.05.23 to 29.05.23	B21ME031
27	SCR, Diesel Loco shied	Offline	15.05.23 to 29.05.23	B21ME032
28	NIT Warangal	Offline	15.05.23 to 2.06.23	B21ME033
29	SCCL, Bhupalpally	Offline	22.05.23 to 19.06.23	B21ME034
30	NIT Warangal	Offline	15.05.23 to 2.06.23	B21ME035
31	SCR, Diesel Loco shied	Offline	15.05.23 to 29.05.23	B21ME036
32	SCR, Diesel Loco shied	Offline	15.05.23 to 29.05.23	B21ME037
33	SCR, Diesel Loco shied	Offline	15.05.23 to 29.05.23	B21ME039
34	SCR, Diesel Loco shied	Offline	30.05.23 to 13.06.23	B21ME041
35	SCR, Diesel Loco shied	Offline	30.05.23 to 13.06.23	B21ME042

S. No.	Industry Name& details	Internship mode (Online / Offline)	Dates	Roll number of students attended internships
36	NIT Warangal	Offline	15.05.23 to 2.06.23	B21ME044
37	SCR, Diesel Loco shed	Offline	15.05.23 to 29.05.23	B21ME047
38	NIT Warangal	Offline	15.05.23 to 2.06.23	B21ME048
39	SCR, Diesel Loco shed	Offline	22.6.23 to 6.7.23	B21ME049
40	SCR, Diesel Loco shed	Offline	1.06.23 to 15.6.23	B21ME050
41	Prathiraj Metal Masters	Offline	22.5.23 to 21.6.23	B21ME051
42	Bhilai Steel Plant	Offline	15.5.23 to 27.5.23	B21ME052
43	SCCL, Kothagudam	Offline	22.05.23 to 19.6.23	B21ME053
44	ECIL, Hyderabad	Offline	19.6.23 to 3.7.23	B21ME055
45	SCR, Diesel Loco shed	Offline	30.5.23 to 13.6.23	B21ME056
46	NIT Warangal	Offline	15.05.23 to 2.06.23	B21ME057
47	SCCL, Kothagudam	Offline	22.05.23 to 19.6.23	B21ME058
48	SCR, Diesel Loco shed	Offline	15.05.23 to 29.5.23	B21ME059
49	Prathiraj Metal Masters	Offline	22.5.23 to 21.6.23	B22ME132L
50	SCR, Diesel Loco shed	Offline	15.05.23 to 29.5.23	B22ME133L
51	SCR, Diesel Loco shed	Offline	15.05.23 to 29.5.23	B22ME134L
52	NIT Warangal	Offline	15.05.23 to 2.06.23	B22ME135L
53	SCR, Diesel Loco shed	Offline	15.05.23 to 29.5.23	B22ME137L
54	SCCL, Kothagudam	Offline	22.05.23 to 19.6.23	B22ME138L
55	Prathiraj Metal Masters	Offline	22.5.23 to 21.6.23	B22ME139L
56	SCCL, Kothagudam	Offline	22.5.23 to 19.6.23	B22ME141L

Student Visit to Industry:

S. No.	Name of the student	Visited Industry & Location	Dates	Purpose
1	27 Students of B. Tech (ME) IV Semester	Kakatiya Thermal Power Station (KTPP), Chelpur, Jayashankar Bhupalpally, TS	28.01.2023	Make students aware of Industry practices
2	25 Students of B. Tech (ME) IV, VI & VIII Semester	ZF India Private Limited Tech Centre India	12.02.2023	Make students aware of Industry practices

Workshops arranged during 2022-23:

S. No.	Date	Workshop Title & Topics	Delivered by (please give the details of speakers)	Attended by
1	18-19 November, 2022	Worksho on "Design and 3D Printing of Novel Components"	1. Dr. G. Ganesh Kumar, Associate Professor of ME, KITSW 2. Dr. G. Sai Kumar, Assistant Professor of ME, KITSW 3. Sri A. Hari Kumar, Assistant Professor of ME, KITSW	Students

Student publications (UG/PG)

S. No	Name of Students	Title of publication	Conference / Journal details	Faculty associated
1	T. Vamshi Krishna	Fabrication of bio-degradable material for bone tissue engineering applications	International Conference Advancement in Materials Processing Technology (AMPT) 2023	Dr. A. Devaraju
2	V. Sai Krishna Teja	Artificial intelligence based mass distribution in a spatial mechanism for reducing shaking forces and shaking moments using parallelepiped model	International Conference Advancement in Materials Processing Technology (AMPT) 2023	Dr. P. S. S. Murthy
3	Irfan Shaik	Artificial intelligence based mass distribution in a spatial mechanism using CSD model	International Conference Advancement in Materials Processing Technology (AMPT) 2023	Dr. P. S. S. Murthy
4	A. Bhanu Teja, K. Jayanth, MD. Younus Ansari and G. Rohith	Fatigue Properties of Alimunium Alloy Nano Surface Composites By Friction Stir Processing	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Dr. A. Devaraju
5	B. Srinija, B. Yodhika, M. Anvesh, A. Alekhya	Characterization of Mechanical And Tribological Properties of Sisal Cellulose Reinforced Composite Under Different Liquid Conditions	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Sri Ch. Karunakar & Sri M. Anil Kumar
6	P. Phanindrasharma ,B.Sagar, B.Rohith ,K.Praveen	Effects of Water And Kerosene on The Weight Gain And Impact Strength of Frp Composite: Plant-Based Jute	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Sri D. Sammaiah
7	U. Usha, Y. Navya, V. Koushik, T. Ganapathi Shiva Sai Reddy	Performance Evaluation Of Inclined Type Solar Drier For Drying Of Fruits And Vegetables	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Sri V. Rajesh
8	B. Dileep, G.Siddhartha, M. Sidhu, G. Harshith	Experimental Investigation And Optimization of Wear Characteristics of Aluminum Metal Matrix Composites	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Dr. S. Chandramouli
9	R. Barath Chandra, J. Naveen, D. Sudesh Pavan, Md. Meer Tawfiq Zubair	Mechanical Characterization of Randomly Oriented Water Hyacinth (Eichhornia Crassipes) Fiber Reinforced With Natural Matrix Material	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Dr. K. Raja Narendra Reddy, V. Srikanth
10	A. Vishwas Reddy, Himanshuka. M, D. Tharun , K. Manideep	Manufacturing System Design For Producing Metallic Foam	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Sri A. Hari Kumar
11	K. Suchith, , K. Rakesh, R. Shivakumar, S. Abhinav Kumar	Evaluation of Mechanical Properties of Basalt Fiber Reinforced Composites	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Ms. P. Divya

S. No	Name of Students	Title of publication	Conference / Journal details	Faculty associated
12	K. Suchith, , K. Rakesh, R. Shivakumar, S. Abhinav Kumar	Evaluation of Mechanical Properties of Basalt Fiber Reinforced Composites	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Ms. P. Divya
13	D.Veera Badrinath, K.Yuvaraj, S.Prem Sai & K.Hemanth	Fea And Structural Analysis on Aircraft Wing by using ANSYS And CFD	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Sri P. Anil Kumar
14	G. Koushik, Ch. Srikanth, K. Laxmi Prasanna, Md. Nawaz	Evaluation of Plastic Canister by using Non-Destructive Method: Ultrasonic Testing	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Sri B. Ravi Kumar
15	Potlacheru Manohar, M.Uday Kiran, Naveen Burra, Yashwanth Kunamalla	Evaluation of Machining Performance In Vegetable Oil-Based Hybrid Nanofluid MQL Machining	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Dr. G. Srinu
16	Ch.Akanksha,V. Poorna Chander, N.Amrutha, P.Vaishnavi	Combined Experimental And Numerical Investigation Of Flow And Heat Transfer In Mini/Microchannels	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Dr. E. Ramesh
17	V.Vivek, K.Abhiram, K.Indumathi, P.Shivateja	Investigation of Micro Structure And Mechanical Properties of Zinc Metal Matrix Composites Using Friction Stir Processing	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Sri V. Pradeep
18	MD. Sadiqali, K.Ranjith, V. Saikrishna, Tharunkumar	Study on Characterization By Friction Stir Welding of Aluminium Alloys 6061 And 5083	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Sri P. Sreedhar
19	Medari Preethi, Bhukya Govardhan Sai, Parunandi Greeshma, Nidamanuri Venkata Bharath	Experimental Study on Mechanical Properties Of Metal Matrix Composite Materials	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Dr. J. Laxman
20	K. Laxmi Prasanna, R. Sannihitha, P. Rohith , P. Avinash	Heat Transfer and Fluid Flow Analysis of Solar Air Heater	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Sri S. Anil Kumar
21	L. Tejasri , D. Shashank ,R. Srujan, V. Srivastava	CFD based Performance Analysis of Solar Air Heater	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Sri S. Anil Kumar
22	B. Siddhartha, M. Chandu, D. Mahender, Md. Nazeer	Experimental Investigations on Friction Stir Welded AA7075 Aluminium Alloys Reinforced With Al ₂ O ₃ And Graphite Nano-Particles	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Dr. Md. Sameer

S. No	Name of Students	Title of publication	Conference / Journal details	Faculty associated
23	Faiza Fareeha Shaad Md Sai Trinath M Yogish	Computational Study of Heat Transfer Enhancement In Shell And Tube Heat Exchanger Using CUO-Water Based Nano Fluids	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Sri S. Ramesh
24	S. Vidhi, T. Sai Krishna, O. Shailu	CFD Analysis of External Flow Vortex Shedding In Flow Over A Ribbed & Grooved Cylinder	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Dr. T Manoj Kumar & Dr. K. Sridhar
25	G. Jaya Prakash, M. Premchand, SK. Javeed, B. Sriram	Characteristics of Flow And Heat Transfer In Ducts With Continues And Broken V Shaped Ribs	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Dr. E. Ramesh
26	D. Vikas, V. Manoj Reddy, G. Anil Kumar, S. Swarnalath	Experimental Analysis Of Thermo-Electric generator used in IC Engine	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Dr. G. Ganesh Kumar
27	Y. Sindhu, K. Ruthvik, B. Swarupa And B. Sandeep	Experimental Optimization of Wear Behavior of Metal Matrix Composites	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Smt. P. Anitha
28	V.Niketh Kumar, V. Srikanth, T. Ramu, A. Bhaviteja, D.Karthik, T. Preetham, Abdul Basith	Evaluation of Mechanical Properties By Panadanustectorious Short Fibres Reinforced With Natural Resin	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Dr. K. Raja Narender Reddy
29	Bashetti Mukul Dheeraj,Bogi Kavya Sree,Velpula Harsha Vardhan,Mekala Saathwik	Investigation of The Dielectric Properties of Hybrid Natural Fiber And Conductive Filler Reinforced Polymer Composites	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	Sri K. Kishor Kumar
30	Bhukya Sai Kiran	Enhancing Mechanical Properties of Glass Fiber-Reinforced Polymer Composite Material With The Addition of Sio2 And Multi-Walled Carbon Nanotubes	1st International Conference on Mechanical Engineering: Researches and Evolutionary Challenges (ICMech-REC-2023)", 23 to 25 June 2023, NIT Warangal.	S. Sripathy

The End....



Mechanical Engineering Student's Association (MESA)