

Conduction of “Five days Faculty Development Program on Advanced Sustainable Materials Using Tools and Tech-Driven Research for Modern Educators (ASMTR-2025)” – Communication – Reg.

From Registrar's Office <registraroffice@kluniversity.in>

Date Sat 2025-07-05 2:57 PM

To Dr. A Vani <drvani@kluniversity.in>; Dr. JKR Sastry <drsastry@kluniversity.in>; Advisor Student Affairs <habibulla@kluniversity.in>; Dr. Subrahmanyam <smkodukula@kluniversity.in>; Dr Santosh Kumar <santosh@kluniversity.in>; Dean Academics <dean.academics@kluniversity.in>; Dean P & D <deanpnd@kluniversity.in>; Dean Student Affairs <deansa@kluniversity.in>; Dean Quality <deanquality@kluniversity.in>; Dean Faculty & Staff Affairs <deanfsa@kluniversity.in>; Dean - Skill Development <deanskill@kluniversity.in>; Dean Skill Development <deansdnsp@kluniversity.in>; Dean- MHS <deanmhs@kluniversity.in>; Dean MHS & IR <kishore@kluniversity.in>; Dean Placements and Progression <deanplacement@kluniversity.in>; Dr.P.V.Chalapathi <pvc@kluniversity.in>; Addl.Dean-Academics <addl.deanacademics@kluniversity.in>; Dr. B.T.P. Madhav <btpmadhav@kluniversity.in>; PRINCIPAL - COE <principal.coe@kluniversity.in>; Principal-ASC <principal.asc@kluniversity.in>

Cc PRESIDENT <president@kluniversity.in>; Raja Harin koneru <krh@kluniversity.in>; PRO-CHANCELLOR <prochancellor@kluniversity.in>; Vice Chancellor - KLU <vc@kluniversity.in>; Dr.G.P.S. Varma, Vice- Chancellor <gpsvarma@kluniversity.in>; N Venkat Ram <venkatram@kluniversity.in>; Pro VC <provc@kluniversity.in>; Pro-VC-Academics <provc-academics@kluniversity.in>; Registrar <registrar@kluniversity.in>; Dr Jagadeesh Anne <drjagadeesh@kluniversity.in>

 1 attachment (4 MB)

ASMTR-2025 Brochure.pdf;

Ref: KLEF/RO/IR&D/FDP/2025-26

Date: 05-07-2025

Orders of the Hon'ble Vice-Chancellor dt. 05-07-2025

CIRCULAR

Sub: Conduction of “**Five days Faculty Development Program on Advanced Sustainable Materials Using Tools and Tech-Driven Research for Modern Educators (ASMTR-2025)**” – Communication – Reg.

Ref: Letter received from Dr. V. Viswanath Shenoi, HoD-IR&D and forwarded by Prof. Hari Kiran Vege, Additional Dean (Academics).

This is to inform you that the Department of Inegrated Research and Discovery (IR&D) will be conducting “**Five days Faculty Development Program on Advanced Sustainable Materials Using Tools and Tech-Driven Research for Modern Educators (ASMTR-2025)**” which aims to equip the researchers with modern tools, as detailed below:

Mode	:	Hybrid mode
Period	:	From 7th to 11th July 2025
Timings	:	2.00 PM to 5.00 PM
Venue	:	Rose hall

Link for Registration : <https://forms.gle/m4hecUKr5nHyPj6W6>

Webex event link:

<https://kluniversity.webex.com/kluniversity/j.php?MTID=m8b3ffabaf90583227c8a1c94f3547b91>

Monday, July 7, 2025 1:50 PM | 5 hours 30 minutes | (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

Meeting number: 2643 358 5072

Password: fdTFVRPC235

Brochure is attached with.

Interested and eligible Faculty members are directed to attend the above FDP.

REGISTRAR

Encl: as above

Mail & Hard copy to: Hon'ble President, KLEF

Mail to: Hon'ble Vice-Presidents, KLEF

Mail & Hard copy to: Hon'ble Pro Chancellor

Mail & Hard copy to: Hon'ble Vice-Chancellor

Mail & Hard copy to: Pro Vice-Chancellors

Mail to: Chief Coordinating Officer-Dr.A. Jagadeesh

Mail to: Special Officer -Dr.A. Vani

Mail to: All Advisors / All Deans / All Principals / All Vice-Principals / All Sr.Directors / All Directors / All Additional Deans /

All Associate Deans / Deputy Deans / PR Head

Mail to: Controller of Examinations-Dr.A.S.C.S.Sastry

Mail to: Joint Registrar / Deputy Registrar / Sr.Manager (Alumni Relations) & AR-Sri A.Krishna Rao / AR-Dr.MVAL Narasimha Rao

Mail to: Principal-CoE..Dr.T.K. Rama Krishna Rao / Principal-FED

Mail to: All HoDs / All Alternate HoDs / All Deputy HoDs

Mail to: KL H - Principal Off Campus Centre, Aziz Nagar Campus / KL H - Principal Off Campus Centre, Bowrampet

Vice-Principal / Director / Deputy Director

Mail to: KL H HoDs.. AI&DS / CSE / ECE / BES / FED Coordinator / Business School

Mail to: KL H Associate Deans..P&D / R&D / Academics / IQAC / F&SA / Skill Development / Student Progression & Training

/ Student Affairs / Student Welfare / Examinations

Mail to: Librarian

Mail to: Webmaster-Mr.LV

Mail to: Chief Technical Officer (CTO)-Mr.A.Satya Kalyan

Mr. Raja Sekhar, Emp. No. 2482, Jr. Network Administrator (E-mail: rajasekhar_syte@kluniversity.in)

Mail to: Professor In-charge, EduTech, Animation-Dr. M. Siva Kumar, Assoc. Professor, ECE

Mail to: Prof. Hari Kiran Vege, Additional Dean (Academics)

Dr. V. Viswanath Sheno, HoD-IR&D

All Faculty members of all Campuses

Thanks & Regards,



O/o REGISTRAR

C-006, EXTN. NO. 1200

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(Category -1, Deemed to be University estd. u/s. 3 of the UGC Act, 1956)

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Phone No. 08645 - 350200. www.klef.ac.in; www.klef.edu.in; www.kluniversity.in



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Five days Faculty Development Program on Advanced Sustainable Materials Using Tools and Tech-Driven Research for Modern Educators (ASMTR-2025)

Hybrid Mode

Date: 07th to 11th July 2025.

Time: 2.00 – 5.00 PM

Virtual Mode Link

Meeting link:

<https://kluniversity.webex.com/kluniversity/j.php?MTID=m8b3ffabaf90583227c8a1c94f3547b91>

Meeting number: 2643 358 5072

Password: fdTFVRPC235

Link for Registration: <https://forms.gle/m4hecUKr5nHyPj6W6>

Offline Mode

Venue: Rose Hall, KLEF.



Organized by

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Koneru Lakshmaiah Education Foundation

Green Fields, Vaddeswaram, Vijayawada, Andhra Pradesh, India.



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INTRODUCTION

The Five Days Faculty Development Program on Advanced Sustainable Materials Using Tools and Tech-Driven Research for Modern Educators (ASMTR-2025) is designed to enhance the knowledge and skills of educators in the rapidly evolving field of sustainable materials. With increasing global concerns about environmental degradation and the need for sustainable solutions, it is essential for academic professionals to stay abreast of the latest research and advancements in materials science and technology. This program aims to bridge the gap between traditional teaching methodologies and modern research tools, equipping faculty members with the skills to incorporate tech-driven solutions in their research and teaching. Participants will be introduced to cutting-edge sustainable materials, their properties, applications, and the technologies used to explore their potential. The program will also focus on equipping educators with the latest research tools, including AI, data analytics, and machine learning, enabling them to incorporate these technologies into their research and teaching. By the end of the program, faculty will be empowered to not only enhance their own research capabilities but also to create a more dynamic and contemporary learning environment for their students, fostering innovation in sustainable material science.

OBJECTIVES AND OUTCOME OF THE PROGRAMME

- Familiarize participants with the latest advancements in sustainable materials, their properties, applications, and potential for environmental impact reduction.
- Equip faculty members with the skills and tools to incorporate modern research techniques, including data analytics, AI, and machine learning, in the study of sustainable materials.
- Foster collaboration among different academic disciplines, encouraging faculty to explore new intersections between sustainable materials and other scientific fields.
- Provide hands-on training in the use of advanced tools and technologies to analyze and experiment with sustainable materials in academic research.
- Develop faculty capabilities in incorporating modern research findings into their teaching methodology, ensuring that students benefit from up-to-date and relevant knowledge.



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About KLEF

The Koneru Lakshmaiah Charity was established as a trust in the year 1980 with its official address is at Museum Road, Governerpet, Guntur District, Andhra Pradesh, India. It was started as KL College of Engineering in the Academic year 1980-81. KLEF was established in 1980-81, as KL College of Engineering, which was upgraded to KL College of Engineering Autonomous in 2006 by UGC and was declared as a Deemed to be University in 2009 by UGC, MHRD Govt. of India. NAAC assessed the University and accredited for a period of five years from 2018 to 2023 with CGPA of 3.57 with A++ grade. In 2019 UGC, MHRD declared this intuition as Category 1 status. Research has taken a quantum step towards quality improvement through publishing in Scopus / SCI Indexed journals building an h-Index of 52 at the moment. KLEF has established an ecosystem to promote innovations including a center for Innovation, Incubation and Entrepreneurship development leading to start-ups in different disciplines. The university was also ranked 22 under NIRF 2024.

About the Academic Staff College

The objective of Academic Staff College (ASC) at KL University is to build the capacity of our faculty in effective teaching-learning process through emerging technologies and learning pedagogies. Team ASC ensures that the faculty possess the necessary soft skills and technical skills that are expected from the 21st century leaders. These include communication, technical, emotional intelligence, entrepreneurship, content creation skills, etc. This centre takes care of all the trainings related aspects to the skill building of faculty at regular intervals and enables them to contribute effectively in three key areas viz. Teaching, Research and Innovation. The ASC has been organizing a number of programs in inter disciplinary refresher courses, orientation courses, seminars, workshops, FDPs, guest lectures, etc. on a regular basis. The themes selected for the programs are socially relevant, professionally useful and academically important, which are primarily aimed at upgrading the existing knowledge structure of the faculty to enable them to work together for application of new knowledge for industrial and social development and other allied aspects. It facilitates faculty development programs and supports skilling activities in collaboration with other departments within KLEF.



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About Department of IRD

IRD department is multidisciplinary nature to guide the students and faculty to collaborate and inculcate multidisciplinary research to address complex problems of the industry which cannot be solved by the single domain. The department consists of more than 28 doctoral faculty members and 590 students involved in various research and development activities collaborating with academicians and industry partners. We foster the partnerships with the industries, universities, governmental and non-governmental organizations to identify and address various prevailing problems in the society. The department plans to conduct variety of programs which include: Industry based projects, Industry/ University internships, Workshops to promote interdisciplinary research

About Program

A Faculty Development Programme (FDP) on "Advanced Sustainable Materials using Tools and Tech-Driven Research for Modern Educators" is being organized to empower educators with the expertise needed to seamlessly integrate sustainability and technology into their academic endeavors. This program will offer an in-depth exploration of advanced sustainable materials, their diverse applications across sectors like construction and energy, and how cutting-edge tools such as computational modeling, data analysis software, and advanced characterization techniques can revolutionize research. By emphasizing tech-driven research and modern pedagogical approaches, the FDP aims to enhance teaching effectiveness, boost research capabilities, foster interdisciplinary collaboration, and ultimately contribute to achieving the Sustainable Development Goals by preparing educators to train the next generation of professionals in sustainable practices.

DOMAINS TO BE COVERED

Sustainable Materials

- Green composites
- Nanomaterials, Biomaterials
- Smart materials
- Recycled and up cycled materials
- Life cycle assessment of materials
- Interdisciplinary Research & Publication
- Bridge Academia-Industry Gap



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Tech Tools

Computational Modeling and Simulation

- Molecular Dynamics,
- DFT, MATLAB, LaTeX/MS Office, Zotero, Mendeley, Origin Pro etc
- Finite Element Analysis,
- Process Simulation Software),

Data Analytics and Artificial Intelligence/Machine Learning

- Materials Informatics,
- AI-driven Material Discovery,
- Predictive Maintenance,

Advanced Characterization Techniques (White color)

- Automated Microscopy, Spectroscopy,
- Sensors and IoT, Non-Destructive Testing,

Robotics and Automation

- Automated Synthesis and Fabrication,
- High-Throughput Experimentation

Tech Tools for Bridging Academia-Industry Gap

- Virtual Labs and Simulations: Online Training and Up skilling Platforms
- Data Analytics for Skill Matching:
- Intellectual Property (IP) Management Software:
- Digital Prototyping and Simulation Sharing: Remote Access to Equipment:

Advisory Committee

Chief Patrons

- Er. K. Satyanarayana, President, KLEF
- Er. K. L. Havish, Vice-President, KLEF
- Er. K. Raja Harin, Vice-President, KLEF



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Patrons

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Dr. G. P. S. Varma, Vice-Chancellor, KLEF
Dr. A. V. S. Prasad, Pro Vice-Chancellor-I, KLEF
Dr. N. Venkatram, Pro Vice-Chancellor-II, KLEF
Dr. K. Rajasekhara Rao, Pro-Vice-Chancellor, KLEF
Dr. K. Subba Rao, Registrar, KLEF
Dr. T K Rama Krishna Rao, Principal, CoE, KLEF
Dr. A. Jagadeesh, Director FED, KLEF
Dr. M. Suman, Vice-Principal, CoE, KLEF
Dr. I. Govardhani, Principal, ASC, KLEF

TECHNICAL ADVISORY COMMITTEE

- Dr. K. Ramakrishna, Dean Quality, KLEF
Dr. A. Srinath, Dean Skill & Student Progression, KLEF
Dr. BTP. Madhav, Dean R&D, KLEF
Dr. M. Kishore Babu, Dean MHS, KLEF
Dr. Hari kiran Vege, Dean (addl.) Academics, KLEF
Dr. NBV Prasad, Dean International Placement & Internship, KLEF
Dr. V. Krishna Reddy, Principal, FED, KLEF
Dr. A.S.C.S. Sastry, Controller of Examinations, KLEF
Dr. V. Viswanath Shenoi, HOD, IRD, KLEF

GENERAL CHAIR

Dr. V. Viswanath Shenoi is the Head of the Department of IRD at KLEF. With extensive experience in teaching and research, he focuses on interdisciplinary courses that integrate advanced research methodologies across various domains. His teaching emphasizes practical problem-solving and critical thinking. In research, He specializes in nanotechnology, materials science, and sustainable engineering solutions, having published numerous papers in prestigious journals. As Head of IRD, he leads innovative research projects, promoting collaboration between academia and industry, and significantly enhancing the department's academic and research capabilities.





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CONVENER

Dr. S. Shanmugan is the Convener of the IRD at KLEF. With vast experience in teaching and research, He has contributed significantly to the academic and research landscape at KLEF. He teaches advanced courses in integrated research methodologies and fosters critical thinking and problem-solving skills among students. His research expertise lies in the areas of solar materials, solar thermal applications, and renewable energy solutions. He has published extensively in reputed journals and presented his research at national and international conferences. As the Convener of IRD, he plays a pivotal role in coordinating research initiatives, facilitating collaboration between faculty and students, and securing research funding. His leadership and commitment to innovation have greatly contributed to enhancing KLEF's research profile, ensuring high standards in both teaching and research at the institution.



CO-CONVENER

Dr. Devupalli V.A. Rama Sastry is the Co-Convener of the IRD at KLEF. With significant experience in both teaching and research, He has contributed extensively to the academic development of students in the field of research. He teaches courses that focus on research methodologies and emerging technologies, ensuring students are well-equipped for practical problem-solving. His research interests include sustainable engineering and advanced materials. He has published several research papers and actively guides students in their research projects, fostering a collaborative and innovative academic environment at KLEF.



ORGANIZING COMMITTEE MEMBERS

Dr. NILU SINGH Alt. HoD, IRD, KLEF

Dr. SURYAKANTH V GANGASHETTY, IRD, KLEF

Dr. SAMUDRAVIJAYA K, IRD, KLEF

Dr. G MURALI, IRD, KLEF

Dr. B.T.P.MADHAV, IRD, KLEF

Dr. DEVULAPALLI V.A.RAMA SASTRY, IRD, KLEF



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Dr. CHAKKA RAGHAVA PRASAD, IRD, KLEF

Dr. BOGGARAPU NAGESWARA RAO, IRD, KLEF

Dr. GURRAMPATI VENKATA RAMANA REDDY, IRD, KLEF

Dr. POKKUNURI PARDHA SARADHI, IRD, KLEF

Dr. KOLLURU VENKATA RATNAM, IRD, KLEF

Dr. SHAIK SAGAR IMAMBI, IRD, KLEF

Dr. ENIREDDY VAMSIDHAR, IRD, KLEF

Dr. ARAVIND KILARU, IRD, KLEF

Dr. GOVIND DIVAKARAN, IRD, KLEF

Dr. MANOHARMAYUM DOLPRIYA DEVI, IRD, KLEF

Dr. AKHILESH KUMAR DUBEY, IRD, KLEF

Dr. VIVEKANANTHAN VENKATESWARAN, IRD, KLEF

Dr. MONOJ SUTRADHAR, IRD, KLEF

Mr. T. T. RAJESWAR RAO, IRD, KLEF

Mr. VENKATASAICHANDRAKANTH IRD, KLEF

ABOUT THE RESOURCE PERSONS AND PARTICIPANTS

The programme was very planned by gathering the various resource people having an enormous knowledge in the area of the advances in advanced materials characterization from various premier institutions in international and national such as IIT, NITs, and other universities R&D Institutes. Due to this, the programme received an overwhelming participates consisting of PG Students, Research scholars, Faculty members in and around the globe from various premier institutions. A total number of 705 registering were gathered for the programme.

TIME SCHEDULE

The FDP was conducted for a period of 6 days in the Department of IRD at KLEF from 7th to 11th July 2025. Each day consists session at 2.00 PM – 5.00 PM. The training was conducted during the condition in order to enhance the knowledge of the participants through the online mode.



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Chief Guest

Prof. Hari Kiran Vege is a distinguished academician with extensive teaching and research experience in Computer Science and Engineering. He currently serves as the Additional Dean (Academics) in the Department of Computer Science and Engineering at Koneru Lakshmaiah Education Foundation, Vijayawada Campus. He has been instrumental in shaping the department's academic curriculum and framework, ensuring students gain industry-relevant knowledge. He teaches a wide range of subjects, including algorithms, software engineering, machine learning, and data science, focusing on practical applications of complex concepts. Prof. Vege has a strong research portfolio, particularly in artificial intelligence, machine learning, and big data analytics, with numerous publications in reputed journals and conferences. He actively mentors Ph.D. and master's students, fostering research on cutting-edge technologies. As Additional Dean, Prof. Vege oversees academic strategies and faculty development, promoting interdisciplinary research and bridging academia with industry.



.Speaker Lists

Dr. V. Chithambaram is a distinguished academic and researcher serving as the Dean of Research at Dhanalakshmi College of Engineering, Tambaram, Chennai. With extensive experience in both teaching and research, he has made significant contributions to engineering education. As an educator, Dr. Chithambaram has taught a range of undergraduate and postgraduate courses, focusing on core engineering subjects. His teaching integrates theoretical concepts with practical applications, ensuring a deep understanding among students. In research, his expertise lies in renewable energy, sustainable development, and smart technologies. He has guided multiple research projects and collaborated with industry partners. Dr. Chithambaram has published extensively in reputed journals and presented his work at national and international conferences. As Dean of Research, he drives the institution's research initiatives, promotes innovation, and facilitates research funding, greatly enhancing the institution's research profile.





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Dr. Sk. Hasane Ahammad is an accomplished academician and researcher, currently serving as an Assistant Professor and Associate Dean for Research and Development in the Department of Electronics and Communication Engineering (ECE) at Koneru Lakshmaiah Education Foundation, Vijayawada, Andhra Pradesh, India. With over a decade of experience, He has made significant



contributions to both teaching and research. As an educator, he has taught a variety of subjects, including signal processing, communication systems, and microelectronics. His teaching approach emphasizes interactive learning and real-world applications, fostering critical thinking and problem-solving skills among students. In research, He specializes in wireless communication, VLSI design, and embedded systems. He has published several papers in reputed journals and conferences. As Associate Dean, he oversees research initiatives, guides faculty and students, and secures funding, significantly enhancing the department's research capabilities and fostering industry collaboration.

Dr. Arunkumar Jayakumar is a Professor at St. Peter's Institute of Higher Education and Research, Avadi, Chennai, with extensive experience in both teaching and research. He has been an integral part of the academic community for several years, specializing in various aspects of engineering and technology. As a dedicated educator, Dr. Jayakumar teaches undergraduate and postgraduate courses, focusing on subjects such as digital electronics, communication systems, and



embedded systems. His teaching philosophy emphasizes interactive learning, fostering analytical thinking and practical application of concepts among students. In research, Dr. Jayakumar has contributed significantly to fields like wireless communication, signal processing, and VLSI design. He has published numerous research papers in reputed journals and conferences. Dr. Jayakumar actively participates in guiding research projects, mentoring students, and collaborating with industry, strengthening the institution's academic and research initiatives.



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Dr. Astakala Anil Kumar is a Postdoctoral researcher at the School of Advanced Material Engineering, Kookmin University, Seoul, South Korea. With a strong foundation in material science and engineering, Dr. Anil Kumar has contributed significantly to both research and academia. His research focuses on advanced materials, nanomaterials, and their applications in various fields such as energy storage, electronics, and environmental sustainability. He has authored several publications in reputed international journals, presenting innovative solutions and findings in material engineering. In his role as a postdoctoral researcher, Dr. Anil Kumar collaborates with a multidisciplinary team, conducting cutting-edge experiments and contributing to various research projects. His work aims to bridge the gap between theoretical understanding and practical applications of advanced materials. Dr. Anil Kumar's expertise has helped enhance the university's research output, while also promoting interdisciplinary collaboration in the field of material engineering.



Dr. M. Muthukumaran is a Professor in the Department of Computer Science and Engineering at AarupadaiVeedu Institute of Technology, Vinayaka Missions Research Foundation (Deemed to be University), Chennai. With vast experience in both teaching and research, Dr. Muthukumaran has contributed significantly to the field of computer science. As an educator, he teaches a wide range of subjects, including algorithms, data structures, and software engineering, focusing on developing students' problem-solving and critical thinking skills. His teaching methodology emphasizes practical application alongside theoretical concepts. In research, Dr. Muthukumaran's expertise lies in areas such as artificial intelligence, machine learning, and data analytics. He has published numerous research papers in reputable journals and conferences. Additionally, he plays an active role in guiding research projects, mentoring students, and collaborating with industry, helping to enhance the department's research profile and academic growth.





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Dr. Gopinath Packirisamy is a Professor in the Department of Biosciences and Bioengineering at the Indian Institute of Technology (IIT) Roorkee. With extensive experience in both teaching and research, Dr. Packirisamy has made significant contributions to the fields of biosciences, bioengineering, and nanotechnology. As an educator, he teaches various undergraduate and postgraduate courses, including



bioengineering, biomaterials, and biomedical devices, with an emphasis on hands-on learning and real-world applications. His research focuses on areas like biosensors, nanomaterials, and drug delivery systems. Dr. Packirisamy has published numerous research papers in high-impact journals and has contributed to advancing the understanding of complex biological systems through innovative technological solutions. He actively mentors students, guiding them in research projects and fostering interdisciplinary collaborations. His leadership and expertise continue to elevate the department's academic and research reputation at IIT Roorkee.

Mr. Kumar Tejes is a researcher at Universiti Putra Malaysia, Malaysia, specializing in advanced fields of study. With a solid academic foundation, Mr. Tejes has made meaningful contributions to his research area, focusing on topics related to engineering, technology, and innovation. His research work is aimed at addressing contemporary challenges through novel solutions, utilizing his strong analytical skills and technical expertise. He



actively collaborates with academic and industry experts, enhancing the scope and impact of his research. Mr. Tejes has published research papers in reputable journals and presented his findings at various national and international conferences. As a researcher, he also mentors students, guiding them through their academic and research endeavors. His work continues to support the advancement of knowledge and contribute to the university's growing research portfolio.



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Dr. Modigunta Jeevan Kumar Reddy is a Research Professor at the Environmental Energy Lab (EEL), Department of Polymer Science & Engineering, Korea National University of Transportation, South Korea. With a deep focus on environmental energy and polymer science, Dr. Reddy has made significant contributions to sustainable energy solutions and material innovation. His research interests include renewable energy technologies, polymer nanocomposites, and environmental impact reduction. As an academic, Dr. Reddy is involved in teaching advanced courses in polymer science, material engineering, and environmental technologies, fostering critical thinking and innovation among students. He emphasizes hands-on learning, encouraging students to apply theoretical concepts to real-world environmental challenges. Dr. Reddy has published numerous research papers in high-impact journals and is an active participant in international collaborations. His work continues to enhance the understanding of sustainable energy solutions and material applications, contributing to both academia and industry.



Dr. P. Selvaraju is a Professor in the Department of Computer Science and Engineering at SIMATS, Chennai, Tamil Nadu, India. With extensive experience in both teaching and research, Dr. Selvaraju has significantly contributed to the academic community. As an educator, he teaches a wide range of subjects, including algorithms, artificial intelligence, and data structures, focusing on building strong foundations and fostering problem-solving skills in students. His teaching approach blends theoretical knowledge with practical applications, encouraging active learning and critical thinking. In research, Dr. Selvaraju's areas of interest include machine learning, data mining, and big data analytics. He has published several research papers in reputed journals and conferences. Additionally, Dr. Selvaraju plays an active role in mentoring research projects, guiding students, and collaborating with industry professionals, thereby advancing the department's academic and research initiatives at SIMATS.





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Dr. Karthik Kannan is a Research Faculty member in the Department of Mechanical Engineering at the Advanced Institute of Manufacturing with High-tech Innovations, National Chung Cheng University, Taiwan. With extensive experience in both research and teaching, Dr. Kannan specializes in advanced manufacturing techniques, materials engineering, and high-tech innovations. As a researcher, his work focuses on developing new materials and optimizing manufacturing processes to enhance efficiency and sustainability in industrial applications. Dr. Kannan has authored several research papers in leading journals and presented his findings at international conferences. In his teaching role, he mentors graduate and doctoral students, guiding them through cutting-edge research projects and fostering a strong foundation in mechanical engineering principles. His dedication to innovative research and hands-on teaching has contributed significantly to the advancement of both academic knowledge and industrial practices at National Chung Cheng University.



Dr. B. Kiran Naik is an Assistant Professor Grade-I in the Department of Mechanical Engineering at NIT Rourkela, Sundargarh, Odisha, India. With significant experience in both teaching and research, Dr. Naik has contributed extensively to the field of mechanical engineering. As an educator, he teaches courses in thermodynamics, fluid mechanics, and heat transfer, focusing on developing strong analytical and problem-solving skills among students. His teaching style emphasizes real-world applications and active learning, ensuring students grasp complex concepts effectively. In research, Dr. Naik's interests include energy systems, renewable energy, and heat exchanger technologies. He has published numerous papers in reputed journals and conferences, contributing valuable insights to these areas. Dr. Naik actively mentors graduate and doctoral students, guiding them in their research projects. His work continues to advance both academic understanding and practical applications in mechanical engineering.





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Dr. S. Arunmetha is an Associate Professor and Associate Dean in the Department of Electronics and Communication Engineering (ECE) at K L Deemed to be University, Andhra Pradesh, India. With extensive experience in both teaching and research, Dr. Arunmetha has made significant contributions to the academic community. As an educator, he teaches undergraduate and postgraduate courses in areas such as digital signal processing, communication systems, and embedded systems, with a focus on fostering analytical thinking and practical problem-solving skills. His research interests lie in wireless communication, VLSI design, and signal processing. Dr. Arunmetha has published numerous research papers in esteemed journals and conferences. As Associate Dean, he plays a key role in overseeing academic affairs, research initiatives, and faculty development, ensuring the department maintains high standards of teaching and research. His work continues to enrich both the academic and research environments at the university.



Dr. V. Viswanath Shenoi is a Professor and Head of the Department of Integrated Research and Discovery at Koneru Lakshmaiah Education Foundation, Vijayawada, Andhra Pradesh, India. With extensive experience in both teaching and research, Dr. Shenoi has significantly contributed to interdisciplinary research and academic excellence. As an educator, he teaches courses in integrated research methodologies, fostering critical thinking and innovation in students. His teaching emphasizes the application of research theories to real-world problems. In research, Dr. Shenoi focuses on areas such as nanotechnology, materials science, and sustainable engineering solutions. He has authored several papers in leading journals and presented his work at international conferences. Dr. Shenoi also mentors graduate and doctoral students, guiding them in their research projects. As the Head of Department, he plays a pivotal role in shaping the department's research agenda, driving collaborations, and securing funding opportunities.





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Program schedule

Five days Faculty Development Program on Advanced Sustainable Materials Using Tools and Tech-Driven Research for Modern Educators (ASMTR-2025)

Hybrid Mode

Date: 07th to 11th July 2025

Time: 2.00 – 5.00 PM

Organize	Time	Date	Name	Themes
Co-Convener	2.00 pm to 2.05pm	Offline mode Day 1 (07-07-2025)	Dr. D. V.A. Rama Sastry	Welcome address
Convener	2.05 pm to 2.10pm		Dr. S. Shanmugan	FDP - Themes
HOD - IRD	2.10 pm to 2.15pm		Dr. V. Viswanath Shenoi	IRD – dept expose
Chief Guest	2.15 pm to 2.30pm		Prof. Hari Kiran Vege	Interdisciplinary Research, Bridge Academia-Industry Gap
Speaker 1	2.30pm to 3.00pm		Dr. V. Chithambaram	Smart materials, MS Office, Zotero, Mendeley, Origin Pro
Speaker 2	3.00pm to 3.30pm		Dr. Arunkumar Jayakumar	Green composites, Digital Prototyping and Simulation Sharing
Speaker 3	3.30pm to 4.00pm		Dr. S. Arunmetha	Nanomaterials, Materials Informatics: Sensors and IoT
Speaker 1	2.00pm to 2.30pm	Online mode Day 2 (08-07-2025)	Dr. Gopinath Packirisamy	Biomaterials, Finite Element Analysis, Process Simulation Software
Speaker 2	2.30pm to 3.00pm		Dr. M. Muthukumaran	Recycled and up cycled materials, Materials Informatics, AI-driven Material Discovery
Speaker 3	3.00pm to 4.00pm		Dr. Astakala Anil Kumar	Life cycle assessment of materials, High-Throughput



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				Experimentation
Speaker 1	2.00pm to 3.00pm	Online mode Day 3 (09-07-2025)	Dr.Modigunta Jeevan Kumar Reddy	Nanomaterials, Data Analytics for Skill Matching
Speaker 2	3.00pm to 4.00pm		Mr. Kumar Tejes	Virtual Labs and Simulations Online Training and Up skilling Platforms
Speaker 1	2.00pm to 3.00pm	Online mode Day 4 (10-07-2025)	Dr.Karthik Kannan	Biomaterials: DFT Intellectual Property (IP) Management Software
Speaker 2	3.00pm to 4.00pm		Dr. B. Kiran Naik	Green composites And Nanomaterials Robotics and Automation Automated Synthesis and Fabrication,
Speaker 1	2.00pm to 2.30pm	Offline mode Day 5 (11-07-2025)	Dr.V.Viswanath Shenoi	Interdisciplinary Research & Publication, LaTeX tools
Speaker 2	2.30pm to 3.30pm		Dr. P. Selvaraju	Life cycle assessment of materials, Remote Access to Equipment
Speaker 3	3.30pm to 4.00pm		Dr. Sk. Hasane Ahammad	Smart materials, Tech Tools for Bridging Academia-Industry Gap



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Valedictory Ceremony

Dr. V. Viswanath Shenoi, (Few words about – ASMTR-2025)

Dr. P. Selvaraju, (Chief Guest - Few words about – ASMTR-2025)

Dr. S. Shanmugan, (Convener): (Future themes of ASMTR-2025)

Dr. D. V.A. Rama Sastry (Co-Convener): (Vote of thanks for ASMTR-2025).

Head & Department of IRD,
Dr.V.Viswanath Shenoi.



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Green Fields, Vaddeswaram, Vijayawada, Andhra Pradesh, India.