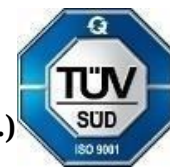




MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE (Deemed to be University)



Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi
NAAC Accredited with A+ Grade, NIRF India Rankings 2024 - Band: 201-300 (Engg.)
NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH, CST), MBA & MCA

A Report on Five Days FDP on “Modern Tools for Research Methodology and Academic Writing” Organized by Department of Physics from 15.09.2025 to 19.09.2025

About MITS Madanapalle Institute of Technology & Science - Deemed to be University is established in 1998 in the picturesque and pleasant environs of Madanapalle and is ideally located on a sprawling 26.37 acre campus on Madanapalle - Anantapur Highway (NH-204) near Angalla, about 10km away from Madanapalle. MITS - Deemed to be University, originated under the auspices of Ratakonda Ranga Reddy Educational Academy under the proactive leadership of Late Sri. N. Krishna Kumar M.S. (I.S.A), the then President and Dr. N. Vijaya Bhaskar Choudary, Ph.D., Secretary & Correspondent of the Academy. MITS - Deemed to be University is governed by a progressive management that never rests on laurels and has been striving conscientiously to develop it as one of the best centers of Academic Excellence in India. The Institution's profile is firmly based on strategies and action plans that match changing demands of the nation and the students fraternity. MITS enjoys constant support and patronage of MHRD with distinguished academic traditions and vast experience in Engineering & Technology.	Chief Patron Dr. N. Vijaya Bhaskar Choudary Founder & Chancellor	 MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE DEEMED TO BE UNIVERSITY under section 3 of UGC Act, 1956 by Govt. of India - MHRD Madanapalle - 517325, Anantapur Dist., Andhra Pradesh, India Department of Physics One week Online Faculty Development Programme ON “Modern Tools for Research Methodology and Academic Writing”  15.09.2025 (Monday) to 19.09.2025 (Friday) Organized by Department of Physics www.mits.ac.in
Institute Vision To become a globally recognized research and academic institution and thereby contribute to technological and socio-economic development of the nation.	Patron Mrs. Keerthi Nadella Executive Director	
Institute Mission To foster a culture of excellence in research, innovation, entrepreneurship, rational thinking and civility by providing necessary resources for generation, dissemination and utilization of knowledge and in the process create an ambience for practice-based learning to the Youth for success in their careers.	Program Chair Dr. C. Yuvaraj Vice Chancellor	
About The Department The Department of Physics at Madanapalle Institute of Technology & Science (MITS) Established in 2008, it has rapidly become a leading center for research and education under Jawahar Education Technological University Anantapur. The department is deeply committed to advancing the frontiers of physics through high-quality research and innovative teaching. Over the years, it has contributed to numerous publications in prestigious journals, addressing diverse aspects of theoretical and experimental physics. The department has successfully secured funding from research agencies such as DST, UGC, and the Department of Atomic Energy (DAE). It is equipped with cutting-edge research facilities, including a High Performance Computing Cluster, a Laser Scanning Confocal Microscope, and various experimental setups for condensed matter and material science research. With a team of 18 highly qualified faculty members, many of whom hold doctoral degrees, the department has also hosted multiple international conferences. Continuing its tradition of academic excellence, it looks forward to organizing the upcoming International Conference on Advances in Physics and Materials Sciences, further enhancing its role in global scientific collaboration and innovation.	Co-ordinator Dr. M. Chandra Sekhar HOD Physics	
	Convenor Dr. Agnibha Das Majumdar Asst. Prof. Dept. of Physics	
	Certificate: E-Certificate will be provided on the completion of FDP	

Report Submitted by: Dr. Agnibha Das Majumdar, Assistant Professor, Department of Physics.

Mode of Conduct: Online

Report Received on 13.10.2025.

About the Theme:

The Faculty Development Programme (FDP) on “Modern Tools for Research Methodology and Academic Writing” is designed to equip educators, researchers, and academicians with essential skills and contemporary digital tools that enhance the quality and efficiency of research. The programme focuses on integrating modern research methodologies with advanced software applications for literature review, data analysis, plagiarism detection, and reference management. Participants will gain hands-on experience in using tools such as reference managers, data visualization platforms, and AI-assisted writing aids to improve the accuracy, credibility, and presentation of their scholarly work. By bridging methodological understanding with practical tool usage, the FDP aims to foster a more systematic, ethical, and impactful approach to academic writing, ultimately contributing to higher research standards and increased publication success.

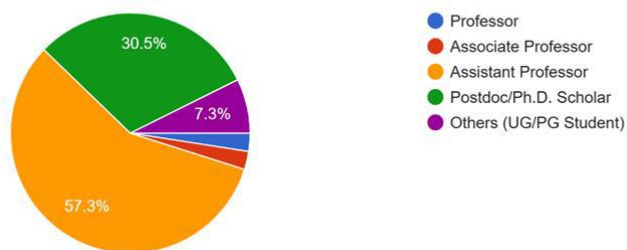
About Registration:

We got a **response of 123 registration across the World**. From 24 different states participants has registered. The data has shown below:

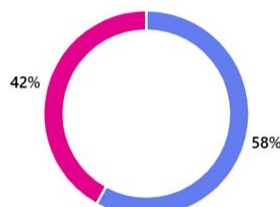
The brochure and registration link shared to various active groups belonging to academic and research. This gives us good motivation and starting the FDP with high energy.

The various types of audience like research scholars, early carrier researchers, young faculty, senior professors, experienced people shown interested to learn and explore about latest developments in research methodology.

Designation
82 responses



Gender
72 responses



The program is scheduled as given below with the list of speakers. Each day two eminent speakers from various reputed institutions who have very good and proved experience in the research methodology were selected to deliver lectures. Each talk has limited to 1-hour to 2-hour duration including discussions.

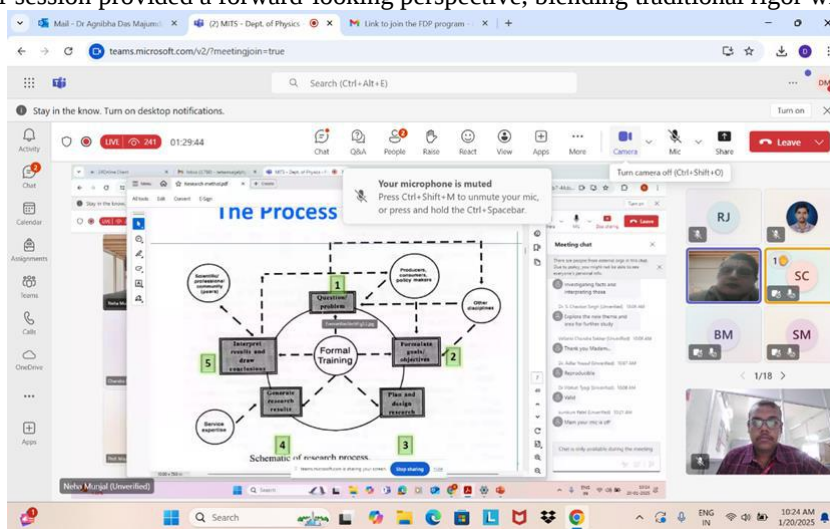
Program Schedule

S. No.	Speaker Name	Title of the talk	Date and Time
		Inauguration of FDP	15th September, 2025, 09:30 AM
1	Dr. Neha Munjal, Love Professional University, Punjab	Research Methodology in the Age of AI: Foundations, Transformations and Future Directions	15th September 2025, 10:00 AM -12:00 Noon
2	Dr. Shiv Singh, Symbiosis International University, Pune	Publishing Smarter :Navigating Journal Options for Optimal Visibility	15th September 2025, 02:00 PM -04:00 PM
3	Dr. Purba Chatterjee, University of Calcutta, Kolkata	Hypothesis Testing and Introductory Statistics for Sciences	16th September 2025, 10:00 AM -12:00 Noon
4	Dr. M. Karthikeyan, Wollo University, Ethiopia	From Literature to Innovation: Systematic Reviews, AI Tools, and Research Gaps	16th September 2025, 02:00 PM -04:00 PM
5	Dr. Tanvir Arfin, CSIR-National Environmental Engineering Research Institute, Maharashtra	Modern Tools for Research Methodology and Academic Writing	17th September 2025, 10:00 AM -12:00 Noon
6	Dr. Arun Kumar Das, SR University, Warangal	Streaming Research: Modern Reference Management Tools for Effective Academic Writing	17th September 2025, 02:00 PM -04:00 PM
7	Dr. Balla Srinivasa Prasad, GITAM School of Technology, Bangalore	Research Excellence: A Journey from Basics to High Impact Publications	18th September 2025, 10:00 AM -12:00 Noon
8	Dr. Nutan Kaushik, Amity University, Noida	Securing Research Grants: Strategies for Writing Impactful Proposals	18th September 2025, 02:00 PM -04:00 PM
9	Dr. Jitendra Kumar Pattanaik Central University of Punjab, Punjab	Writing an Effective Research article: tips and suggestions	19th September 2025, 10:00 AM -12:00 Noon
10.	Dr. Nagaraju Baydeti National Institute of Technology, Nagaland	Drafting and Publication of Research Articles in Peer Reviewed Journals	19th September 2025, 02:00 PM -04:00 PM
12.		Group photo session, Feedback and Valedictory	19th January 2025, 4:00 PM-4:30 PM

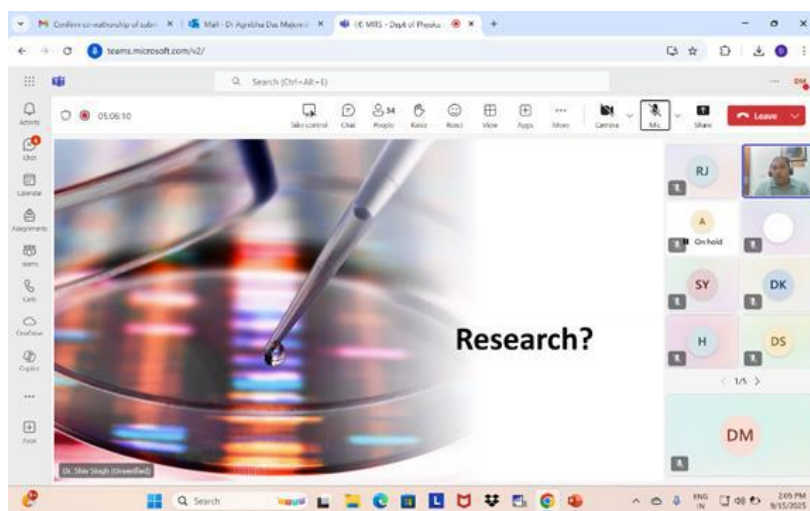
Day 1: 15-09-2025 (Monday)

The program commenced at 09.30 AM with a welcome note by **Dr. M. Chandra Sekhar, Head, Department of Physics, MITS Deemed to be University**, and coordinator for the FDP. He elucidates about the departmental activities and research activities details going in the department of physics and **Principal of MITS, Prof. P. Ramanathan** Presented Inaugural address to audience and highlighted the concept of making FDP online mode for the usefulness to the research community. **Dr. P Dr. Agnibha Das Majumdar, Assistant Professor and Convenor** address the gathering and aim scope of thematic conference and details about the speakers in the FDP. Dr. K Chandrakanta addressed the gathering about the structure of the FDP and criteria of obtaining FDP, such as feedback submission.

Welcoming to the first speaker of FDP **Dr. Neha Munjal**, from **Department of Physics, Lovely Professional University, Punjab**. She is working as Professor at Lovely Professional University, Punjab, India. Dr. Neha Munjal delivered an insightful talk on *“Research Methodology in the Age of AI: Foundations, Transformations and Future Directions”*, highlighting how artificial intelligence is reshaping the landscape of academic research. She discussed the importance of strong methodological foundations while embracing AI-driven tools for data analysis, literature review, and knowledge discovery. Emphasizing both opportunities and ethical challenges, she inspired participants to adopt AI responsibly in their research practices. Her session provided a forward-looking perspective, blending traditional rigor with modern innovation.

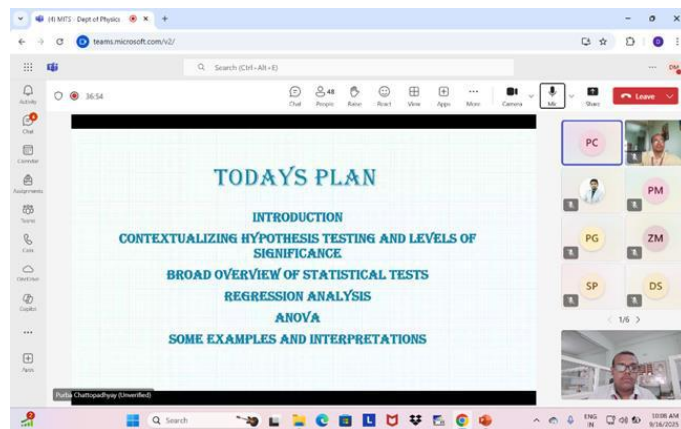


The second Session started on the same day afternoon. **Dr. Shiv Singh, University Librarian, Symbiosis International University, Pune** Dr. Shiv Singh's talk on *“Publishing Smarter: Navigating Journal Options for Optimal Visibility”* offered valuable guidance on selecting the right platforms for academic publishing. He emphasized evaluating journals based on impact, indexing, scope, and audience to maximize research visibility and credibility. Highlighting common pitfalls and predatory practices, he encouraged scholars to make informed choices for long-term academic growth. His session equipped participants with practical strategies to enhance the reach and recognition of their research work.

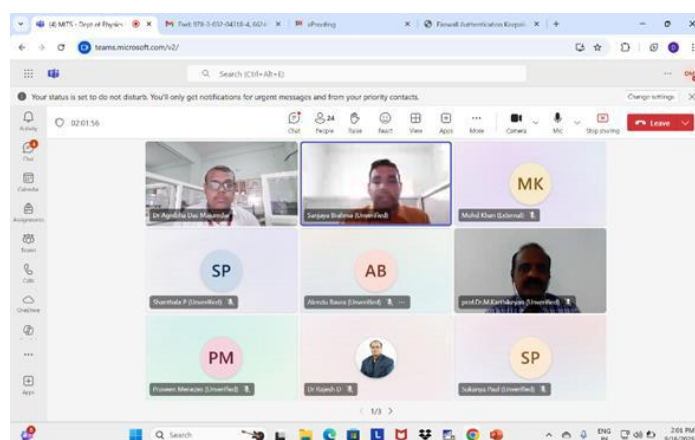


Day 2: 16-09-2025 (Tuesday)

On the second day the first half of the talk from 10.00 am to 2.00 Noon. is given by **Dr. Purba Chatterjee**. Dr. Chatterjee is an accomplished academician and researcher specializing in Statistics. Dr. Purba Chatterjee delivered an engaging talk on *“Hypothesis Testing and Introductory Statistics for Sciences”*, simplifying complex statistical concepts for researchers and students. She explained the fundamentals of hypothesis formulation, significance testing, and interpretation of results with clarity. Emphasizing the role of statistics as the backbone of scientific inquiry, she highlighted its application across diverse research domains. Her session provided participants with practical insights to strengthen the rigor and reliability of their scientific studies.

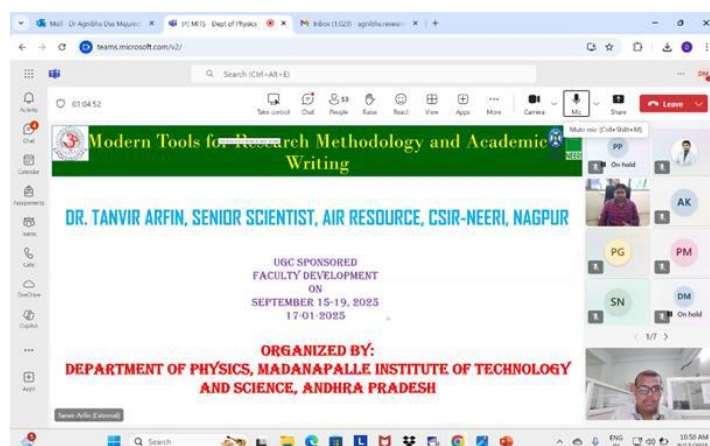


The afternoon session started at 2.00 pm and continued upto 4.00 pm is given by **Dr. M. Karthikeyan**. Dr. Karthikeyan is currently working as a senior professor in department of management studies in Wollo University, Ethiopia. Dr. M. Karthikeyan's talk on *"From Literature to Innovation: Systematic Reviews, AI Tools, and Research Gaps"* shed light on the crucial role of literature review in driving meaningful research outcomes. He explained how systematic reviews help structure existing knowledge and identify unexplored areas, paving the way for innovation. Highlighting the integration of AI-powered tools, he demonstrated their effectiveness in streamlining literature searches, analyzing trends, and uncovering research gaps. His session inspired participants to approach literature not just as a summary of past work, but as a foundation for future discoveries.



Day 3: 17-09-2025 (Wednesday)

The third day the morning session conducted form 10.00 am to 12.00 noon is scheduled by **Dr. Tanvir Arfin**. Dr. Tanvir Arfin's talk on *"Modern Tools for Research Methodology and Academic Writing"* provided participants with practical insights into leveraging digital tools to enhance the quality and efficiency of research. He discussed various applications for literature management, plagiarism detection, data analysis, and effective academic writing. Emphasizing clarity, accuracy, and ethical practices, he guided researchers on how to integrate these tools into their workflows. His session empowered participants to adopt technology-driven approaches for producing impactful and well-structured scholarly work.

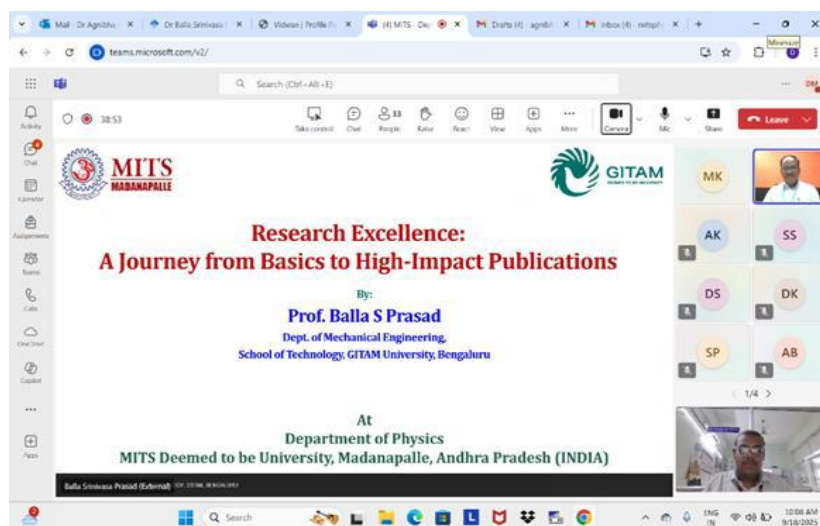


The second talk is given by **Dr. Arun Kumar Das**, who is the assistant Professor and Assistant Dean of Training and Placement Cell. Arun Kumar Das delivered an informative talk on *"Streaming Research: Modern Reference Management Tools for Effective Academic Writing"*, focusing on the importance of organizing and citing sources efficiently. He introduced participants to popular reference management tools and demonstrated how they simplify citation styles, bibliography creation, and collaboration in research projects. Emphasizing accuracy and time-saving practices, he highlighted how these tools enhance the overall quality of academic writing. His session encouraged researchers to adopt smarter strategies for managing references in a structured and professional manner.

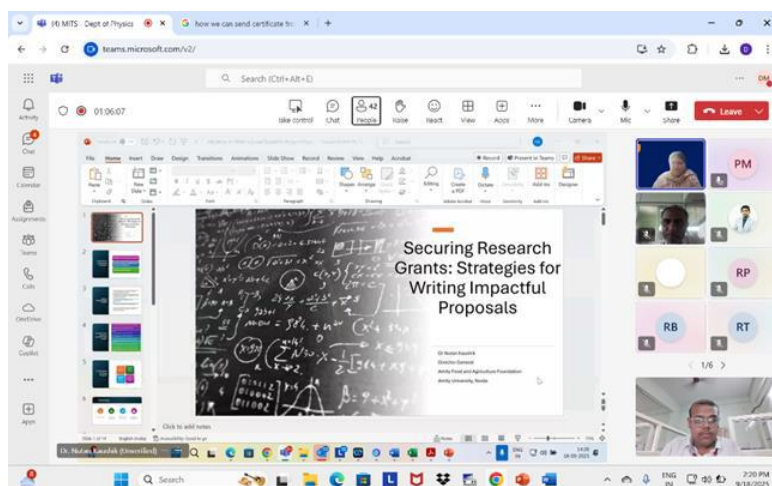


Day 4: 18-09-2025 (Thursday)

The fourth day first talk is given by **Dr. Balla Srinivasa Prasad** from 10.00 am to 12.00 noon. B. Srinivasa Prasad's talk on "*Research Excellence: A Journey from Basics to High Impact Publications*" offered a comprehensive roadmap for achieving quality and recognition in research. He emphasized the importance of strong foundational skills, clarity in research design, and methodological rigor as the stepping stones to impactful publications. Highlighting strategies for targeting reputed journals, enhancing visibility, and avoiding common mistakes, he motivated participants to aim for excellence. His session inspired researchers to transform their work from initial ideas into high-quality contributions with global impact.



Afternoon session from 2.00 pm to 4.00 pm is given by **Dr. Nutan Kaushik**. Dr. Nutan Kaushik's talk on "*Securing Research Grants: Strategies for Writing Impactful Proposals*" highlighted the essentials of developing competitive and well-structured funding applications. She emphasized aligning proposals with funding agency priorities, presenting clear objectives, and demonstrating societal or scientific impact. Offering practical strategies on framing research ideas, budgeting, and showcasing innovation, she guided participants through the nuances of grant writing. Her session empowered researchers with the skills to translate their ideas into persuasive proposals that stand out to funding bodies.

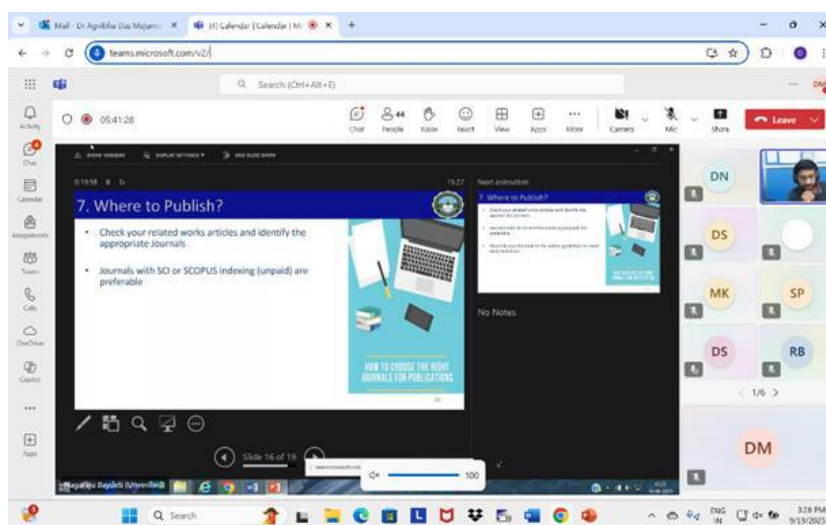


Day 5: 19-09-2025 (Friday)

The Final day the first session on morning commenced by **Dr. Jitendra K Pattanaik**. Dr. Jitendra Kumar Pattanaik's talk on *"Writing an Effective Research Article: Tips and Suggestions"* provided valuable guidance on crafting well-structured and impactful scholarly papers. He emphasized clarity, coherence, and logical flow as key elements of effective writing, along with the importance of adhering to journal guidelines. Sharing practical tips on drafting abstracts, organizing sections, and refining language, he helped participants understand how to enhance the readability and acceptance of their work. His session served as a useful roadmap for researchers striving to communicate their findings more effectively.

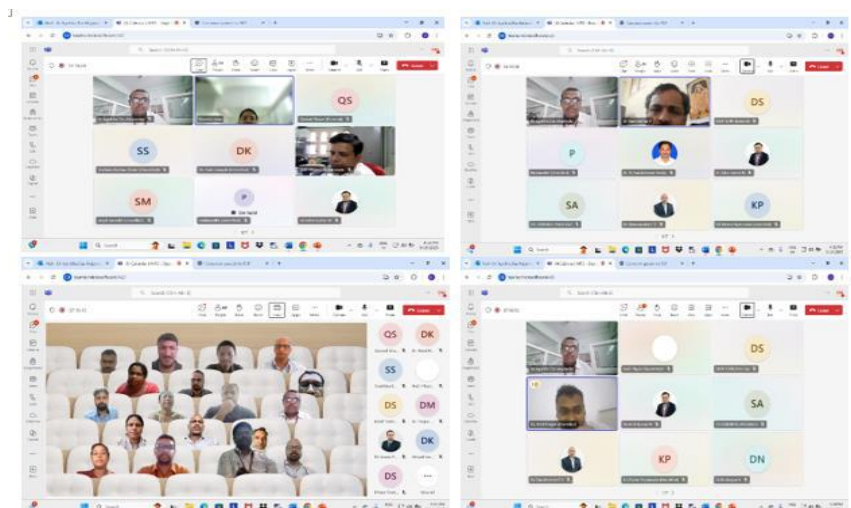


The second session an interesting talk is given by **Dr. Nagaraju Baydeti**, Dr. Baydeti Nagaraju's talk on *"Drafting and Publication of Research Articles in Peer Reviewed Journals"* offered insightful guidance on the complete journey of academic publishing. He explained the essentials of structuring a manuscript, maintaining clarity and originality, and adhering to ethical standards. Highlighting the review process, common challenges, and strategies to improve acceptance rates, he encouraged researchers to publish with confidence. His session provided participants with practical knowledge to enhance the quality and visibility of their scholarly contributions.



Day 5: 19-09-2025 (Friday), Valedictory Session

The valedictory session is handled by **Dr. M. Chandra Sekhar**, Head, Dept. of Physics, MITS Deemed to be University, Andhra Pradesh, Principal, **Prof. P Ramanathan sir** presented valedictory address to audience and vote of thanks given by **Dr. Rasmita Jena**, Assistant Professor, Dept. of Physics, MITS. It flowed by feedback sessions from all the participants.



We thank all eminent resource persons whose involvement is highly appreciated. All of them deliver excellent material which is very useful for the research community. Without the contributions of speakers, the FDP may not be a grand success. The wide presence of active participation from various institutions throughout the FDP is highly appreciated. We thank all the active participants for their participation. We thank valuable support from technical support from systems, MITS Deemed to be University, all other faculty, and well-wishers who are not mentioned in this list.

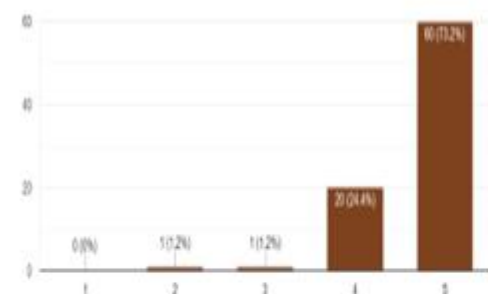
We thank Chancellor sir, Dr. N Vijaya Bhaskar Choudary, Vice Chancellor, Prof. C. Yuvaraj, Registrar, Registrar, Dr. D Pradeep Kumar and Principal, Prof. P. Ramanathan, Head of the Department Physics Dr. M. Chandra for his cooperation during the FDP.

Our heart felt thanks to the management, MITS Deemed to be University, Madanapalle, for encouraging and supporting us.

Overall Feedback:

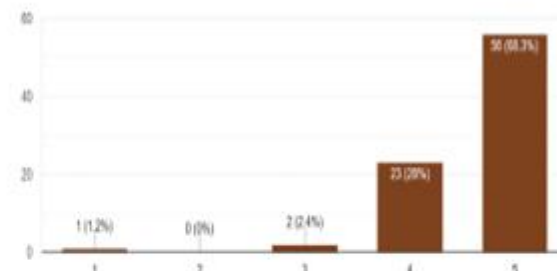
Relevance of the topic to your professional needs:

82 responses



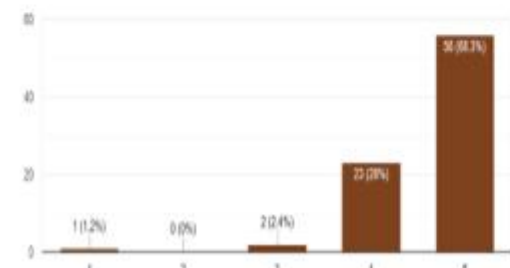
Clarity and effectiveness of presentation:

82 responses



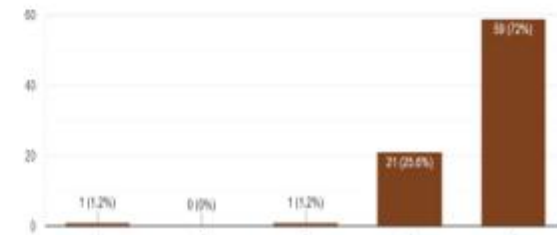
Clarity and effectiveness of presentation:

82 responses



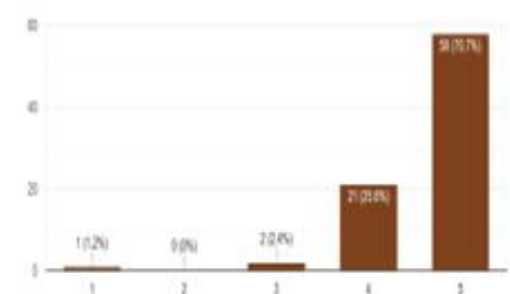
Knowledge and expertise of the resource person:

82 responses



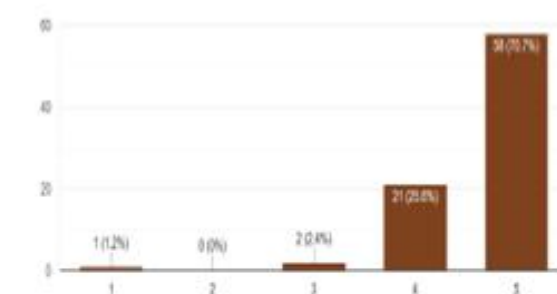
Time management and coverage of content:

82 responses



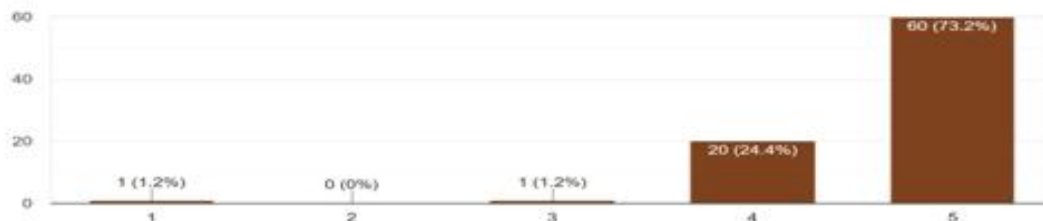
Time management and coverage of content:

82 responses

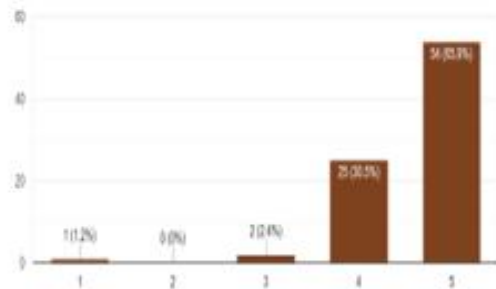


Overall effectiveness of the session:

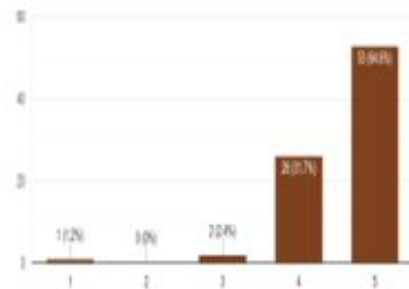
82 responses



Quality of learning materials/slides/handouts:
12 responses



Session interaction and engagement:
12 responses



Outcomes:

At the end of the Faculty Development program, the participants can able to

- Learn about the Research Methodology and Research paper writing
- Install the SPSS software regarding data analysis
- Develop more efficiently the research articles, book, book chapters and review papers
- Select the journals from Scopus and WOS database
- Apply the knowledge of research ethics while conducting their research
- Apply for different intellectual properties and Learn about the process of technology transfer and patent filing

SDG Mapping

SDG 4: Quality Education

- The FDP enhances research skills and academic writing competencies for faculty and researchers.
- It promotes access to quality learning resources, research ethics, and best practices.

SDG 5: Gender Equality (If gender diversity was encouraged)

- The presence of diverse speakers and participants across different institutions contributes to inclusivity in education and research.

SDG 9: Industry, Innovation, and Infrastructure

- Encourages research output, innovation, and the use of advanced analytical tools like SPSS.
- Discussions on intellectual property, technology transfer, and patents align with fostering innovation.

SDG 16: Peace, Justice, and Strong Institutions

- Promotes ethical research practices, plagiarism prevention, and academic integrity, strengthening research credibility.

SDG 17: Partnerships for the Goals

- Facilitates interdisciplinary collaboration and networking among researchers, faculty, and institutions.
- Enables knowledge-sharing for academic and research advancements across India.