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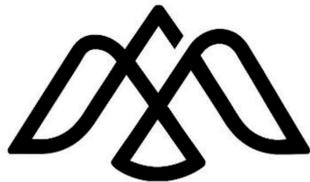Maisammaguda, Dhullapally, post via Kompally, Secunderabad - 500100

A Report of

National level 5 Days Faculty Development Program

On

Readiness for Academics and Research

Organized by:

Department of CSE (AI & ML)

20th to 24th January 2025

Target Audience: Teaching Faculties

In association with

Institution Innovation Council and Plexus Club

Date: 20-01-2025 to 24-01-2025.

Mode : Online

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ABOUT THE INSTITUTION

MRCE, BLOCK-A

Malla Reddy College of Engineering (Formerly CM Engineering College) has been established under the aegis of the Malla Reddy Group of institutions in the year 2005, a majestic empire, founded by chairman Sri. Ch. Malla Reddy. He has been in the field of education for the last 22 years with the intention of spearheading quality education among children from the school level itself.

Since the beginning Mr. Malla Reddy has endeavoured to ensure quality education and carved a niche for himself by managing this group of institutions.

Malla Reddy College of Engineering has been laid upon a very strong foundation and has ever since been excelling in every aspect. The bricks of this able institute are certainly the adept management, the experienced faculty, the selfless non-teaching staff and of course the students.

INSTITUTION VISION:

To emerge as a centre of Excellence for producing professionals who shall be the leaders in technology innovation, entrepreneurship, and management and in turn contribute for advancement of society and human kind.

INSTITUTION MISSION:

- To provide an environment of learning in emerging technologies.
- To nurture a state of art teaching learning process and R&D culture.
- To foster networking with Alumni, Industry, Institutes of repute and other stakeholders for effective interaction.
- To practice and promote high standards of ethical values through societal commitment.

VISION OF THE DEPARTMENT

To teach excellence education for undergraduates in the field of Artificial Intelligence and Machine Learning in the technological-embedded domain and make professionals who help the better cause of society.

MISSION OF THE DEPARTMENT

- Impart demanding training to create knowledge through the state-of-the-art ideas and skills in Artificial Intelligence and Machine Learning.
- Facilitate the students to adapt to the rapidly changing technologies by providing cutting-edge laboratories and facilities.
- Kick off the research and training, paying special attention to the essential skills of the subsequent generation's workforce.

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ABOUT CSE (AI&ML) DEPARTMENT

The Department of Artificial Intelligence and Machine Learning (AI&ML) was founded in 2020 with the goal of providing high-quality higher education to as many students as possible and to satisfy the enormous need for highly trained professionals in the industry. The Department of AI&ML offers a B. Tech program in Computer Science and Engineering (Artificial Intelligence and Machine Learning). The curriculum is created to give students a firm foundation in AI and ML principles and concepts as well as practical experience in handling situations from the real world. Programming languages, computer architecture, machine learning, natural language processing, artificial intelligence, and deep learning are some of the department's core subjects. Students are continuously trained with an attitude of excellence to overcome automation challenges across all industries and provide new context and background to improve the agile process with the assistance of great laboratory facilities and well-qualified faculty members. Because of the program's interdisciplinary nature, it draws on knowledge and coursework from many different disciplines, including computer science, mathematics, and statistics. Students will have the chance to take part in research projects in addition to the required courses, both inside the department and with other departments and organizations. Students who complete the B.Tech. programme in Computer Science and Engineering (Artificial Intelligence and Machine Learning) will be well-versed in the theories and methods of AI & ML and will be qualified for employment in a range of fields and positions, including data analysis, software development, and research.

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Poster

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ABOUT THE EVENT

The Department of Computer Science and Engineering (Artificial Intelligence & Machine Learning), Malla Reddy College of Engineering (MRCE), successfully organized a **Five-Day National Level Faculty Development Program (FDP)** on **"Readiness for Academics and Research (RAR)"** from **20th to 24th January 2025**. This initiative was undertaken with the objective of strengthening the academic preparedness, research capabilities, and pedagogical skills of faculty members across various disciplines.

In an era marked by rapid technological advancements, shifting pedagogical models, and increasing research demands, faculty members play a crucial role in evolving education systems. Recognizing this, the FDP was designed to equip educators with essential knowledge, modern tools, and best practices required to excel simultaneously in **teaching, research, academic administration, and innovation-driven learning environments**.

Eminent speakers from reputed academic institutions delivered expert sessions addressing current academic challenges, research methodologies, AI-supported teaching tools, academic integrity, and strategies for enhancing research productivity. The participation of faculty from multiple institutions across the country added value to the collaborative learning experience.

OBJECTIVES OF THE FDP

The FDP focused on enhancing faculty readiness through the following goals:

- To strengthen pedagogical skills based on **Outcome-Based Education (OBE)** principles.

- To train faculty in **effective academic planning, assessment design**, and **attainment analysis**.

- To introduce **advanced digital and AI tools** that support innovative teaching and research productivity.

- To provide in-depth understanding of **research processes**, including literature review, problem formulation, ethics, and publication strategies.

- To create awareness about research performance metrics, indexing parameters, and global academic quality standards.

- To promote interdisciplinary collaboration and foster a research-driven academic culture.

EXPECTED OUTCOMES

By the end of the FDP, participants were expected to:

- Gain confidence in designing outcome-based lesson plans and assessment frameworks.

- Improve their ability to supervise student projects and research activities.

- Understand effective research methodologies, ethical considerations, and quality publication practices.

- Utilize digital applications, MS tools, Power BI, and AI-based platforms for academic and research enhancement.

- Strengthen their capabilities in writing funding proposals and conducting impactful research.

- Integrate modern tools and techniques into classroom teaching.

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DAY 1 – Redefining Teaching for the 21st Century

Resource Person: Dr. Gracy Teresa, Panimalar Engineering College

The first day focused on understanding and redefining the educational landscape in alignment with global teaching standards and learning outcomes.

Session 1: Academic Planning & Policy Readiness

Dr. Gracy highlighted the importance of structured academic calendars, curriculum alignment, and compliance with institutional and regulatory frameworks. She stressed how clear academic planning directly influences student success, course effectiveness, and departmental growth.

Session 2: Outcome-Based Education (OBE) and CO–PO Mapping

This session offered an in-depth explanation of OBE, its significance, and the process of mapping Course Outcomes to Program Outcomes. Participants learned how to create measurable outcomes and align them with teaching activities and assessments.

Session 3: Assessment and Attainment of Outcomes

Dr. Gracy discussed various assessment tools, rubrics, direct and indirect assessment methods, and the calculation of CO and PO attainments. Practical examples helped participants understand how attainment data can drive curriculum reforms.

DAY 2 – Pedagogical Innovations and Digital Teaching Tools

Resource Person: Dr. M. Narendhar , MRCEW

The second day was devoted to pedagogical innovation, digital literacy, and modern teaching tools that improve student engagement.

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Session 1: Pedagogical and Digital Teaching Tools

Participants explored the use of smart classroom tools, LMS platforms, blended learning models, and interactive pedagogical techniques that enhance comprehension and participation.

Session 2: Student Support System

The session emphasized structured mentoring, academic support mechanisms, counseling frameworks, and monitoring tools that ensure timely guidance for students.

Session 3: Advancements in MS Tools and Power BI

Resource Person: Dr. Anantha Raman G R, In-House

This hands-on session demonstrated how tools like MS Office Suite, Excel analytics, and Power BI dashboards can be used to organize academic data, visualize performance, and support institutional planning.

DAY 3 – Research Skills and AI in Education

Resource Persons: Dr. Anantha Raman G R & Dr. S. Balasubramani, KLU-BZA

The third day highlighted essential research skills, documentation practices, and the emerging role of AI in teaching.

Session 1: Guidelines for UG Project Thesis

Faculty were trained on structuring undergraduate projects, setting evaluation rubrics, guiding literature review processes, and mentoring students through effective project execution.

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Session 2: Use of AI Tools in Teaching

Dr. Balasubramani demonstrated AI-powered platforms that help create learning materials, automate assessments, design presentations, generate datasets, and enhance classroom engagement.
Examples included ChatGPT, AI-based plagiarism detectors, and content generation tools.

Session 3: Questionnaire & Interactive Discussion

Participants engaged in open discussions about challenges in adopting AI tools, research-related hurdles, and methods to improve academic output. This session fostered healthy dialogue and knowledge exchange.

DAY 4 – Research Foundations and Academic Integrity

Resource Person: Dr. G. Murali, KLU-BZA

This day emphasized building strong research foundations and understanding ethical publishing norms.

Session 1: Effective Literature Review & Plagiarism Awareness

Participants gained clarity on identifying research gaps, using digital libraries, and applying systematic literature review techniques.
The session also addressed plagiarism policies, citation standards, and tools for ensuring academic integrity.

Session 2: Writing Quality Research Papers & Targeting Journals

Dr. Murali explained manuscript structure, research methodology, writing style, and selection of appropriate journals based on indexing, scope, and impact factor. Tips were shared on avoiding predatory journals and maintaining publication ethics.

DAY 5 – Research Metrics, Impact & Academic Excellence

Resource Person: Dr. G. Murali, KLU-BZA

The final day centered on measuring research performance and enhancing academic contributions.

Session 1: Journal Indexing and Research Metrics

Participants were introduced to Scopus, Web of Science, UGC Care, and other indexing agencies. Various metrics such as Impact Factor, CiteScore, SJR, and SNIP were explained in detail.

Session 2: Measuring Your Research Impact

The session discussed h-index, i10-index, citation tracking, author profiles (Google Scholar, ORCID, Scopus ID), and strategies to increase research visibility through collaboration, networking, and quality publications.

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FDP – AIM, PURPOSE AND IMPORTANCE

AIM

The primary aim of this Faculty Development Program is to **empower faculty members with comprehensive, up-to-date knowledge of modern Artificial Intelligence technologies** and enable them to effectively incorporate advanced AI concepts, tools, and real-world applications into academic, research, and professional domains. This FDP seeks to enhance the overall academic preparedness of educators by:

- Deepening their understanding of rapidly evolving AI paradigms such as machine learning, deep learning, generative AI, autonomous systems, and multimodal intelligence.

- Strengthening their ability to adopt AI-driven methodologies for classroom instruction, curriculum development, and research mentorship.

- Building the technical competence required to design, analyze, and evaluate AI solutions that address complex real-world problems.

In essence, the aim is to create **future-ready educators** capable of shaping students into skilled, innovative, and industry-ready professionals.

PURPOSE

The purpose of this FDP extends beyond knowledge transfer; it is intended to establish a **holistic learning ecosystem** where faculty members can:

1. Gain Insight into Cutting-Edge AI Advancements

Participants explore major breakthroughs such as generative AI models, edge computing, explainable AI frameworks, reinforcement learning systems, and cross-domain AI

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applications. This exposure ensures that faculty remain aligned with global technological progress.

2. Bridge Academic Learning with Industry Demands

By understanding AI applications in sectors like healthcare, finance, agriculture, cybersecurity, smart cities, and education, faculty members become equipped to guide students toward contemporary problem-solving and innovation standards.

3. Strengthen Research Competency

The FDP provides hands-on guidance on dataset preparation, model building, experimental design, and AI-based research workflows. This helps faculty develop stronger research proposals, publish in high-quality journals, and supervise research-oriented student activities.

4. Integrate AI Tools for Teaching and Productivity

Participants learn to use AI-supported learning platforms, automated assessment tools, content-generation applications, and visualization systems that enhance teaching effectiveness and reduce academic workload.

5. Foster Interdisciplinary Collaboration and Professional Networking

The FDP serves as a platform for engaging with experts, peers, and practitioners across various domains, promoting collaborative learning, interdisciplinary projects, and knowledge exchange.

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Ultimately, the purpose is to **bridge the gap between traditional teaching methods and the demands of modern AI-driven education**, ensuring that faculty can effectively guide the next generation of learners.

IMPORTANCE

This FDP holds immense academic, professional, and institutional significance due to the following factors:

1. Aligns Faculty with Rapid Technological Evolution

AI is transforming every sector at unprecedented speed. Continuous professional development ensures that faculty stay updated, relevant, and capable of delivering futuristic education.

2. Enhances Teaching Innovation and Curriculum Quality

By integrating AI tools and intelligent technologies, educators can create engaging, interactive, and outcome-driven classroom environments that improve student learning outcomes and retention.

3. Strengthens Faculty Expertise for Guiding Student Projects

The knowledge gained enables faculty to mentor students in advanced AI projects, internships, hackathons, research competitions, and entrepreneurship initiatives.

4. Promotes High-Quality Research Output

The FDP equips faculty with the skills to write strong research papers, prepare proposals for funding agencies, use advanced AI research tools, and contribute to interdisciplinary publications.

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5. Supports Institutional Growth and Accreditation Goals

Adopting AI-enhanced teaching and research practices reflects an institution's commitment to excellence, innovation, and continuous improvement—key parameters in NAAC, NBA, and ranking frameworks.

6. Prepares Students for Industry 4.0 and Future Workforces

Well-trained faculty can effectively mentor students in AI technologies that drive innovation in automation, data science, cybersecurity, robotics, smart systems, and next-generation industries.

7. Contributes to Societal and Technological Impact

AI solutions developed through future projects can address challenges in agriculture, healthcare, disaster management, sustainability, governance, and public welfare.

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Summary:

The National Level Faculty Development Programme on **"Readiness for Academics and Research (RAR)"**, organized by the **Department of CSE (AI & ML), Malla Reddy College of Engineering (MRCE),** is being conducted **entirely in online mode** to support smooth participation from faculty members across various institutions.

To ensure effective communication and timely updates throughout the programme, a **dedicated WhatsApp group** has been created exclusively for the participants. All attendees are encouraged to join the group using the link provided below to stay connected, engage in discussions, and receive immediate notifications. Session links and daily schedules will be shared with participants via **email and WhatsApp** prior to each session.

Important Information

- **FDP Dates:** 8th January – 12th January 2024
- **Mode:** Online
- **Total No. of Participants:** 50
- **Platform:** All sessions will be conducted via **Cisco Webex**

Note: Participants are kindly requested to download and install the *Cisco Webex Meetings App* beforehand to avoid any last-minute connectivity issues.

Installation Links

- **For Desktop/Laptop:**

  https://www.webex.com/downloads.html

- **For Android:**

  https://play.google.com/store/apps/details?id=com.cisco.webex.meetings

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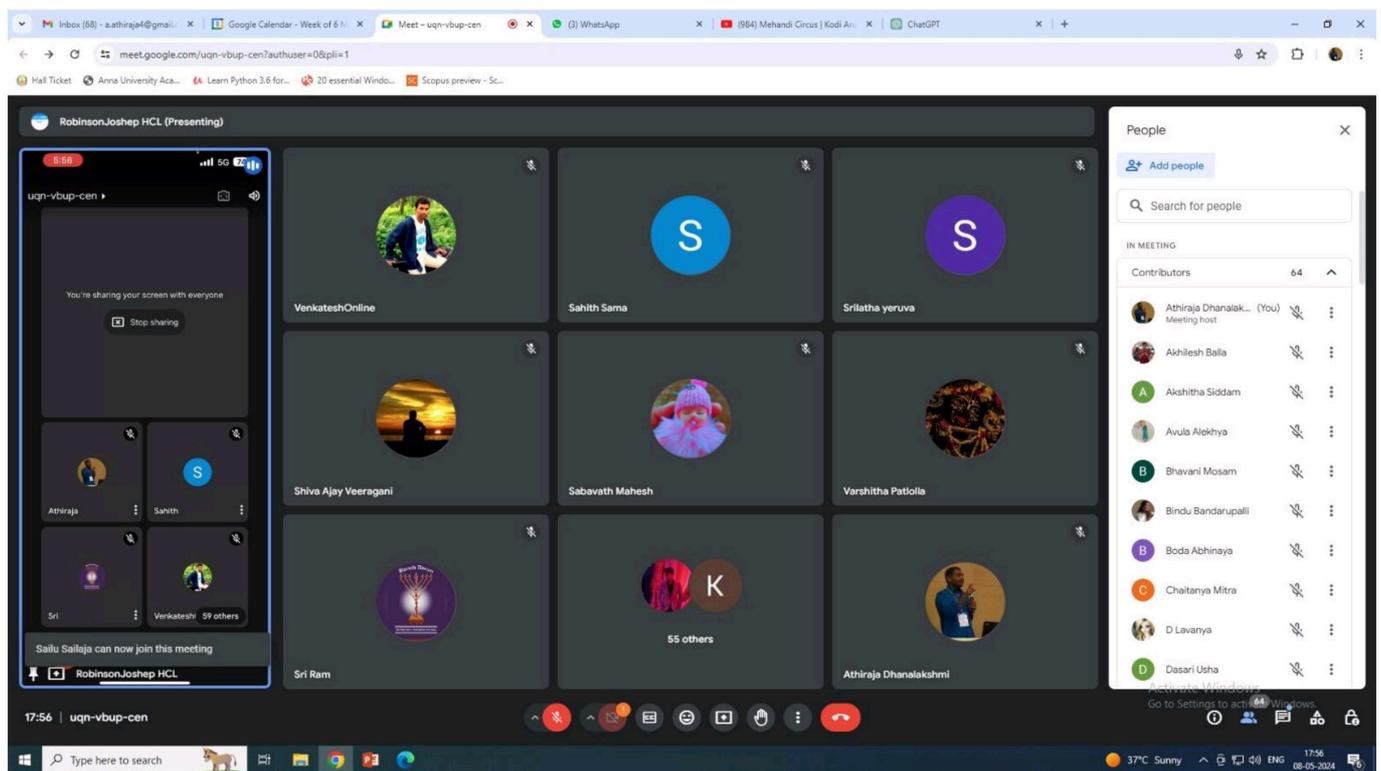Recognized under Section 2(f) & 12(B) of the UGC Act 1956,
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Content and Session

The Faculty Development Program (FDP) commenced with a warm welcome and an introductory address by **Mr. R. Venkatesh, Head of Department CSE(AIML)**, who acknowledged the dignitaries and key contributors behind the initiative. He first welcomed the visionary leader of MRCE, our respected Principal **Dr. Maram Ashok**, who delivered the inaugural address highlighting the significance of academic readiness, research excellence, and faculty development.

Day 1

Title: "Online Faculty Development Program"

Name of Guest Speaker: Dr. Gracy Teresa

Topic: *Redefining Teaching in the 21st Century: Tools & Techniques*

Objectives: Strengthening academic planning, OBE practices, CO–PO mapping & assessment readiness

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Organization Name: Malla Reddy College of Engineering

Day and Date: January 20th, 2025

Venue: Online Platform

Session Link:

https://netacad.webex.com/netacad/j.php?MTID=mc68ab34b31afbd06307c886f7038f5c0

Time: 6:00 p.m. to 7:30 p.m.

Feedback Link: https://l1nk.dev/9CUNV

Mr. R. Venkatesh then formally introduced the Chief Guest and Resource Person, **Dr. Gracy Teresa**, an experienced academic leader known for her contributions to Outcome-Based Education and curriculum development.

Session Highlights

In her session, Dr. Gracy Teresa shared valuable insights on effective teaching and academic preparedness. She highlighted:

- Importance of academic planning & institutional policies

- Outcome-Based Education (OBE): CO–PO Mapping & attainment calculations

- Assessment strategies for measuring learning outcomes

- Teaching methodologies aligned with 21st-century academic expectations

The Day 1 session concluded with a heartfelt Vote of Thanks by **Mr. R. Venkatesh**, acknowledging the speaker and participants for their enthusiastic involvement.

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Day 2

Title: "Online Faculty Development Program"

Name of Guest Speaker: Dr. M. Narendhar

Topic: *Pedagogical and Digital Teaching Tools*

Objectives: Exposure to advanced teaching tools, digital platforms & student-centric pedagogy

Organization Name: Malla Reddy College of Engineering

Day and Date: January 21st , 2025

Venue: Online Platform

Session Link:

https://netacad.webex.com/netacad/j.php?MTID=md2e8b77ab2aa0021340c8731eda908cc

Time: 6:00 p.m. to 7:30 p.m.

Feedback Link: https://l1nk.dev/aiFDP-Day2

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Session Highlights

In his session, **Dr. M. Narendhar** delivered valuable insights on modern teaching methodologies and digital education tools. He highlighted:

- Latest pedagogical tools for interactive teaching

- Classroom engagement strategies for diverse learners

- Student support systems for academic upliftment

- Use of digital platforms, virtual labs & automation tools

- Advancement in MS Tools & Power BI for academic reporting

Participants gained practical knowledge that can be directly applied in everyday teaching.

Day 3

Title: "Online Faculty Development Program"

Name of Guest Speaker: Anantha Raman G R & Dr. Dr. S Balasubramani

Topic: *Guidelines for UG Project Thesis & AI Tools in Teaching*

Objectives: Enhancing project guidance skills and introducing AI-assisted educational tools

Organization Name: Malla Reddy College of Engineering

Day and Date: January 22nd , 2025

Venue: Online Platform

Session Link:

https://netacad.webex.com/netacad/j.php?MTID=me44cc8fcb12a03e8f7fbbb4d2895a240

Time: 6:00 p.m. to 7:30 p.m.

Feedback Link: https://l1nk.dev/aiFDP-Day3

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Session Highlights

In his session, **Anantha Raman G R** shared key knowledge related to academic project supervision and AI-based tools for teaching. He covered:

- Structuring and evaluating UG project theses

- Documentation standards and research ethics for student projects

- AI tools for teaching (content creation, assessment automation, visualization)

- Enhancing classroom delivery through modern digital technologies

Participants appreciated the practical and research-oriented approach of the session.

Day 4

Title: "Online Faculty Development Program"

Name of Guest Speaker: Dr. G Murali

Topic: *Effective Literature Review, Plagiarism Awareness & Research Writing*

Objectives: Strengthening research fundamentals & understanding academic ethics

Organization Name: Malla Reddy College of Engineering

Day and Date: January 23rd, 2025

Venue: Online Platform

Session Link:

https://netacad.webex.com/netacad/j.php?MTID=m33102a7cd2f08d4475810e208c80c029

Time: 6:00 p.m. to 7:30 p.m.

Feedback Link: https://l1nk.dev/aiFDP-Day4

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Session Highlights

In his session, **Dr. G Murali** delivered deep insights into research methodology and academic integrity. He highlighted:

- Conducting robust literature reviews using credible sources

- Understanding plagiarism & use of plagiarism-check tools

- Writing high-quality research papers & targeting appropriate journals

- Structuring research methodology and documentation

The session provided immense value to faculty aspiring to enhance their research productivity.

Day 5

Title: "Online Faculty Development Program"

Name of Guest Speaker: Dr. G Murali

Topic: *Research Metrics, Indexing & Academic Impact*

Objectives: Understanding research evaluation, indexing standards, and scholarly impact

Organization Name: Malla Reddy College of Engineering

Day and Date: January 24th, 2025

Venue: Online Platform

Session Link:

https://netacad.webex.com/netacad/j.php?MTID=m11a51f0874d790d9d311de1ea70bfb29

Time: 6:00 p.m. to 7:30 p.m.

Feedback Link: https://l1nk.dev/aiFDP-Day5

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Session Highlights

In her session, **Dr. G Murali** provided valuable insights on research visibility and scholarly metrics. She elaborated on:

- Developing strong research problems & identifying research gaps

- Understanding research indexing systems (Scopus, WoS , UGC Care)

- h-index, i10-index & citation tracking for researchers

- Writing research proposals & preparing for funded research opportunities

- Open Discussion, Q&A & future directions in academic research

This final session created an engaging platform for participants to clarify doubts and share academic experiences.

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PROGRAM OUTCOMES

Program Specific Outcomes (PSOs)

By the end of the Faculty Development Program on "Readiness for Academics and Research (RAR)", the participants will be able to:

PSO 1 – Academic Planning & Pedagogical Readiness

Effectively implement modern pedagogical practices, structured academic planning, OBE frameworks, CO–PO mapping, and outcome-based assessment strategies to enhance teaching quality and learner engagement.

PSO 2 – Research Competency & Scholarly Development

Apply systematic research methodologies, conduct meaningful literature reviews, maintain academic integrity, and produce high-quality research papers, proposals, and scholarly contributions in their respective domains.

PSO 3 – Integration of Digital & AI Tools in Academics

Utilize digital platforms, AI-driven tools, data analytics applications, and technology-enabled teaching resources to improve academic delivery, documentation, evaluation, and research productivity.

PSO 4 – Academic Ethics, Professionalism & Continuous Learning

Demonstrate ethical behavior, responsible research practices, and commitment to lifelong learning while fostering a professional academic environment that supports student growth, mentorship, and institutional development.

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Program Educational Objectives (PEOs)

The FDP on **"Readiness for Academics and Research (RAR)"** aims to enable participants to:

PEO 1 – Strengthening Academic Readiness & Knowledge Upgradation

Enhance their academic expertise, stay updated with evolving educational frameworks, and adopt best practices essential for effective teaching and academic planning.

PEO 2 – Advancing Teaching Excellence & Pedagogical Skills

Develop innovative teaching strategies, OBE-aligned assessments, and learner-centric methodologies to improve student performance, engagement, and academic outcomes.

PEO 3 – Research Orientation & Scholarly Productivity

Encourage faculty to actively engage in research activities, conduct systematic literature reviews, prepare quality manuscripts, pursue funded research proposals, and contribute to scholarly advancements.

PEO 4 – Professional Growth, Ethics & Institutional Contribution

Promote professional responsibility, academic integrity, teamwork, and adaptability, enabling faculty to support institutional goals and uphold high academic and ethical standards.

PEO 5 – Building Strong Student Mentorship & Academic Support Systems

Equip faculty to effectively mentor students by guiding them in project work, research activities, internships, thesis preparation, academic documentation, and overall career progression.

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Recognized under Section 2(f) & 12(B) of the UGC Act 1956,
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CONCLUSION

The Five-Day Faculty Development Programme (FDP) on **"Readiness for Academics and Research (RAR)"** concluded successfully with an enriching combination of academic insights, practical demonstrations, and collaborative discussions. Throughout the five days, the sessions provided faculty members with a strong foundation in academic preparedness, modern pedagogical practices, effective research methodologies, and the essential tools required to strengthen both teaching and research activities.

Expert resource persons delivered impactful sessions covering a wide spectrum of academic and research-focused themes. These included structured academic planning, Outcome-Based Education (OBE), CO–PO mapping, assessment frameworks, digital teaching tools, project thesis guidelines, AI-supported teaching platforms, ethical research practices, literature review methods, plagiarism awareness, research paper writing, and research metrics .Participants gained clarity on how to align their teaching strategies with institutional goals, accreditation standards, and the evolving requirements of higher education.

The FDP significantly enhanced the research orientation of the participants by guiding them in identifying research gaps, framing strong research problems, writing quality manuscripts, preparing datasets, and understanding journal indexing systems and citation metrics. The interactive Q&A sessions and open discussions allowed faculty members to exchange ideas, address challenges, and explore collaborative opportunities for improving teaching effectiveness and research productivity.

Overall, the FDP achieved its objective of preparing faculty to confidently integrate modern academic frameworks, innovative teaching methodologies, and research-driven approaches into their professional practices. The program broadened the participants' perspectives, strengthened their academic competencies, and motivated them to pursue continuous improvement in both classroom delivery and scholarly contributions .The successful completion of this FDP marks a meaningful step toward developing a community of educators who are academically ready, research-focused, ethically responsible, and capable of guiding students toward excellence in an increasingly competitive academic environment.

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SAMPLE CERTIFICATE

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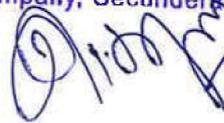Maisammaguda, Dhullapally, post via Kompally, Secunderabad - 500100

"A National level FDP on "Readiness for Academics and Research" Successfully organized and completed with support of convener, co-conveners, Organizers
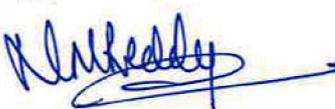
Signature

Convenor :

Principal
MALLA REDDY COLLEGE OF ENGG.
Maisammaguda, Dhulapally Post,
Kompally, Secunderabad-500 100, T.S

Co-convenors :

Organizers : 1.
                  2.

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THANK YOU!!