A Report on Two-day Career Guidance Program on "Engineering Elevates and Enlightens" Organized by Department of CSE-Artificial Intelligence & Machine Learning from 09.09.2025 to 10.09.2025


Report Submitted by: Mr. BSH. Shayeez Ahamed, Assistant Professor, Department of CSE (AI and ML)
Resource Person Details: Dr. R. Gopalakrishnan, Dean – Administration, K. S. Rangasamy College of Technology, Tiruchengode, Tamil Nadu
Participants: II & III Year CSE (AI and ML) and III CSE (Networks) – 282 Students
Venue: Seminar Hall - A
Mode of Conduct: Offline
Report Received on 12.09.2025.

Department of Computer Science and Engineering (AI and ML) has organized a **"Two-Day Career Guidance Program on Engineering Elevates and Enlightens"** from 09.09.2025 to 10.09.2025 (Tuesday & Wednesday).

Welcome Address:

The event commenced at 10:00 AM with a warm and engaging welcome address to all by Mr. BSH. Shayeez Ahamed, Asst. Professor, Department of CSE (AI and ML), Madanapalle Institute of Technology & Science **(**MITS), Madanapalle. The events' primary goal is to bridge the gap between academic learning and industry expectations, preparing students for diverse employment opportunities in IT, PSUs, startups, and global companies.

Keynote Address

Dr. S. Padma, Associate Professor & Head, Department of CSE (AI and ML), Madanapalle Institute of Technology & Science **(**MITS), Madanapalle welcomed the student with her keynote address and highlighted the importance of such initiatives in shaping students' futures and appreciated their active participation. She encouraged the students to come forward with innovative ideas by learning and adapting to emerging technologies that meet current industry demands. She further motivated them to enrich their knowledge and skills, emphasizing the significance of continuous learning and self-development in building successful careers.

Dr. P. Ramanathan, Principal, MITS, Madanapalle addressed the gathering and emphasized the importance of the GATE examination, professional certifications, and effective communication skills as essential components of career guidance. He motivated students to focus on these areas to enhance their employability and achieve success in competitive domains.


Resource Person Lecture:
Dr. R. Gopalakrishnan, Dean – Administration, K. S. Rangasamy College of Technology provided career guidance in engineering, especially for CSE (AI and ML) and CSE (Networks) students.

He discussed the following points in the event

Career Roadmap:

- Various career paths → Jobs, Higher Education, Entrepreneurship.
- Importance of global certifications (CCNA, SAP, Salesforce, UiPath, NEAT, MEITY initiatives).
- Building a strong ATS-compliant resume and professional profiles on LinkedIn / GitHub.

Industry Expectations:

- Hiring practices → "Hire slow, fire fast" and the importance of culture fit.
- Skills needed in Data Engineering, AI, ML, Cloud Computing, and Robotics.
- Significance of GPU & HPC (High Performance Computing) in modern AI research.
- Exposure to OEM (Original Equipment Manufacturers) and Tech companies (e.g., JP Morgan, Wells Fargo).
- Emphasis on communication skills for employability.

Skill Development:

- Suggested learning tracks:
    - V1 → C, Java, Python
    - V2 → Full Stack Development (FSD)
    - V3 → Artificial Intelligence (AI)
    - V4 → Machine Learning (ML)

Four-step growth plan:

1. Choose a domain
2. Refer to structured curriculum
3. Do certifications
4. Become an expert


- Participation in **ACM ICPC programming contests, internships (Internshala, NEAT, Anuvadini, Bhavishya),** and **ambassador programs.**
- Encouragement to write **blogs**, contribute to **GitHub projects**, and practice **branding methods** to stand out.

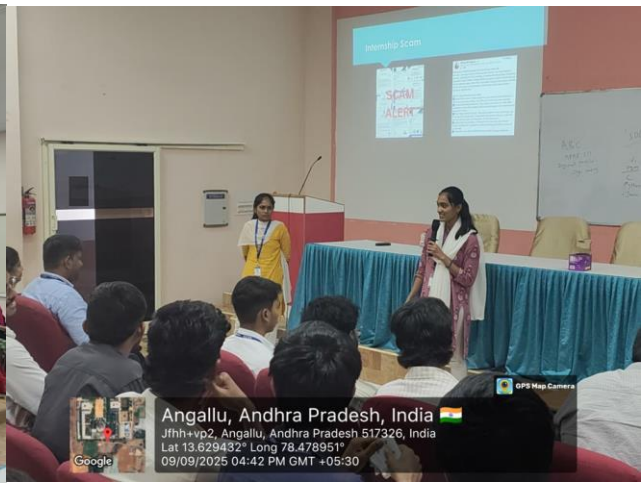
Employment Opportunities:

- **Software & Automation**: ERP Consultant, RPA Developer, Software Engineer.
- **Networking & Cloud**: Network Engineer (Cisco/Juniper), Cloud Architect, Data Centre Specialist.
- **AI & Data**: AI/ML Engineer, Data Scientist, BI Analyst.
- **Business & ITES**: CRM Specialist, SEO Analyst, Digital Process Manager.
- **Startups & Finance**: Roles in unicorns, venture capital, and entrepreneurship.
- **Government & PSUs**: GATE-based opportunities in ISRO, DRDO, BHEL, ONGC, etc.

The resource person, Dr. R. Gopalakrishnan, highlighted that "even the biggest corporate giants aren't invincible. Market shifts and Emerging Technologies can topple industry leaders who grow too comfortable. Complacency is the enemy of progress, and a failure to innovate can prove fatal." He urged students to constantly adapt, innovate, and upgrade their skills to remain competitive in the ever-evolving technology landscape.

The resource person illustrated the importance of innovation with the example of Kodak. He explained that Kodak, once a global leader in the photographic film market, failed to adapt to changing technology. Although the company developed the world's first digital camera, its management was overly focused on the success of traditional film products. By neglecting the digital revolution and resisting innovation, Kodak eventually lost its market dominance and filed for bankruptcy in 2012. This case was shared as a reminder that complacency and resistance to change can be fatal, even for industry giants.

Sir also cited the example of Nokia, once the global leader in mobile phones and the pioneer in creating the world's first cellular network. During the late 1990s and early 2000s, Nokia dominated the mobile industry. However, the company overestimated the strength of its brand and believed it could afford to enter the smartphone race late and still succeed. By the time Nokia responded in 2008—one year after Apple's iPhone revolutionized the market and Android was gaining momentum—its products were no longer competitive. This highlighted how delayed innovation and overconfidence led to the downfall of a once-dominant company.



The resource person shared a practical roadmap for students to achieve long-term career success:

- **Follow the Roadmap** – Stay consistent with the structured learning path to remain on track.
- **Leverage Resources** – Utilize the recommended learning materials to build a strong foundation.
- **Projects & Hands-on Work** – Apply knowledge through projects, real-world problems, and hands-on activities.

- **Branding on LinkedIn** – Create a professional digital presence by actively sharing learning progress, achievements, and insights.
- **GitHub Repository** – Maintain a portfolio by regularly pushing code, projects, and notes to GitHub, showcasing technical skills to recruiters.
- This framework emphasized that continuous learning, practical exposure, and personal branding are the keys to becoming industry-ready engineers.

He also highlighted the importance of soft skills and global exposure in building a successful career.

- **Foreign Languages**: Students were encouraged to learn Japanese, German, Spanish, or French and even start a Language Club to practice together. Sponsorships and support for foreign language learning were suggested, with the vision that multilingual ability will soon become a mandatory skill.
- **Fluency in English**: Emphasis was placed on achieving strong communication skills in English.
- **Communication Platforms**: Students were guided to actively participate in:
    - Group Discussions
    - Paper Presentations
    - Project Presentations
    - Book Talks
    - Master of Ceremonies (MOC) / Hosting Events
    - Radio Jockey (RJ) style activities
    - Public Speaking Opportunities

Vote of thanks

The event formally concluded with a Vote of Thanks delivered by **Mr. BSH. Shayeez Ahamed, Assistant Professor, Department of CSE (AI and ML), MITS**. He expressed his sincere gratitude to the resource person for taking the time to share his expertise and valuable insights with the students. He also extended his thanks to the Management, the Principal, and the Head of the Department for their constant encouragement and support in successfully conducting the two-day career guidance program.

Outcomes:

At the end of Presentation, Students will be able to

1. Students received clear career pathways and strategies for professional growth.
2. Students gained awareness about the importance of continuous learning, global certifications, and practical exposure.
3. Students felt motivated to explore AI, ML, Data Engineering, Cloud Computing, and Entrepreneurship as emerging career domains.
4. Students learned practical tips on resume building, internships, networking, and personal branding, helping them become industry-ready.

UN-SDG Mapping:

SDG 4 – Quality Education
SDG 8 – Decent Work and Economic Growth
SDG 9 – Industry, Innovation, and Infrastructure
SDG 17 – Partnerships for the Goals