Maharaja Surajmal Institute of Technology, New Delhi-110058

Department of Computer Science and Engineering

Report on Seminar

"B.Tech Roadmap: Comprehensive information and exploring New Scheme options for Second Year Students"

Name of the Expert	Dr. Geetika Dhand, HOD – Department of Computer Science and Engineering
Date and Time	12-08-2025, 11:00 AM - 12:00 PM
Target Audience	CSE Department 3rd Semester I st Shift
Organized by	Department of Computer Science and Engineering, Maharaja Surajmal Institute of Technology
Attended Participants	98

Introduction

On **12th August 2025**, a seminar was organized for the **CSE-2, CSE-3, and CSE-4** students of **B.Tech Computer Science and Engineering** at **Maharaja Surajmal Institute of Technology (MSIT), Janakpuri**. The participants had just stepped into their **3rd semester (2nd year)** of engineering. The seminar was conducted by **Dr. Geetika Dhand**, Head of the Department (HOD), Computer Science and Engineering, MSIT. The session aimed at orienting students towards the importance of consistency in academics, self-learning, and skill development for ensuring success in their future careers, particularly during the placement season.

Curriculum and Academic Structure

Dr. Geetika introduced the new curriculum framework, which includes four specialization pathways within the B. Tech CSE program. Students must select one pathway by the end of the 5th semester, which will influence their academic and career trajectory. The seminar covered essential aspects such as NSS credits, which contribute to holistic development, and the critical role of attendance in academic assessments. Dr. Geetika highlighted the transition from the foundational first year to the specialized second year, underlining the importance of subjects introduced from the second year onward for placement interviews.

Attendance and Mentorship

The seminar stressed the importance of maintaining a minimum of 75% attendance, as mandated by Guru Gobind Singh Indraprastha University (GGSIPU). Dr. Geetika introduced the mentorship system, where each mentor supports a group of 20 students throughout their B. Tech program. Mentors will monitor

attendance, academic progress, and provide guidance. Regular mentor meetings will address any academic or personal issues students may face, emphasizing the proactive approach to maintaining student engagement and success.

NSS and Technical Activities

Dr. Geetika discussed the significance of engaging in National Service Scheme (NSS) activities and technical clubs. NSS participation is evaluated in the 6th semester based on certificates for a minimum of 15 hours of service per semester, contributing to the final marks. Technical activities, such as tech fairs and workshops, also play a crucial role. Certificates from these activities should be submitted to mentors, as they impact academic evaluation and provide valuable experience for future careers.

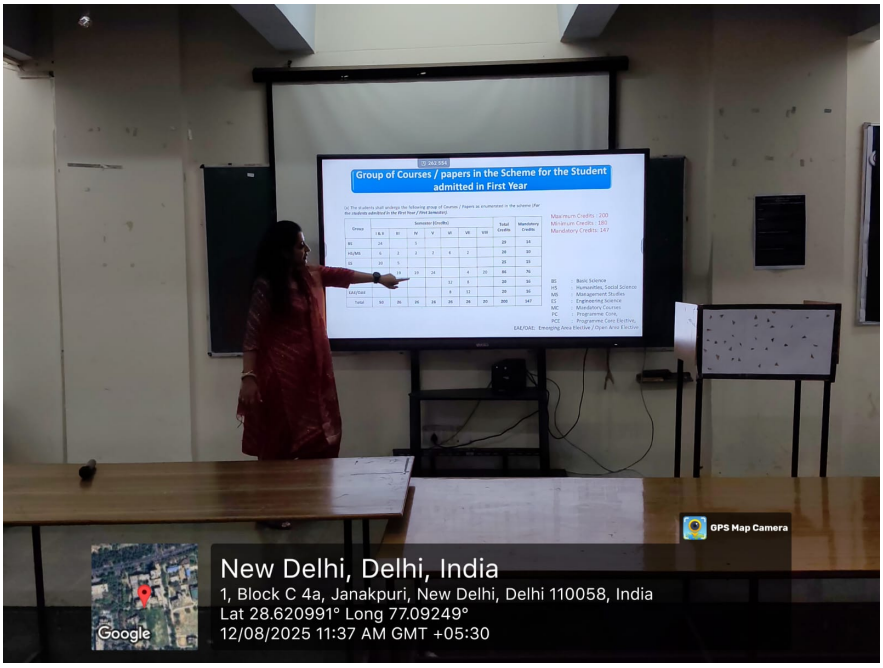
Summer Training and Projects

Summer training and project work were highlighted as essential components of the B. Tech program. Students are required to complete two summer training sessions: one after the second year and another after the sixth semester. Each session carries 1 credit and provides practical industry exposure. Additionally, students must complete a minor project in the 7th semester and can choose between a major project or an additional internship in the final year. These components are crucial for academic progression and career preparation.

Placement Preparation

Dr. Geetika outlined key elements of placement preparation. Maintaining high attendance and starting preparation early are vital. Core subjects like Data Structures and Object-Oriented Programming should

be prioritized. Companies have varied selection criteria, with some focusing on academic performance rather than Hackathon participation. Dr. Geetika advised students to build a strong foundation in core subjects and participate in relevant activities to enhance their placement prospects.



Specialization Options and Credit Requirements

The new academic scheme offers four specialization options for students:

1. B.Tech Degree

o Credits Required: 180 credits.

o Course Requirements: Complete five subjects from either Emerging Area Electives (EAE) or Open Area Electives (OAE) groups. SWAYAM courses are not included.

2. B.Tech with Minor Specialization

o Credits Required: 180 credits plus an additional 20 credits from a minor specialization group.

o Minor Specialization Groups: Students can choose from 14 predefined groups, such as Artificial Intelligence (AI) or AI & Machine Learning (ML). SWAYAM courses are not included.

3. B. Tech with Honors

o Credits Required: 200 credits, including 180 for the degree and 20 from SWAYAM courses. o CGPA Requirement: Minimum CGPA of 7.5.

o SWAYAM Courses: Must be approved by the Academic Program Committee (APCT).

4. B. Tech with Minor Specialization and Honors

o Credits Required: 200 credits, combining 180 for the degree and 20 from a minor specialization and SWAYAM courses.

o CGPA Requirement: Minimum CGPA of 7.5.

o Specialization: Complete five subjects within the chosen minor specialization group.

In the 5th semester, students will receive a Google Form to select their specialization. This decision will impact their academic trajectory and the type of degree awarded.

The seminar provided valuable insights into the updated curriculum, placement dynamics, and credit system. Dr. Geetika's explanations of the new academic scheme and placement preparation strategies offer a comprehensive guide for navigating the B. Tech program. Dr. Kavita Sheoran, Dr. Shaily Malik's insights into the 2024 placement scenario emphasized the importance of overall academic performance and skill development over event-specific achievements. By understanding and applying these insights, students can effectively manage their academic journey and enhance their career opportunities.

Student Interaction and Q&A Session

The seminar was highly interactive, with students showing keen interest in the topics discussed. They actively participated by asking questions related to:

- Time management strategies for balancing academics and skill development.
- Recommended resources for learning beyond college curriculum.
- Choosing electives wisely based on future career goals.
  Dr. Dhand addressed their queries patiently and encouraged them to approach their faculty mentors for further personalized guidance.

Conclusion

The seminar served as a roadmap for students entering their 2nd year of engineering, underlining the significance of early preparation for both academics and placements. Students left the session informed and motivated to adopt a disciplined approach while exploring both technical and non-technical aspects of their growth. The session strengthened their understanding of how consistent efforts today can lead to better performance and opportunities in the future.

Acknowledgment

We extend our sincere gratitude to Dr. Geetika Dhand, HOD, CSE Department, for taking the time to share her knowledge, guidance, and motivation with the students. We also thank the faculty and organizers of MSIT for arranging this insightful seminar and providing students with an opportunity to learn and plan their academic journey effectively.

Faculty Co-ordinator :

Dr. Kavita

Dr. Medhavi Malik

Dr. Sangeeta

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HOD CSE (I st Shift)