

# **Report on Expert Lecture**

## **“Pre-Requisites and Qualities for Becoming a Professional Civil Engineer”**

### **1. Introduction**

An expert lecture on “Pre-Requisites and Qualities for Becoming a Professional Civil Engineer” was organized for the students of Civil Engineering to provide guidance on professional development and career preparation in the field of civil engineering. The lecture was delivered by Er. Atul Tewari, a renowned professional with extensive experience in consultancy and advisory services for water infrastructure projects.

The session was held on 21 September 2024 with the aim of helping students understand the technical knowledge, professional ethics, and personal qualities required to become a successful civil engineer in the infrastructure sector.

### **2. Resource Person**

The lecture was delivered by Er. Atul Tewari, who has significant experience in the planning, design, and management of water-related infrastructure projects. Through his professional journey, he has contributed to project consultancy, feasibility analysis, and technical advisory services for infrastructure development, especially in water resource projects.

### **3. Objectives of the Lecture**

The major objectives of the expert lecture were:

- To explain the essential knowledge and skills required to become a professional civil engineer.
- To motivate students to develop technical competence and ethical professional practices.
- To highlight the importance of practical experience and field exposure in civil engineering.
- To provide guidance regarding career development and professional growth in the infrastructure sector.
- To encourage students to develop leadership, communication, and problem-solving skills.

### **4. Key Points Discussed**

#### **4.1 Fundamental Knowledge and Technical Skills**

The expert emphasized that a strong foundation in core civil engineering subjects such as structural engineering, geotechnical engineering, transportation engineering, and environmental engineering is essential for a successful career. Students were advised to focus on understanding basic concepts, design principles, and engineering standards.

## **4.2 Importance of Practical Exposure**

The speaker highlighted the importance of practical training and field experience in civil engineering. Students were encouraged to participate in internships, site visits, and practical training programs to understand real-world construction practices and infrastructure development processes.

## **4.3 Professional Ethics and Responsibility**

Another important aspect discussed during the lecture was professional ethics and responsibility. Civil engineers play a crucial role in the development of infrastructure that directly impacts society. Therefore, engineers must ensure:

- Safety and quality in construction
- Compliance with engineering standards and regulations
- Transparency and accountability in project execution

## **4.4 Essential Qualities of a Professional Civil Engineer**

The resource person also discussed several personal qualities that are important for becoming a professional civil engineer, including:

- Strong analytical and problem-solving skills
- Effective communication and teamwork abilities
- Leadership and decision-making capability
- Commitment to continuous learning and professional development
- Ability to adapt to technological advancements in the construction industry

## **5. Interaction Session**

The lecture concluded with an interactive session where students asked questions related to career opportunities, professional growth, and challenges faced by civil engineers in the infrastructure sector. The expert shared practical experiences from his career and motivated students to develop technical expertise along with professional integrity.

## **6. Outcome of the Lecture**

The expert lecture was highly beneficial for the students as it:

- Provided insights into the skills and qualities required to become a professional civil engineer.
- Enhanced students' understanding of professional responsibilities in infrastructure development.
- Encouraged students to focus on both theoretical knowledge and practical experience.
- Motivated students to develop ethical and professional values in engineering practice.

## 7. Conclusion

The expert lecture delivered by Er. Atul Tewari was informative and inspiring for the students. The session successfully highlighted the pre-requisites, professional skills, and ethical responsibilities required to become a successful civil engineer. Such expert interactions provide valuable exposure to students and help bridge the gap between academic learning and professional practice. Total 26 students attended this lecture.

### Attendance Sheet

Attendance Record of Students			
Expert Lecture by Atul Tewari			
on			
21/09/2024, 12:00PM (Saturday)			
Topic: Pre-requisite and qualities for becoming professional civil engineer			
S.No.	Name of Student	Roll No.	Signature
1.	Uday Kumar Hirvane	0901CE221101	
2.	Khushboo Kaushal	0901CE221048	
3.	Himani Jain	0901CE221041	
4.	Aryan Chaurasiya	0901CE221013	
5.	Aryan Mishra	0901CE221014	
6.	Abhay Rawal	0901CE221001	
7.	Ayush Ahirwar	0901CE231023	
8.	Ayushi Sanyal	0901CE221021	
9.	Shashit Dixit	0901CE22042	
10.	Anshu Chaudhary	0901CE231012	
11.	Aditya Pratap Singh	0901CE231008	
12.	Zahid Khan	0901CE221112	
13.	Satyamev Singh Bundla	0901CE221091	
14.	Hiranshu Sharma	0901CE233008	
15.	Rishikant Ahirwar	0901CE221001	
16.	Anshu Shrivastava	0901CE231020	
17.	Harish Vardhan Baiga	0901CE231041	
18.	DHRUV SHARMA	0901CE211042	
19.	Kushagra Sharma	0901CE231057	
20.	Kishan Choudhary	0901CE221072	
21.	Niben Sankar	0901CE221064	
22.	Nikhil Yadav	0901CE221061	
23.	Smit Soni	0901CE23ME05	
24.	Pranshu Garg	0901CE23ME04	
25.	Simran Patil	0901CE23MT02	
26.	Sangeeta Salunkhe		