

# **Report on One-Week Faculty Development Programme on “Course File Preparation and Question Paper Setting based on Outcome-Based Education (OBE)”**

**Organized by:** *Internal Quality Assurance Cell (IQAC), Delhi Technological University (Formerly Delhi College of Engineering)*

**In association with:** *National Institute of Technical Teachers' Training and Research (NITTTR), Chennai*

**Date:** 13th – 17th October 2025 | **Venue:** Pragyan Hall, Administrative Block, DTU

## **1. Introduction**

The Internal Quality Assurance Cell (IQAC), Delhi Technological University, in association with the National Institute of Technical Teachers' Training and Research (NITTTR), Chennai, organized a **One-Week Faculty Development Programme (FDP)** on “*Course File Preparation and Question Paper Setting based on Outcome-Based Education (OBE)*” from **13th to 17th October 2025** at Pragyan Hall, DTU. The FDP aimed to orient faculty members toward **Outcome-Based Education**, emphasizing academic documentation, assessment design, and continuous improvement in alignment with the **National Education Policy (NEP) 2020**.

## **2. Inaugural Function — 13 October 2025**

The inaugural ceremony commenced at **10:00 A.M.** with the **National Anthem**, followed by **Lamp Lighting and Saraswati Vandana (10:02 – 10:05 A.M.)** to invoke divine blessings for knowledge and wisdom.

**Prof. Shilpa Pal**, *Director, IQAC-DTU*, delivered the **Welcome Address** and introduced the objectives of the FDP.

**Prof. E. S. M. Suresh**, *NITTTR Chennai*, addressed the gathering on the national significance of academic quality enhancement.

**Prof. Narendra Kumar**, *Registrar, DTU*, emphasized institutional commitment to quality processes. The **Hon'ble Vice Chancellor, Prof. Prateek Sharma**, delivered the **Inaugural Address (10:20 – 10:28 A.M.)**, underlining that teaching is not merely information transfer but transformation of learners.

The session concluded with **Felicitation of Experts (10:28 – 10:30 A.M.)** and a **Vote of Thanks (10:30 – 10:35 A.M.)** by **Dr. Amrish Panwar**, *Associate Director, IQAC-DTU*, followed by a **Group Photograph** and **High Tea**.

## **3. Day-wise Proceedings**

### **Day 1 – 13 October 2025: Orientation and Conceptual Foundations**

Following the inauguration, participants were introduced to the fundamentals of **Outcome-Based Education (OBE)**. Experts from NITTTR Chennai explained the philosophy behind OBE, highlighting the shift from teacher-centred to learner-centred education. Discussions covered *Programme Educational Objectives (PEOs)*, *Programme Outcomes (POs)*, *Programme Specific Outcomes (PSOs)*,

and *Course Outcomes (COs)*. Participants learned the importance of defining measurable learning outcomes and the alignment of curriculum, pedagogy, and assessment with those outcomes.

#### **Day 2 – 14 October 2025: CO–PO Mapping and Attainment Analysis**

Day 2 focused on **Course Outcome (CO) to Programme Outcome (PO) mapping**. Participants performed exercises to establish correlations between COs, POs, and PSOs using a structured matrix approach.

Experts demonstrated how to set target levels and calculate attainment scores using direct (assessment-based) and indirect (feedback-based) methods. Faculty members practiced mapping their own courses and understanding how attainment analysis supports accreditation requirements.

#### **Day 3 – 15 October 2025: Rubric Design and Continuous Evaluation**

Sessions on Day 3 were dedicated to **rubric design** and **assessment strategy formulation**. Experts guided participants in creating rubrics for evaluating practicals, projects, and presentations, ensuring fairness and transparency. Illustrations from engineering and management courses helped participants understand how rubrics connect assessment criteria to Bloom's Taxonomy. Discussions also covered integrating continuous internal evaluation with semester-end examinations for balanced assessment of knowledge, skills, and attitudes.

#### **Day 4 – 16 October 2025: LMS Integration and Academic Documentation**

Day 4 addressed the **use of Learning Management Systems (LMS)** for OBE implementation. Resource persons demonstrated how LMS platforms can automate attendance, evaluation records, and CO attainment calculations. Participants explored dashboards for real-time tracking of student performance and course progress. The session also included guidelines for **maintaining digital course files**, ensuring easy retrieval of evidence during accreditation visits and audits.

#### **Day 5 – 17 October 2025: Question-Paper Design and Course File Preparation**

The concluding academic day concentrated on **Question-Paper Setting aligned with Outcome-Based Education** and **Course File Compilation**. Experts elaborated on aligning each question with the corresponding CO and Bloom's cognitive levels, ensuring balanced coverage across learning domains. Participants engaged in designing question papers, preparing answer-key mapping, and assembling a complete **Course File** containing syllabus, lesson plan, assessment tools, rubrics, attainment data, and reflection reports. The practical exercise ensured every participant could replicate the process in their own department, thus closing the loop of planning, delivery, assessment, and documentation.

### **4. Valedictory Function — 17 October 2025**

The **Valedictory Function** marked the successful completion of the FDP. The session was anchored by **Dr. Anurag Goel**, *Convener, IQAC-DTU*. The event was graced by **Prof. Neeta Pandey**, *Head, Department of Electronics and Communication Engineering and Former Director, IQAC-DTU*, and **Prof. Nirendra Dev**, *Former Controller of Finance and Registrar, DTU*, as *Guests of Honor*. **Prof. Shilpa Pal**, *Director, IQAC-DTU*, delivered the **Valedictory Address**, highlighting that course documentation and question-paper design are tangible reflections of academic integrity. Participants shared

feedback appreciating the hands-on methodology and clarity of resource sessions. Vote of Thanks was delivered by Dr. Anurag Goel. The event concluded with **felicitation of experts and organizers, certificate distribution**, and a **group photograph** commemorating the successful completion of the week-long programme.

## 5. Outcome and Summary

The FDP achieved its objective of enhancing faculty capability in planning, executing, and documenting **Outcome-Based Education** processes. Participants gained practical knowledge of CO-PO mapping, rubric design, LMS utilization, and course file development. The structured schedule ensured continuity from conceptual understanding to practical application, reflecting DTU's commitment to quality education and continuous faculty development. Through this well-organized five-day programme, DTU reaffirmed its dedication to integrating OBE principles across all levels of teaching and learning, further strengthening the academic quality culture envisioned by the **Internal Quality Assurance Cell**.

### List of Participants

| S.NO. | NAME OF THE FACULTY   | DESIGNATION         | DEPARTMENT NAME                  |
|-------|-----------------------|---------------------|----------------------------------|
| 1     | MAMTA RANI            | ASSISTANT PROFESSOR | BIOTECHNOLOGY                    |
| 2     | PRAVEEN KUMAR         | ASSISTANT PROFESSOR | BIOTECHNOLOGY                    |
| 3     | SHIVANI KHATRI        | ASSISTANT PROFESSOR | BIOTECHNOLOGY                    |
| 4     | DR. ANKITA            | ASSISTANT PROFESSOR | BIOTECHNOLOGY                    |
| 5     | PREM RAJ MEENA        | ASSISTANT PROFESSOR | BIOTECHNOLOGY                    |
| 6     | DR. RAMAN KUMAR       | ASSISTANT PROFESSOR | BIOTECHNOLOGY                    |
| 7     | ANSHIKA ARORA         | ASSISTANT PROFESSOR | COMPUTER SCIENCE AND ENGINEERING |
| 8     | RAHUL KUMAR           | ASSISTANT PROFESSOR | COMPUTER SCIENCE AND ENGINEERING |
| 9     | DR. GUNJAN CHUGH      | ASSISTANT PROFESSOR | COMPUTER SCIENCE AND ENGINEERING |
| 10    | ILA KAUSHIK           | ASSISTANT PROFESSOR | COMPUTER SCIENCE AND ENGINEERING |
| 11    | DR. NEMALIKANTI ANAND | ASSISTANT PROFESSOR | COMPUTER SCIENCE AND ENGINEERING |
| 12    | YESHWANT SINGH        | ASSISTANT PROFESSOR | COMPUTER SCIENCE AND ENGINEERING |
| 13    | PIYUSH RAWAT          | ASSISTANT PROFESSOR | COMPUTER SCIENCE AND ENGINEERING |
| 14    | SNIGDHA AGRAWAL       | ASSISTANT PROFESSOR | COMPUTER SCIENCE AND ENGINEERING |
| 15    | ANJALI BANSAL         | ASSISTANT PROFESSOR | COMPUTER SCIENCE AND ENGINEERING |
| 16    | ASHISH KUMAR          | ASSISTANT PROFESSOR | COMPUTER SCIENCE AND ENGINEERING |
| 17    | BHAWANA               | ASSISTANT PROFESSOR | COMPUTER SCIENCE AND ENGINEERING |
| 18    | ADITI ZEAR            | ASSISTANT PROFESSOR | COMPUTER SCIENCE AND ENGINEERING |
| 19    | POOJA GUPTA           | ASSISTANT PROFESSOR | COMPUTER SCIENCE AND ENGINEERING |
| 20    | SUNAKSHI MEHRA        | ASSISTANT PROFESSOR | COMPUTER SCIENCE AND ENGINEERING |
| 21    | NEHA GUPTA            | ASSISTANT PROFESSOR | COMPUTER SCIENCE AND ENGINEERING |
| 22    | DR SEEMA              | ASSISTANT PROFESSOR | DELHI SCHOOL OF MANAGEMENT       |
| 23    | VEENU SHANKAR         | ASSISTANT PROFESSOR | DELHI SCHOOL OF MANAGEMENT       |
| 24    | DR. ARUSHI JAIN       | ASSISTANT PROFESSOR | DELHI SCHOOL OF MANAGEMENT       |
| 25    | DR YOGESH SHARMA      | ASSISTANT PROFESSOR | DELHI SCHOOL OF MANAGEMENT       |
| 26    | DR. PRAMA VISHNOI     | ASSISTANT PROFESSOR | DELHI SCHOOL OF MANAGEMENT       |
| 27    | SHELLY GUPTA          | ASSISTANT PROFESSOR | DELHI SCHOOL OF MANAGEMENT       |

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|----|-------------------------|---------------------|---------------------------------------|
| 28 | RENUKA PRASAD           | ASSISTANT PROFESSOR | DELHI SCHOOL OF MANAGEMENT            |
| 29 | APOORVA JAIN            | ASSISTANT PROFESSOR | DELHI SCHOOL OF MANAGEMENT            |
| 30 | MEENAKSHI AHLAWAT       | ASSISTANT PROFESSOR | DELHI SCHOOL OF MANAGEMENT            |
| 31 | RAKESH KUMAR MALVIYA    | ASSISTANT PROFESSOR | DELHI SCHOOL OF MANAGEMENT            |
| 32 | GULISTAAN               | ASSISTANT PROFESSOR | DESIGN                                |
| 33 | DEBARGHYA KUMAR         | ASSISTANT PROFESSOR | DESIGN                                |
| 34 | PRATEEK SAINI           | ASSISTANT PROFESSOR | ENVIRONMENTAL SCIENCE AND ENGINEERING |
| 35 | HARIOM JORWAL           | ASSISTANT PROFESSOR | ENVIRONMENTAL SCIENCE AND ENGINEERING |
| 36 | RAVI PRATAP SINGH JADON | ASSISTANT PROFESSOR | ENVIRONMENTAL SCIENCE AND ENGINEERING |
| 37 | HARSH PIPIL             | ASSISTANT PROFESSOR | ENVIRONMENTAL SCIENCE AND ENGINEERING |
| 38 | BARUN KANOO             | ASSISTANT PROFESSOR | ENVIRONMENTAL SCIENCE AND ENGINEERING |
| 39 | DR. RAJAT CHATTERJEE    | ASSISTANT PROFESSOR | ENVIRONMENTAL SCIENCE AND ENGINEERING |
| 40 | SANDEEP KUMAR           | ASSISTANT PROFESSOR | ENVIRONMENTAL SCIENCE AND ENGINEERING |
| 41 | ANKIT YADAV             | ASSISTANT PROFESSOR | INFORMATION TECHNOLOGY                |
| 42 | SHALLY GUPTA            | ASSISTANT PROFESSOR | INFORMATION TECHNOLOGY                |
| 43 | ASHUTOSH PANDEY         | ASSISTANT PROFESSOR | INFORMATION TECHNOLOGY                |
| 44 | AKSHAY MOOL             | ASSISTANT PROFESSOR | INFORMATION TECHNOLOGY                |
| 45 | SHWETA GUPTA            | ASSISTANT PROFESSOR | SOFTWARE ENGINEERING                  |
| 46 | SWECHCHHA GUPTA         | ASSISTANT PROFESSOR | SOFTWARE ENGINEERING                  |

## Glimpses





