

# CURRICULUM DEVELOPMENT CENTRE

January to March, 2025



## 1. Training Programme:

### Short Term Courses:

1. Effective Curriculum Implementation using FOSS from 20-24 January, 2025; Coordinated by Dr. Rajesh Mehra.
2. Accomplishment of Curriculum Objectives using CAD from 03-07 February, 2025; Coordinated by Dr. Rajesh Mehra.
3. Effective Curriculum Implementation from 17-21 February, 2025; Coordinated by Dr. S.K. Gupta.
4. Effective Curriculum Implementation from 03-07 March, 2025; Coordinated by Dr. S.K. Gupta.
5. Mentoring skills for effective curriculum Implementation from 03-07 March, 2025; Coordinated by PK Singla.
6. CAD practices to achieve Curriculum goals from 17-21 March, 2025; Coordinated by Dr. Rajesh Mehra.
7. Capacity Building for Teachers from 24-28 February, 2025 at IIIT Una; Coordinated by Dr. Meenakshi Sood with IMEE department.

### Faculty Academic Contribution outside the Department

- Prof. PK Singla engaged an expert sessions on 'Ethics and Values' during Short-Term Course 'Outcome Based Education and Teaching Pedagogy' from 20-24, January 2025 for engineering colleges and polytechnic teachers, organized by IMEE and Rural Development Department on January 23, 2025.
- Prof. PK Singla engaged a session as the resource person on the themes 'Framing Effective Course Outcomes aligned with POs, PEOs and PSOs' and CO-PO Attainment: Mapping, Calculation and Articulation' during a one-day hands-on workshop on 'Outcome-Based Education', organized by Chandigarh University on 1, February 2025.
- Prof. PK Singla engaged an online session on 'Role of higher education in society' during Malavya Mission Teacher Training Programme on 'NEP Orientation & Sensitization' from February 11 – 19, 2025 organized by NITTTR, Chandigarh on 19, February 2025.

- Prof. PK Singla engaged an expert sessions during offline training programme-cum-workshop on 'English Speaking Competency Development' in collaboration with Vidya Bharti, Northern Zone at NITTTR, Chandigarh from 20-28 February, 2025.
- Prof. PK Singla engaged theme sessions on 'Writing learning outcomes' and 'Preparing Table of Specifications' during training programme-cum-Workshop on 'Setting Question Paper and Designing Marking Scheme' organized by EMGT and CDC for Air Force Warriors in offline mode at NITTTR, Chandigarh from 27-28 February, 2025. Co-coordinated the Workshop.
- Prof. PK Singla engaged session on 'Expectations of Potential Employers and Most Significant Aspects of Communication for a Successful Career' during the one week training program on 'Communication Skills & Personality Development' in a FDP from 4-10 March, 2025 for UG, PG and PhD students of College of Horticulture and RARI Durgapura, organized by The College of Horticulture, Durgapura, Jaipur, in Collaboration with Linguistics Empowerment Cell, Jawaharlal Nehru University, N. Delhi on 10 March 2025.
- Prof. PK Singla engaged an expert session on 'Effective Classroom Communication' during Short-Term Course 'Student Centred Teaching Methodology' from 17-21, March 2025 for engineering colleges and polytechnic teachers, organized by EMGT Department, on 17, March 2025.
- Prof. PK Singla engaged an online session on the theme 'Curriculum Development for Technopreneurship' as a resource person and facilitator at the In-Country Program for Myanmar on 'Entrepreneurship/ Technopreneurship Development in TVET' from March 17-21, 2025, organized by The Colombo Plan Staff College (CPSC) on March 18, 2025.
- Dr. Meenakshi Sood engaged an expert session on Holistic and Multidisciplinary Education: An overview in Malavyia Mission Teachers Training Programme on NEP Orientation & Sensitization from 1 – 10 February, 2025.
- Dr. Meenakshi Sood engaged an expert session on Holistic and Multidisciplinary Education: Aspects of curriculum design" FDP under Malavyia Mission Teachers Training Programme on NEP Orientation & Sensitization from 1 – 10 February, 2025.
- Dr. Meenakshi Sood engaged an expert session on "NEP 2020 transforming Higher Education" in STC on "Induction Training to improve Teaching and Research in Technical Education" from 3 - 7 February, 2025 for Department of Rural Development.
- Dr. Meenakshi Sood engaged an expert session on VLABS in STC on "Accomplishment of Curriculum Objectives using CAD" from 3 - 7 February, 2025.
- Dr. Meenakshi Sood engaged session on NEP-2020 relevance for Curriculum Implementation on 18 February 2025.
- Dr. Meenakshi Sood engaged an expert talk on 'Focus of NEP-2020 on Multi-Disciplinary Education' in FDP on 'Advances in Automotive Technologies' from 10 – 14, March 2025 for Mechanical Engineering Department.

- Dr. Meenakshi Sood engaged an expert talk in FDP on NEP-2020: Orientation & Sensitization organised by NITTTR, Chandigarh in Collaboration with UGC-MMTTC (HRDC), JNV University, Jodhpur from 11-19 February, 2025.
- Dr. Meenakshi Sood as distinguished speaker at “Empowering Women Engineers through Pedagogical Skills (EWPS-2025)” under the aegis of “ANRF (SERB) - INAE Woman Engineers Program” from 21-22 February, 2025 at NIT Hamirpur.

## **2. Curriculum Development:**

- Conducted 2 Curricula Workshops for PSBTE, Punjab.
  - Workshop to design of curriculum for PSBTE - Mechatronics conducted on March 12, 2025.
  - Workshop to design of curriculum for PSBTE - Textile Design conducted on March 19, 2025.
- Conducted 5 Curricula Workshops for IIIT, Nagpur.
  - Workshop to design of curriculum for IIIT Nagpur – Spiritual Development conducted on February 10, 2025.
  - Workshop to design of curriculum for IIIT Nagpur – Personal and Social Responsibilities conducted on February 11, 2025.
  - Workshop to design of curriculum for IIIT Nagpur – Diversity Management conducted on February 12, 2025.
  - Workshop to design of curriculum for IIIT Nagpur – Vedic Science conducted on February 13, 2025.
  - Workshop to design of curriculum for IIIT Nagpur – Sensitivity and Sustainability conducted on February 14, 2025.



**Workshops for developing curricula for IIT, Nagpur**

### 3. Research & Development:

- **SCI Publications**

Divya Sharma, Rajesh Mehra, Balwinder Raj “Various Material and Structures for Heterojunction Organic Solar Cells Design for Efficiency Enhancement” NANO: Brief Reports and Reviews, 2550021 (10 pages), January 2025. DOI: 10.1142/S1793292025500213

- **Ph.D and M.E. Thesis**

Research	No.	Supervisor(s)
No. of Ph.D Thesis being Guided	1	Dr. Meenakshi Sood
No. of M.E. thesis being Guided	1	Prof.(Dr.) Rajesh Mehra

### 4. Instructional Material Development:

- **HSBTE, Haryana State:**

Draft of Curriculum Document for 1<sup>st</sup> Year of 2 Diploma Programmes along with Instructional Strategies.

- **PSBTE, Punjab State:**

Submission of second semester Curriculum Document of 6 Diploma Programmes along with Instructional Strategies.

- **IIIT, Nagpur:**

Submission of 5 Undergraduate Level Courses for B.Tech for Indian Institute of Information Technology, Nagpur along with Instructional Strategies.

### 5. Extension & Consultancy Services:

#### CONSULTANCY PROJECTS:

- NSQF compliant curriculum of 2 diploma courses for HSBTE, Haryana worth Rs. 8,26,000/-.
- NSQF compliant curriculum of 6 diploma courses for PSBTE, Punjab worth Rs. 17,70,000/-.
- 5 Undergraduate Level Courses for B.Tech for Indian Institute of Information Technology (IIIT), Nagpur, worth Rs. 8,85,000/-.

## 6. Other Activities:

- Prof. P.K. Singla attended online “International Webinar Sustainability from Engineering and Vedic Perspectives” on 16 January 2025.
- Dr. SK Gupta attended online “International Webinar Sustainability from Engineering and Vedic Perspectives” on 16 January 2025.
- Dr. Meenakshi Sood attended online “Introduction to Universal Human Values” from 27-31 January 2025 by.
- 5 Day FDP on “Outcome-Based Education (OBE) & Accreditation” from 3-7 March 2025 at Symbiosis Institute of Technology, Nagpur.