

# CURRICULUM DEVELOPMENT CENTRE

July to September, 2024



## 1. Training Programme:

### Short Term Courses:

1. Developing Ethics and Values in Curriculum Implementation from 1-5 July 2024; Coordinated by PK Singla.
2. Curriculum Development aligned with NEP 2020 from 1-5 July 2024, 2024; Coordinated by Dr. Meenakshi Sood.
3. Curriculum Development Processes from 22-26 July, 2024; Coordinated by Dr. S.K. Gupta.
4. Accomplishment of Curriculum Objectives using CAD from 19-23 August, 2024; Coordinated by Dr. Rajesh Mehra.
5. Planning, Execution and Evaluation of Project Work from 09-13 September, 2024; Coordinated by Dr. S.K. Gupta.
6. Outcome Based Education In Context With NEP 2020 at IIIT Sonipat from with 22 - 26 July, 2024 by Dr. Meenakshi Sood with IMEE Department.
7. Outcome based Education and Pedagogy Skills from 5-9 August, 2024 at NIT Arunachal Pradesh; Coordinated by Dr. Meenakshi Sood.

### Faculty Academic Contribution outside the Department

- Prof. PK Singla delivered an expert lecture and keynote address on 'Inter-personal Skills' during a five days programme from July 8-12, 2024 organised by PGIMER on July 12, 2024.
- Prof. PK Singla engaged a session on 'Professional Ethics-10 Golden Rules - Striving for Excellence, Trustworthy, Accountability, Courteous and Respectful, Honesty, Competent and Lifelong Learning, Ethical, Honorable Act with Integrity, Respectful of Confidentiality, Setting Examples for Best Practices' as guest speaker in the Faculty Development Program on 'Universal Human values, Ethics and Life Skills' at Chandigarh University on July 15, 2024.

- Prof. PK Singla engaged a session on ‘Developing Table of Specification for Student Evaluation’ during ‘New Faculty Induction Programme (NFIP)’ from 16-19 July, 2024 organized by Chandigarh University on July 19, 2024.
- Prof. PK Singla engaged an expert session on ‘Effective Communication Skills’ during Short-Term Courses from August 5-9, 2024 on August 8, 2024:
  - ✓ ‘Personality Development’ by EMGT Department.
  - ✓ ‘Employable Skills for Industries’ By EDIC Department.
- Dr. Meenakshi Sood engaged session on “Aspects of Report Writing for a Project Work” in STC on Planning, Execution and Evaluation of Project Work from 9 - 13 Sep, 2024.

## 2. Curriculum Development:

- Conducted 6 Curricula Workshops for PSBTE, Punjab.
  - Workshop to design of Curriculum for PSBTE – Textile Design conducted on August 29, 2024.
  - Workshop to design of Curriculum for PSBTE – Chemical Engineering (Plastic & Polymer) conducted on August 30, 2024.
  - Workshop to design of Curriculum for PSBTE -Mechatronics conducted on September 03, 2024.
  - Workshop to Design of Curriculum for PSBTE – Mechanical Engineering (RAC) conducted on September 05, 2024.
  - Workshop to Design of Curriculum for PSBTE – ECE (Industry Integrated) conducted on September 06, 2024.
  - Workshop to Design of Curriculum for PSBTE - Mechanical Engineering (Tool and Die) conducted on September 06, 2024.



Curriculum Workshop for designing Textile Design diploma programme for HSBTE

### 3. Research & Development:

#### A. PUBLICATIONS

- Sharma, K., Sood, M., & Kumar, A., “Monitoring and regression analysis of landfill surface temperatures using remote sensing and image processing techniques”. International Journal of Remote Sensing, Taylor and Francis Group 45(15), 5158–5174.
- Shukla, N., Sood, M., Kumar, A. et al, “Adaptive decomposition with guided filtering and Laplacian pyramid-based image fusion method for medical applications”. Discov Appl Sci 6, 423 (2024).

**B. RESEARCH PROJECT**

Sr. No.	Project Title	Faculty Name
1.	A project titled on Multifaceted Curriculum Challenges in Implementation of National Education Policy (NEP 2020) for Higher Technical Educational Institutes (HETIs) submitted on August, 18 2024.	Dr. Rajesh Mehra, Dr. Meenakshi Sood

**C. PAPER PRESENTED IN CONFERENCE**

Sr. No.	Title of the Paper Presented/Accepted alongwith a Name of the Conference/Seminar	Author (s) Name
1.	“Design and Simulation of Decimator for Digital Signal Processing” Paper presented 9th IEEE International Conference on Mathematics and Computers in Sciences and Industry (MCSI) Rhodes Island, Greece (August, 2024)	Dr. Rajesh Mehra

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

Research	No.	Supervisor(s)
No of ME Thesis being Completed	2	Dr. Meenakshi Sood
No of M.E Thesis being Guided	2	Prof. (Dr.) Rajesh Mehra & Dr. Meenakshi Sood
No of Ph.D. Thesis Completed	1	Prof. (Dr.) Rajesh Mehra
No of Ph.D Thesis being Guided	1	Dr. Meenakshi Sood

**4. Instructional Material Development:**

- **PSBTE, Punjab State:**  
Submission of Curriculum Document for 1<sup>st</sup> Semester of 6 Diploma Programmes along with Instructional Strategies.

**5. Extension & Consultancy Services:****CONSULTANCY PROJECTS:**

- NSQF compliant curriculum of 6 diploma courses for PSBTE, Punjab worth Rs. 17,70,000/-.

## 6. Other Activities:

- Dr. Meenakshi Sood attended online “Capacity Building for Promoting Positive Mental Health, Resilience and wellbeing in HEIs” on 27 August 2024.
- Dr. Meenakshi Sood attended online “Implementation of National Credit Framework (NCrF) & Integration of Skill-Based Courses in Higher Education Institutes” on 30 August 2024.
- Dr. Meenakshi Sood attended “Capacity Building Programme in STEM” at IISC Bengaluru Campus Challkere, Karnataka on 14-26 September, 2024.
- Prof. PK Singla participated in the Monthly Meeting of University Coordinators, University Co-coordinators and Regional Coordinators in Hindi language for UHV ~ SIP. Prof (Dr) BR Gurjar gave the Opening Address Meeting on July 25, 2024.
- Prof. PK Singla participated in the Monthly Meeting on August 22, 2024 of UHV Monthly (Online) for University Coordinators, University Co-coordinators and Regional Coordinators in Hindi language.
- Prof. PK Singla participated in the Meeting on September 11, 2024 for Sharing and Follow-up (Online) on Universal Human Values (UHV).
- Prof. PK Singla participated in the Monthly Meeting on September 19, 2024 (Online) of UHV for University Coordinators, University Co-coordinators and Regional Coordinators in English language.
- Prof. PK Singla participated in the Monthly Meeting (online) on September 26, 2024 of UHV Coordinators, University Co-coordinators and Regional Coordinators in Hindi language.
- Dr. Meenakshi Sood acted as resource person in Student Induction Program on “National Education Policy” organized by School of Engineering Design and Automation, GNA University on 19th July 2024.
- Dr. Meenakshi Sood acted as resource person in 1<sup>st</sup> Faculty Induction Programme Malaviya Mission Teacher Training Centre from 18 July, 2024 to 14 August, 2024 at University of Burdwan, West Bengal.
- Dr. Meenakshi Sood as an expert speaker in Faculty Development Program (FDP) on the topic of "Emerging Tech for Educators: AI, IoT, Robotics & VR/AR" at CDAC Mohali on 5 August 2024.
- Dr. Meenakshi Sood as keynote speaker for Promises and Challenges of Medical Image Processing in FDP on MATLAB for Image Analysis and Pattern Recognition: From Fundamentals to Advanced Applications at JUIT Solan from 2 – 6, September 2024.