

# CURRICULUM DEVELOPMENT CENTRE

April to June, 2025



## 1. Training Programmes:

### Short Term Courses:

1. Outcome Based Education (OBE) and Accreditation from 1-5 April 2025; Coordinated by Dr. Meenakshi Sood.
2. Effective Curriculum Implementation from 26-30 May, 2025; Coordinated by Dr. S.K. Gupta.
3. Capacity Building for Faculty from 9-13 June, 2025 at IIIT Una; Coordinated by Dr. Meenakshi Sood with IMEE Department.

### Faculty Academic Contributions outside the Department

- Prof. PK Singla engaged two online sessions during Utkarsh: Workshop on 'Various Aspects of Personal and Social Responsibility (PSR) and Curriculum Development and Implementation for Schools and Higher Education National Program', organized by: Heartfulness Education Trust & Heartfulness Institute Kanha Shanti Vanam, Kanha Village, Hyderabad from 3-4 April, 2025. on the topics:
  - a) 'Elements for Design of Curriculum in the Light of NEP 2020 and OBE'
  - b) 'Curriculum of Course on Personal Social Responsibility'
- Prof. PK Singla engaged two offline sessions on 24 and 30 April, 2025, during Training Workshop on 'English Speaking Competency Development' organized by NITTTR, Chandigarh in collaboration with Vidya Bharti, Northern Zone from 23-30 April, 2025 on the topics:
  - a) 'Five Most Important Aspects of Important Aspects of Effective Communication Skills'
  - b) 'Presentation Skills' and 'Ethic and Values'
- Prof. PK Singla and Dr. Meenakshi Sood conducted a workshop in collaboration with Vidya Bharti at NITTTR Chandigarh on 'English Speaking Competency Development' from 23-30 April, 2025.

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- Dr. Meenakshi Sood delivered an expert lecture in Faculty Development Programme on ‘Pedagogical Capacity Enhancement of School Teachers in STEM’ from 28 April – 02 May, 2025 at NITTTR, Chandigarh on 30 April, 2025 on the topic ‘Leveraging STEM Education through New National Education Policy (NEP 2020)’.
- Prof. PK Singla engaged a session on ‘Human Values and Ethics’ on 2 May, 2025, during Faculty Development Programme on ‘Pedagogical Capacity Enhancement of School Institute Teachers in STEM’ from 28 April to 2 May, 2025 at NITTTR, Chandigarh.
- Prof. PK Singla engaged two expert offline sessions during ‘133<sup>rd</sup> Faculty Induction Programme’ from 1-28 May, 2025 for Assistant Professors, organized by: UGC-Malaviya Mission Teacher Training Centre, Panjab University, Chandigarh on 9 May, 2025 on the topics:
  - a) ‘Assessment and Evaluation’
  - b) ‘Practice Session for Preparing Table of Specifications and A Test’.
- Dr. Meenakshi Sood delivered an expert lecture on ‘Insights of Accreditation’ during Faculty Development Programme titled ‘Empowering Educators for Excellence in Academia and Beyond’ from 12 -16 May, 2025 organized by Chandigarh Group of Colleges, Landran.
- Prof. PK Singla engaged a session on ‘Professional Ethics’ on 21 May, 2025 during STC on ‘Innovative Leadership and Ethics for Professional Excellence’ held from 19-23 May, 2025, organized by Media Engineering Department at NITTTR Chandigarh.
- Dr. Meenakshi Sood engaged an online session on ‘AI Application in Healthcare’ during Short-term Course on ‘AI in Science and Technology’ from 19-23 May, 2025 organized by Applied Science Department, NITTTR Chandigarh.
- Prof. PK Singla engaged an online session on ‘Introduction to OBE and Bloom’s Taxonomy - Philosophy and Principles of OBE - Bloom’s Taxonomy: Domains and Verbs - Writing SMART Learning Outcomes’ on 27 May, 2025 during 13<sup>th</sup> Faculty Development Program (FDP) on the theme ‘Curriculum Design and Outcome-Based Education (OBE)’ from 27-31 May, 2025 as a part of the Association of Indian Universities (AIU), Vivekananda Global University (VGU), and the Academic and Administrative Development Centre (AADC) in collaborative initiative of Vivekananda Global University, Jaipur.
- Prof. PK Singla engaged an offline session on ‘Importance of Ethics and Values in Entrepreneurship’ on 4 June, 2025, during a Joint Certificate Programme on ‘Industrial Management and Entrepreneurship’ from 19 May to 27 June, 2025 in collaboration with IIT Ropar, organized by Department of Entrepreneurship Development and Industrial Coordination.

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- Dr. Meenakshi Sood engaged a session on ‘Faculty Readiness - National Education Policy’ during Faculty Development Program (FDP) on ‘Introductory Course in Artificial Intelligence & Its Application’, from 23 to 27 June, 2025, jointly organized by the Directorate of Technical Education (DTE), Punjab and C-DAC Mohali, at C-DAC Mohali.
- Dr. Meenakshi Sood engaged a session on ‘Assessment Strategies in OBE’ during Faculty Development Program (FDP) on ‘Curriculum Design and Outcome-Based Education (OBE)’ organized by Association of Indian Universities (AIU), Vivekananda Global University (VGU), and the Academic and Administrative Development Centre (AADC) from 27-31 May 2025.

## 2. Curriculum Development:

- Conducted 4 Curricula Workshops for PSBTE, Punjab.
  - Workshop to design Curriculum for PSBTE - ECE (Industry Integrated) conducted on 7 April, 2025.
  - Workshop to design Curriculum for PSBTE - Chemical Engineering (Plastic and Polymer) conducted on 9 April, 2025.
  - Workshop to design Curriculum for PSBTE - Mechanical Engineering (RAC) conducted on 25 April, 2025.
  - Workshop to design Curriculum for PSBTE - Mechanical Engineering (Tool and Die) conducted on 29 April, 2025.
- Conducted 2 Curricula Workshops for HSBTE, Haryana.
  - Workshop to design Curriculum for HSBTE – Aeronautical Engineering conducted on 16 April, 2025.
  - Workshop to design Curriculum for HSBTE – Fire Technology and Safety conducted on 17 April, 2025.
- Design of one month Certificate Programme on ‘Outcome Based Curriculum Design and Implementation’.

- Workshop for finalizing 5 Undergraduate Level Courses for B.Tech Programmes conducted on 20-22 April, 2025 at IIIT, Nagpur.



Curriculum workshop at Indian Institute of Information Technology (IIIT), Nagpur

### 3. Research & Development:

#### A. RESEARCH STUDIES

- A research Study being coordinated by Dr. Meenakshi Sood on Planning and Execution of online courses in Technical Education: **In Progress**
- A research Study being coordinated by Dr. S K Gupta on Impact Study on Implementation of NSQF aligned Curricula in selected Polytechnics: **In Progress**

#### B. PUBLICATIONS

- Sunil Bhardwaj, Dr. Meenakshi Sood, Amod Kumar, 'Diagnosis of Contrast Improved Common Maize Leaf Diseases Using U2Net Based Deep Learning Model' Science Direct, Procedia Computer Science 258 (2025)

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

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

## **4. Instructional Material Development:**

- **HSBTE, Haryana State:**  
Submission of Curriculum Document for 1<sup>st</sup> Year of two Diploma Programmes along with Instructional Strategies.
- **PSBTE, Punjab State:**  
Submission of Curriculum Document for 2<sup>nd</sup> Year of Six Diploma Programmes along with Instructional Strategies.
- **IIIT, Nagpur:**  
Submission of Complete Curriculum Revised Document for 5 Undergraduate Level Courses for B.Tech Programmes along with Instructional Strategies.
- Submission of one month certificate programme on ‘Outcome Based Curriculum Design and Implementation’ along with Instructional Strategies to academic cell.

## **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 (Revised) for B.Tech for Indian Institute of Information Technology, Nagpur (IIIT Nagpur) worth Rs. 8,85,000/-.



**Training Programme on Outcome Based Education and Accreditation at UPES Dehradun, Uttarakhand**

- FDP on Outcome Based Education (OBE) and Accreditation from 1-5 April 2025 was conducted at UPES Dehradun worth Rs. 1,77,000/-.

## **6. Other Activities:**

- Prof. PK Singla attended and assisted in organizing: 3-day ‘Management Development Programme on Universal Human Values’ organized by NITTTR, Chandigarh, in collaboration with AICTE, PTU and HPTU on 12-13 April, 2025.
- Prof. PK Singla attended one day workshop on ‘Familiarization of DrillBit Plagiarism Detection Software’ (Expert from Panjab University Library) organized by NITTTR, Chandigarh on 7 May, 2025.
- Dr. Meenakshi Sood attended CPSC-SEAMEO-VOCTECH Collaborative Regional Program on Integrating Entrepreneurship and Technopreneurship into the TVET Curriculum, held on 22 May and from 27-29 May, 2025 (online).

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- Prof. PK Singla attended an expert lecture by Dr. Mamta Yadav, Member, Haryana Public Service Commission on 'Life and Contribution of Rani Ahilya Bai Holkar - A Revered Queen, Administrator, and Visionary Leader Known for her Exemplary Governance and Deep Commitment to Public Welfare' at NITTTR, Chandigarh, on 28 May, 2025.
- Prof. PK Singla attended an expert lecture by Prof. Jayanti Dutta, Director, MMTTC, Panjab University on 'Life and Contribution of Rani Ahilya Bai Holkar - A Revered Queen, Administrator, and Visionary Leader Known for her Exemplary Governance and Deep Commitment to Public Welfare' at NITTTR, Chandigarh, on 29 May, 2025.
- Dr. Meenakshi Sood attended CPSC-SEAMEO-VOCTECH Collaborative Regional Program on Integrating Entrepreneurship and Technopreneurship into the TVET Curriculum, from 2-6 June, 2025 at the SEAMEO VOCTECH Regional Center, Brunei Darussa



**Attended session organized by SEAMEO-VOCTECH and CPSC at Brunei Darussalam**