

CURRICULUM DEVELOPMENT CENTRE

January to March, 2021



1. Training Programme:

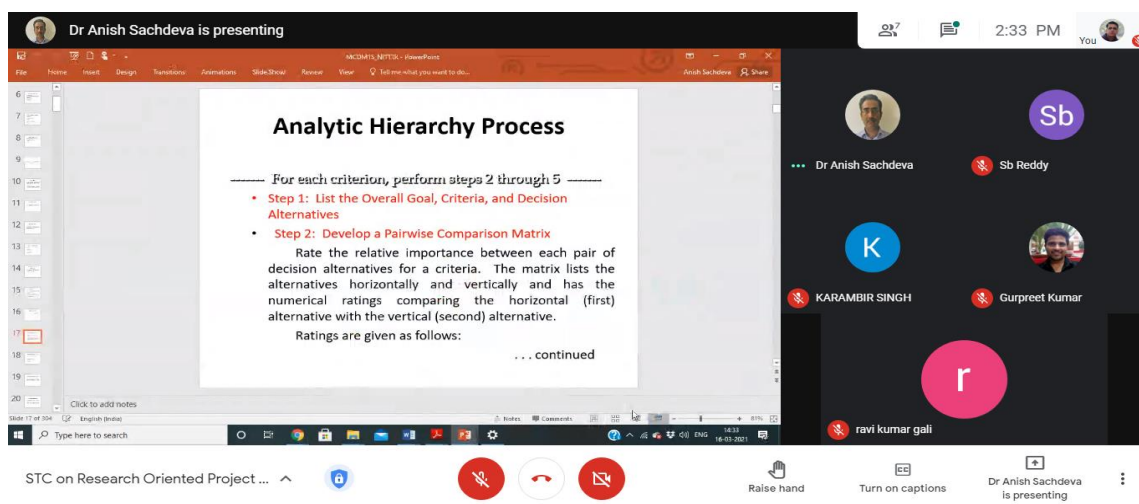
Long & Short Term Programmes:

Ph.D Guidance to ECE students by **Prof. (Dr.) Rajesh Mehra and Dr. Meenakshi Sood**

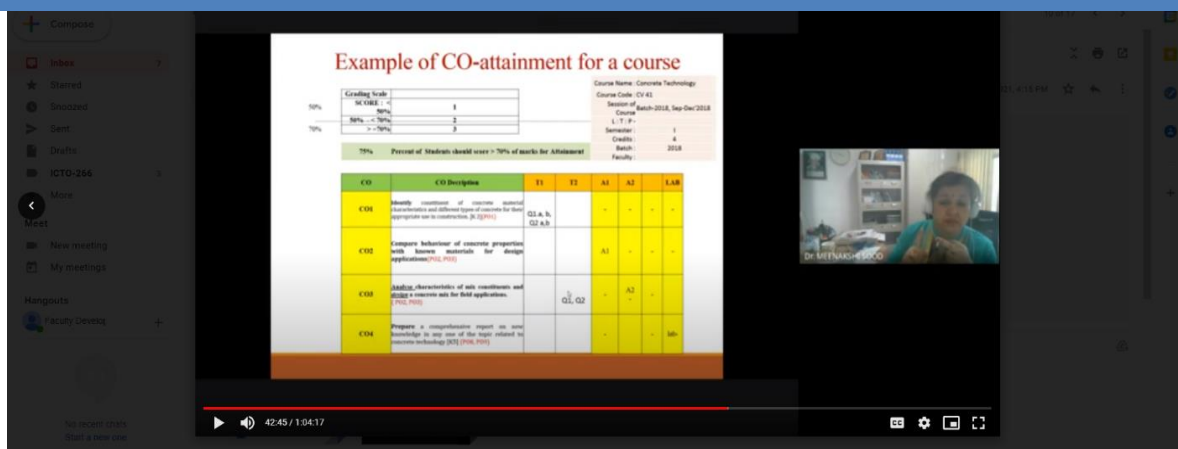
ME Classes of ECE/CSE students by **Dr. Meenakshi Sood**

Short Term Courses:

1. Practical Skills in Technical Education from 01-05 February, 2021; Coordinated by **Dr. Rajesh Mehra**
2. Curriculum Implementation from 08-12 February, 2021; Coordinated by **Dr. AB Gupta**
3. Curriculum Development from 15-19 February, 2021; Coordinated by **Dr. SK Gupta**
4. Outcome Based Curriculum from 01-05 March, 2021; Coordinated by **Dr. SK Gupta**
5. NSQF Aligned Curriculum Design and Implementation from 15-19 March, 2021; Coordinated by **Dr. AB Gupta**
6. Research Oriented Project Work from 15-19 March, 2021; Coordinated by **Dr. Rajesh Mehra**
7. Accreditation and Outcome Based Curriculum Design from 08-12 March, 2021; Coordinated by **Dr. Meenakshi Sood**



Online session in Research Oriented Project Work Course



Online session in Accreditation and Outcome Based Curriculum Design Course

2. Curriculum Development:

Submitted First year of NSQF Compliant Curriculum for 34 Diploma Programme to Board of Technical Education, Delhi.

3. Instructional Material Development:

Developed PPTs on Outcome Based Curriculum Design & Accreditation by Dr. Meenakshi Sood

4. Research & Development:

Patent:

Dr. Shruti Jain, Dr. Meenakshi Sood, "Design of Household Waste Heat Harvesting System" Published on 12/02/2021 Application No 202111003968

PhD Thesis

Supervisor Name	Awarded	Submitted	Under Process
Prof. Rajesh Mehra	01	01	02
Dr. Meenakshi Sood	-	-	01

ME Thesis:

Supervisor Name	Completed	Under Process
Prof. Rajesh Mehra	01	10
Dr. Meenakshi Sood	-	02

Research Publications:

1. Prashar, N., **Sood M.** Jain, S. “Design and implementation of a robust noise removal system in ECG signals using dual-tree complex wavelet transform” Biomedical Signal Processing and Control, Jan 2021, 63, 102212 (SCI indexed, IF:3.137)
2. Bhardwaj, C., Jain, S. & **Sood M.**”Deep Learning-Based Diabetic Retinopathy Severity Grading System Employing Quadrant Ensemble Model. J Digit Imaging(2021). <https://doi.org/10.1007/s10278-021-00418-5> (SCI indexed IF:3.697)
3. Bhardwaj, C. Jain S. & **Sood M.** “Hierarchical severity grade classification of non-proliferative diabetic retinopathy” J Ambient Intell Human Comput 12, 2649-2670 February, 2021. <https://doi.org/10.1007/s12652-020-02426-9>. (SCI Indexed, IF:4.594)
4. Divya Sharma, **Rajesh Mehra**, Balwinder Raj “Superlattices and Microstructures Comparative analysis of photovoltaic technologies for high efficiency solar cell design”153 (2021) 106861 <https://doi.org/10.1016/j.spmi.2021.106861> 4th March, 2021.
5. Charu Bhardwaj*, Shruti Jain, **Meenakshi Sood**, Two-Tier Grading System for NPDR Severities of Diabetic Retinopathy in Retinal Fundus Images” Recent Patents on Engineering DOI:10.2174/18722121146662009103922
6. **Sood M.**, Anjna, Singh P.K. (2021) Anomaly Detection and Qualitative Analysis of Diseases in Tomato, Recent Innovations in Computing. ICRIC 2020. Lecture Notes in Electrical Engineering, voi 701. Springer, Singapore. https://doi.org/10.1007/978-981-15-8297-4_39

5. Extension & Consultancy Services:

Generated Consultancy Rs. 40 lacs approximately for designing NSQF Aligned Curriculum.