

ROORKEE COLLEGE OF ENGINEERING, ROORKEE



Department of Mechanical Engineering
(Academic Session 2020-21)

Report Two Days FDP

on

“Teaching and Research Skills Development in Higher Education”

Under the TEQIP-III
(Uttarakhand Technical University, Dehradun)

Held on 20th & 21st March 2020

Dr. Yashveer Singh
(Coordinator)

Mr. Anurag Chandna
(Registrar)

Prof.(Dr.) O P Dubey
(Director)

Objective:-

The Department of Computer science & Engineering, Roorkee College of Engineering, organized a Two Days FDP on “**Teaching and Research Skills Development in Higher Education**” on 20th & 21st March 2020, at Conference Hall. The purpose of this FDP was to expose the Faculties to the fields of Teaching and Research Skills Development in Higher Education with hands-on training. The basic and important constituent to establish a strong relationship between diverse fields of science and engineering is advanced research and development of many technologies that make our existence so comfortable. This FDP will cover a wide range of interdisciplinary topics on various aspects of advanced materials, energy and environment. Advancement in the understanding of the phenomena of science and technology is often the forerunner to the stepwise progression of a technology. The FDP will provide a platform for students, academicians and industrialists to exchange the ideas, state of art research and development practices and identify research needs and opportunities in Engineering Field.

The Guest was Chairman (RCE Roorkee), Secretary (RCE Roorkee) & The Eminent Speaker Prof. (Dr.) P.C Tewari, Department of Mechanical Engineering , NIT Kurukshetra -136119 Haryana (India), Dr. Anish Karkare, (Assistant Professor) Department of Mechanical Engineering Indian Institute of Technology (IIT), Roorkee & Prof. (Dr.) Prag Jain, Director of RIT Roorkee discussed about the various topics on Teaching and Research Skills Development in Higher Education.

Inauguration & Felicitation:-

The program was started with lamp lighting ceremony of goddess Saraswati by Dr. Vikash Verma (FDP Convener), Director, Dean, All Heads of Department & Coordinators. The Guest Felicited by Registrar Sir. This FDP focuses on the engineers in development of affordable technologies and concepts to fulfill the consumer requirements. It is important for the engineers to lookout for research and development opportunities.



Welcome Speech & Overview of Workshop:-



The event started at 9.45 am with a Welcome Speech by **Ms. Sanjana Singh (AP/CSE)** who welcomed the dignitaries on the dais, as well as the faculty members. Chairman Sir (RCE Roorkee), Secretary Sir (RCE Roorkee), Prof. (Dr.) O.P Dubey (Director-RCE), Registrar Sir (RCE-Roorkee) & The Eminent Speaker Prof. (Dr.) P.C Tewari, Department of Mechanical Engineering , from NIT Kurukshetra -136119 Haryana (India), Dr. Anish Karkare, (Assistant Professor) Department of Mechanical Engineering from Indian Institute of Technology (IIT), Roorkee & Prof. (Dr.) Prag Jain, Director of RIT Roorkee were seated on the dais.

Day 1

A brief introduction about the Speaker was given. Ms. Sanjana Singh (AP/CSE) addressed the participant about the importance of Teaching and Research Skills Development in Higher Education and advised them to actively participate and gain hands-on training during the Two-days FDP. The Prof. (Dr.) P.C Tewari set the FDP rolling at 10.30 am. The primary objective of this Lecture is to introduce the basic TQM principles, techniques, and applications in Higher Education.



In the afternoon session, A brief introduction about the Speaker was given. Ms. Sanjana Singh (AP/CSE). Dr. Anish Karkare, (Assistant Professor) Department of Mechanical Engineering from Indian Institute of Technology (IIT), Roorkee to introduce the Quality of an Ideal Teacher,

Skills for Modern Teachers, How to Improve our teaching Skills, Total Productive maintenance and it's Applicability to Indian Industries, Conclusion and Future Scope.



Day 2

The Prof. (Dr.) P.C Tewari set the FDP rolling at 10.30 am. The primary objective of this Lecture is to introduce the basic TQM principles, techniques, and applications in Higher Education.



The engineers need to cope with the tremendous pressure created by ever changing consumer requirement on the Industry. Engineers need to enhance their creative skills to meet out the challenges being faced by Industry.

In the afternoon session, Prof (Dr.) A.K Mathur to introduce Why are faculty development programs important? Do faculty development programs activities have a positive effect on student academic achievement in higher education? How to assess the effectiveness of faculty development programs? And faculty members to attain new knowledge, diverse skills, and abilities in many aspects including :-

- Managing multiple roles and new responsibilities: Like clinic instruction, micro-group teaching, problem-based tutorials, case-based discussions, become mentors, and develop and evaluate new curricula
- Integrating technology into teaching, learning, and research and master new computer-based educational programs
- Leadership and management proficiency.



Certificate Distribution & Vote of Thanks:-

Dr. Yashveer Singh (HOD – CSE) distributed certificates to the participants who participated in the FDP. The FDP concluded at 4.30 pm on 17th March-2020. Dr. Yashveer Singh delivered the Vote of Thanks at the end of the FDP.

