



# POORNIMA

---

## INSTITUTE OF ENGINEERING & TECHNOLOGY

Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NAAC and NBA

### NOTICE

All the faculty members are informed that a session on current status, future plans of the departments and faculty members for quality improvement in the teaching learning process focusing ICT, OBE, MOOC/Moodle and hands on practice will be held on 1.07.2020 to 15.07.2020 at from 10:00 A.M to onwards (Venue: Seminar Hall (NB-31))

All the faculty members are requested to attend the session.

**Convener (IQAC)**  
**(Dr. Gautam Singh)**

**Dated: 25.06.2020**



# Induction Program

on

**Effective teaching learning process and Importance of  
Outcome Based Teaching and Assessment Process**



**POORNIMA**  
INSTITUTE OF ENGINEERING & TECHNOLOGY

Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NAAC and NBA

ISI-2. RIICO INSTITUTIONAL AREA, SITAPURA, JAIPUR – 302022

RAJASTHAN, INDIA

[www.piet.poornima.org](http://www.piet.poornima.org)

# Report of Session

**Date: 01.07.2019**

**No. of Participants: 50**

**About the Session:** The teachers in Engineering and Science disciplines usually join the teaching profession without any formal training in teaching methodology and learning psychology. They develop teaching skills out of their own experiences or from experiences shared by colleagues in course of their teaching career. Most often, they are also influenced by the ways in which their teachers taught them. Pedagogy in higher education has undergone revolutionary changes in the past few decades. Traditional methods of lecturing have become obsolete in today's scenario where Outcomes Based Education and Student Centered Teaching have become a tradition and practice of the day. Further, the emergences of a plethora of ICT tools and their uses in Teaching-Learning Process have been redefining the role of a teacher from a mere provider of information to a facilitator of learning.

## Objectives:

- Class handling
- Teaching/Learning Tools
- Outcome Based Education
- Assessment Tools
- Active Learning Methods
- Essence of effective teaching
- OBE/NBA Guidelines
- Moodle/MOOCs

## Detailed Programme Schedule

Date and Day	10:00 a.m. to 12:30 p.m.	12:30 p.m. to 01:30 p.m.	01:30 p.m. to 03:30 p.m.
01.07.2020 Wednesday	Inaugural Session on <b>“Importance of Outcome Based Teaching and Assessment Process ”</b> Program Inaugurated by : <b>Dr. Dinesh Goyal</b> Principal/ Director Poornima Institute of Engineering and	<b>Break</b>	<b>Importance and Objective of Induction Program for Faculty Members</b> by <b>Dr. Gautam Singh</b> Professor Poornima Institute of Engineering and Technology

	Technology		
02.07.2020 Thursday	<b>Application based Teaching</b> by <b>Dr. Pran Nath Dadhich</b> HoD Civil Engineering Department	Break	<b>Tools for Effective Teaching</b> by <b>Dr. Priya Mathur</b> Associate Professor (PIET)
03.07.2020 Friday	<b>Role of Blown-up and Deployment in Effective Teaching</b> by <b>Dr. Sama Jain</b> HoD First Year Department	Break	<b>Pedagogy in Engineering Education</b> by <b>Dr. Priya Mathur</b> Associate Professor (PIET)
04.07.2020 Saturday	<b>Role of Laboratories in Engineering Education</b> by <b>Dr. Pran Nath Dadhich</b> HoD Civil Engineering Department	Break	<b>Application Based Lab Performance and Assessments</b> by <b>Dr. Sama Jain</b> HoD First Year Department
06.07.2020 Monday	<b>Mapping Outcomes, Assessment and Rubrics</b> by <b>Mr. Deepak Moud</b> HoD Computer Engineering Department	Break	<b>Mapping Outcomes, Assessment and Rubrics</b> by <b>Dr. Mukesh Chandra</b> Associate Professor(PIET)
07.07.2020 Tuesday	<b>Outcomes Attainments and Analysis</b> by <b>Dr. Rekha Jain</b> Prof. Computer Engineering Department	Break	<b>Mapping Outcomes, Assessment and Rubrics</b> by <b>Mr. Deepak Moud</b> HoD Computer Engineering Department
08.07.2020 Wednesday	<b>Mapping Outcomes, Assessment and Rubrics</b> by <b>Mr. Deepak Moud</b> HoD Computer Engineering Department	Break	<b>Design of Outcome based Question Paper and CO &amp; PO Mapping</b> by <b>Dr. Mukesh Chandra</b> Associate Professor(PIET)
09.07.2020 Thursday	<b>Design of Outcome based Question Paper and CO &amp; PO Mapping</b> by <b>Dr. Mukesh Chandra</b> Associate Professor(PIET)	Break	<b>Design of Outcome based Question Paper and CO &amp; PO Mapping</b> by <b>Dr. Mukesh Chandra</b> Associate Professor(PIET)

10.07.2020 Friday	<b>Attainment of CO, PO and Continuous Quality Improvement</b> <b>Dr. Rekha Jain</b> Prof. (PIET)	Break	<b>Attainment of CO, PO and Continuous Quality Improvement in Teaching</b> <b>Dr. Rekha Jain</b> Prof. (PIET)
011.07.2020 Saturday	<b>Attainment of CO, PO and Continuous Quality Improvement in Teaching</b> <b>Dr. Rekha Jain</b> Prof. (PIET)	Break	<b>Activity</b>
13.07.2020 Monday	<b>Overview of Moodle LMS</b> <b>By</b> <b>Ms. Pooja Sharma</b> Asst. Professor (PIET)	Break	<b>Importance of online Education and the need of innovations in teaching Pedagogy</b> <b>By</b> <b>Dr. Megha Gupta</b> Prof. (PIET)
14.07.2020 Tuesday	<b>Using Moodle for Assessment and Evaluation</b> <b>Dr. Megha Gupta</b> Prof. (PIET)	Break	<b>Activity</b>
15.07.2020 Wednesday	<b>Using of MS Teams and Google Class Rooms and Assignments and Evaluation</b> <b>By</b> <b>Ms. Pooja Sharma</b> Asst. Professor (PIET)	Break	<b>Activity</b>
15.07.2020 Thursady	<b>06:00 p.m. to 07:00 p.m.</b> <b>Valedictory Session and Certificate Distribution</b>		

#### Days -1-4

**Chair:** Chairman IQAC (Dr. Dinesh Goyal)

**Title:** Creativity in Teaching Learning processes

**Speaker:** Dr. Pran Nath Dadhich, Dr. Priya Mathur and Dr. Sama Jain

**Response:** The session includes case examples using advanced pedagogy techniques ranging from Flipped classroom to Project based learning in imparting interdisciplinary courses. These techniques incorporate creativity and Design Thinking with emphasis on Innovation. It will support the implementation of future trends in curriculum design and pedagogy in engineering education. The students often report that they are uninterested in attending the classes and give various reasons which indicate that the lecture has been boring/ monotonous teaching methods due to many reasons like

backdated contents, personal disliking for the teacher, uncomfortable teaching condition, online availability of study materials/ virtual classrooms and so on. While, teachers report that they are upset with the behaviour and performance of the students due to inattentiveness, unacceptable attitude and activities (e.g. gossiping, , sleeping, playing with mobile, disturbing, etc.) in the class. The most serious concern is the absenteeism which has deteriorated the educational level. In this scenario, it is the need of the hour for the teachers to relook into the teaching practices followed by them in the classroom. The current lecture/ talk has been planned to address the aforesaid issues by demonstrating what should be the pedagogy to make classroom teaching more interesting, non-monotonous and to hold the attention of the students. The lecture would also highlight the various initiatives to be taken by the teachers during the class.

### **Days-5-9**

**Chair:** Chairman IQAC (Dr. Dinesh Goyal)

**Title:** Outcome based Education

**Speaker:** Mr. Deepak Maud Dr. Mukesh Chandra and Dr. Rekha Jain

**Response:** OBE is an education theory in which the curriculum, course delivery and assessment are planned to achieve stated objectives and outcomes. In an OBE setup, by the end of an academic program, each student should have achieved the stated objectives and goals. In India, the National Board of Accreditation mandates establishing the OBE culture in institutes offering engineering programs for getting its recognition. The objective of this talk is to provide an overview of OBE and discuss various issues related to implementation of such practices in Engineering Curriculum of different institutions of India. The conventional teaching methodology does not emphasize upon learning objectives and learning outcomes. The quantification of these requires specifying several minor objectives that eventually correlate to the major objectives of the taught subject. In the workshop, the significance of bloom's taxonomy has been emphasized along with top to bottom and bottom to top approaches to synchronize the way for effective teaching through practices. The practices involved refer to utilization of keywords presented in Bloom's taxonomy to construct simple puzzles in day to day learning of a subject. The conventional method of teaching is mainly teacher centric, but outcome based learning is learner centric. The outcome of the subject may be listed by the course objectives and the learning strategy along with study materials. All the stack holders know about the planning of the course. The instructor of the course formulates several test items of different difficulty levels to meet the course objectives. The participants will be divided into groups and problems will be solved by a group.

### **Days-9-15**

**Chair:** Chairman IQAC (Dr. Dinesh Goyal)

**Title:** Use of ICT Systems and technologies for effective teaching

**Speaker:** Dr. Megha Gupta and Ms. Pooja Sharma

**Response:** There are many systems and technologies that can aid a teacher in delivering content to the students and get their feedback, both inside and outside the classroom. These include systems such as Moodle, a view and technologies such as the interactive white boards. These systems and technologies can be utilized to make the teaching more interesting, interactive and effective. The talk will introduce those systems and technologies and discuss the popular ones in details.

**Outcome of session:**

It will facilitate the making of faculty course files with modules relating to Outcome Based Education, Faculty Performance, Academic Schedule, Assessment Continuous Improvement, Personal details of a faculty member. These Modules support the faculty members to keep track of the program outcomes (PO) and course outcomes (CO) with their mappings with Programme Educational Objectives (PEO). Faculty members keep their basic details and other information and planning of academic schedule for the semester. Records pertaining to continuous evaluation of course delivery, records of corrective measures taken to improve attainment of CO's based on student's feedback and student's performance are also maintained in the course file. These records help faculty to meet CO attainment levels. There has been increased application of ICT based teaching aids such as computers, internet, LCD projectors to ensure greater response. A provision has also been made for the students to register for two credit online courses of their choice under MOOCS or any other recognized online web based courses. This has restructured the curriculum with the need for laboratory exposure, hands-on experience and practical knowledge to be imparted to the students. Most of the courses have introduced this component in the syllabus to facilitate the students to understand and appreciate the practical exposure and analytical skills.



**POORNIMA**  
INSTITUTE OF ENGINEERING & TECHNOLOGY

Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NAAC and NBA

## **E-Certificate for Participation**

This is to certify that Mr. Aterkesh Pandey from Poornima Institute of Engineering & Technology has participated and successfully completed two week faculty development program

on

**“Effective Teaching Learning Process**

**And Importance of Outcome Based Teaching and Assessment Process”**

during 1-15 July , 2020 organized by Poornima Institute of Engineering & Technology Jaipur .

**Dr. Gautam Singh**  
Convenor, IQAC  
PIET Jaipur

**Dr Dinesh Goyal**  
Patron  
PIET Jaipur



**POORNIMA**  
INSTITUTE OF ENGINEERING & TECHNOLOGY

Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NAAC and NBA

## E-Certificate for Participation

This is to certify that Mr. Rahul Gupta from Poornima Institute of Engineering & Technology has participated and successfully completed two week faculty development program

on

**“Effective Teaching Learning Process**

**And Importance of Outcome Based Teaching and Assessment Process”**

during 1-15 July , 2020 organized by Poornima Institute of Engineering & Technology Jaipur .

**Dr. Gautam Singh**  
Convenor, IQAC  
PIET Jaipur

**Dr Dinesh Goyal**  
Patron  
PIET Jaipur



**POORNIMA**  
INSTITUTE OF ENGINEERING & TECHNOLOGY

Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NAAC and NBA

## E-Certificate for Participation

This is to certify that Mr. Pawan Patidar from Poornima Institute of Engineering & Technology has participated and successfully completed two week faculty development program

on

**“Effective Teaching Learning Process**

**And Importance of Outcome Based Teaching and Assessment Process”**

during 1-15 July , 2020 organized by Poornima Institute of Engineering & Technology Jaipur .

**Dr. Gautam Singh**  
Convenor, IQAC  
PIET Jaipur

**Dr Dinesh Goyal**  
Patron  
PIET Jaipur



**POORNIMA**  
INSTITUTE OF ENGINEERING & TECHNOLOGY

Affiliated to RTU, Kota • Approved by AICTE & UGC under 2(f) • Accredited by NAAC and NBA

## **E-Certificate for Participation**

This is to certify that Dr. Ritu Soryan from Poornima Institute of Engineering & Technology has participated and successfully completed two week faculty development program

on

**“Effective Teaching Learning Process**

**And Importance of Outcome Based Teaching and Assessment Process”**

during 1-15 July , 2020 organized by Poornima Institute of Engineering & Technology Jaipur .

**Dr. Gautam Singh**  
Convenor, IQAC  
PIET Jaipur

**Dr Dinesh Goyal**  
Patron  
PIET Jaipur