

**A REPORT ON  
ENGINEERING FACULTY WORKSHOP  
Academic Session 2015-16  
(January 19, 2016 to January, 21, 2016)**



**Academic Session 2015-16**

**By:**

**Dr. Puneet Mathur,**

## Head, Mission10X, PGC

### Preface

It was a great experience to organizing 3-days Engineering Faculty workshop. The workshop was conducted by WIPRO Technologies, Bangaluru. The workshop was organized to understand the engineering attributes, paradigm shifting from teacher- centric approach to learner-centric approach and various methods of active learning approach through experiential learning.

On behalf of the organizing committee, we are extremely grateful and thankful to Dr. S.M. Seth, Chairman, Poornima Foundation, for his valuable guidance inspiration and motivation. We also express our immense gratitude to Mr. Shashikant Singhi, Director General, Poornima Foundation for providing us a bigger and better opportunity to understand the aspects related to teaching learning process.

We must mention our deep sense of appreciation for all the directors of various institutions of Poornima Foundation for their valuable contribution and support in organizing such a great event.

We are highly obliged to our resource person Prof. Satheesh Kumar from WIPRO for his valuable presence and making this workshop a great success through in-depth deliberations and enlightening the participants with his rich experience on different aspects of Teaching Learning Process. He conducted all the sessions in a very well manner and the sessions were very interactive.

Organizing a program of this stature is literally not possible without patronage of our distinguished faculty members. We are thankful to all the participants, for giving us their precious time for the 3-days workshop from morning 08:30 till evening 05:30.

Dr. Puneet Mathur,  
Head, Mission10X, PGC

## Introduction

Engineering teachers are important stake holders in the engineering education system. They interact with engineering students on a day to day basis. Engineering faculty members have to be empowered with new methods of teaching in order to inculcate Graduate Engineering Attributes in the students. Engineering Faculty Workshop (EFW) is a defined workshop for the engineering educators.

Engineering faculty workshop (EFW) is a 3 day experiential workshop for engineering faculties across the country who have more than 1 year of professional experience.

The workshop was aimed at promoting systemic changes to current teaching-learning paradigm in Engineering Education. It emphasized learner-centric educational discourse. It helps graduates imbibe higher levels of understanding of a subject taught in classrooms along with development of key behavioral skills.

This workshop was organized to enable engineering faculty with new and alternate training methodologies that provides input to a faculty to become a mentor, guide and a facilitator in the class and thus prepare their students to become more employable. This program help the faculty to imbibe new skills and be part of the transformation of Teaching Learning paradigm parallel earning reputed WIPRO Certification and access to valuable resource material.

## The Objectives

- **Identify and shortlist Engineering attributes of a good Engineer:** This is done by Group Discussions and Brainstorming activities.
- **Understand and experience the essential engineering attributes:** The Participants were exposed to different activities to experience Communication, Team work and Deep learning in an Engineering context. The participants were also made to understand the importance and the linkages between these attributes for learning and also in their Professional life.
- **Understand the role of an Engineering educator to inculcate the attributes in the Engineer:** The Journey of transformation started in this module from being a Teacher to a Facilitator. The Participants were exposed to the environment they need to establish in classroom to make this transition. Participants were also exposed to different Teaching methodologies to help them inculcate the engineering attributes in the students given their diversity in their learning styles.
- **Demonstrate Inculcating the engineering attribute in the engineer in a simulated Teaching learning environment:** In this module Participants were given an opportunity to demonstrate Active Learning in a simulated classroom environment for an engineering topic of their choice. Participants were also got an opportunity to receive and give feedback from their Peers on their demonstrations'.
- **Draw up an action to implement his learnings in Classroom:** In this module Participants reflected on their learnings and firmed up an action plan to implement in the Classroom and to sustain the learnings.

## The Proceedings

The 3-days Engineering Faculty Workshop was organized from Tuesday, January 19, 2016 to Thursday, January 21, 2016 at Poornima Foundation. 30 faculty members from various institutions of Poornima Foundation have participated in the workshop.

### Day#1: Engineering Attribute

On the first day, the Wipro Trainer Prof. Satheesh Kumar start the workshop with Group Discussions and Brainstorming to identify and shortlist engineering attributes of a good Engineer. The Participants were exposed to different activities to experience Communication, Team work and Deep learning in an Engineering context.

### Day#2: Role of Engineering Educator, Active Learning

On the second day, the Wipro authority briefed the participants about the Essential Engineer Attributes and about Understand the Role of Engineering Educator. The Journey of transformation started on that day from being a Teacher to a Facilitator. Participants were also exposed to different teaching methodologies to help them inculcate the engineering attributes among the students given their diversity in their learning styles.

### Day#3: Demonstration

On the third day Participants were given an opportunity to demonstrate Active Learning in a simulated classroom environment for an engineering topic of their choice. They also got an opportunity to receive and give feedback from their Peers on their demonstrations and then they drew up an action plan to implement their learning in Classroom. Dr. Ajay Kumar Bansal, Director, PIET and Mr. Puneet Mathur, HoD, Mission10X, PGC, Prof. Satheesh Kumar, WIPRO Technologies and participant faculty member of the different institutions of Poornima Foundation were present in the valedictory function. Dr. Bansal emphasized the importance of effective teaching learning process and motivated the faculty members to implement Mission10X Learning Approach in their classes. The vote of thanks was given by Mr. Puneet Mathur, Head, Mission10X, PGC.

## Outcome

The important outcome of the 3-days workshop that the participant faculty members are able to understand various engineering attributes and teaching learning process. The workshop also provides them a platform where all of them discussed various methods of active learning. The interesting thing is that all the participants learnt these things through experiential learning.

The discussion has suggested that there are a number of key points:

- Engineering attributes
- Communication, Teamwork, Deep Learning
- Active, Interactive and Experiential learning approach
- Role of an educator
- Active Learning methods

**POORNIMA FOUNDATION, JAIPUR**  
**Engineering Faculty Workshop**  
**January 19, 2015 to January 21, 2015**

**List of Participants**

<b>S.No.</b>	<b>College</b>	<b>Name of participants</b>	<b>Department</b>
1	PCE	DR. VEENA YADAV	CE
2	PCE	MS. SARITA SHARMA	CE
3	PCE	MS. KAVITA KUNTAL	ECE
4	PCE	MR. DINESH SHARMA	EE
5	PCE	MR. MD. ASIF IQBAL	EE
6	PCE	MS. ANCHAL POKHARNA	I YEAR-A
7	PCE	MS. RISHIKA SETHI	I YEAR-A
8	PCE	MR. AMARJEET BHARTI	I YEAR-B
9	PCE	MR. AMBAR BATWARA	I YEAR-B
10	PCE	MR. DEEPAK BABERWAL	I YEAR-B
11	PCE	MS. PIYUSHA TIWARI	IT
12	PCE	MR. PRASHANT MISHRA	ME
13	PGI	MR. NETRAM GODARA	CE
14	PGI	MS. ANAMIKA JAIN	CSE
15	PGI	MS. RICHA MEHRA	I YEAR
16	PGI	MR. ATISH KUMAR	ME
17	PIET	MR. SUMAN SOURAV SARKAR	CS
18	PIET	MS. NIKITA GAUTAM	CS
19	PIET	DR. AJAY KUMAR BANSAL	EE
20	PIET	MR. PRINCE KUMAR	EE
21	PIET	MS. PRATIBHA SISODIA	ENGLISH
22	PIET	MR. MANISH KUMAR YADAV	I YEAR
23	PU	MS. PRATIBHA SHUKLA	CE
24	PU	MR. PAWAN KUMAR	CIV
25	PU	DR. ARUN DEV DWIVEDI	EEE
26	PU	KAPIL SRIVASTAVA	EEE
27	PU	MR. KRISHAN KANT VARSHNEY	EEE
28	PU	MR. AMIT MISHRA	ME
29	PU	MR. MAHESH CHAND SAINI	ME



## Photo Gallery

