



# Electronics & ICT Academy

(Under Ministry of Electronics and Information Technology (MeitY), Govt. of India)

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## *One Week Faculty Development Programme on Outcome Based Education and Quality Research Paper Writing*

Venue: Girijananda Chowdhury Institute of Management and Technology (GIMT), Guwahati  
(19–24 August 2019)

Day	Time	Topics	Speakers
Day - 1 (19-08-2019)	08:30 am - 09:15 am	Registration and Reporting	Dr. Bhagwan Jagwani
	09:15 am - 09:45 am	Inauguration	
	09:45 am to 10:00 am	Tea Break	
	10:00 am - 11:00 am	Concept, Need & Background of Outcome Based Education (OBE); Washington Accord; OBE vis-a-vis Traditional Approach to Education; Findings of research studies on OBE vis-a-vis Traditional Approach; Regulatory developments related to OBE in India; Requirements of National Accreditation bodies pertaining to OBE	
	11:00 am – 01:00 pm	Revisiting the ‘Vision’ and ‘Mission’ statements of an institution/department in the light of OBE; Key constituents of OBE; Different levels of Learning Outcomes - Program Educational Objectives (PEOs), Program Outcomes (POs), Program Specific Outcomes (PSOs), Course Outcomes (COs)	
	01:00 pm - 02:00 pm	Lunch Break	
	02:00 pm - 04:00 pm	Formulation/Refinement of PEOs in alignment to the Vision and Mission statements of the institution / department; Preparation of the PEO-Mission Correlation matrix; Formulation/Refinement of POs and PSOs; Mapping of POs with the PEOs; Preparation of the PEO-PO correlation matrix; Designing ‘Course Outcomes’ (COs) using Bloom’s Taxonomy of Educational Objectives; Mapping of COs with the POs and PSOs, Preparation of the CO-PO and CO-PSO correlation matrices.	
	04:00 pm - 04:15 pm	Tea Break	
Day - 2 (20-08-2019)	04:15 pm - 05:30 pm	<b>Hands on Supervised Practice Session on Designing an OBE approach 1-</b> Framing/refining the COs of a particular course/subject being presently facilitated by each participant, in alignment to Bloom’s taxonomy, and preparation of various correlation matrices.	Dr. Bhagwan Jagwani
	09:30 am - 11:00 am	Recapitulation of Day 1 learning; Designing appropriate teaching and learning activities in alignment to OBE; Outcome Based Assessment and Evaluation; Direct and indirect attainment of PEOs, POs, PSOs and COs.	
	11:00 am-11:15 am	Tea Break	

	11:15 am - 01:00 pm	Designing Assessment and Evaluation tools and techniques for finding out direct and indirect attainment levels of learning outcomes; Designing Question Papers / Live Projects / Term Papers / Assignments, Group activity, Quiz, etc. in alignment to OBE.	
	01:00 pm - 02:00 pm	Lunch Break	
	02:00 pm-04:00 pm	Designing 'Rubrics' for measuring attainment levels of learning outcomes.	
	04:00 pm - 04:15 pm	Tea Break	
	04:15 pm - 05:30 pm	<b>Hands on Supervised Practice Session on Designing an OBE approach 2-</b> Designing Outcome based Teaching, Assessment and Evaluation tools for a particular subject/course, being presently dealt with by each participant, with focus on achieving the COs framed/refined during the hands-on practice session 1. <b>PROJECT: Every participant is required to prepare an end semester/trimester sample question paper of one course being presently dealt with by them. The paper so prepared should be able to address all the course outcomes of that subject/course.</b>	
Day - 3 (21-08-2019)	09:30 am - 11:00 am	Recapitulation of Day 2 learning; Demo exercise on calculation of direct and indirect attainment levels of COs	Dr. Bhagwan Jagwani
	11:00 am-11:15 am	Tea Break	
	11:15 am - 01:00 pm	Demo exercise on calculation of direct and indirect attainment levels of POs, PSOs and PEOs.	
	01:00 pm - 02:00 pm	Lunch Break	
	02:00 pm - 04:00 pm	<b>Hands on Supervised Practice Session on Designing an OBE approach 3-</b> Presentation of Sample Question paper by each participant, duly presenting the mapping between each question and targeted course outcome.	
	04:00 pm - 04:15 pm	Tea Break	
Day - 4 (22-08-2019)	04:15 pm - 05:30 pm	<b>Hands on Supervised Practice Session on Designing an OBE approach 4-</b> Presentation of Sample Question paper by each participant, duly presenting the mapping between each question and targeted course outcome. (continued)	Dr. Bhagwan Jagwani
	09:30 am - 11:00 am	Recapitulation of Day 3 learning; Design and evaluation of courses beyond the University prescribed syllabi.	
	11:00 am - 11:15 am	Tea Break	
	11:15 am - 01:00 pm	Understanding the specific requirements pertaining to OBE in the 'Self Assessment Report' as prescribed by the National Board of Accreditation (NBA) for Engineering and Management programmes.	
	01:00 pm - 02:00 pm	Lunch Break	
	02:00 pm - 04:30 pm	Internal Quality Assurance Cell (IQAC) and its complete functioning; Best practices of quality assurance followed by accredited institutions.	
Day - 5	04:30 pm - 04:45 pm	Tea Break	Prof. Ratnajit Bhattacharjee Professor, Department of Electronics and Electrical Engineering, IIT Guwahati.
	04:45 pm – 05:30 pm	Assessment Test/Quiz	
	09:30 am - 11:00 am	Outcome Based Education	
	11:00 am to 11:15 am	Tea Break	
	11:15 am to 01:00 pm	Outcome Based Education	

(23-08-2019)	01:00 pm to 02:00 pm	Lunch	
	02:00 pm to 04:00 pm	Quality Research Paper Writing	<b>Prof. Praveen Kumar</b> Professor, Department of Electronics and Electrical Engineering, IIT Guwahati
	04:00 pm to 05:00 pm	Assessment test	
Day- 6 (24-08-2019)		Certificate Distribution	

***Pre-Requisites:***

Each participant is required to carry copies of the following:

- 1) Vision and Mission statements of the institution with which they are associated.
- 2) PEOs/POs/PSOs of the programme being dealt with by them (if available).
- 3) Syllabus and Course / Session outline or Lesson plan of at least one course being presently dealt with by them.

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