

Curriculum Feedback Form
INDUSTRIAL POWER AND AUTOMATION
DEPARTMENT OF ELECTRICAL ENGINEERING, NIT CALICUT


ITEM	CLAIM BY THE INSTITUTE	Yes/No [with Specific Comments]
Matching the objectives of the curriculum with that of the programme	PLC/FPGA/Microcontrollers/DSP controlled drives & systems, process control & automation, cogeneration, power wheeling etc in industries make the necessity of integrating the systems and devices with the electric power control. This M Tech programme is with the objective to provide sufficient theoretical and field experience on the above systems to the engineers.	a) Modelling of power systems to be included. b) Advanced technology-artificial intelligence should be included to model power system. c) State space representation.
Major features of the curriculum satisfactory with current trend	The programme deals with subjects such as Process control and Automation, Industrial Energy Management, Power Electronic dives, Computer controlled systems, SCADA systems etc. The course provides specializations in automation packages using PLC, DCS, and SCADA with hands own experience in the laboratory. Credit industrial training is one of the significant feature.	a) To focus immensely on Variable frequency drive and control. b) Power distribution c) Case studies on PLC and SCADA systems Ex: T & D
Develop ability to model and analyse the industrial issues	Industry training and industrial related courses will help students	Provide continuous and constant training on a) PLC /SCADA System b) Distributed Control System(DCS) c) Foundation Fieldbus d) Communication Protocols
Research Motives in the curriculum	There are mini (1 semester) and major projects (2 semesters full) students have to complete independently apart from course projects. These will provide adequate research motivations. Students are encouraged to participate /present papers in conferences.	Effective solutions for renewable energy resources.
Industry Interactive in the curriculum	Minimum 20 days compulsory training in a major industry in which student need to identify issues and suggest solutions which shall be discussed with industrial experts. Detailed report need to be submitted for evaluation. Dept. encourages major project to be completed as internship in major industries.	YES

Entrepreneurial promotion in the curriculum	Individual Mini /Major projects, industrial training, industry- internship will provide adequate entrepreneurial motivation. Students are advised to interact with Value Education, Training and Placement Dept., Entrepreneurial development cell of the institute.	YES
Provision for latest trends and developments in the curriculum	Flexible so that course faculty can include latest trends in the syllabus for any subject. There is a provision for curriculum revision every four years.	YES
Motivating the students for research & developments	Individual Mini-major projects and course projects will motivate the students	YES
General Comments and Suggestions:		
<p>a) Tie up with Automation Industries/end users to enhance knowledge of students through various seminars/workshops/training/visits.</p> <p>b) Periodic evaluation of the course curriculum to suit the betterment of students</p> <p>c) Improving technical skills through exposure to various softwares like matlab /Labview/etc for doing various modelling.</p>		

Place: Bangalore
Date: 24/11/2015

Name & Signature

Designation


 24/11/15
 PADMA R
 DEPUTY MANAGER
 CSJ

