Curriculum Feedback Form

INDUSTRIAL POWER AND AUTOMATION
DEPARTMENT OF ELECTRICAL ENGINEERING, NIT CALICUT

ITEM	CLAIM BY THE INSTITUTE	Yes/No [with Specfic 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.	Yes. Additional topics or introduction level courses in Protection Algorithms may Yes/No be useful. SCADA section may also need to consider communication basics (SCADA-to-RTU)
Major features of the curriculum satisfactory with current trend	The progarrme deals with subjects such as Process control and Automation, Industrail Energy Management, Power Electronic dives, Computer controlled systems, SCADA systems etc. The course provides specializations in automation packages using PLC, DCS, and SCADA with handsown experience in the laborotray. Credit industrial training is one of the significant feature.	Yes. See above comments Power Quality concepts and Metering can be Yes/No additional focus. DMS curriculum may also investigate FLISR
Develop ability to model and analyse the industrial issues	Industry training and industrial related courses will help students	Yes/No Yes
Research Motives in the curriculum	There are mini (I semester) and major projects (2 semesters full) students have to complete independlntly apart from course projects. These will provide adequate research motivations. Students are encouraged to participate /present papers in conferences.	Participating/Monitoring Indian and International Yes/No Smart grid programs would be useful to show the way forward
Industry Interactive in the curriculum	Minimum 20 days compulsory training in a major industry in which student need to identfy issues and suggest solutions which shall be discussed with industrail experts. Detailed report need to be submitted for evaluation. Dept. encouragaes major project to be completed as internship in major industries.	Yes. Yes/No
Entrepreneurial promotion in the curriculum	Individual Mini /Major projects, industrial training, indusytry- internship will provide adequate entrepreneurial motivation. Students are advised to interact with Value	Smart Grid Concepts Yes/No and programs also show potential for entrepreneurial work.

	Education, Training and Placement Dept., Entrepreneurial development cell of the institute.	
Provison for latest trends and developments in the curriculm	Flexible so that course faculty can include latest trends in the sysllabus for any subject. There is a provison for curriculum revison every four years.	Yes **Yes/No**
Motivating the students for research & developments	Individual Mini-major projects and course projects will motivate the students	Online visibility of **Yes/No** R&D work could add to motivation.

General Comments and Suggestions:

Some additional topics in the Power Industry have been touched upon in the above comments. FLISR, AMI, Substation Protection concepts etc.
Some courseware on communication technologies could be useful since the smart grid focuses on adding value through communication infrastructure investment.
Generation level problem solving could also be useful.
Demand Response, Dispatch algorithms etc.

Place: Bangalore
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