TEQIP School on System & Control

4 – 9 August 2015

Faculty Feedback

Workshop

Questions	*Excellent*	*Good*	*Ordinary*
Clarity of communication about workshop	21	5	
Organization of the sessions	23	3	
Quality of lectures	17	9	
Quality of posters	6	11	
Effectiveness of discussions	14	12	
Effectiveness of learning experience	18	8	
	Appropriate	***Short***	***long***
Duration of workshop	18	2	4
	Definitely	***Maybe***	***No***
Would you like to have more such sessions?	22	2	2
Would you like e-lectures by experts on special topics?	20	5	
Suggest specific topic that you would like additional expert lectures on	➢ System Identification ➢ Signal processing and Warm intelligence ➢ Power Electronics, Power Systems ➢ Embedded System, Automation ➢ Non Linear Robust Control ➢ System Identification and Modelling ➢ Optimization techniques and soft computing tools ➢ Computer Science and Engineering ➢ Core areas in Control Theory ➢ Optimal Control and Adaptive Control ➢ How to develop and write programmes on Neural Network and preprocessing technology ➢ Game theory, ANN and Fuzzy ➢ Multi Agent System ➢ VLSI and Microelectronics ➢ Discrete Control System ➢ Fraction order control system Design and Modellling ➢ Intelligent Control Applications ➢ Sliding Mode Control ➢ Congestion control in Networks		

Additional Suggestions	➢ Duration of the course might have been expanded. ➢ One week might have been devoted to cover the basics and another one to cover advanced topics. ➢ Lab view and its industrial application of Industrial Instrumentation might have been given. ➢ Some Industrial visit and Sight seen might have been arranged. ➢ Examples on applications of ANN, Fuzzy and Game theory. ➢ Not to give more topics rather than elaborated one or two topics. ➢ Hands on Lab session was less. ➢ Reduce Aerospace content and adding Power Elefctronic Control Aspects. ➢ Workshop would have been more effective if contents was based on PG syllabus. ➢ Simulation based lab may be conducted for one or two class.

Teaching

Which subjects do you teach?	➢ Process Control and Optimization ➢ Signals and System, Communication Systems and Signal Analysis ➢ Sliding Mode Control ➢ Robot Dynamics and control,Optimal Control ➢ Circuit Theory and Control ➢ NN Fuzzy logic, Control System and Energy Management and Auditing ➢ DSP and System Identification ➢ Electronic and Communications , Electrical Instrumentation ➢ Microprocessor, CSA and Digital Electonics ➢ Power System Control and Operations. ➢ Neural Network and Digital Signal Processing ➢ Numerical Analysis lab and C-programming ➢ Industrial drives and applications ➢ Controls and Signal Processors ➢ Modern control Systems aand Linear Control System ➢ DIP, Data Structure ➢ Power Electronics and Machines ➢ ADSP, Estimation and identification technique, soft Computing ➢ Modelling

What is average student to teacher ratio in your institute?	➢ 1:15 ➢ 1:12 ➢ 1:11 ➢ 1:20 ➢ 1:15 ➢ 1:3 ➢ 1:15 ➢ 1:15 ➢ 1:20 ➢ 1:50 ➢ 1:15 ➢ 1:15 ➢ 1:30 ➢ 1:12 ➢ 1:15 ➢ 1:12 ➢ 1:15 ➢ 1:15 ➢ 1:10 ➢ 1:30

Questions	***YES***	***NO***
Do you have additional support for teaching (tutors, graders, teaching Assistants, etc)?	12	12
Do you give class projects for UG classes?	19	5
Do you give class projects for PG classes?	14	8
Do you have sufficient resources for laboratory courses?	15	9
	Sufficient	***Inadequate***
Is the library/journal/e-connection support adequate?	14	9

	Definitely	***May* be**	***No***
Would you like to have common (TEQIP) repository of course material?	21	1	
Would you like to visit IITK to participate in and develop course material (existing or new)	20	3	
Would you like to participate in creation of the repository material (course files/lab. Manuals/question bank/etc)	20	3	

	e-courses	***Workshops***	***Content***	***none***
How can IITK effectively help you prepare for teaching?	15	22	10	

How can TEQIP help improve your teaching?	➢ Workshops on regular topics may be conducted during winter and summer recess. ➢ Discussion oriented workshops where we can exchange our teaching experience. ➢ Permitting for FDPS ➢ Working as visiting researchers at renouned Institute and attending courses at IITs. ➢ More padegogy material should be available and also Online classrooms and Online lectures of expert can be shared at other institutes also. ➢ By putting problem solving tasks for the audience and also TEQIP can implement it by Organizing some dedicated subjects workshops. ➢ Expert hands on training sessions apart from lectures. ➢ Such Courses improves alot to our teaching methodology. ➢ By providing infrastructure support ➢ By exposure of new topics and ways of teaching styles. ➢ Industrial Visits, Lab visits and Paedacogy Classes and workshops. ➢ By providing frequent visit to the faculty. ➢ By giving NPTEL videos lecture and also all the e-courses lecture video to our department. ➢ Through FDP joint projects and joint research assignments. ➢ Encouraging teaching , learning, Collaborating research, organizing development programme and inviting us to attend these programs in apex institutes like IITs and parallely funding for setting up modern laboratory. ➢ TEQIP has helped to create infrastructure, learning resources and funding for R&D activity. ➢ Gives exposure to excellent quality of course material teaching at institutes of higher learning like IITs. ➢ By helping to attend such courses which not only give ideas to improve course contents but also helps to understand the background of these contents.

Research

Questions	***Definitely***	***Maybe***	***No***
Would you like to visit an IIT for a visiting-faculty/ post-doctoral fellow, if offered (viaTEQIP)?	22	2	
Would you like to share/use research infra-structure at IITK, if made available?	25	1	

Would you like to conduct collaborative research with IITK?	24	2	
Would you like lectures by experts (Indian and international) on niche research areas/topics?	24	2	
Do you want special-topic conferences?	23	2	1
How can TEQIP help improve your research?	➢ Interatcion with faculty member at IIT kanpur has opened up new areas of research . The teachers at IIT kanpur motivated through their research and dedication of teaching. ➢ By providing assistance in terms of funding research projects attending conferences funding for creating research facilities. ➢ By funding for a R&D lab and also assess some specific journals other institute. ➢ By funding money for lab visit to IIT kanpur in summer. ➢ By allowing participation in workshop, student projects and attending conferences. ➢ Provide ME students collaborative PG project. ➢ Exposure to latest research areas. ➢ By giving a chance of one/two years internship in these Institutes specifically the IITs. ➢ By allowing us to give more funds to buy equipments which costs around Rs 50 lacs and more. ➢ By providing Infrastructure support. ➢ By providing opportunity to interact with experts and gain knowledge on recent advancements on the topics of interest. ➢ If there is a possibilty of reducing the workload at our institute it could be very beneficial. ➢ By incorporating the algorithms implementation on hardwares in real time application. This is the area where most of researchers are facing the problems. ➢ Some experimental set up which is available at IIT can be made available to us for experimentation and validation of research work. ➢ More opportunity of working at IIT . ➢ Providing facility to interact with renowned researchers. ➢ Joint research projects may be a good option where a part of a big projects may be given to other colleges. ➢ It provides diverse topics of research fields. Nowadays interdiscplinary research topics are fast evolving. TEQIP undoubtedly brings us all together in a single platfrom and improves our knowledge in diverse topics.		