

TEQIP Workshop
on
Modeling, Simulation and Implementation using Matlab and Simulink
1-2 February 2017

Student Feedback

Workshop

Questions	Excellent	Good	Ordinary
Clarity of communication about workshop	20	17	3
Organization of the sessions	23	18	
Quality of lectures	25	14	1
Quality of posters	21	16	2
Effectiveness of discussions	14	24	2
Effectiveness of learning experience	17	22	
	Appropriate	Short	long
Duration of workshop	16	23	1
	Definitely	Maybe	No
Would you like to have more such sessions?	34	5	
Would you like e-lectures by experts on special topics?	37	3	
Suggest specific topic that you would like additional expert lectures on	<ul style="list-style-type: none"> • Matlab with real time simulators. • Matlab function • Power system applications of MATLAB in this field to simulate fault. • Applications of MATLAB in food technology. Analysis of food component using MATLAB. • Applications of MATLAB in the field of process engineering with the explanations and tools which are relevant to the some field are need to be taught. • Power quality issue in power system and electronic applications with the real time simulation • Non-linear system control using adaptive control like MPC, Kalman Rittex using MATLAB toolbox. • Renewable energy resources. • PV applications. • Statistics, algebra, numerical analysis, differential equations, number theory. • Differential equation, Matrix, Algebra. • Research for masters students. • Artificial intelligence, Biometrics, Robotics, Image Processing. • New technology, industrial visit, problem on actual work site or machines. • PD tool 		

- Advanced plotting
- Solving coupled non-linear ODE/PDE
- Heat transfer in MATLAB
- IoT
- Image Processing, Networking, Neural Network
- Artificial Intelligent.
- Machine Learning.
- FEM, CFD
- Design for manufacturing, design for experiments.
- Areas of research in CFD
- CFD analysis of HVAC system design (with basics)
- CFD analysis of combustion in IC engines
- CFD theory.
- Power electronic, application with real time simulation.
- MATLAB coding, so that we can simultaneously run the codes in our laptop.
- Power electronics, control system, power system, neural networks, machine design, MATLAB etc.
- Smart grid, energy efficiency management.
- More MATLAB working on power system.
- CFD analysis of medical devices using MATLAB.
- More mechanical engineering approvals with MATLAB is required.
- Sinscape, thingscape
- Global optimisation tool like MOGA, Genetic algorithm.
- LABVIEW, SPSS,
- Statistical tools and techniques, data analysis softwares like R, Minitab, SPSS, SAS etc.
- On network security issues (how we can use matlab efficiently for networking purpose)
- LATEX software

Additional Suggestions

- Long duration workshops
- Please arrange some long duration course, least of 7-8 days.
- It will be better if we are given a certain piece of task to perform at our own at the end of session/day. It will let us know the difficulty we can face & how to overcome from it.
- Workshop should be long duration.
- Handsome session for workshop
- More practical approach for learning.
- Visit in power plants, like gas and hydro and also automobile industries.
- Course like MATLAB should be categorized under short term courses ranging from 7-11 days course and not as 1 day workshops.
- Which would be beneficial for those candidates working in VLSI design under dept. Of Electrical Engg.
- It may be possible that if the speakers try to more elaborate then the listeners understand more.
- Interesting topics and a little boring topics should be discussed alternatively so, seminar cannot become boring.
- Duration of workshop may be increased, otherwise its good and beneficial.
- Fooding & lodging should be upgraded.
- Workshop duration should be of adequate duration.
- Duration of workshop should be more. (7-10 days)
- I am working with MATLAB & LABVIEW, so if TEQIP can also arrange workshop on LABVIEW it will beneficial.
- Please increase the number of intakes in these kinds of workshops as one rarely gets selected. My friends could not make for this workshop even though they really wanted to.
- Stay true to the topic of the workshop and proceed through a proper roadmap.
- Try to arrange lectures by most experienced faculty instead of less experienced faculty.
- Please arrange some lab based session, which one more reliable to understand it properly.
- Organize another workshop.

Learning

Questions	Yes	No	
Do you get enough class projects?	22	13	
Is the learning adequate?	31	9	
Do you have sufficient resources for laboratory	20	13	
What is your area of specialization	<ul style="list-style-type: none"> • Power system (electrical) • Electrical power system • Electrical engineering • Electrical control system • Power Systems (Electrical) • Numerical methods & analysis statistics & probability. • Algebra, Differential equation • Mathematics • VANET, Information security. • Production and manufacturing • Advance Micro-process Mechanical Engg. • Heat transfer & CFD • Networking, vanet, IOT, Machine Learning. • OIP • VLSI Design • Computer Aided Design • Mechanical engineering thermal sciences. • Image processing • Electrical Engg. • Power System • Biomedical engineering. • CAD/CAM. FEM • Mechanical (Thermal Engg.) • Production Engg. • Bio medical engg., Ergonomics. • Order statistics. • EMG • Composite structures. • Non-linear modelling of smart composite structures. • Network (Mobile Adhoc network secure gateway discovery) • Mathematics. 		
	Sufficient	Inadequate	
Is the library/journal support/e-connection	26	5	
	Definitely	Maybe	No
Would you like to have common (TEQIP) repository of	30	6	
Would you like to visit IITK to attend specialized courses?	36		
Would you like MOOCS/e-resources based	26	5	

How can TEQIP help improve your learning?

- More workshops, trainings.
- Video interfacing at all TEQIP receiving institutes so that more students can attend lectures at their local institutes.
- By arranging more such informative lectures and improve our skills.
- If possible arrange the video lectures online.
- Arranging workshops related control system.
- By organizing more workshops, internships.
- TEQIP can provide some online lectures on MATLAB, MATHEMATICA.
- Organizing workshops about recent trends in science & technology.
- Industry Academic Collaboration
- Visit the solar powers planer and different manufacturing
- By conducting no of workshop on different topics.
- By arranging hands on courses.
- Arrange video lectures/e-classes for specialised area.
- Provide expert videos & ppt.
- Provide expert video & ppt by email
- Lab facility to do experiments.
- Please organize short term courses in Mechanical engineering thermal/CFD.
- By workshops seminars etc.
- This is my first experience I feel, it may be enhance our learning in future.
- By providing ppt or materials related to the topic discussed.
- By providing valuable interesting knowledge.
- It helps to explore the required field of courses.
- TEQIP is a good initiative for technical education learning.
- Arrange more workshops like this.
- By giving us opportunity to visit in these types workshops.
- By organizing such short term courses as well as workshop on new and useful topics.
- More content based workshops.
- Please arrange some session on networking research area.
- Teqip provide a platform to attend such workshops and create a change to get effective learning.

Research

Questions	Definitely	Maybe	No
Would you like to visit an IIT for a short visit /internship/post-doctoral stint ,if offered(via TEQIP)?	34	3	
Would you like to share/use research infrastructure at IITK, if made available?	33	3	
Would you like to conduct collaborative research with IITK faculty?	32	2	1
Would you like lectures by experts (Indian and international) on niche research areas/topics?	28	7	
Do you want special-topic conferences?	29	6	
How can TEQIP help improve your research?	<ul style="list-style-type: none"> • I am not interested to go to research • By arranging the workshop. • By organizing more such workshops & paid internship programme. • Conducting more no. Of workshops, seminars and short term courses. • It help to short course on new topic and technologies in different areas. • By organize lots of workshops. • By availing us with topic courses. • Arrange short term courses and workshop in summer. • Allowing me to meet faculty for internship. • TEQIP will help to research scholars through expert training provide to student under respective faculty. • One month internship. • By providing membership of IEEE, Springer etc. So that research scholar can easily get research papers for literature review etc. • It may more better learning if resources are available. • By conducting seminar on the topics which can help us in project. • Knowledge is key to success it provides us knowledge. • It helps with all experimental and theoretical requirement. • TEQIP is an excellent platform to let familiar with latest in the chosen field. • It make us aware about latest trend in the field. • If workshop deal with the practical application, connect with these research tool. • By giving such workshop for a week at least. • As stated above. • By organizing workshops in other institutes as well so that we can attend the workshop closer to our institutes. • By conducting more workshops related to our research field. • TEQIP gives a good platform and information. 		