

# TEQIP Workshop on Sensors and Actuators

28-31 August 2016

## Student Feedback

### Workshop

<i>Questions</i>	<i>Excellent</i>	<i>Good</i>	<i>Ordinary</i>
Clarity of communication about workshop	12	07	00
Organization of the sessions	10	09	00
Quality of lectures	09	10	00
Quality of posters	07	10	00
Effectiveness of discussions	07	02	00
Effectiveness of learning experience	10	09	00
	<i>Appropriate</i>	<i>Short</i>	<i>Long</i>
Duration of workshop	16	02	00
	<i>Definitely</i>	<i>Maybe</i>	<i>No</i>
Would you like to have more such sessions?	16	02	01
Would you like e-lectures by experts on special topics?	16	02	01
Suggest specific topic that you would like additional expert lectures on	<ul style="list-style-type: none"> <li>• Sensor in space</li> <li>• Bio Sensors</li> <li>• Production line sensors</li> <li>• Sensors used in wireless networks</li> <li>• Biomedical and agriculture sensors &amp; their uses.</li> <li>• Computing and programming platforms used in various domain of mechanical engg.</li> <li>• Vision sensors and challenges in it.</li> <li>• Industrial Automation.</li> <li>• Advanced statistical techniques &amp; their applications.</li> <li>• Image processing &amp; programming</li> <li>• Signal conditioning of sensors &amp; actuators.</li> <li>• Industrial robot actuators and sensors</li> <li>• Mathematical explanation fiber optic sensors</li> <li>• Health care/ rehabilitation robotics/ challenges.</li> <li>• Assembly language programming for micro controllers especially for ARM</li> <li>• Biomedical and economics sensors</li> </ul>		

Additional Suggestions	<ul style="list-style-type: none"> <li>• Also show the students project so other college student will take knowledge.</li> <li>• Duration of lunch break can be reduced and an additional lecture can be conducted.</li> <li>• Add some lectures on imaging sensors and problems in imaging.</li> <li>• Lab can be arranged for the hands on training.</li> <li>• I would like to learn design of biomedical devices, implants etc.</li> <li>• More lab session on robotics.</li> <li>• More emphasis on mathematical treatment required.</li> <li>• Introduction of actuators and sensors parallel type manipulator</li> <li>• On advanced robotics.</li> <li>• More lab sessions would be highly appreciable and useful for the participants</li> <li>• We need more lectures on microcontrollers.</li> <li>• More lab sessions as compared to lectures.</li> </ul>
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## Learning

<i>Questions</i>	<i>Yes</i>	<i>No</i>	
Do you get enough class projects?	13	04	
Is the learning adequate?	17	00	
Do you have sufficient resources for laboratory	13	04	
What is your area of specialization	<ul style="list-style-type: none"> <li>• Machine Design</li> <li>• Wireless sensor networks.</li> <li>• Mech. Engg. Design</li> <li>• Signal Processing</li> <li>• Control Systems</li> <li>• Biomechanics, Biodesign</li> <li>• Industrial Automation</li> <li>• Machine learning.</li> <li>• Software engineering</li> <li>• Signal processing- digital and analog.</li> <li>• Robotics</li> <li>• Optical sensors</li> <li>• Robotics rehabilitation</li> <li>• Nano-technology</li> <li>• fluman response of vibration.</li> </ul>		
	<i>Sufficient</i>		<i>inadequate</i>
Is the library/journal support/e-connection	14	03	
	<i>Definitely</i>	<i>Maybe</i>	<i>No</i>
Would you like to have common (TEQIP) repository of course	15	00	02
Would you like to visit IITK to attend specialized courses?	19	00	00
Would you like MOOCS/e-resources based courses?	14	03	01

How can TEQIP help improve your learning?

- It was motivating
- By having courses in other institutes especially to the UG students so that they can be motivated.
- By providing opportunity to visit advanced centres like IITK and to explore the research advancements of the field.
- Organizing some internship programme in image restoration by various techniques/ algorithms.
- TEQIP may conduct series of workshops for different level.
- By arranging small project based training courses in a particular specialized field.
- Because of lectures & lab visits.
- By conduct workshops.
- Providing pool of e-lectures video clips images as open source
- Knowledge of current research work in IIT and institute.
- By doing more workshops
- Help in learning cutting edge and recent advancement in sensors technology.
- There can be more lectures by the industry people.
- This was my first visit and it is quite good. These workshops are very affective.

**Research**

<i>Questions</i>	<i>Definitely</i>	<i>Maybe</i>	<i>No</i>
Would you like to visit an IIT for a short visit /internship/post- doctoral stint if offered (via TEQIP)?	18	01	00
Would you like to share/use research infrastructure at IITK, if made available?	18	01	00
Would you like to conduct collaborative research with IITK faculty?	18	01	00
Would you like lectures by experts (Indian and international) on niche research areas/topics?	19	00	00
Do you want special-topic conferences?	18	00	00

How can TEQIP help improve your research?

- If workshops of these kind may be given on my area of research it would be of more help
- By extending the facilities for the faculty by providing a long term training programme on projects specifically.
- Such workshops organized by TEQIP provide opportunity to interact with the field experts as well as with the fellow researchers. This interaction is the most important way of improving the research work.
- I am working on image restoration using some optimization techniques. So, I want research guidance and facilities to improve my knowledge and work at IIT Kanpur.
- By allowing researcher to use research labs, equipments etc.
- By allowing collaborative research with IITK PhD. Students, faculties etc.
- By providing equipment and show facilities at better equipped institutions like IITs.
- By conduct workshops and conduct special topic lectures by experts.
- Discussion part, idea of new approaches is very helpful in research.
- Visiting labs. Collaborative research, interaction with industry
- If TEQIP can provide me a job, it'll be very wonderful for me.
- Just a little help related to the fund as I do not have fund to do my PhD.