

# TEQIP Short Course on Micro-Manufacturing

31 August – 4 September, 2015

## Faculty Feedback

### Workshop

<i>Questions</i>	<i>Excellent</i>	<i>Good</i>	<i>Ordinary</i>
Clarity of communication about workshop	16	1	
Organization of the sessions	12	5	
Quality of lectures	14	3	
Quality of posters	7	4	
Effectiveness of discussions	10	6	
Effectiveness of learning experience	11	3	1
	<i>Appropriate</i>	<i>Short</i>	<i>long</i>
Duration of workshop	12	3	
	<i>Definitely</i>	<i>Maybe</i>	<i>No</i>
Would you like to have more such sessions?	15	1	
Would you like e-lectures by experts on special topics?	14	1	1
Suggest specific topic that you would like additional expert lectures on	<ul style="list-style-type: none"> <li>➤ How to increase efficiency of micro machine in the field of conventional mode and robotics.</li> <li>➤ Laser Welding.</li> <li>➤ Material characterization, Modelling, FMS,CFD and Optimization.</li> <li>➤ System engineering, Human factors approach in system design.</li> <li>➤ Role of automation in Micro/Nano Manufacturing.</li> <li>➤ Interaction between Laser and work piece. Melt pool Kinematics during Laser beam micromachining.</li> <li>➤ Rapid Prototype and Polishing Fluids.</li> <li>➤ Advanced research area or the combination of different areas from Mech. Engg. Including design ,industries and thermal so the one person get the flavor of all the area and can try to last there area of research.</li> </ul>		

Additional Suggestions	<ul style="list-style-type: none"> <li>➤ All the Ppt should be given to all the participant.</li> <li>➤ All the materials used in the class-room lectures may be shared.</li> <li>➤ The presentation should be allowed to the participant as well.</li> <li>➤ Lectures should be mixed with Lab work.</li> <li>➤ More lecture content for individual lecture rather than number of experts.</li> <li>➤ Lesser number of lecture, more depth.</li> <li>➤ Some changes is essential in the curriculum at B. Tech and M. Tech level.</li> <li>➤ Courses focussing in need of Industries in present Science.</li> </ul>
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## Teaching

Which subjects do you teach?	<ul style="list-style-type: none"> <li>➤ Manufacturing Science, Production</li> <li>➤ Operational Management</li> <li>➤ Tribology</li> <li>➤ Material Science and Design</li> <li>➤ Advanced Manufacturing processes, Advanced material tech. Engg. Materials, Engg. Mechanics.</li> <li>➤ Industrial Engg., Operational Research and Ergonomics.</li> <li>➤ Flexible Mfg System, Computer Integrated Mfg System.</li> <li>➤ CAD/CAM, NTMP (AMP), Multi Vibration</li> <li>➤ Metrology for manufacturing.</li> <li>➤ Fluid Mechanics / Engg. Mechanics</li> </ul>		
What is average student to teacher ratio in your institute?	<ul style="list-style-type: none"> <li>➤ 1:20</li> <li>➤ 1:25</li> <li>➤ 1:15</li> <li>➤ 1:50</li> </ul>		
<b>Questions</b>	<b>YES</b>	<b>NO</b>	
Do you have additional support for teaching ( tutors, graders, teaching Assistants, etc)?	5	10	
Do you give class projects for UG classes?	14	2	
Do you give class projects for PG classes?	13	1	
Do you have sufficient resources for laboratory courses?	7	9	
	<b>Sufficient</b>	<b>Inadequate</b>	
Is the library/journal/e-connection support adequate?	7	9	
	<b>Definitely</b>	<b>May be</b>	<b>No</b>
Would you like to have common (TEQIP) repository of course material?	12	3	
Would you like to visit IITK to participate in and develop course material (existing or new)	15	1	

Would you like to participate in creation of the repository material (course files/lab. Manuals/question bank/etc)	12	3		
	<i>e-courses</i>	<i>Workshops</i>	<i>Content</i>	<i>none</i>
How can IITK effectively help you prepare for teaching?	9	13	5	
How can TEQIP help improve your teaching?	<ul style="list-style-type: none"> <li>➤ This kind of workshop should be organized regularly.</li> <li>➤ With the use of e-courses.</li> <li>➤ Listening to the experts and understanding their way of teaching.</li> <li>➤ The explore of new areas that was untouched by us will help in effective teaching.</li> <li>➤ By attending , learning and interacting through this kinds of STS/Workshops.</li> <li>➤ IITK can help in collaborative Research.</li> <li>➤ Through more workshops and seminars.</li> <li>➤ Providing Resources , Literature and provide facilities for experimentation, lab development support guidance.</li> <li>➤ Developing the lab facility and basic infrastructure by visiting the state institute and suggesting to institute and department in a uniform manner.</li> <li>➤ Organizing seminar and workshops at workplace so that PG and Ph. D student may be beneficial.</li> <li>➤ Guiding and impelmenting live projects by the students at UG/PG level.</li> <li>➤ Controlling and monitoring the effective use of TEQIP funds in the interest of students and Institute.</li> <li>➤ Conducting more courses and workshops from time to time. Specially, can prganize summer school during vaqcations or also provide small project to the faculty which they didn't have in their institute.</li> <li>➤ TEQIP can provide facility to interchange laboratory facilities. Any faculty can do labs or experiments in any TEQIP funded institute wherever facilities are available.</li> </ul>			

## Research

<i>Questions</i>	<i>Definitely</i>	<i>Maybe</i>	<i>No</i>
Would you like to visit an IIT for a visiting-faculty/post-doctoral fellow, if offered (viaTEQIP)?	16	1	
Would you like to share/use research infrastructure at IITK, if made available?	17		
Would you like to conduct collaborative research with IITK?	17		
Would you like lectures by experts (Indian and international) on niche research areas/topics?	14	3	
Do you want special-topic conferences?	13	3	1

<p>How can TEQIP help improve your research?</p>	<ul style="list-style-type: none"> <li>➤ TEQIP can provide platform to faculty to work with IIT people.</li> <li>➤ Permit to organize for funding in the area of lab at our organization.</li> <li>➤ Providing a basic uniform infrastructure to all institutions at a level of NIT/IIT.</li> <li>➤ Providing support resources and experimentation facilities, Lab development support guidance.</li> <li>➤ By making contact with experts of domain in such kind of workshops.</li> <li>➤ By creating new vision and mission and ultimately by proper planning and implementation of research quality can be improve in future.</li> <li>➤ The new area will add a diameter to my research in future.</li> <li>➤ Better and useful interaction with the leaders, exposure to the niche areas.</li> <li>➤ Steps made by TEQIP to explore the knowledge is very useful.</li> <li>➤ TEQIP can provide platform to faculty to work with IIT people.</li> <li>➤ By promoting us with respect to availability of journals and books, computer peripherals, net connect, printing devices.</li> <li>➤ By funding the specific projects ideas submitted by the researchers, after checking their viability aspects.</li> <li>➤ Collaboration between different research roles and institutes.</li> </ul>
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