



A Short Course on  
**Structure and Characterization of Materials**  
22 - 26 December 2014



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## Faculty Feedback Form

### WORKSHOP SESSION

Questions	Excellent	Good	Ordinary
Clarity of communication about	16	05	00
Organization of the sessions	19	03	01
Quality of lectures	19	04	01
Effectiveness of discussions	15	08	00
Effectiveness of learning experience	12	09	01
	<b>Appropriate</b>	<b>Short</b>	<b>long</b>
Duration of workshops	16	06	00
	<b>Definitely</b>	<b>Maybe</b>	<b>No</b>
Would you like to have more such sessions?	17	06	00
Would you like e-lectures by experts on special topics?	20	03	00

Suggest specific topic that you would like additional expert lectures on

- Biomaterials
- Polymer nanotechnology
- Advanced XRD techniques
- Characterization of Polymer nano-particles and nanocomposites.
- Sample preparation for TEM/SEM
- Structure of Amorphous materials and their electrical optical and thermal characterization.
- Industry academic collaborations
- Nano-Materials.
- Nano Components
- Renewable Energy Materials.
- Spectroscopy, XPS
- Magnetic and Dielectric Materials Characterization.
- Other non metallic materials.
- Specific applications of material science in machining.
- Customized lectures for participants from bio nanotech background.
- Optical Emission Spectroscopy and sample preparation for TEM.

## Additional Suggestions

- Provide course material in the form of CD etc.
- More such workshop/programmes related to metallurgy and specific problems.
- More handouts should be distributed.
- All the presentations/ delivered lectures should be provided in the form of spiral binding after the workshop.
- Handouts should be spiral form and before tutorials there should be some examples based on questions given in tutorial sheets.
- Give more times for lab visit.
- Softcopy of the lectures delivered by the speakers must be given to the participants.
- Labs session should be increased.
- Workshop on Data Analysis.
- Workshop on actual sample analysis and data interpretation.
- It will be much better if laboratory visit time increase.
- Similar workshop on Spectroscopy may be thought of duration could be little longer.

## TEACHING

Which subjects do you teach?	<ul style="list-style-type: none"> <li>• Biomaterials, Materials Science &amp; Engineering</li> <li>• Material Science.</li> <li>• Engineering Physics, Solid State Physics.</li> <li>• Fluid flow operation, Chemical Engg., Thermodynamics, Chemical Process Technology, Polymer Science and Technology, Energy Resources.</li> <li>• Physics</li> <li>• Solid State physics, Mechanics</li> <li>• Material Engg. , Process Metallurgy</li> <li>• Condensed Matter Physics</li> <li>• Measurement (mechanical) &amp; process design.</li> <li>• Welding</li> <li>• Physics</li> <li>• Biotechnology, Bio-nanotechnology.</li> </ul>	
What is average student to teacher ratio in your institute?	<ul style="list-style-type: none"> <li>• 10:1</li> <li>• 15:1</li> <li>• 20:1</li> <li>• 15:1</li> <li>• 15:1</li> <li>• 15:1</li> <li>• 60:1</li> <li>• 20:1</li> <li>• 13:1</li> <li>• 20:1</li> <li>• 20:1</li> <li>• 25:1</li> <li>• 13:1</li> </ul>	
<b>Questions</b>	<b>YES</b>	<b>NO</b>
Do you have additional support for teaching (tutors, graders, teaching Assistants, etc)?	06	10
Do you give class projects for UG classes?	11	03
Do you give class projects for PG classes?	10	04
Do you have sufficient resources for laboratory courses?	03	10
	<b>Sufficient</b>	<b>Inadequate</b>
Is the library/journal/e-connection Support adequate?	06	07

	<b>Definitely</b>	<b>May be</b>	<b>No</b>	
Would you like to have common (TEQIP) repository of course material ?	14	00	00	
Would you like to visit IITK to participate in and develop course material (existing or new)	10	02	01	
Would you like to participate in creation of the repository material (course files/lab. Manuals/question bank/etc)	10	02	01	
	<b>e-courses</b>	<b>Workshops</b>	<b>Content</b>	<b>none</b>
How can IITK effectively help you prepare for teaching?	10	10	07	00
How can TEQIP help improve your teaching?	<ul style="list-style-type: none"> <li>• By organizing such workshops and lab visits at IITK and other Institution having excellent experimental facilities.</li> <li>• Along with the workshops it is important to develop research lab.</li> <li>• Provide guidance in development of research lab.</li> <li>• The content of the lecture being delivered are very much useful to improve teaching.</li> <li>• E-course on various subjects.</li> <li>• E-course content of various subjects/ lectures of famous faculties from IITs should be available online of each and every subjects.</li> <li>• Through attending the short term courses under TEQIP programme organized by IIT's.</li> <li>• By further discussing subjects.</li> <li>• Through conducting workshops on topics related to syllabus.</li> <li>• By sharing resource like knowledge bank and laboratory facilities.</li> <li>• By exposure to training session in centres of excellence like IITs.</li> <li>• By providing trainings on specific equipments and techniques.</li> <li>• Helping in organization of student visits.</li> <li>• Industries application topics also to focus.</li> </ul>			

**RESEARCH**

<b>Questions</b>	<b>Definitely</b>	<b>Maybe</b>	<b>No</b>
Would you like to visit an IIT for a visiting-faculty/post-doctoral fellow ,if offered(via TEQIP)?	17	02	00
Would you like to share/use research infra-structure at IITK, if made available?	18	02	00
Would you like to conduct collaborative research with IITK?	19	02	00
Would you like lectures by experts (Indian and international) on niche research areas/topics?	18	02	00
Do you want special-topic conferences?	18	02	00

How can TEQIP help improve your research?

- Joint supervision of Ph.D/M.Tech students with IITK.
- By exploring the possibility to avail lab facility for us at IITK to carry out experimental work to improve our research.
- Just because of TEQIP, I will be able to get nice exposure to IIT and learn till the important matter that we can use in our research later.
- By letting other academic institutes use the research facilities at a reasonable charge.
- Lab facilities available at various TEQIP supported institutes should be accessible.
- Providing research grant to individual in smooth way.
- TEQIP can organize semester/workshop/short term course on Amorphous semiconductors.
- TEQIP can provide sufficient funds to govt. Colleges to develop good lab facilities.
- TEQIP can provide the sufficient fund to the state engineering govt. Colleges to purchase necessary laboratory equipments etc.
- By further interaction.
- By providing opportunity to work with the team work in my area of a premium institute like IIT and IIM.
- By allowing, during summer break to work in area on our choice.
- By providing collaborative research projects.
- TEQIP has helped in having a better understanding of the topics covered.
- Similar workshops on periodic basis should be organized.