

# TEQIP Workshop on Microstructure Engineering via Heat Treatments

19 - 21 October 2015

## Student Feedback

### Workshop

<i>Questions</i>	<i>Excellent</i>	<i>Good</i>	<i>Ordinary</i>
Clarity of communication about workshop	13	03	00
Organization of the sessions	11	05	00
Quality of lectures	16	00	00
Quality of posters	07	06	01
Effectiveness of discussions	11	05	00
Effectiveness of learning experience	12	04	00
	<i>Appropriate</i>	<i>Short</i>	<i>Long</i>
Duration of workshop	06	09	00
	<i>Definitely</i>	<i>Maybe</i>	<i>No</i>
Would you like to have more such sessions?	15	00	01
Would you like e-lectures by experts on special topics?	15	01	00
Suggest specific topic that you would like additional expert lectures on	<ul style="list-style-type: none"> <li>• Mechanical metallurgy and deformation behaviour</li> <li>• Heat treatment of cast iron</li> <li>• Sintering, Powder characterization</li> <li>• TTT, CCT -diagram</li> <li>• Ferrite Nano particles</li> <li>• Welding</li> <li>• SG cast iron and its formation</li> <li>• Material characterization techniques</li> <li>• Computational fluid dynamics</li> <li>• Effect of micro-structure on the tribological behaviour of metals</li> <li>• XRD- Analysis, optical micrography</li> </ul>		

Additional Suggestions	<ul style="list-style-type: none"> <li>• Additional practical work shall be required.</li> <li>• Duration of lectures to be long to address all subjects.</li> <li>• Workshop may be scheduled for one week.</li> <li>• Effect of welding heat treatment changes the microstructure.</li> <li>• Must be organized such type of workshops but total duration atleast 7 days.</li> <li>• Provide some modelling workshop on ansys.</li> <li>• For such short duration workshops, it may be carried out in phase- 1 &amp; 2 and so on.</li> <li>• Would like to have more such sessions. workshop should be held at least 1 week.</li> </ul>
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### Learning

<i>Questions</i>	<i>Yes</i>	<i>No</i>	
Do you get enough class projects?	14	02	
Is the learning adequate?	15	01	
Do you have sufficient resources for laboratory courses?	13	03	
What is your area of specialization	<ul style="list-style-type: none"> <li>• Material science</li> <li>• Production Engineering</li> <li>• Powder Metallurgy</li> <li>• Nano Composite</li> <li>• Ferrous process metallurgy</li> <li>• Mechanical engineering</li> <li>• Micro-manufacturing</li> <li>• SG cast iron</li> <li>• Metallurgy and Material Engg.</li> <li>• Machining</li> </ul>		
	<i>Sufficient</i>		<i>Inadequate</i>
Is the library/journal support/e-connection adequate?	13		01
	<i>Definitely</i>	<i>Maybe</i>	<i>No</i>
Would you like to have common (TEQIP) repository of course material?	14	01	00
Would you like to visit IITK to attend specialized courses?	15	01	00
Would you like MOOCS/e-resources based courses?	13	03	00

How can TEQIP help improve your learning?

Conducting more workshop(hands on practice).

By providing a digital copy of the seminar to recall the contents covered.

By providing such type of excellent experimental knowledge and good interactions with experts.

It is improving our learning by best facility available and exposure to the international quality research.

In this workshop co-ordinator conducted hands on practice for us.

This is very good practice for us likewise in future add more experimental things. Hands on learning provide better learning.

Just by increasing duration of course.

By interaction with professor from reputed institutions.

By providing video, lectures of professors.

With this type of program we get interaction with expert on particular area along with practical exposers.

## 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)?	15	01	00
Would you like to share/use research infra- structure at IITK, if made available?	13	03	00
Would you like to conduct collaborative research with IITK faculty?	14	02	00
Would you like lectures by experts (Indian and international) on niche research areas/topics?	13	03	00
Do you want special-topic conferences?	13	02	01
How can TEQIP help improve your research?	<ul style="list-style-type: none"> <li>• By interaction with expert it helps to clarify and some experimental techniques which is possible to learn only from experts.</li> <li>• By allowing access to equipments available at IITK.</li> <li>• Providing the necessary arrangements to do research work.</li> <li>• By continuing these types of interaction.</li> <li>• Providing facility of equipments, machinery on economically basis.</li> <li>• TEQIP can provide us more and more workshop and other educational conferences on different topics at different IITs and NITs.</li> <li>• By providing a session having description of available facilities for research work.</li> <li>• By providing some modelling workshop.</li> <li>• By arranging the workshop and expert talk.</li> <li>• Providing facility for the use of laboratory of IIT kanpur.</li> </ul>		