

Mechanics in Physics

Summary of Faculty Feedback

Knowledge Incubation for TEQIP

23-27/06/2014

Workshop

Questions	Excellent	Good	Ordinary
Clarity of communication about	33	5	0
Organization of the sessions	33	5	0
Quality of lectures	25	11	1
Quality of posters	Na	Na	Na
Effectiveness of discussions	11	24	2
Effectiveness of learning experience			
	Appropriate	Short	long
Duration of workshop	34	03	0
	Definitely	Maybe	No
Would you like to have more such	27	08	02
Would you like e-lectures by experts on special	31	05	02
Suggest specific topic that you would like additional expert lectures on	<ul style="list-style-type: none"> •Electrodynamics, Field Theory. •Nuclear fission, fussion, CNO cycle, pp chain •Engg. Mechanics •Material science, computational physics •Electrodynamics, stat-mech, multibody problems in QM, waves and optics, solid state physics. •DFT, Eigen value problem, distribution dependent physical quantities. •Statistical Mechanics. •Demonstration of instruments. •Quantum Mechanics. •Solid state physics, statistical mechanics. •Thermodynamics, electrodynamics. •Electromagnetism. •Mathematical simulation, statistical physics. •Simulations and some fluid mechanics problem •Fundamentals and statistical mechanics (material science), thermodynamic potentials. •Fluid mechanics and Thermodynamics. •Fluid dynamics •Quantum , Mathematical Physics. •Optics, semiconductors, superconductors. •Quantum Mechanics applications. •Material science. 		

	<ul style="list-style-type: none"> •Fibre optics, Magnetism, Crystal structure. •Optics, fibre optics •EM Theory, Material Science. •Uncertainty Principle. •Fluorescence spectroscopy and its applications. •Crystallography: synthesis, applications, characteristics. •Photonics, science of materials. •Solid state physics, photonics, Science of materials, Matlab.
<p>Additional Suggestions</p>	<ul style="list-style-type: none"> •Please make available the hand outs just before or after the lecture. •A little bit of nuclear astro physics should be taught, hand out should be available. •More frequent courses. •Campus visit to all the labs could have been arranged. •Jump straight to QM/Relativity. •It would be better if some lab sessions are included. •Some hands on Experiments related to classical and quantum mechanics. •Kindly include some hands on expt for participants to get a feel C.M, Q.M

Teaching

Which subjects do you teach?	<ul style="list-style-type: none">•Physics in Engineering•Electrodynamics, sound•Physics•Mechanical Engineering.•Atomic, molecular and nuclear physics.•Applied physics, Materials Science.•General Physics•Engg Physics, Engg. Mechanics.
What is average student to teacher ratio in your institute?	50:1 50:1 30:1 12:1 20:1 20:1 60:1 15:1 20:1 230:3 60:1 20:1 16:1 15:1 20:1 60:1 15:1 30:1 20:1 20:1 30:1 30:1 15:1 15:1 15:1 30:1 65:1 15:1 15:1 15:1 80:1 20:1 30:1 16:1 16:1

Questions	YES		NO	
Do you have additional support for teaching (tutors, graders, teaching Assisttants, etc)?	17		17	
Do you give class projects for UG classes?	22		15	
Do you give class projects for PG classes?	13		24	
Do you have sufficient resources for laboratory courses?	20		17	
	Sufficient		Inadequate	
Is the library/journal/e-connection support adequate?	20		17	
	Definitely	May be	No	
Would you like to have common (TEQIP) repository of course material?	25	11	01	
Would you like to visit IITK to participate in and develop course material (existing or new)	31	06	00	
Would you like to participate in creation of the repository material (course files/lab. Manuals/question bank/etc)	33	04	00	
	e-courses	Workshops	Content	none
How can IITK effectively help you prepare for teaching?	21	22	11	00
How can TEQIP help improve your teaching?	<ul style="list-style-type: none"> •By Providing Lab & training , workshop. •By training. •By developing infrastructure and providing faculties with more exposure to better institution. •Organizing workshop on one particular topics for many days. •By attending such workshop we get awared. •The exposure in the present programme will have a direct positive impact in my teaching methodology. •By participating workshop like this. •By conducting more workshop. •Request to provide course material, lectures in the form of ppts and videos. 			

Research

Questions	Definitely	Maybe	No
Would you like to visit an IIT for a visiting-faculty/post-doctoral fellow ,if offered(via TEQIP)?	30	06	00
Would you like to share/use research infrastructure at IITK, if made available?	34	02	00
Would you like to conduct collaborative research with IITK?	33	03	00
Would you like lectures by experts (Indian and international) on niche research areas/topics?	25	07	02
Do you want special-topic conferences?	24	11	00
How can TEQIP help improve your research?	<ul style="list-style-type: none"> •By availing basic facilities like internet, library at institute. •Allowing us for characterization techniques. •By providing funding for equipments. •Through visiting faculty program. •My research is focussed on material science. The clear understanding of quantum Mechanics will help me understanding spectroscopic characterization of materials. •By organizing conference on the focused area. •By organizing National, International conferences, financial support to do research •Knowledge enhancement by attending(domain) workshop like this, conference(like this), conferences, seminars. •Improvement in teaching-learning process through pedagogy training. •Financial support to procure some basic equipments to start research work. 		