



Indian Institute of Technology Jodhpur

Department of Physics

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Review Period: July 2015 to 31 July 2022

## Evaluation Sheet for Internal Review of the department

### Committee Members

1. Prof. Chandan Dasgupta, I.I.Sc., Bangalore

2. Prof. S. Umasankar, I.I.T. Bombay

3. Prof. Kajari Mazumdar, T.I.F.R., Mumbai

*Committee may provide a single combined report.*

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### Note:

1. In column 2, please provide description of the committee's assessment.
2. In column 3, Please choose one of the progress indicators from the below

Excellent

Very good

Good

Average

Below Average

Due to the nature of some specific questions, it may not require any progress indicator.

3. Please use additional pages if required.
4. Please sign on every page and submit to the Director IIT Jodhpur

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*Chandan Dasgupta*

*S. Umasankar*

*Kajari Mazumdar*



Sr. No	Item	Evaluation
1.	<p>Opinion and suggestions about the curriculum of different academic programs (B.S./M.Sc./M.Tech.) offered by the department and their relevance</p> <p><b>In I.I.Sc., the credit load per semester for UG students is 16. For I.I.T. Bombay, it is 17. Here it is more than 20. We feel that an average student will feel more comfortable with a reduced credit load. Enthusiastic students will be able to pursue their interests and will handle higher credit loads.</b></p> <p><b>We all feel strongly that all M.Sc. students should undergo a course on "Introduction to computer programming" in their first semester. This course should also include elements of statistical methods of data analysis and introduction to basics of machine learning.</b></p> <p><b>The M.Sc. students, during their interaction session, requested that some higher level courses such as Advanced Mathematical methods and Advanced Statistical Physics should be offered as electives.</b></p>	<b>Very Good</b>
2.	<p>Comments about the teaching learning process adopted by the department. Your suggestions and advice for the same.</p> <p><b>Regular and well spaced assignments and tutorial sessions should be mandatory for all courses. This was a specific request made by the students.</b></p>	<b>Very good</b>
3.	<p>Provide your overall evaluation about outcome of the programmes and performance of the graduated students in the profession. Any suggestions will be welcome</p> <p><b>The committee appreciates that a large number of M.Sc. Students, after graduation, are interested in pursuing higher studies or technical careers. The M.Sc.-M.Tech. Students are also genuinely</b></p>	<b>Very Good</b>

*Sharda Joshi*

*S. Umashankar*

*Kajani Muz*



	interested developing the core knowledge they acquired during their study.	
4.	<p>Provide your assessment about the doctoral programmes (PhD) of the department. Please indicate your suggestions for improving the same.</p> <p><b>We note that the students who have done/doing Ph.D. from I.I.T. Jodhpur have done well in their research and have gotten good post-doctoral positions. The Ph.D. students seem genuinely happy to be doing their research at I.I.T. Jodhpur.</b></p>	<b>Excellent</b>
5.	<p>Your feedback about laboratory facilities including research infrastructure and facilities in the department</p> <p><b>The committee appreciates that all the research facilities in the department are developed as common facilities, to be available to everybody in the department.</b></p> <p><b>The department has made a good start in setting up good facilities which have started to yield results. But, the department should make all possible effort to develop high end facilities, if necessary, in collaboration with other departments.</b></p> <p><b>The department should make a concious effort to reduce the down-time of instruments so that the students' work will not suffer.</b></p>	<b>Good</b>
6.	<p>Provide committee's assessment of academic research of the department. In particular, provide your input about</p> <ul style="list-style-type: none"> <li>i Quality of the research activities pursued by the department,</li> <li>ii Number and quality of publications</li> </ul> <p>Your suggestions and advice will be of immense value</p> <p><b>The faculty of the department are working on topical problems and are publishing their results in good quality journals. The number of publications is very good, given the size of the</b></p>	<b>Very good</b>

*Chander Singh* *S. Umashankar*

*Kajani*



	<p>department. The faculty should attempt to tackle deeper and more fundamental problems, leading to publications in very high impact journals.</p>	
7.	<p>Provide committee's assessment of different sponsored research and consultancies undertaken by the departmental faculty members.</p> <p>The faculty have got good financial support from SERB/DST in terms of individual grants. They should develop strategies to get larger group grants, both within and across departments.</p> <p>Wherever possible, the faculty should develop consultancy contacts with industry.</p>	<b>Very good</b>
8.	<p>Provide committee's assessment of industry interface and industry linked research activities by the department.</p> <p>The faculty members working on topics of immediate societal interest should make effort to reach out to the relevant industries.</p>	<b>Good</b>
9.	<p>Provide committee's assessment about outreach, continuing education/executive education programmes of the department. Please indicate committee's suggestions for improving the same.</p> <p>The Physics Department ran a refresher course at the invitation of Rajasthan DST. That was a good initiative they undertook and they should try to be engaged in general in similar activities.</p>	<b>Good</b>

*Shanda D. Singh*      *S. Umabakar*

*Kajari*







	<p>and quantum physics, where most of the mega-science projects are.</p> <p>The department is starting a new B.S. program which will lead to a significant increase in the number of courses being taught. The department should also keep in mind its expanding teaching load in new faculty hiring.</p>	
12.	<p>Based on Vision, Mission and Goals identified by the department comment about the committee's overall assessment of the progress made so far.</p> <p>Given that the department started only in 2013, they have done well in hiring faculty in diverse areas and setting up a good teaching and research program. As mentioned earlier, the quality of research by the Ph.D. students is excellent.</p> <p>We hope the department will build on this good start and continue to flourish.</p>	<b>Very Good</b>
13.	<p>Overall assessment by the committee and suggestions</p> <p>We have made suggestions against particular points. Our overall assessment of the department is "very good".</p>	<b>Very Good</b>
14.	<p>Any other aspect committee wish to note/highlight</p> <p>None.</p>	



