



भारतीय प्रौद्योगिकी संस्थान, कानपुर  
INDIAN INSTITUTE OF TECHNOLOGY, KANPUR

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No.R/S-AGENDA/IITK/2011-12/158  
May 04, 2012

**To: All Members and Special Invitees of the Senate and also to all faculty who are not members of the Senate.**

**Subject: Minutes of the 2011-12/2<sup>nd</sup> (Special) meeting of the Senate held on 18<sup>th</sup> April 2012 at 1530 hrs in the L-17, Lecture Hall complex of the Institute**

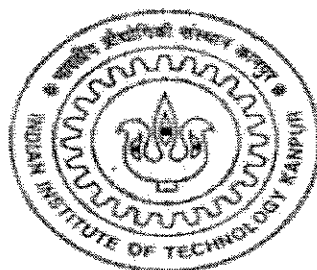
I am forwarding herewith a copy of the Minutes of the 2011-12/2<sup>nd</sup> (Special) meeting of Senate held on 18<sup>th</sup> April 2012 for your information and comments. Comments, if any may please be sent to the undersigned by 11<sup>th</sup> May 2012.

**R K Sachan**  
Acting Secretary, Senate

Prof. \_\_\_\_\_

IIT Kanpur

**INDIAN INSTITUTE OF TECHNOLOGY, KANPUR**



# **SENATE**

## **MINUTES OF THE 2011-12/2<sup>nd</sup> (Special) MEETING**

**DATE : April 18, 2012**  
**TIME : 1530 hrs.**  
**VENUE : L-17, Lecture Hall Complex,  
IIT Kanpur**

**INDIAN INSTITUTE OF TECHNOLOGY, KANPUR**

**Minutes of the 2011-12/2<sup>nd</sup> (Special) meeting of the Senate  
held on Wednesday, April 18, 2012 at 1530 hrs.  
in L-17, Lecture Hall Complex, IIT Kanpur.**

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## INDIAN INSTITUTE OF TECHNOLOGY, KANPUR

### Minutes of the 2011-12/2<sup>nd</sup> (Special) meeting of the Senate held on Wednesday, April 18, 2012 at 1530 hrs. in L-17, Lecture Hall Complex, IIT Kanpur.

At the outset, the Chairman, Senate welcomed all the members present and called the meeting to order.

The Agenda items were then taken up for consideration.

<b>Item No.1</b>	To report the outcome of the meeting held in New Delhi on April 11, 2012 and to discuss further course of action by the Senate.
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Chairman, Senate informed the house about the meeting held by Chairman, IIT Council with Chairmen and Directors of IITs(Delhi, Bombay, Kharagpur, Kanpur, Madras, Guwahati, Roorkee) at New Delhi on April 11, 2012. The Statement provided by Chairman, Senate is placed at **AP-1**.

The Senate noted the information provided by Chairman, Senate.

<b>Item No.2</b>	To consider an interim report of the Committee that was setup to suggest changes to the current JEE System.
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Dean, Academic Affairs was requested to give the brief outline of the interim report submitted by his Committee.

Dean, Academic Affairs informed that the Ramasami Committee Report and other documents available provide primarily three prime movers for change:

1. Reduce the impact of coaching on admissions.
2. Take the school board performance into account, which may improve the school education in the country.
3. Reduce the number of exams that a student has to take in the country.

As in the earlier meeting of the Senate held at IIT Kanpur, the views expressed by the Senators indicate that the Ramasami Committee proposals are not going to make any significant impact on any of the three goals, and it is debatable whether the 3<sup>rd</sup> should be a goal at all.

Hence, any proposal that Senate considers should have the goal of improving the quality of student intake to the under-graduate programs. Second, the Senate/Institute should continue to participate in the joint admissions process, along with other IITs. And hence there should be some coordination with the Senates of other IITs.

The Committee has outlined various options . All the options can be broadly classified into three groups, the details of which are given in the Interim report (Copy of the Interim Report is placed at **AP-2 to AP-6** ). These are:

1. Exclusive use of ISEET for admission.
2. Exclusive use of JEE for admission.
3. Combined use of ISEET and JEE for admission.

With this brief outline about the Committee's report, the floor was opened for discussion.

During the discussion, the following points were made by various members:

1. Majority of the Senators were in favour of option 3 i.e., combined use of ISEET and JEE for admission with certain reservations.
2. IIT Kanpur Senate and Faculty should first monitor how ISEET is conducted, what role is given to IITs, what timelines are maintained, etc., and only after that, should IIT Kanpur Senate consider using ISEET in the admission process.
3. Continuous review of JEE is required.
4. The ISEET examination may be used for screening test and 10 to 20% of top ranker of screening test be allowed to appear in JEE. The pattern of JEE be subjective instead of Multiple Choice Question (MCQ).
5. Who will be organizing ISEET? Will it be an improved version of AIEEE? IIT Kanpur should participate in academic activities of ISEET to know its process and to see how its confidentiality is maintained. The answer of these questions are not clear at present. However, IIT Kanpur should participate.
6. IIT Kanpur Senate should wait and watch the conduct of ISEET examination for couple of years. If the conduct of examination is satisfactory, then IIT Kanpur should have the option to join the ISEET.
7. All the IITs should coordinate and try to come up with similar proposals to be submitted to IIT Council. The broad interest should be spelled out.
8. IIT Kanpur should try to find the correlation between ISEET and JEE.
9. None of the three options will work so far as reducing the impact of coaching is concerned.
10. If a student has been screened based on ISEET, and allowed to sit for JEE in the year of passing 12<sup>th</sup> class, s/he should be allowed to sit in JEE in the next year without having to take ISEET again.

11. JEE is not doing a good job in selection of students. Students selected through an MCQ based test are not able to cope up with the curriculum. Changes in JEE are required, and a subjective examination should be included.
12. In JEE the morning session should have objective questions and evening session should have subjective questions. Subjective answers should be graded only for those students who have done well in the objective part. IITs should volunteer to conduct JEE in this fashion for all engineering colleges in the country. Scores in the morning part can be used by everyone for admission. The performance in the afternoon part will be used by IITs and by other CFTIs.
13. For eligibility to appear in ISEET board marks be considered.
14. ISEET performance will be considered for eligibility to appear in JEE, while JEE performance alone will be considered for ranking.

After every one had a chance to express his/her views, Chairman Senate summarized the discussion as hereunder:

The Chairman, Senate thanked the committee for its interim report.

"The feeling of the house is divided between Option 2 and 3. However, most of the Senators were in favour of option 3. In 2013, the JEE should be conducted in the same manner as at present. If the Government wants to conduct the single entrance test for 2013 then IIT Kanpur should be willing to help in the academic part. The Senators are requested to discuss among themselves and also with other faculty members for further suggestions. Further, an open house for students and an open house for faculty members be convened to obtain their views and suggestions. The final decision on the proposal to be sent to IIT Council shall be taken in the next Senate meeting, based on all the views and suggestions of all stake holders in these open houses. The date of the next Special Senate meeting will be announced in due course of time."

The meeting ended with vote of thanks to the Chair.

**Sd/-**  
**Sanjay G Dhande**  
**Director & Chairman Senate**

- Copy to:**
- 1) All members and Special Invitees of the Senate for their information, record and comment(s), if any.
  - 2) All faculty, who are not members of the Senate, for their information only.

  
**R K Sachan**  
**Acting Registrar & Secretary Senate**

**Meeting Held by Chairman IIT Council with Chairmen and Directors of IITs (Delhi, Bombay, Kharagpur, Kanpur, Madras, Guwahati, Roorkee)**

The meeting was convened at 11 AM on April 11, 2012. Chairman and Director of IIT Madras were not present. Chairmen of IIT Delhi, IIT Roorkee, and IIT Kharagpur were not present. Prof T Ramasami, Dr B K Gairola, Mr. Vineet Joshi were present. Also present were S(HE), SS(HE), JS(T) and supporting officers of IIT Council / MHRD.

The Chairman IIT Council (Minister HRD) welcomed all the members.

IIT Kanpur was called upon to explain the situation concerning the single test issue. Director, IIT Kanpur, presented the two resolutions passed by Senate of IIT Kanpur on April 10, 2012. He informed that the feelings amongst the senate members and faculty members are quite strong. It was felt that the process of consultation with Senate should be honored. It was also felt that the credibility of state Boards is not good. It was also felt that there are variations in the Ramasami committee report and the document issued later on. Director informed about the visit of the sub-committee and its report. He also indicated that the minutes of earlier meeting of Senate and student senate have been submitted to council secretariat.

Director IIT Bombay was asked to throw some light on the situation at IIT Bombay. Director IIT Delhi indicated that the senate of IIT Delhi has also passed a resolution. Director IIT Roorkee explained that the document was received recently there. The views of Ramasami committee were also heard. The Chairman clarified that no decision shall be taken unless all avenues of consultation are fully utilized. He, however, clarified that in the interest of Indian society, the government has full intentions of introducing a national test. The IITs joining the process or not will be decided only after all the views of senates are fully heard.

At the end, the schedule of afternoon meeting was announced. All Directors and Chairmen present along with members of the Ramasami Committee were requested to be present in the afternoon meeting.

INDIAN INSTITUTE OF TECHNOLOGY KANPUR  
ACADEMIC SECTION

To,  
The Director  
IIT Kanpur

Secretary Senate

Date: - 17-04-2011<sup>12</sup>

Kindly put up for consideration  
of Senate. Shande

17-4-12

Dear Sir,

Please find attached an interim report of the committee that was setup to suggest changes to the current JEE system.

With kind regards,

Dheeraj Sanghi  
Dheeraj Sanghi

DOAA 4

Encls: - As above (4 pages)



### **Options for UG admissions**

The committee appointed by Chairman, Senate, to come up with a proposal for JEE reform has met on April 16, 2012, in light of the new developments, whereby each Senate is expected to send a proposal to IIT Council by 10<sup>th</sup> May. Earlier, some email discussions also took place.

The committee notes that the Ramasami Committee Report and other documents available to us provide primarily three prime movers for change:

1. Reduce the impact of coaching on admissions
2. Take the school board performance into account, which will improve the school education in the country.
3. Reduce the number of exams that a student has to take in the country.

The views expressed by Senators in the Special Meeting of Senate held on 15<sup>th</sup> February indicate that the Ramasami Committee proposals are not going to make any significant impact on any of the three goals, and it is debatable whether the 3<sup>rd</sup> should be a goal at all.

Hence, any proposal that Senate considers should have the goal of improving the quality of student intake to the under-graduate programs. Second, we should continue to participate in the joint admissions process, along with other IITs. And hence some coordination should be there with Senates of other IITs. For this purpose the decision of the Senate should provide adequate flexibility to its representatives to the special meeting of IIT Council.

In this document, we wish to outline various options that are available with us. The committee, at this stage, requests Senate for guidance as to what option(s) we may develop further for its consideration.

In this document, ISEET refers to the examination that MHRD has proposed as a single admission test for all engineering and science institutes in the country, and JEE refers to the examination that IITs conduct for their own admission. It may be noted that the immediate concern is that of making use of ISEET in our admission process in some way (or in no way at all). Hence, changes to JEE are not suggested in detail. Also, it may be noted that in view of several unknowns regarding ISEET, and insufficient data, we may propose a limited change for 2013 admissions, and continuously evaluate our options in future.

All the options can be broadly classified into three groups. These three classes are:

1. Exclusive use of ISEET for admission.
2. Exclusive use of JEE for admission.
3. Combined use of ISEET and JEE for admission.

Below we indicate various options in each of these classes.

**Exclusive use of ISEET for admission:**

Within this class, a large number of options are available based on decisions taken on the following issues:

1. How the three components, that is, marks in 12<sup>th</sup> class boards, morning paper, and afternoon paper, is to be combined.
2. In particular, would 12<sup>th</sup> class board marks be considered for ranking of candidates? Would 12<sup>th</sup> class board marks be considered for eligibility?
3. In either case, what is a good way of normalization of 12<sup>th</sup> class marks across all boards?
4. What would be tested in the morning and evening papers?
5. Should there be an Aptitude test? If yes, what is the nature of that test?
6. What would be the curriculum for Physics, Chemistry and Mathematics in this test?
7. What should be the role of IIT system in academic part of this test?
8. What should be the role of IIT system in conduct and other matters related to this test?

Answers to these and other issues would result in a large number of options in front of us.

**Exclusive use of JEE for admission:**

This class is for maintaining the status quo for the time being, and considers any change only for the 2014 admission and beyond. Within this class, a few options exist:

1. Changes to JEE is a continuous process and a process internal to the IIT system. These are not to be communicated to IIT Council on 10<sup>th</sup> May, and hence not an urgent issue as of now. If this class is adopted by Senate, then the committee will continue its work beyond 10<sup>th</sup> May to make suggestions on the changes that can be incorporated in JEE-2013.
2. One change that we may consider now and communicate to IIT Council is regarding the eligibility based on 12<sup>th</sup> class board marks. Currently, that eligibility stands at 60 percent and 55 percent, depending on the category of the student. Senate may consider suggesting that the eligibility condition be made higher, and be based on a normalized score (like percentile). To the extent a higher focus on 12<sup>th</sup> class board performance will impact school education, increasing the eligibility condition in this way will have the same impact (though perhaps to a different degree). However, this should be considered only if we can get complete data from all boards in 2012, which enables us to study the normalized marks of all JEE selected candidates in 2012. If such data can not be made available in 2012, then this change should not be considered for 2013.

**Combined use of ISEET and JEE for admission:**

Within this class, two orthogonal decisions need to be taken. One is whether to use both ISEET and JEE performance for ranking, or use ISEET as a screening examination only, and use only JEE performance for ranking purposes. The second decision is whether all candidates interested in IITs sit for JEE or only a limited number of candidates are allowed in JEE.

Use of ISEET for admission in any way will require discussion and decision on all the issues mentioned above for the case when only ISEET was to be used for admission. However, if ISEET is to be used only for screening and not for ranking, a lot more flexibility may be there in those decisions.

The options are:

1. Everyone interested in IIT admission gives both ISEET and JEE. The performance in both the exams is combined in some way to come up with the final merit list.
2. Everyone interested in IIT admission gives ISEET. The top 50,000 (or any such number) candidates are allowed in a subsequent JEE. The ranking is based on performance in JEE alone. Note that if JEE is only for a small number of candidates then it opens up a lot of options for improvement, including a long-answer type exam.
3. Everyone interested in IIT admission gives ISEET. The top 50,000 (or any such number) candidates are allowed in a subsequent JEE. The ranking is based on some combination of performance in both the exams.
4. Everyone interested in IIT admission gives both ISEET and JEE. However, ISEET performance is only considered for eligibility, while JEE performance is considered for ranking. The reason for considering this option (as opposed to 2) is because the timelines for various exams and options may leave option 2 as unviable.

If we consider the timeline of ISEET, we find that in 2013, ISEET is tentatively scheduled for 7<sup>th</sup> April, with the result being announced on 2<sup>nd</sup> June. If ISEET is to be considered for screening and only top 50,000 candidates were to give JEE, then the entire admission process gets delayed substantially, and hence it is not a practical option.

However, there are two solutions to this problem.

If we look into the reasons for result declaration on 2<sup>nd</sup> June, it is because ISEET result will contain the percentile score of the candidate in the 12<sup>th</sup> class board exam. Currently, the board results are required to be announced by 30<sup>th</sup> June, but the expectation is that from 2013, all boards will be required to announce their results by 31<sup>st</sup> May. If that happens, then the ISEET result can be announced on 2<sup>nd</sup> June.


One solution to the delay is that we ask the organizers of ISEET that they should announce the results of their exam by 1<sup>st</sup> May, share that result with JEE, and may announce the final result (including board marks) on 2<sup>nd</sup> June. In such a situation, only ISEET exam marks will be used for screening. JEE can be conducted around 15<sup>th</sup> May, and the result can be announced around 5<sup>th</sup> June. The board marks can be considered for eligibility later on (like JEE does currently), and one could consider percentile scores instead of percent marks, as explained in the discussion on "exclusive use of JEE for admission."

The other solution is to ask everyone interested in IIT admission to sit for JEE. However, copies of only those students will be graded (after 2<sup>nd</sup> June), who are in the top 50,000 in ISEET (including consideration of board marks).

It may be noted that this class of option requires strict adherence of timelines by ISEET. If JEE is to be conducted based on the assumption that ISEET will declare the result of its own test by a certain date in early May, it may be viable based on the track record of AIEEE and other entrance tests conducted by various agencies in the country. However, the assumption that all boards in the country will declare their results by May 31<sup>st</sup>, is an untested assumption. Hence Senate may consider choosing one option for 2013, and express willingness to consider other options for 2014.

Also note that if the Senate decides on option 2 in this class of options, it is possible that the organizers of ISEET may not commit to announcing the results of their exam by 1<sup>st</sup> week of May. To consider that eventuality, Senate should also have an alternate option for 2013 undergraduate admissions.

At the end, we would like to state that many senators may find one or more of the options presented here to be "obviously" wrong, and not worthy of being considered by Senate. Individual members of the committee also have felt the same way. However, collectively, we felt that we should present the whole bouquet of options at this stage, for an open minded discussion. We do have enough time to take into account the views of Senators and other stake holders and present a more concrete proposal in the next Senate meeting.

  
(Dheeraj Sanghi)

17.4.2012