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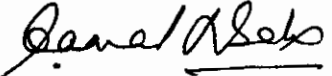
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Government of India
Ministry of Human Resource Development
Department of Higher Education
Technical Section – I

Shastri Bhawan, New Delhi,
Dated 6th June, 2012

**Subject : Minutes of the Joint Meeting of Councils of IITs, NITs and IIITs
held on 28th May, 2012 at Vigyan Bhavan, New Delhi**

The Minutes of the Joint Meeting of Councils of IITs, NITs and IIITs, held under the Chairmanship of Shri Kapil Sibal, Hon'ble Minister for Human Resource Development, on Monday, the 28th May, 2012 at Vigyan Bhavan, New Delhi, are forwarded herewith for information and necessary action.

Encl. : as above


(Kamal R. Saha)

Under Secretary to the Govt. of India

All the Members of Council of IITs, NITs and IIITs

Minutes of the Joint Meeting of Councils of IITs, NITs and IIITs held under the Chairmanship of Shri Kapil Sibal, Hon'ble Minister for Human Resource Development on Monday, 28th May, 2012 at Vigyan Bhavan, New Delhi

The Chairman, IIT and NIT Councils welcomed all the participants (**Annexure-I**).

2. At the outset, the Joint Secretary, Technical Education brought out in detail as to how the proposed reforms in admission to undergraduate engineering programmes in the country has been under consideration of the Government over the two and half years. It was pointed out that 'in-principle' approval to the proposed Common Entrance Examination, with weightage to State Board results normalized on the basis of percentile formula, as recommended by the Ramasami Committee, was accorded by the IIT Council on 14th September, 2011. The same was also endorsed by the IIITs and the Council of NITs on 14.11.2011 and 18.11.2011, respectively. The proposal was further considered and endorsed 'in-principle' by the State Education Ministers in the Conference held on 22.2.2012.

3. It was explained by JS(TE) that the Government has also been in touch with IITs to understand and appreciate their views on the subject. Apart from constituting a Core Committee of senior academics who interacted with the faculties of some of the IITs, the Chairman of the IIT Council held meetings with the Chairmen, Board of Governors and Directors of IITs on April, 11, 2012. A meeting was also held with the All India IIT Faculty Federation on the same day. In view of the reservations expressed by the Federation, it was decided that the proposed reforms be discussed by the Senates of IITs which could thereafter be taken into consideration by the Council of IITs before arriving at a decision. The IIT Council in its meeting held on 12th May, 2012 considered the recommendations of the IIT Senates and deliberated in considerable detail various alternatives. There was unanimity that to strengthen school system it was necessary to accord due weightage to the performance of the students in class XII board examination. The concerns of the IIT fraternity were also sought to be addressed.

4. Based on the consensus that emerged in the aforesaid Council meeting, a detailed proposal for implementation of the admission procedure to be adopted by the Centrally Funded Technical Institutions (CFTIs), including IITs, as also by the States and

other institutions wanting to be part of the JEE was placed before the joint meeting for consideration. A copy of the said note is at **Annexure-II**. The broad contours of which were approved and authorised Chairman, IIT Council to effect changes if any required. Prof. Sanjay Dhande, Director, IIT Kanpur made a detailed power point presentation on the subject, highlighting the various stages of the evolution of the proposal, the rationale, eligibility criteria, the mythology of selection and governance structure that were proposed to be put in place. This was followed by an open house discussion.

5. The Joint Councils of IITs, NITs & IIITs considered various views that had emerged during the process of consultations. A strong body of opinion amongst the members of the Council was that the importance of the schooling system has to be revived in the larger public interest by giving due weightage to the performance of students in the Class XII Board examinations and at the same time maintaining the credibility and integrity of admissions to higher educational institutions. After detailed deliberations following unanimous consensus emerged:-

(i) A Joint Entrance Examination for admission to the undergraduate programmes in engineering would be conducted in two parts, JEE-MAIN and JEE-ADVANCED.

(ii) The Class XII Board/equivalent marks normalized on percentile basis through an appropriate formula plus the marks obtained in the JEE-MAIN examination, with equal weightage, would be used by IITs for purposes of gating/screening. Only a fixed number of candidates (five times the number of the seats for admission in the IIT system or a pre-fixed cut-off) screened on the basis of merit assessed on the basis of cumulative score of normalized School Board marks and performance in JEE-MAIN examination would be eligible to be considered for admission. The ranking for admission to undergraduate programmes in IITs would be based entirely on the performance in the JEE-ADVANCED examination from amongst the candidates screened through this process.

(iii) For all other Centrally Funded Institutions, there would be 40% weightage for performance in Class XII Board marks normalized on percentile basis through

an appropriate formula, 30% weightage for performance in JEE-MAIN and 30% weightage in JEE-ADVANCED and a combined merit decided accordingly.

(iv) JEE-MAIN tests shall be multiple choice objective type paper whereas the nature and modalities of the JEE-ADVANCED shall be determined by the Joint Admission Board of IITs.

(v) The proposed changes will be effective from the year 2013 and both CFTIs and CBSE would work jointly to facilitate implementations.

(vi) The Joint Admission Board (JAB) of the IIT system would have complete control on matters such as paper setting, evaluation and preparation of the merit list, etc. over the JEE-ADVANCED and CBSE would provide the administrative support for conduct of the examination. For the conduct of the JEE-MAIN examination an expanded Joint Admission Board shall be constituted including the NIT system, other CFTIs and State Government representatives in an appropriate manner. CBSE will provide the administrative and logistic support for the conduct of JEE-MAIN examination across the country.

(vii) The process of establishing co-ordination between COBSE & JAB-IITs for implementation of the core curriculum in sciences and maths across the CBSE, ICSE and State Boards shall be put in place immediately.

(viii) Those students who have appeared in the Class XII Board examinations in 2012 and wish to improve upon their performance can appear again for the Board examinations in 2013. CBSE and State Boards would make appropriate arrangements to facilitate this through a special dispensation.

(ix) The transparency processes established by the IIT system presently and in AIEEE-2012 shall be adopted for the JEE-MAIN and JEE-ADVANCED too.

6. It was noted that a meeting of State Education Ministers' is scheduled to be held on 5th June where the participation of States in the common national test process would be deliberated upon. States would have the freedom to join in the process and have the autonomy to determine their own relative weightages to normalized Class XII Board marks, performance in JEE-MAIN and JEE-ADVANCED.

The meeting ended with a vote of thanks to the Chair.

LIST OF PARTICIPANTS

Joint Meeting of the Councils of IITs and NITs held on 28.05.2012 at Vigyan Bhawan, New Delhi.

Sl. No.	Name	Sl. No.	Name
1.	SHRI KAPIL SIBAL, Minister for Human Resource Development Chairman, Council of IITs & NITs		Chairman, AICTE
2.	SHRI ASHOK THAKUR Secretary (Higher Education) Ministry of HRD	14.	DR. R.A. MASHELKAR CSIR Bhatnagar Fellow National Chemical Laboratory, Dr. Homi Bhabha Road, Pune
3.	SHRI A.N. JHA Joint Secretary & Financial Adviser Ministry of HRD	15.	PROF. P.N. SINGH Chairman, Board of Governors, National Institute of Technology, Agartala
4.	SHRI R.D. SAHAY Joint Secretary Ministry of HRD	16.	PROF. G.K. MEHTA Chairman, Board of Governors Maulana Azad National Institute of Technology, Bhopal
5.	MS. MAMTA VERMA, Director (Media), Ministry of HRD	17.	DR. K.K. AGGARWAL Chairman, Board of Governors Malaviya National Institute of Technology, Jaipur
6.	SHRI DEEPENDER SINGH HOODA, Hon'ble Member of Parliament Lok Sabha, 9, Pandit Pant Marg, New Delhi	18.	DR. ANIL KAKODKAR Chairman, Board of Governors Dr. B.R. Ambedkar National Institute of Technology, Jalandhar
7.	SMT. VASANTHI STANLEY, Hon'ble Member of Parliament Rajya Sabha, 106, South Avenue, New Delhi	19.	PROF. S.K. JOSHI Chairman, Board of Governors Visvesvaraya National Institute of Technology, Nagpur
8.	SHRI SANJAY DHOTRE Member of Parliament Lok Sabha	20.	PROF. ASIS DATTA Chairman, Board of Governors National Institute of Technology, Silchar
9.	SHRI J. SATYANARAYANA, Secretary, Department of IT, Ministry of Communication & Information Technology	21.	PROF. B.L. DEEKSHATULU Chairman, Board of Governors National Institute of Technology, Warangal
10.	Dr. Ajay Kumar, Joint Secretary, Deptt. of Electronics & Information Technology	22.	PROF. D.K. BASU Chairman, Board of Governors National Institute of Technology, Meghalaya
11.	DR. SAMIR K. BRAHMACHARI Director General Council of Scientific & Industrial Research (CSIR)	23.	SHRI SUMIT BOSE, Secretary (Expenditure), Ministry of Finance
12.	PROF. VED PRAKASH Chairman, UGC	24.	Prof. C. S. Sheshadri, Director,
13.	DR. S.S. MANTHA		

Sl. No.	Name
	Chennai Mathematics Institute
25.	Dr. Ajay Kumar, Joint Secretary, Deptt. of Electronics & IT
26.	PROF. SABYASACHI BHATTACHARYA Ex-Director, Tata Institute of Fundamental Research (TIFR)
27.	SHRI ANALJIT SINGH, Chairman, Board of Governors, Indian Institute of Technology, Roorkee Chairman, Max India Ltd.
28.	SHRI M.M. SHARMA, Chairman, BoG, Indian Institute of Technology, Madras
29.	DR. T. RAMASAMI, Chairman, Board of Governors, Indian Institute of Technology, Ropar
30.	SHRI S.V. RAGHAVAN, Chairman, Board of Governors, PDPM-IIITD&M, Jabalpur
31.	DR. B.K. GAIROLA, Director General, NIC,
32.	SHRI VINEET JOSHI, Chairman, CBSE
33.	PROF. DEVANG V. KHAKHAR, Director, Indian Institute of Technology, Bombay
34.	PROF. R.K. SHEVGAONKAR, Director, Indian Institute of Technology, Delhi
35.	PROF. S.G. DHANDE, Director, Indian Institute of Technology, Kanpur
36.	PROF. DAMODAR ACHARYA, Director, Indian Institute of Technology, Kharagpur,
37.	PROF. BHASKAR RAMAMURTHI, Director, Indian Institute of Technology, Madras.
38.	PROF. GAUTAM BARUA, Director, Indian Institute of Technology, Guwahati,
39.	Prof. Pradipta Banerji, Director,

Sl. No.	Name
	Indian Institute of Technology, Roorkee
40.	PROF. PREM KUMAR KALRA, Director, Indian Institute of Technology, Jodhpur.
41.	Prof. Amit Prashant, Associate Dean, Indian Institute of Technology, Gandhinagar.
42.	PROF. ANIL K. BHOWMICK, Director, Indian Institute of Technology, Patna.
43.	PROF U.B. DESAI, Director, Indian Institute of Technology, Hyderabad.
44.	PROF. TIMOTHY GONSALVES, Director, Indian Institute of Technology, Mandi.
45.	PROF. PRADEEP MATHUR, Director, Indian Institute of Technology, Indore.
46.	DR. M. D. TIWARI, Director, Indian Institute of Information Technology, Allahabad.
47.	PROF. S. G. DESHMUKH, Director, ABV- Indian Institute of Information Technology & Management, Gwalior
48.	PROF. (MS.) APARAJITA OJHA, Director, PDPM - Indian Institute of Information Technology Design & Manufacturing – Jabalpur.
49.	PROF. R. GNANAMOORTY, Director, Indian Institute of Information Technology Design & Manufacturing (IIITD&M), Kancheepuram.
50.	DR. C.T. BHUNIA Director National Institute of Technology, Arunachal Pradesh
51.	PROF. P.K. BOSE Director National Institute of Technology, Agartala
52.	DR. APPU KUTTAN K.K.

Sl. No.	Name
	Director Maulana Azad National Institute of Technology, Bhopal
53.	DR. M.N. BANDYOPADHYAY Director National Institute of Technology, Calicut
54.	PROF. TARKESHWAR KUMAR Director National Institute of Technology, Durgapur
55.	PROF. RAJNISH SHRIVASTAVA Director National Institute of Tech., Hamirpur
56.	Prof. Rohit Goyal, Dean (Academic), Malaviya National Institute of Technology, Jaipur
57.	DR. SAMIR KUMAR DAS Director Dr. B.R. Ambedkar National Institute of Technology, Jalandhar
58.	DR. ANAND MOHAN Director National Institute of Technology, Kurukshetra
59.	DR. S.S. GOKHALE Director Visvesvaraya National Institute of Technology, Nagpur
60.	PROF. SUNIL KUMAR SARANGI Director National Institute of Technology, Rourkela
61.	DR. N.V. DESHPANDE Director National Institute of Technology, Silchar
62.	PROF. RAJAT GUPTA Director National Institute of Technology, Srinagar
63.	DR. S. SUNDARRAJAN

Sl. No.	Name
	Director, National Institute of Technology, Tiruchirappalli
64.	PROF. T. SRINIVASA RAO Director National Institute of Technology, Warangal
65.	PROF. SANDEEP SANCHETI Director National Institute of Technology, Delhi
66.	DR. A.B. SAMADDAR Director National Institute of Technology, Sikkim
67.	PROF. H.T. THORAT Director National Institute of Technology, Silchar
68.	PROF. DILIP KUMAR SAIKIA Director National Institute of Technology, Meghalaya
69.	DR. (MRS.) S.K. PANDEY Director National Institute of Technology, Puducherry
70.	DR. V. RAMACHANDRAN Director National Institute of Technology, Nagaland
71.	PROF. U.C. RAY Director National Institute of Technology, Mizoram
72.	Prof. G. R. C. Reddy, Director, National Institute of Technology, Goa

Procedure for implementation of the Joint Entrance Examination

The Joint Entrance Examination for admission to undergraduate programmes in engineering would be conducted in two parts, JEE-MAIN and JEE-ADVANCE to be held on the same day. The first MAIN paper – usually scheduled in the morning hours – will be an examination of 180 minutes. The main objective of the first paper will be test the foundational understanding of the candidate in Physics, Chemistry and Mathematics as learnt in the 10+2 years. The second paper ADVANCE in the afternoon will also be a paper of 180 minutes duration. It will have the same syllabus as the MAIN paper. The questions will test the problem-solving abilities of students besides the skills of problem formulation and incisive thinking. The syllabus for the MAIN and ADVANCE test will, however, be the same and this common syllabus will be prescribed by the Academic Group of the JEE each year.

2. The School Board marks normalized on percentile basis plus the marks obtained in the JEE-MAIN examination, with equal weightage, would be used by IITs for purposes of gating/screening. Only a fixed number of candidates (five times the number of the seats for admission in the IIT system) screened on the basis of merit assessed on the basis of cumulative score of normalized School Board marks and performance in JEE-MAIN examination would be eligible to be considered for admission.

3. **Language of the Question Papers**

Candidates can opt for question papers either in English or in Hindi .The option has to be exercised while filling Application Form. It cannot be changed later. However, those candidates who will opt question paper medium as Hindi, Bilingual question papers both in Hindi & English will be provided to them for offline testing. The examination shall also be conducted in a State's language, if the State participates in JEE, in respect of the

candidates who are bonafide residents of that state (pursuing/ pursued class XII or equivalent class from that State) and have opted for the State language.

4. **Eligibility Criteria :** The minimum academic qualification for appearing in JEE 2013 is that the candidate must have passed in final examination of 10+2 (Class XII) or its equivalent referred to as the qualifying examination Those appearing in 10+2 (Class XII) final or equivalent examination in 2013 may also appear in JEE 2013 provisionally.

5. **Board Marks -** The JEE result will specify the Board Marks. The percentile rank of a student in the Board, he or she appears in, will be the marks out of hundred for the Board marks component. The rank should be given up to 9 decimal places to enable tie breaking. The formula to be used for the percentile rank is to be

$$(c\ell + 0.5fi)/N * 100$$

where $c\ell$ is the count of all scores less than the score of interest, fi is the frequency of the score of interest (the number of students with the same score), and N is the number of examinees in the sample.

The percentile rank of students are to be based on the scores obtained from adding the marks obtained in the Board examination in the following subjects: a) Physics, b) Chemistry, c) Mathematics, d) one language subject, e) best subject among the electives taken by the student.

6. **Application Forms –** Candidates will submit common application form for a) taking the JEE and b) for admission to the participating CFTIs and other institutions. Application will result in allotment of a reference JEE number. After obtaining this number, a candidate has to apply for counseling/admission in specific participating CFTIs/ other participating technical institutions quoting this number. This will enable the linkage between applications.

7. **Ranking for IITs -** The ranking for admission to undergraduate programmes in IITs would be based entirely on the performance in the JEE-ADVANCED examination from amongst the candidates screened through the process outlined in para 2 above.

8. **CFTI Rank Assignment -** In addition to the marks in the three components, a CFTI Rank will also be provided to each candidate. The rank will be determined by using the following weightages: Board marks – 40%, Main Test – 30%, Advance Test – 30%. The tie of marks, if any, amongst the candidates would be resolved through an appropriate rule framed in this regard.

9. **Other Participating Institutions –** It would be open to the States and other participating institutions to use the results of JEE and to adopt the same pattern of admission, with appropriate weightage for State Board results, normalized on the basis of percentile formula, which would not be less than 40% (and could go even up to 100%) and the JEE scores for the Main Test. (The Advance Test score could also be added if the Institute so wishes like the CFTIs). The medium of question paper will also be as per the participating State's request, in addition to Hindi & English.

10. **JEE Apex Board (JAB):** In order to conduct the examination of a large number of students in an efficient manner, an apex body called JEE Apex Board will be constituted, comprising of representative Directors of IITs, NITs, a Director of IIIT, Chairpersons of UGC, AICTE and CBSE and a nominee of MHRD, after due notification by the Ministry of HRD after the adoption of the same by the Councils of IITs, NITs and competent authorities of other CFTIs. The Board will have an eminent academician as Honorary Chairperson and a full time Executive Director who will be responsible for smooth conduct of the JEE. This Board would act as a permanent secretariat which will coordinate the activities of the JEE Academic Group, JEE Delivery Group and JEE Interface Group which would be constituted every year by the JAB. The JAB will have the final authority for setting up the policies, rules, regulations of conducting the JEE. It is proposed that the permanent secretariat to the JAB will be provided by the CBSE by using the existing infrastructure/ manpower of the AIEEE with a small number of post

creations, as per the need. This secretariat will be responsible for serving the JAB as well as other Groups created for the purpose. This will also be responsible for Administration, Finance, Court Cases, RTI, etc.

11. **JEE Academic Group:** The activities of paper setting of MAIN and ADVANCE for JEE 2013 are academic exercises. Hence, a group of specialists primarily from the IITs headed by Convener (Academic) will be constituted. This group is called JEE Academic Group (JAG). The Group will have two sub-groups – one for MAIN and the other for ADVANCE.

12. **JEE Delivery Group:** The delivery processes such as collection of application forms, collection of fees, coordination with zonal offices, delivery of test papers etc will be the responsibility of JEE Delivery Group (JDG). It will be headed by Convener (Examination).

13. **JEE Interface Group:** The coordination with school boards, the handling of several legal issues, ensuring strict security of the organization and evaluating the school board performance of students in a normalized manner shall be handled by a group – JEE Interface Group (JIG). The implementation of arriving at the normalized school performance shall be coordinated by JEE Interface Group. It will be headed by Convener (Interface).

14. The detailed Terms of Reference and composition of the JAB, JEE Academic Group, JEE Delivery Group and JEE Interface Group would be notified by the Ministry of Human Resource Development.

15. The JEE test will be conducted at least twice in a year so that students who wish to attempt more than once can be allowed to do so in a year. The first JEE will be held in April, 2013 and the second JEE examination will be held in November/December, 2013. The third JEE will be held in April, 2014.