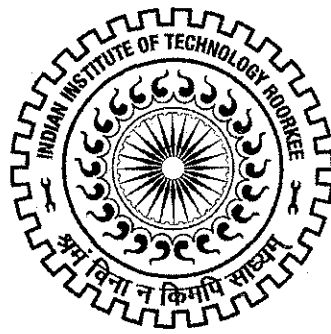


सीनेट की 52^{वीं} बैठक का कार्यवृत्त
MINUTES OF THE 52ND MEETING OF THE SENATE

12 नवम्बर 2013
12TH NOVEMBER 2013



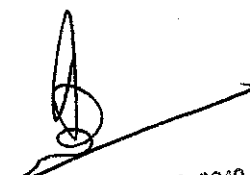
भारतीय प्रौद्योगिकी संस्थान रुड़की
रुड़की – 247 667 (भारत)
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
ROORKEE – 247 667 (INDIA)

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
ROORKEE-247 667 (INDIA)

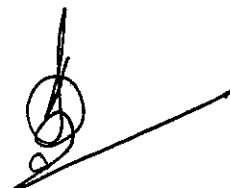


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MEETING SECTION

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE



Minutes of the 52nd Meeting of the Senate held on 12.11.2013 in the Senate Hall of the Institute.

Following were present:

- | | | |
|-----|-----------------------------|----------------------------------|
| 1. | Prof. Pradipta Banerji | Director & Chairman |
| 2. | Prof. (Mrs.) Pushplata | (Architecture & Planning) |
| 3. | Prof. R.P.Singh | (Biotechnology) |
| 4. | Prof. I.M.Mishra | (Chemical Engineering) |
| 5. | Prof. Bikash Mohanty | (Chemical Engineering) |
| 6. | Prof. Vijay Kumar Agarwal | (Chemical Engineering) |
| 7. | Prof. R.N.Goyal | (Chemistry) |
| 8. | Prof. Ravi Bhushan | (Chemistry) |
| 9. | Prof. (Mrs.) Mala Nath | (Chemistry) |
| 10. | Prof. A.K.Singh | (Chemistry) |
| 11. | Prof. M.R. Maurya | (Chemistry) |
| 12. | Prof. S.S. Jain | (Civil Engineering) |
| 13. | Prof. Deepak Kashyap | (Civil Engineering) |
| 14. | Prof. P. K.Garg | (Civil Engineering) |
| 15. | Prof. Satish Chandra | (Civil Engineering) |
| 16. | Prof. Praveen Kumar | (Civil Engineering) |
| 17. | Prof. Akhil Upadhyay | (Civil Engineering) |
| 18. | Prof. Z. Ahmad | (Civil Engineering) |
| 19. | Prof. Padam Kumar | (Computer Science & Engineering) |
| 20. | Prof. Ashwani Kumar | (Earthquake Engineering) |
| 21. | Prof. (Mrs) Amita Sivhal | (Earthquake Engineering) |
| 22. | Prof. M.L.Sharma | (Earthquake Engineering) |
| 23. | Prof. Amita Sinvhal | (Earthquake Engineering) |
| 24. | Prof. Yogendra Singh | (Earthquake Engineering) |
| 25. | Prof. D.K.Mukhopadhyay | (Earth Sciences) |
| 26. | Prof. A.K. Saraf | (Earth Sciences) |
| 27. | Prof. R.G. S.Sastry | (Earth Sciences) |
| 28. | Prof. (Mrs.) S.Mukhopadhyay | (Earth Sciences) |
| 29. | Prof. Sandeep Singh | (Earth Sciences) |
| 30. | Prof. Vinod Kumar | (Electrical Engineering) |
| 31. | Prof. Pramod Agarwal | (Electrical Engineering) |
| 32. | Prof. S.P.Singh | (Electrical Engineering) |


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- | | | |
|-----|---|-------------------------------------|
| 33. | Prof. R.P.Maheshwari | (Electrical Engineering) |
| 34. | Prof. S.P.Srivastava | (Electrical Engineering) |
| 35. | Prof. R.S.Anand | (Electrical Engineering) |
| 36. | Prof. M.J. Nigam | (Electronics & Communication Engg.) |
| 37. | Prof.M.V.Kartikeyan | (Electronics & Communication Engg.) |
| 38. | Prof. Dharmendra Singh | (Electronics & Communication Engg.) |
| 39. | Prof. M.Perumal | (Hydrology) |
| 40. | Prof. P.Jha | (Humanities & Social Sciences) |
| 41. | Prof. D.K.Nauriyal | (Humanities & Social Sciences) |
| 42. | Prof. S.P.Singh | (Humanities & Social Sciences) |
| 43. | Prof. Satish Kumar | (Paper Technology) |
| 44. | Prof. S.P. Singh | (Paper Technology) |
| 45. | Prof. Y.S. Negi | (Paper Technology) |
| 46. | Prof. Dharam Dutt | (Paper Technology) |
| 47. | Prof. (Mrs.) Rama Bhargava | (Mathematics) |
| 48. | Prof. R.C.Mittal | (Mathematics) |
| 49. | Prof. P.N.Agarwal | (Mathematics) |
| 50. | Prof. Kusum Deep | (Mathematics) |
| 51. | Prof. Satish C. Sharma | (Mechanical & Industrial Engg.) |
| 52. | Prof. P.K. Jain | (Mechanical & Industrial Engg.) |
| 53. | Prof. Dinesh Kumar | (Mechanical & Industrial Engg.) |
| 54. | Prof. Akhilesh Gupta | (Mechanical & Industrial Engg.) |
| 55. | Prof. B.K. Gandhi | (Mechanical & Industrial Engg.) |
| 56. | Prof. B.K.Mishra | (Mechanical & Industrial Engg.) |
| 57. | Prof. R.P.Gakkhar | (Mechanical & Industrial Engg.) |
| 58. | Prof. P.K.Ghosh | (Metallurgical & Materials Engg.) |
| 59. | Prof. S.K. Nath | (Metallurgical & Materials Engg.) |
| 60. | Prof. Anjan Sil | (Metallurgical & Materials Engg.) |
| 61. | Prof. A.K. Jain | (Physics) |
| 62. | Prof. Rajesh Srivastava | (Physics) |
| 63. | Prof. M.L.Kansal | (WRD&M) |
| 64. | Prof. Deepak Khare | (WRD&M) |
| 65. | Dr. S.N.Rangnekar, Head, Department of Management Studies. | |
| 66. | Dr. C.B.Majumdar, Associate Dean, SRIC | |
| 67. | Dr. P.Jeevandam, Associate Dean of Students' Welfare (Foreign Students) | |
| 68. | Dr. Apurbba Kumar Sharma, Associate Dean (Academic Studies) | |
| 69. | Dr. R.K.Peddinti, Associate Dean (Academic Research) | |
| 70. | Dr. Yogendra Singh, Librarian, Central Library | |
| 71. | Dr. R.D.Garg, Associate Professor, Department of Civil Engineering and Chief Warden, Jawahar Bhawan | |
| 72. | Dr. (Ms) D.K.Dwivedi, Associate Professor, Department of Mechanical & Industrial Engineering | |
| 73. | Dr. Vikas Pruthi, Associate Professor, Department of Biotechnology | |
| 74. | Mr. Prashant Garg, Officiating Registrar & Secretary, Senate | |



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The Chairman (Director) welcomed the members to the 52nd Meeting of the Senate.

The Senate noted the communications received from the following members for not attending the current meeting.

1. Prof. S.K. Ghosh, Department of Civil Engineering
2. Prof. Anil Kumar, Department of Chemistry
3. Prof. A.K. Sen, Department of Earth Sciences

The Agenda was then taken up:

Item No. 52.1: To confirm the minutes of the 49th, 50th and 51st meetings held on 15.07.2013, 26.07.2013 and 11.09.2013 of the Senate, respectively.

The minutes of the 49th meeting of the Senate held on 15.07.2013, 50th meeting of the Senate held on 26.07.2013 and 51st meeting of the Senate held on 11.09.2013 were confirmed with following minor changes in two items:

Item No. 49.10: Subject Code be read as

EE-101: Introduction to Electrical Engineering

EE-103: Programming in C++

Item No. 51.2: The Senate approved the General Guidelines for the award of Grades. One possible set of boundaries for Z variate is mentioned in the following table:

Table: One possible set of boundaries for Z variate.

Lower Range of Z	Grade	Upper Range of Z
> 1.5	A+	
> 1.0	A	≤ 1.5
> 0.5	B+	≤ 1.0
> 0.0	B	≤ 0.5
> -0.5	C+	≤ 0.0
> -1.0	C	≤ -0.5
> -1.5	D	≤ -1.0
	F	≤ -1.5


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where, $Z = \frac{X - \bar{X}}{\sigma}$
 X = Marks obtained by a student
 \bar{X} = Mean
 σ = Standard deviation

However, each course coordinator, in consultation with the Grade Moderation Committee, may decide a suitable set of boundaries for a particular course for the award of grades.

Item No. 52.2: To receive a report on the actions taken to implement the decisions of the Senate in its 49th meeting held on 15.07.2013, 50th meeting held on 26.07.2013 and 51st meeting held on 11.09. 2013 , respectively.

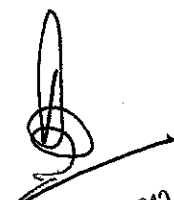
The Senate noted the actions taken on the resolutions of the 49th meeting held on 15.07.2013, 50th meeting held on 26.07.2013 and 51st meeting held on 11.09. 2013 , respectively.

Item No. 52.3: To report the Programme Electives for Second Semester of M.Tech. (Infrastructure Systems) in the Centre of Transportation Systems (CTRANS).

The Senate noted the action taken on Programme Electives for Second Semester of M.Tech. (Infrastructure Systems) in the Centre of Transportation Systems. Further, the Senate decided that already approved course(s) should not be presented again for approval (e.g.) MI-585(Supply Chain Management) and only new course(s) be presented for consideration of Senate.

Item No. 52.4: To consider recognition of ISRO Satellite Centre, Bangalore as a Research Centre for pursuing Ph.D. Programmes for its employees as a part time candidate at IIT Roorkee.

The Senate approved the ISRO Satellite Centre, Bangalore as a recognized Research Centre for pursuing Ph.D. programmes for its employees as a part-time candidate at IIT Roorkee.



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Arising out of deliberations, it is also decided that in addition, all other institutions which have significant research component, such as all research Laboratories under CSIR, DRDO, DST, DBT, DAE, ICAR and ICSSR can be taken as outside Research Centres for part-time Ph.D. Programme for registering at I.I.T. Roorkee. In such cases one of the supervisors of the candidate should be from the institution of his/her affiliation and the supervisor must possess a doctoral degree. However, the Committee constituted to consider and recommend recognition of outside Research Centres will use all its diligence and follow the laid down process. The Director as Chairman, Senate, has been authorised to grant approval in this regard on case to case basis.

Item No.52.5: To consider redefining the functions of Institute Academic Programme Committee and to replace of the words “Dean, Academic Studies” and “Dean, Academic Research” with “Dean, Academics” wherever appearing in the regulations in various constituted Committees.

The Senate discussed and approved the proposal. Further, decided that on account of these changes, the whole Senate Manual be looked into for appropriate changes, that should be placed in Senate for approval.

Item No. 52.6: To consider the following courses to be included in the various programmes:

- 1) **Seven Pre-Ph.D. courses proposed by the Department of Applied Science and Engg.**
- 2) **Nine Courses proposed by the Department of Earthquake Engineering for inclusion in the ESC Basket and for Minor Specialisation in B.Tech.**
- 3) **Four Courses proposed by the Department of Management Studies for inclusion in the HSSMEC basket and as Program Elective for MBA.**
- 4) **One course proposed by the Department of Chemistry to be offered as Institute Elective.**

The Senate discussed and decided the following:

- (i) The seven (07) pre-Ph.D. courses (AS-530 to AS-508) proposed by the Department of Applied Science and Engineering should be re-examined for their contents


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and level of difficulty. Further, the Senate suggested to explore the possibility of offering some of the courses on line (e.g., using National Knowledge Network NKN) from Roorkee campus.


- (ii) The four (04) courses proposed by the Earthquake Engineering Department for ESC basket be offered as Open Electives in 2nd/3rd year depending upon the teaching scheme of various structure departments. Besides, the proposed courses to be offered for minor specialization in Earthquake Engineering to B.Tech. in Civil Engineering are approved as Minor Specialization Courses for all Departments/Centres.
- (iii) Three (03) courses proposed by the Management Studies Department for HSSMEC basket for UG programmes were considered and approved for the old structure.
- (iv) The proposed course on Research Methodology and Thesis writing (BM-62) by Department of Management Studies was considered and approved as programme elective for MBA.
- (v) One course proposed by the Chemistry Department as Institute Elective for Spring semester of session 2013-14 was considered and approved.

Arising out of deliberations, it was decided to constitute a committee to look into Minor Programme for the batch 2013-14 onwards.


Item No. 52.7: To consider the course structures and teaching schemes of different UG/IDD/IMT/IMS programme for the remaining semesters under New U.G. curricula.

The Senate discussed all course structures and teaching schemes at length proposed by the various departments for different programmes:

- (1) Architecture and Planning**
 - (a) B.Arch.
- (2) Biotechnology**
 - (a) B.Tech. (Biotechnology)


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- (3) **Chemical Engineering**
(a) B.Tech. (Chemical Engineering)
 - (4) **Civil Engineering**
(a) B.Tech.(Civil Engineering)
 - (5) **Computer Science and Engineering**
(a) B.Tech. (Computer Sc. and Engineering)
 - (6) **Earth Sciences**
(a) **IMT** (Geological Technology)
(b) IMT (Geophysical Technology)
 - (7) **Electrical Engineering**
(a) B.Tech. (Electrical Engineering)
 - (8) **Electronics and Communication Engineering**
(a) B.Tech. (Electronics and Commn. Engineering)
 - (9) **Mathematics**
(a) Integrated M.Sc. (Applied Mathematics)
 - (10) **Mechanical and Industrial Engineering**
(a) B.Tech. (Mechanical Engineering)
(b) B.Tech. (Production and Industrial Engineering)
 - (11) **Metallurgical and Materials Engineering**
(a) B.Tech. (Metallurgical and Materials Engineering)
 - (12) **Paper Technology**
(a) B.Tech. (Pulp and Paper Engineering)
 - (13) **Physics**
(a) Integrated M.Sc. (Physics)
 - (14) **Polymer and Process Engineering**
(a) B.Tech. (Polymer Science and Technology)
(b) Integrated Dual Degree (B.Tech. in Process Engineering and MBA)
- (i) The Senate observed a few discrepancies in the structures and teaching schemes particularly related to number of approved credit range and recommended that the same may be looked into and be corrected.



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- (ii) The Chairman, Senate decided that to freeze the teaching schemes and credit range, a meeting of H.O.D.'s alongwith their representatives be held on 18th November. Further, decided that an urgent Senate meeting be held on 2nd December, 2013.

Arising out of the discussion, the Senate decided that one man Committee of Prof. I.M. Mishra, Department of Chemical Engg., be constituted to look into the laboratory components proposed by different Departments and also to examine the existing laboratory facilities commensurate with the proposed laboratory courses. The report of this committee will be presented in the next meeting of the Senate for its consideration and approval.

(NOO: changes to be made in the tables as per the deliberations in the meeting of the Senate)

Item No. 52.8: To consider the syllabi submitted by different Departments for various programmes under New Course Curricula.

The syllabi could not be discussed as the course structures are yet to be finalised.

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



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