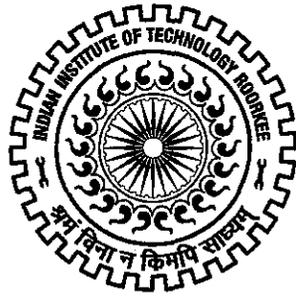# सीनेट की 45^{वीं} बैठक का कार्यवृत्त
MINUTES OF THE 45TH MEETING OF THE SENATE

01 नवम्बर 2012
01 NOVEMBER 2012

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

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

INDEX

11 DEC 2012

45.11	Reporting that the Director and Chairman Senate has approved the following recommendations of the Institute Academic Research Committee for eligibility for admission to Ph. D Programmes and the same has been implemented for admission to Ph. D Programmes in Spring Semester 2012-13.	7
45.12	Reporting of resolution of the emergent meeting of the Institute Academic Programme Committee (IAPC) held on 8.8.2012 regarding Clause No. 18.2 of the Academic Programmes Ordinances & Regulations 2011.	9
45.13	Reporting the issue related to the supervision of Ph.D. students.	10
45.14	Proposal for the bifurcation of the Department of Electronics & Computer Engineering into two separate Departments.	11
45.15	Evaluation procedure of M.Tech. Dissertations.	11
45.16	New Institute Elective courses IBM-06 (Marketing Research) & IBM-07 (Quality Management) of Department of Management Studies under HSSMEC category.	11
45.17	To consider general guidelines for awarding grades based on Absolute Marks System and Statistical Method as placed at Appendix-B1 and B2 of Academic Programmes Ordinances & Regulations of Under Graduate and Post Graduate Programmes.	11
45.18	Change in the existing qualifications for admission to M.Tech. programmes of Department of Chemical Engineering.	12
45.19	Eligibility qualification for admission to Ph.D programme in Architecture & Planning and the Metallurgical and Materials Engg. Deptt. as recommended by the Institute Academic Research Committee in its meeting held on 25.10.2012.	12
45.20	Reporting that the Director and Chairman Senate has approved the following additions/deletion to Clause R-22 of the Ph.D regulations concerning supervision of Ph.D students of other institutes.	13
45.21	Reporting of the case of Mr. Sandeep Gudapati, a student of B.Tech. (Computer Science & Engineering), Enrollment No. 060809 regarding the completion of course requirement for award of B.Tech. degree.	14
45.22	Case of Mr. Kolakaluri Suresh (Enr. No.08120024), B.Tech, Pulp & Paper who has violated the Institute orders.	14

11 DEC 2012

11 DEC 2012

संस्थान के सीनेट हॉल में दिनांक 1 नवम्बर 2012 और 19 नवम्बर 2012 को आहुत सीनेट की 45वीं बैठक का कार्यवृत्त

Minutes of the 45th Meeting of the Senate held on 1st November 2012 and adjourned meeting held on 19th November 2012 in the Senate Hall of the Institute.

उपस्थित/**Present:**

1.	Prof. Pradipta Banerji	-Director & Chairman
2.	Prof. H. Sinvhal	Dy. Director
3.	Prof. R. Shankar	(Architecture & Planning)
4.	Prof. S.Y. Kulkarni	(Architecture & Planning)
5.	Prof. (Mrs) Pushplata	(Architecture & Planning)
6.	Prof. R.P. Singh	(Biotechnology)
7.	Prof. Ramasare Prasad	(Biotechnology)
8.	Prof. I.M. Mishra	(Chemical Engineering)
9.	Prof. Surendra Kumar	(Chemical Engineering)
10.	Prof. Bikash Mohanty	(Chemical Engineering)
11.	Prof. Shri Chand	(Chemical Engineering)
12.	Prof. I.D. Mall	(Chemical Engineering)
13.	Prof. Vijay Kumar Agarwal	(Chemical Engineering)
14.	Prof. B. Prasad	(Chemical Engineering)
15.	Prof. Ravi Bhushan	(Chemistry)
16.	Prof. Kamaluddin	(Chemistry)
17.	Prof. V.K. Gupta	(Chemistry)
18.	Prof. Anil Kumar	(Chemistry)
19.	Prof. (Mrs) Mala Nath	(Chemistry)
20.	Prof. A.K. Singh	(Chemistry)
21.	Prof. U.P. Singh	(Chemistry)
22.	Prof. M.R. Maurya	(Chemistry)
23.	Prof. A.K.Jain	(Civil Engineering)
24.	Prof. V.K. Gupta	(Civil Engineering)
25.	Prof. S.S. Jain	(Civil Engineering)
26.	Prof. M.N. Viladkar	(Civil Engineering)
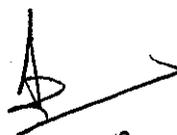
11 DEC 2012

27.	Prof. Deepak Kashyap	(Civil Engineering)
28.	Prof. (Mrs) Renu Bhargava	(Civil Engineering)
29.	Prof. P.K. Garg	(Civil Engineering)
30.	Prof. Pradeep Bhargava	(Civil Engineering)
31.	Prof. Satish Chandra	(Civil Engineering)
32.	Prof. Mahendra Singh	(Civil Engineering)
33.	Prof. Manoj K. Arora	(Civil Engineering)
34.	Prof. M. Parida	(Civil Engineering)
35.	Prof. Praveen Kumar	(Civil Engineering)
36.	Prof. K.S. Hari Prasad	(Civil Engineering)
37.	Prof. Akhil Upadhyay	(Civil Engineering)
38.	Prof. Ashwani Kumar	(Earthquake Engineering)
39.	Prof. M.L. Sharma	(Earthquake Engineering)
40.	Prof. Ashok Kumar	(Earthquake Engineering)
41.	Prof. (Mrs) Amita Sinvhal	(Earthquake Engineering)
42.	Prof. Yogendra Singh	(Earthquake Engineering)
43.	Prof. Kirat Pal	(Earthquake Engineering)
44.	Prof. A.K. Saraf	(Earth Sciences)
45.	Prof. G.J. Chakrapani	(Earth Sciences)
46.	Prof. Sandeep Singh	(Earth Sciences)
47.	Prof. A.K. Sen	(Earth Sciences)
48.	Prof. S.P. Gupta	(Electrical Engineering)
49.	Prof. Vinod Kumar	(Electrical Engineering)
50.	Prof. Pramod Agarwal	(Electrical Engineering)
51.	Prof. G.K. Singh	(Electrical Engineering)
52.	Prof. S.P. Singh	(Electrical Engineering)
53.	Prof. R.P. Maheshwari	(Electrical Engineering)
54.	Prof. S.P. Srivastava	(Electrical Engineering)
55.	Prof. R.S. Anand	(Electrical Engineering)
56.	Prof. A.K. Sarje	(Electronics & Computer Engg.)
57.	Prof. A.K. Saxena	(Electronics & Computer Engg.)
58.	Prof. S.N. Sinha	(Electronics & Computer Engg.)
59.	Prof. Padam Kumar	(Electronics & Computer Engg.)
60.	Prof. Manoj Mishra	(Electronics & Computer Engg.)
61.	Prof. M.J. Nigam	(Electronics & Computer Engg.)
62.	Prof. N.K. Goel	(Hydrology)
63.	Prof. M. Perumal	(Hydrology)
64.	Prof. (Mrs.) Rashmi Gaur	(Humanities & Social Sciences)
65.	Prof. Satish Kumar	(Paper Technology)
66.	Prof. Y.S. Negi	(Paper Technology)
67.	Prof. Dharam Dutt	(Paper Technology)
68.	Prof. S.P. Sharma	(Mathematics)
69.	Prof. T.R. Gulati	(Mathematics)
70.	Prof. (Mrs.) Rama Bhargava	(Mathematics)
71.	Prof. R.C. Mittal	(Mathematics)
72.	Prof. V.K. Katiyar	(Mathematics)

11 DEC 2012

73.	Prof. (Mrs.) Sunita Gakkhar	(Mathematics)
74.	Prof. (Mrs.) Kusum Deep	(Mathematics)
75.	Prof. (Mrs.) Tanuja Srivastava	(Mathematics)
76.	Prof. N.Sukavanam	(Mathematics)
77.	Prof. S.P. Yadav	(Mathematics)
78.	Prof. Pradeep Kumar	(Mechanical & Industrial Engg.)
79.	Prof. Satish C. Sharma	(Mechanical & Industrial Engg.)
80.	Prof. P.K. Jain	(Mechanical & Industrial Engg.)
81.	Prof. Dinesh Kumar	(Mechanical & Industrial Engg.)
82.	Prof. B.K. Gandhi	(Mechanical & Industrial Engg.)
83.	Prof. Ravi Kumar	(Mechanical & Industrial Engg.)
84.	Prof. P.K. Sahoo	(Mechanical & Industrial Engg.)
85.	Prof. R.P. Gakkhar	(Mechanical & Industrial Engg.)
86.	Prof. P.K. Ghosh	(Metallurgical & Materials Engg.)
87.	Prof. S.K. Nath	(Metallurgical & Materials Engg.)
88.	Prof. Anjan Sil	(Metallurgical & Materials Engg.)
89.	Prof. A.K. Jain	(Physics)
90.	Prof. Rajesh Srivastava	(Physics)
91.	Prof. Vir Singh	(Physics)
92.	Prof. M.L. Kasnsal	(WRD&M)
93.	Prof. Deepak Khare	(WRD&M)
94.	Dr. R.P. Saini, Head, Alternate Hydro Energy Centre (AHEC)	
95.	Dr. S.N. Rangnekar, Head, Department of Management Studies	
96.	Dr. Ajai Gairola, Had, Disaster Mitigation & Management Centre	
97.	Dr. C.B. Majumdar, Associate Dean SRIC	
98.	Mr. Yogendra Singh, Librarian, Central Library	
99.	Dr. D.K. Dwivedi, Associate Professor, Department of Mechanical & Industrial Engineering.	
100.	Dr. Vikas Pruthi, Associate Professor, Department of Biotechnology	
101.	Lt.Col. (Retd.) A.K. Srivastava, Registrar & Secretary, Senate	

The Chairman (Director) welcomed the members to the 45th Meeting of the Senate.

Before taking up the agenda, the Chairman thanked the under-mentioned outgoing Senate members and recorded appreciation for their valuable contribution in the meetings of the Senate.

1.   Prof. R.C. Agarwala, Department of Metallurgical & Materials Engineering
2.   Prof. H.R. Wason, Department of Earthquake Engineering

The Chairman also welcomed the under-mentioned new members to the Senate and hoped for their valuable contributions and active participation in its functioning:

1.   Prof. Ramasare Prasad, Department of Biotechnology

11 DEC 2012

2.	Prof. B. Prasad, Department of Chemical Engineering
3.	Prof. K.S. Hari Prasad, Department of Civil Engineering
4.	Prof. Akhil Upadhyay, Department of Civil Engineering
5.	Prof. Z. Ahmad, Department of Civil Engineering
6.	Prof. A.K. Sen, Department of Earth Sciences
7.	Prof. Yogendra Singh, Department Earthquake Engineering
8.	Prof. Kirat Pal, Department of Earthquake Engineering
9.	Prof. Dharmendra Singh, Department of Electronics & Computer Engg.
10.	Prof. S.P. Singh, Department of Paper Technology
11.	Prof. Y.S. Negi, Department of Paper Technology
12.	Prof. Dharam Dutt, Department of Paper Technology
13.	Prof. (Mrs.) Kusum Deep, Department of Mathematics
14.	Prof. (Mrs.) Tanuja Srivastava, Department of Mathematics
15.	Prof. N. Sukavanam, Department of Mathematics
16.	Prof. S.P. Yadav, Department of Mathematics
17.	Prof. Pradeep K. Sahoo, Department of Mechanical & Industrial Engg.
18.	Prof. R.P. Gakkhar, Department of Mechanical & Industrial Engg.

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

1.	Prof. Karmeshu, Professor & Dean, Jawaharlal Nehru University, New Delhi
2.	Prof. Himanshu Joshi, Department of Hydrology.

The Agenda was then taken up:

Item No.45.1: **Confirmation of the minutes of the 44th meeting of the Senate held on 19th July 2012.**

The minutes of the 44th meeting of the Senate held on 19th July 2012 were confirmed.

Item No.45.2: **Receive a report on the actions taken to implement the decisions taken by the Senate in its 43rd meeting held on 22nd /29th February 2012 and 44th meeting held on 19th July 2012, respectively.**

The Senate noted that the actions have been taken on the decisions taken by the Senate in its 43rd Meeting held on 22nd/29th February 2012 and 44th meeting held on 19th July 2012, respectively.

- 4 -

11 DEC 2012

Item No.45.3: **Presentation on the report of JEE-2012.**

Noted. Prof. U.P. Singh, Chairman JEE-2012 was felicitated by the Senators for the excellent report of the JEE 2012.

Item No.45.4: **Nomination of two Senate members to the Institute Academic Programme Committee.**

The Senate authorized the Director and Chairman, Senate to nominate two senate members to the Institute Academic Programme Committee.

Item No.45.5: **Proposal regarding removal of the Master of Technology Project from the Post Graduate Teaching Scheme.**

As considered and recommended by the Institute Academic Programme Committee, the Senate decided that the present system of submission of Master of Technology projects be continued. However, the Departments may be authorized to choose between the Seminar and the Project, according to their feasibility, with the condition that the credits of the dropped Seminar or Project will be transferred either to the Dissertation or to the Project. The date of submission of title of the Seminar/ Project will be upto 14th August, each year.

Item No.45.6: **Matter of replacing the current system of summer term by re-examination.**

The Senate considered the recommendations of the Institute Academic Programme Committee (IAPC) regarding re-examination, and resolved that the summer term shall stand replaced by re-examination with immediate effect. However, during the summer of 2013, the students who are currently in the 2nd or 3rd year of the academic session 2012-13, will be allowed to take admission to the summer term for clearing their backlog of core courses of the 1st year and the 2nd year, respectively. The summer term will be discontinued after the summer of 2013, thereafter, only re-examination shall be permissible.

- 5 -

11 DEC 2012

The Senate further resolved that:

(a) Re-examination in any course(s) shall be permissible only in the semester(s) in which the course(s) is/are run. Re-examination will be held on pre-designated dates in December/January for the Autumn Semester courses, and in July for the Spring Semester courses.

(b) Re-examination will be subject to a maximum limit of two courses in a semester. In case a student fails in three or more courses, he/she will have to repeat the courses.

(c) A student will carry the marks obtained by him/her in the Mid-term Examination, Practical Examination and Sessionals.

(d) The highest grade that can be awarded in the re-examination shall be 'D'.

(e) Re-examination will be allowed only if a student has not been disqualified earlier, either due to shortage of attendance or use of unfair means.

(f) For re-examination, the fee per subject will be Rs.1000/- (Rupees One Thousand only).

Item No.45.7: **Scheme of syllabi for the full time Master of Technology programme "Transport Infrastructure System" received from Head, Centre for Transportation Systems (CTRANS).**

As considered and recommended by the Institute Academic Programme Committee, the Senate decided as under:

(a) The name of proposed scheme of Master of Technology programme "Transport Infrastructure Systems" be replaced with "Traffic Infrastructure Systems". The Master of Technology programme be approved in principle.

(b) The proposal and the scheme of syllabi for the full time Master of Technology programme "Traffic Infrastructure Systems" be re-looked into and placed before the Senate in the month of February 2012 for approval.

11 DEC 2012

Item No.45.8: **Academic Calendar of Spring Semester 2012-13.**

As considered and recommended by the standing committee, the Senate decided that the Academic Calendar for the Spring Semester 2012-13 as given at **Appendix 'A'** be approved.

Item No.45.9: **Matter related to completion of an early end of autumn semester by end of November by conducting one mid-term examination of two hours duration instead of two mid-term examinations each of one hour duration as per Point No.3 of the minutes of the meeting on 17th February 2012 of Placement-in-Charges of all IITs.**

As considered and recommended by the Institute Academic Programme Committee, the Senate decided that the mid semester break be dropped from the Academic Calendar. Further, one mid term examination of one and half hour's duration be conducted.

Item No.45.10: **Issue related to provide conversion certificate to the students regarding conversion formula of CGPA/SGPA grade into percentage.**

The Senate decided that the proposal for providing the certificate to the students regarding the conversion formula of CGPA/SGPA into percentage and vice-versa be not approved.

Item No.45.11: **Reporting that the Director and Chairman Senate has approved the following recommendations of the Institute Academic Research Committee for eligibility for admission to Doctor of Philosophy (Ph.D.) Programmes and the same has been implemented for admission to Ph.D. Programmes in Spring Semester 2012-13.**

The Senate noted the following:

1. The eligibility for admission to Doctor of Philosophy (Ph.D.) programme for the Master of Technology/ Master of Architecture degree holders: the applicants should have qualified GATE prior to admission to Master of Technology/Master of Architecture or thereafter (GATE score may or may not be valid) or

- 7 -

11 DEC 2012

UGC/CSIR NET wherever applicable besides existing admission eligibility.

This condition shall not be applicable to Sponsored Research Scholars/Part-Time Research Scholars/QIP candidates.

2. In preparation of Merit Index no weightage shall be given to the marks secured by an applicant in High School or Intermediate Examinations. Weightage as follows will be given while preparing Merit Index.

	Marks
(a) Bachelor of Technology or equivalent/ Bachelor of Science	100
(b) Master of Technology/Master of Architecture or equivalent/Master of Science/Master of Philosophy (M.Phil.)	100
(c) Written Test and / or interview	100
Total	300

The above criteria for preparing Merit Index be used for admission from the Spring Semester 2012-2013. Thereafter it may be reviewed and revised, if felt necessary.

3. Qualifications for admission to Doctor of Philosophy (Ph.D.) programme in Electronics and Computer Engineering.

(a) For admission to Microelectronics and VLSI/RF & Microwave/Communication Systems/System Modelling and Control specializations.

(i) Master of Engineering/Master of Technology in Microelectronics/VLSI/ Microwaves/ Communication Systems/ Control Systems/ Instrumentation/ Circuits & Systems or equivalent

(ii) Bachelor of Engineering/Bachelor of Technology in Electronics & Communication/ Electrical Engineering or equivalent.

- 8 -

11 DEC 2012

(iii) Master of Science in Physics/ Instrumentation/ Electronics.

(b) For admission to Computer Science & Engineering specialization.

(i) Master of Engineering/Master of Technology in Information Technology/ Computer Science & Engineering/Software Engineering or equivalent.

(ii) Bachelor of Engineering/ Bachelor of Technology in Computer Science & Engineering/ Information Technology or equivalent.

Note: Candidate should mention the broad research areas (Communication Systems, Computer Science and Engineering, System Modelling and Control, RE & Microwave Engineering, Microelectronics and VLSI Design) for which he /she wants to apply on his/her application form.

The qualifications for the Quality Improvement Programmes (QIP) candidates shall be the same as above.

4. Qualifications for admission to Doctor of Philosophy (Ph.D.) programme in Earth Sciences Department

Master of Science/ Master of Technology/Master of Technology degree in Geology/ Geophysics/ Applied Geology/ Applied Geophysics / Geological Technology/ Geophysical Technology/ Geosciences/ Applied Geosciences/ Petroleum Geology / Petroleum Geophysics

Item No.45.12: **Reporting of resolution of the emergent meeting of the Institute Academic Programme Committee (IAPC) held on 8th August 2012 regarding Clause No.18.2 of the Academic Programmes Ordinances & Regulations 2011.**

The Senate noted the resolution of the emergent meeting of the IAPC held on 8th August 2012, that the Clause No.18 (2) of the Academic Programmes Ordinances & Regulations 2011 should not be changed. However, the
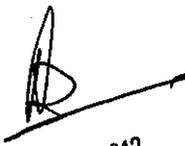
11 DEC 2012

students who have failed in one subject can be allowed to avail the facility of one self study course available according to the regulation 24(7) with the condition that this facility will not be allowed further during the programme.

Item No. 45.13: **Reporting the issue related to the supervision of Doctor of Philosophy (Ph.D.) students.**

The Senate noted that the Director and the Chairman, Senate has approved the following in respect of the supervision of Doctor of Philosophy (Ph.D.) students:

1. All the Doctor of Philosophy (Ph.D.) students, admitted in the Academic Session-July 2012 and onwards, will only have one supervisor for supervising their doctoral work.

2. One faculty member can supervise 04 MHRD students [singly or jointly (in case of registrations prior to July 2012)], w.e.f. Autumn Semester 2012-2013.

3. New Faculty Members (in particular Assistant Professor) on contract for a period of three years or more can also singly supervise doctoral students.

4. In future, joint supervision of a doctoral student can only be considered on case to case basis provided the second supervisor is from the Department/Centre other than the one in which the student is registered. In such a case, strong justification is to be provided by the Department/ Centre, and sent to the Asstt. Registrar (Academic Research) for approval of competent authority.

5. From Autumn Semester 2012-2013 onwards all the faculty members can supervise 12 doctoral students (including 04 MHRD scholars) provided that every faculty member in the department is having at least one research scholar. If even one faculty member is not having any research scholar, then no faculty member can supervise more than 08 doctoral students (including 04 MHRD students).

- **10** -

11 DEC 2012

Item No.45.14: **Proposal for the bifurcation of the Department of Electronics & Computer Engineering into two separate Departments.**

The Senate recommended that the bifurcation of the present Department of Electronics and Computer Engineering into two separate departments, as under be placed before the Board of Governors for consideration:

(a) Department of Electronics and Communication Engineering.
(b) Department of Computer Science & Engineering.

Item No.45.15: **Evaluation procedure of the Master of Technology Dissertations.**

As considered and recommended by the IAPC, the Senate decided that the existing three stages of evaluation of the Master of Technology Dissertations be replaced with two stages evaluation i.e., 25% upto 15th March and 75% upto 30th June.

Item No.45.16: **New Institute Elective courses IBM-06 (Marketing Research) & IBM-07 (Quality Management) of Department of Management Studies under HSSMEC category.**

As considered and recommended by the Institute Academic Programme Committee, the Senate decided that the new Institute Elective courses IBM-06 (Marketing Research) & IBM-07 (Quality Management) of Department of Management Studies under HSSMEC category as given at **Appendices 'B' and 'C')** be approved. The said new Institute Elective courses be floated in the Spring Semester 2012-13.

Item No. 45.17: **To consider general guidelines for awarding grades based on Absolute Marks System and Statistical Method as placed at Appendix-B1 and B2 of Academic Programmes Ordinances & Regulations of Under Graduate and Post Graduate Programmes.**

The Senate considered the recommendations of the Institute Academic Programmes Committee. After due deliberation, the Senate approved the deletion of Clause Nos. (vi) and (vii) and Note (2) of Appendix -B1 on page 33 of the Ordinances & Regulations for the Academic Programmes for

- 11 -

11 DEC 2012

Bachelor of Technology, Bachelor of Architecture, Integrated Dual Degree, Integrated Master of Technology and Integrated Master of Science Programmes and pages 25,26 of the Ordinances and Regulations for the Post Graduate Programmes, respectively. The aforesaid changes have been incorporated in **Appendices 'D'& 'E'**, respectively.

Item No.45.18: **Change in the existing qualifications for admission to Programmes of the Department of Chemical Engineering.**

The matter be referred back to the Department of Chemical Engineering for specifying the reasons for the change.

Item No.45.19: **Eligibility qualification for admission to Doctor of Philosophy (Ph.D.) program in Architecture & Planning and the Metallurgical and Materials Engineering Department as recommended by the Institute Academic Research Committee in its meeting held on 25th October 2012.**

As considered and recommended by the Institute Academic Research Committee, the Senate decided that the eligibility qualification for admission to Doctor of Philosophy (Ph.D.) programme in the Department of Architecture & Planning and the Metallurgical & Materials Engineering be approved as under:

(A)   Architecture and Planning:

Master's degree in Architecture in any of the specializations offered by recognized Institutions of Architecture/ Mater's degree in Building Science/ Technology with a Bachelor's degree in Architecture/ Master's degree in Planning in any of the specialisations offered by the recognised Institutions of Planning with a Bachelor's degree in either Architecture or Planning (B. Planning) or Civil Engineering.

(B)   Metallurgical and Materials Engineering:

Bachelor of Technology/Master of Technology or equivalent relate to the following disciplines:

Metallurgical   Engineering,   Materials   Engineering, Nanotechnology,   Engineering   Physics,   Engineering Chemistry, Ceramics, Polymers, Corrosion, Mechanical,

- 12 -

11 DEC 2012

Production & Industrial Engineering, Chemical Engineering and Electrochemical Engineering.

OR

1. Master of Science degree in Physics, Chemistry, Materials Science.
2. Candidates with a Master of Science degree, Mathematics as a subject at the Bachelor of Science degree level is an essential requirement.

NOTE: Candidates having a degree in Industrial Engineering only, shall not be eligible for admission to the Doctor of Philosophy (Ph.D.) programme in the Department of Metallurgical and Materials Engineering.

Item No.45.20: **Reporting that the Director and Chairman Senate has approved the following additions/deletion to Clause R-22 of the Doctor of Philosophy (Ph.D.) regulations concerning supervision of Doctor of Philosophy (Ph.D.) students of other institutes.**

The Senate noted as under:

Additions

1.   The candidate must be a faculty member of the College/Institution with at least two year experience as a regular teacher there or should be an employee of a research development organization/Academic Institute or any other organization deemed to be appropriate by the institute with similar experience.

2.   The Institute/organization in which the candidate is working should be in existence at least for a 10 years period & should have the minimum required research facilities.

3.   Not more than one faculty will be allowed to supervise the work of a candidate and any faculty member shall have only one candidate from outside IITR to supervise at a time.

4.   The candidate (Research Scholars) must possess at least 70% marks in the qualifying degree i.e. Master of Science/ Master of Technology/Master of Engineering / Master of Architecture/Master of Computer Applications / Master of Business Administration etc.

For Master of Arts the minimum marks shall be 55%.

- 13 -

11 DEC 2012

5. Details about the candidate & the institution where the candidate will be doing the research work be obtained in the attached Performa.

Deletion Clause No. R-22 (g) :

If the external candidate wishes to avail the facilities at Indian Institute of Technology Roorkee, he/she shall register as a casual student for a period not exceeding six months by paying the same tuition fee as is being charged from the research students /candidates of Indian Institute of Technology Roorkee, as per the extant rules and regulations.

NOTE: The existing clause R.22(d) that "The total number of such externally enrolled Ph.D. students under any faculty member of the Indian Institute of Technology Roorkee, should not be more than 2(two) at any point of time" will get replaced with clause 3 above.

Item No.45.21: **Reporting of the case of Mr. Sandeep Gudapati, a student of Bachelor of Technology (Computer Science & Engineering), Enrolment No.060809 regarding the completion of course requirement for award of Bachelor of Technology degree.**

The Senate noted the under-mentioned decision of the competent authority regarding the completion of course requirement for award of Bachelor of Technology degree to Mr. Sandeep Gudapati, a student of Bachelor of Technology (Computer Science & Engineering):

"Since there is no equivalent courses for MA-201 and IC-201 and the equivalent of IC-205 was proposed as EE-305 but not approved by Senate; this student can be considered to have completed his course work for award of degree".

Item No. 45.22: **Case of Mr. Kolakaluri Suresh (Enr. No. 08120024), Bachelor of Technology, Pulp & Paper who has violated the Institute orders.**

After lengthy discussion, the Senate decided that all the cleared registered 31 credits of Mr. Kolakaluri Suresh be retained.

- 14 -

11 DEC 2012

Further decided that a committee consisting of Dean Academic Studies, Dean of Students Welfare and Prof. Manoj Arora to identify the shortcomings and suggest systemic solutions there of.

Item No 45.23: **Reporting of letter F.No. 19-3/2009-TS.I dated 18th December 2009 of Director, Department of Higher Education, Ministry of Human Resource Development, Technical Section-1, New Delhi regarding revision of Merit-cum-Means (MCM) Scholarship.**

The Senate **noted** the letter F.No. 19-3/2009-TS.I dated 18th December 2009 of the Director, Department of Higher Education, Ministry of Human Resource Development, New Delhi that the Council of IITs in its 40th meeting held on 19th October 2009 has raised the parental annual income limit to Rs.4.50 lakhs per annum for Merit-cum-Means (MCM) Scholarship w.e.f. the date of issue of the said letter. However, the amount of the Scholarship was not raised by the Council of IITs.

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

11 DEC 2012

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

ACADEMIC CALENDAR FOR THE SPRING SEMESTER 2012-13

S.No.	Details	Spring Semester 2012-13	
		Date	Day
1.	Reporting of new Ph.D. students.	26.12.2012	Wednesday
2.	Institute reopens	01.1.2013	Tuesday
3.	Registration of all new Ph.D. students	01.1.2013	Tuesday
4.	Academic registration of all students in Departments/Centers	01.1.2013	Tuesday
5.	Registration of all new UG/IDD/IMT/IMS students	-	-
6.	Registration of all new PG students	-	-
7.	Classes begin for all students (except those who have been newly admitted)	02.1.2013	Wednesday
8.	Orientation programme for all new students	-	-
9.	N.C.C./N.S.S./N.S.O. selections for newly admitted UG/IDD/IMT/IMS students	-	-
10.	Submission of M.Tech seminar report (for final year PG/IDD students)	-	-
11.	Classes begin for newly admitted PG/Ph.D. students	02.1.2013	Wednesday
12.	Uploading of roll lists of registered students on CampusLynx	07.1.2013	Monday
13.	Classes begin for all newly admitted UG/IDD/IMT/IMSC students (Autumn semester only)	-	-
14.	Addition/deletion of courses (applicable for old students having completed online subject registration in the previous semester)	11.1.2013	Friday
15.	Registration/Counseling for vacant seats of all PG programmes	-	-
16.	Closing of admissions (other than Ph.D. Students)	-	-
17.	Online subject registration (new students)	-	-
18.	Uploading of final subject-wise roll lists of registered students on CampusLynx	14.1.2013	Monday
19.	Assignment of major projects to all B.Tech. Students	-	-
	Id-E-Milad*	25.1.2013	Friday
	Republic Day	26.1.2013	Saturday
	Idu'l Fiter*	-	-
	Independence Day	-	-
	Janmashtami	-	-
20.	Request to Departments to send list of Institute Elective courses, (i) To be offered in Autumn Semester 2013-14 (ii) To be offered in Spring Semester 2013-14	14.2.2013 -	Thursday -

21.	GATE 2013 Examination (i) Online (ii) Offline **JAM 2013 Examination**	20.1.2013 10.2.2013 10.2.2013	Sunday Sunday Sunday
22.	Mid Term Examination for all students	28.2.2013 1.3.2013 2.3.2013 3.3.2013 4.3.2012	Thursday Friday Saturday Sunday Monday
23.	Warning to students regarding shortage of attendance by the Departments	01.3.2013	Friday
24.	Notification to UG/IDD students about Institute Elective Courses to be offered, (i) During Autumn semester 2013-14 (ii) During Spring Semester 2013-14	25.2.2013 -	Monday -
25.	Hobbies Club – Annual Exhibition	02.3.2013- 03.3.2013	Saturday - Sunday
26.	Last date for withdrawal of courses	25.2.2013	Monday
27.	ENGINEERS' DAY	-	-
28.	SCIENCE DAY	28.2.2013	Thursday
29.	Closing of registration of new Ph.D. students	28.2.2013	Thursday
30.	Intimation to parents/guardians in respect of students having short attendance	08.3.2013	Friday
31.	COGNIZANCE – 2013	08.3.2013- 10.3.2013	Friday - Sunday
32.	Online subject registration for Institute Elective Courses by UG students for next semester	15.3.2013- 22.3.2013	Friday to Friday
	Holi	27.3.2013	Wednesday
	Good Friday	29.3.2013	Friday
33.	Submission of M.Tech project reports (for final year PG/IDD students)	-	-
34.	Submission of remaining document(s) by all new students	28.2.2013	Thursday
	Mahatma Gandhi's Birthday	-	-
35.	THOMSO 2013		
	Dussehra (Vijaya Dashmi)	-	-
	Idul'Zuha (Bakrid)*	-	-
36.	Notification of End Term Examination schedule including seating plan (Institute Core and Elective Courses)	01.4.2013	Monday
37.	JEE (Main) 2013	07.4.2013	Sunday
38.	Finalization of Time Tables by all Departments	16.4.2013	Tuesday
	Ram Navami	19.4.2013	Friday
39.	Communication from Chairman, DAC/ Coordinator, First year B.Tech. to Course Coordinators requesting to submit the final list of students having short attendance on specified format.	16.4.2013	Tuesday

1 1 DEC 2012

40.	Submission of proficiency grades by all concerned Officers-in-Charge to UG Section	22.4.2013	Monday
	Mahavir Jayanti	24.4.2013	Wednesday
41.	Online Academic and Subject pre-registration by all students for next semester	29.3.2013-10.4.2013	Friday to Wednesday
	Diwali (Deepawali)	-	-
	Govardhan Puja	-	-
	Bhai Duj	-	-
42.	Finalization of 1st year M.Tech/M.U.R.P./M.Arch. Seminar, Project and Dissertation topics	15.4.2013	Monday
43.	Filling of response forms by all students	15.4.2013-19.4.2013	Monday to Friday
44.	Annual Convocation 2013	-	-
45.	Display of marks of course work evaluation	24.4.2013	Wednesday
46.	Last date of Teaching	23.4.2013	Tuesday
47.	Submission of M.Tech./M.U.R.P./ M.Tech. (ES)/IDD Dissertation (Session 2012-13) in soft bond form	30.4.2013	Tuesday
48.	Display of list of students having short attendance by Departments/Centres	25.4.2013	Thursday
49.	Jubilee Alumni Meet (Silver, Golden & Diamond)	-	-
	Moharram*	-	-
50.	Display list of detained students in End Term Examination by the Academic Section	26.4.2013	Friday
51.	End Term Examination (including practical examinations) for all students. *Practical examinations, if necessary, may also be held during last few laboratory days.*	27.4.2013-07.5.2013	Saturday to Tuesday
52.	Announcement to apply for change of branch during 2013-14 session by 1st year B.Tech./IDD/IMT/IMS students	25.4.2013	Thursday
	Guru Nanak Birthday	-	-
53.	Last date for evaluation of M.Tech./ M.Arch./ M.U.R.P./ M.Tech. (ES)/ IDD dissertation (Session 2012-13) in soft bond	15.5.2013	Wednesday
54.	TECHNOLOGY DAY	11.5.2013	Saturday
55.	NCC Camp	-	-
56.	Showing of End Examination Answer Scripts to students (Last Date)	15.5.2013	Wednesday
	Buddha Purnima	25.5.2013	Saturday
57.	Finalization of grades by the Grade Moderation Committees	17.5.2013	Friday
58.	Display of grades for all courses	17.5.2013	Friday
59.	Mid Term Evaluation of Final Year M.Tech. / M.Arch./IDD dissertation (25 % evaluation) (Last date)	-	-
60.	Submission of progress reports of the Ph.D. students by the Departments/Centers	-	-

1 1 DEC 2012

61.	Viva-Voce Examination for Major Project (Only for B.Tech. 4th year students)	15.5.2013-16.5.2013	Wednesday to Thursday
62.	Summer Term Registration for Institute Core Courses (only for 1st & 2nd year B.Tech./ B.Arch./ IDD/ IMT/IMS students)	20.5.2013-	Monday
63.	Last date of sending grades to Academic Section	20.5.2013	Monday
64.	Winter vacation for students (except M.Tech/ IDD/final year and Ph.D. students) and Winter vacation for Teaching Faculty	-	-
65.	Beginning of Summer Term Classes	22.5.2013	Wednesday
66.	JEE (Advanced) -2013	2.06.2013	Sunday
67.	Declaration of Results (except Summer Term and M.Tech./ M. Arch./ IDD final year students)	10.6.2013	Monday
68.	Summer Vacation (i) For Students (except M.Tech./ IDD final year and Ph.D. students) (ii) For Teaching Faculty	15.5.2013 - 15.7.2013 24.5.2013 - 12.7.2013	Wednesday to Monday Friday to Friday
69.	JEE (Advanced)-2013 Result	23.6.2013	Sunday
70.	JEE (Advanced) – 2013 On-line Counseling	24.6.2013 30.6.2013	Monday to Sunday
71.	Submission of final year M.Tech./ M. Arch./ M.U.R.P./ M.Tech. (ES)/ IDD Dissertation (session 2012-13) in hard bond form	14.6.2013	Friday
72.	Last date for evaluation of final year M.Tech./M. Arch./ M.U.R.P./ M.Tech.(ES)/ IDD Dissertation (Session 2012-13) and sending grades	21.6.2013	Friday
73.	Last date of declaration of final year M.Tech./M.Arch/IDD Results	01.7.2013	Monday
74.	Last day of Summer Term Teaching	02.7.2013	Tuesday
75.	Summer Term Examinations	04.7.2013-08.7.2013	Thursday to Monday
76.	Last date of sending grades of Summer Term courses to Academic Section	11.7.2013	Thursday
77.	Last date of declaration of Summer Term results	15.7.2013	Monday
78.	JEE Counseling for Preparatory Courses	To be decided	
	Christmas Day	-	-

* Subject to change on visibility of Moon.

11 DEC 2012

Teaching days for Spring Semester 2012-13 (w.e.f. 2.1.2013 to 23.4.2013)

Day	Months					
	January	February	March	April	Less for MTE	Total days
Monday	7,14,21,28	4,11,18,25	4,11,18,25	1,8,15,22	1	16
Tuesday	8,15,22,29	5,12,19,26	5,12,19,26	2,9,16,23	-	16
Wednesday	2,9,16,23,30	6,13,20,27	6,13,20	3,10,17	-	15
Thursday	3,10,17,24,31	7,14,21,**28**	7,14,21,28	4,11,18	1	16
Friday	4,11,18	1,8,15,22	1,8,15,22	5,12	1	13
Total days	21	20	19	16	3	**76-3= 73**

Details of Saturday & Sunday used in Mid Term Examination (MTE)

28.02.2013 – Working (Thursday)

01.03.2013 – Working (Friday)

02.03.2013 - Saturday

03.03.2013 - Sunday

04.03.2013- Working (Monday)

11 DEC 2012

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

NAME OF DEPTT. / CENTRE   :   DEPARTMENT OF MANAGEMENT STUDIES

1. Subject Code : IBM-06   Course Title : MARKETING RESEARCH
2. Contact Hours: L: 3   T: 0   P: 0
3. Examination Duration (Hrs.):   Theory: 3   Practical: 0
4. Relative Weightage: CWS 15 PRS 0 MTE 35 ETE 50 PRE 0
5. Credits: 3   6. Semester: Both
7. Pre-requisite: Nil   8. Subject Area: HSSMEC
9. Objective: The objective of this subject is to acquaint students about the importance of research in marketing and make them a beginning practitioner.
10. Details of the Course:

S.No.	Contents	Contact Hours
1	Introduction to marketing research, nature of research, problem identification, application of marketing research, product , pricing, distribution and advertising research, marketing research in the internet era, careers in marketing research, case study	6
2	Research objective, types of research, qualitative and quantitative techniques, case study, hypothesis development	6
3	Scales of measurement, criteria of a good measurement, factors in selecting an appropriate measurement scale, case study	6
4	Data collection methods, primary and secondary data sources, survey methods, questionnaire design, observation methods, Design of an instrument, data coding and editing	6
5	Data analysis for hypothesis testing, type-I, type-II errors, hypothesis testing for single populations and two populations, ANOVA, correlation and regression analysis, Multivariate analysis, Use of Software for analysis	12
6	Report writing	4
	Total	42

11 DEC 2012

11. Suggested Books:

S. No.	Name of Authors/Book/Publisher	Year of Publication / Reprint
1	Gilbert Churchill, Jr., "Marketing Research - Methodological Foundations", 6th Edition, The Dryden Press	2007
2	Malhotra, Naresh "Marketing Research: An applied orientation", 11th Edition, Pearson Publication	2012
3	Aaker David A., "Marketing Research", 10th Edition, Wiley Publications	2007
4	Majumdar, Ramanuj, "Marketing Research-Text application and case studies", New Age International Publications.	2012

11 DEC 2012

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

NAME OF DEPTT. / CENTRE   :   DEPARTMENT OF MANAGEMENT STUDIES

1.   Subject Code : IBM-07   Course Title : QUALITY MANAGEMENT

2.   Contact Hours: L: 3   T: 0   P: 0

3.   Examination Duration (Hrs.):   Theory: 3   Practical: 0

4.   Relative Weightage: CWS 15   PRS 0   MTE 35   ETE 50   PRE 0

5.   Credits: 3   6. Semester: Both

7.   Pre-requisite: Nil   8.   Subject Area: HSSMEC

9.   Objective: The objective of this subject is to acquaint students about quality-related issues, including quality planning, analysis, and control.

10. Details of the Course:

S.No.	Contents	Contact Hours
1	Introduction – history, definition, Responsibility for quality, Total quality management – approach, Leadership, Customer satisfaction, Employee involvement, Continuous process improvement, Supplier partnership, Cost of poor quality.	8
2	Seven QC tools, Quality function deployment, ISO 9000, Bench marking, Poka yoke, Failure mode and effect analysis, Design of experiments, Taguchi's quality engineering, and Total productive maintenance.	10
3	Statistical quality control – fundamentals – assignable causes, Rational subgrouping, Control charts for variables – average range chart, average standard deviation chart, control charts for attributes – chart for fraction non-conforming, chart for count of non-conformities, Process capability, Six sigma.	12
4	Acceptance sampling – operating characteristic curve, Types of sampling plans, Acceptance quality level, Average outgoing quality, Sampling plan design, Reliability – life-history curve, System reliability and Testing.	12
	Total	42

11 DEC 2012

11. Suggested Books:

S. No.	Name of Authors/Book/Publisher	Year of Publication / Reprint
1	Besterfield, D C and Besterfield C, "Total Quality Management", Pearson Education Asia	1999
2	Montgomery, D.C, "Statistical Quality Control- A modern introduction", 6th Edition, Wiley India	2010
3	Feigenbaum, "Total Quality Control", 3rd Edition, McGraw Hill	1991
4	Hansen B L, and Ghare P M, "Quality Control and Application", Prentice Hall India	1993

11 DEC 2012 11 DEC 2012

Appendix 'D'
Item No. Senate/45.17
(Refers to Appendix-B of the
Ordinances & Regulations for the
Under Graduate & Post Graduate
Programmes, respectively)

General Guidelines for the Award of Grades

The following are the general guidelines for the award of grades:

(i)   All evaluations of different components of a course shall be done in marks for each student.

(ii)   The marks of various components shall be reduced to approved weights (as decided by the DFC/CFC) and/or indicated in the scheme of Teaching and Examination and added to get total marks secured on a 100-points scale. The rounding off shall be done only once and on the higher side.

(iii)   For less than 30 students in a course, the grades shall be awarded on the basis of natural cut-off in the absolute marks (Appendix- B1).

(iv)   For 30 or more than 30 students in a course, the statistical method shall be used for the award of grades with or without marginal adjustment for natural cut-off. The salient features of statistical method are given in Appendix-B2.

(v)   The overall distribution of different grades shall be as indicated in the statistical distribution to the extent possible. (Appendix-B2)

(vi)   The overall distribution of different grades shall be as indicated in the statistical distribution to the extent possible. (Appendix-Bl).

(vii)   The provisional grades shall be awarded by the Coordination Committee of the course consisting of all the teachers involved in that course. The Course Coordinator shall have full responsibility for this purpose.

(viii) The grades so awarded shall be moderated by a Grade Moderation Committee of a Department/ Academic Centre. This committee will finalize the grades and display a copy of the grades awarded on the Notice Board of the Department/ Centre. The grades should be finalized and displayed as per the academic calendar. All the final grades shall be communicated to the Academic Section within seven days from the last date of the End Term Examination. The Chairman, Grade Moderation Committee shall retain the records of all the marks and grades and shall send one copy of all records to the Chairman, DAC.

(ix)   For a student to get passing grade, he/she will have to appear in End-Term Examination.

(x)   The procedures for evaluation and award of grades for project, training, seminar, group discussion, and comprehensive viva-voce shall be as given in the Appendix E1-E5 of Regulations for the UG, IDD, and IMD programmes.

(xi)   For Dissertation, each student will be evaluated individually and the grades shall be awarded on the basis of absolute marks (Appendix B-1). The Dissertation shall be presented before a Examination Board for evaluation, as per procedure given in Appendix -E6

11 DEC 2012

Appendix 'E'
Item No. Senate/45.17
(Refers to Appendix-B1 of the
Ordinances & Regulations for the
Under Graduate & Post Graduate
Programmes, respectively)

APPENDIX-B1

Award of Grades Based on Absolute Marks System

The award of grades based on absolute marks out of 100 shall be made as follows:

Marks		Grades		Marks
91	$\leq$	A+	$\leq$	100
82	$\leq$	A	$\leq$	90
73	$\leq$	B+	$\leq$	81
64	$\leq$	B	$\leq$	72
55	$\leq$	C+	$\leq$	63
46	$\leq$	C	$\leq$	54
35	$\leq$	D	$\leq$	45

Note:

The grade boundaries as indicated above may be marginally adjusted.

11 DEC 2012