

**15th MEETING OF
SENATE**



AGENDA

**NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA**

Due Date of Meeting: 3rd July 2010

**NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136119**

Agenda	:	15th Meeting of the Senate
Venue	:	Senate Hall, NIT, Kurukshetra
Date & Time	:	03.07.2010 at 11.00 a.m.

Item No.	Agenda Item	Pages
15.1	To confirm the minutes of the 14 th meeting of the Senate held on 14.03.2010	1-9
15.2	To note the Action Taken Report on the minutes of the 14 th meeting of the Senate held on 14.03.2010	10-12
15.3	To consider and approve decisions taken in 28 th and 29 th meetings of Standing Committee on Senate Affairs (SCSA)	13-42
15.4	To consider and decide the Panel of Expert Nominee of Senate from outside the Institute on the Selection Committees for recruiting Academic Staff (excluding the Director and the Deputy Director).	43-53
15.5	To consider the requests of Mr. Raghwendra Tiwari, Roll No. 803/03, M.Tech (EC&CE) student and Mr. Raj Kumar Saini, Roll No. 707/04, M.Tech (Civil Engg.) student for granting extension for submitting M.Tech dissertations in their respective specializations	54-59
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NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136 119

Appendix 15.1

Minutes of the 14th meeting of the Senate, National Institute of Technology, Kurukshetra held on Sunday, the 14th March, 2010 at 11.00am in the Senate Hall of the Institute

The following were present

1	Dr. M. N. Sanyopadhyay Director NIT, Kurukshetra	Chairman
2	Dr. Ishwar Singh Professor & Dean (Academic Affairs) Deptt. of Inorganic Chemistry M D University, Rohtak	Member
3	Dr. Krishna Gopal Professor, Electrical Engg. Deptt. NIT, Kurukshetra.	Member
4	Prof. R. K. Bansal Professor, Civil Engineering Department NIT, Kurukshetra	Member
5	Dr. T. K. Garg Professor, Mech. Engg. Deptt. NIT, Kurukshetra	Member
6	Dr. S. P. Jain Professor Electrical Engineering Department NIT, Kurukshetra	Member
7	Dr. V. K. Arora Professor, Civil Engineering Department NIT, Kurukshetra	Member
8	Dr. V. K. Sehgal Professor Civil Engineering Department NIT, Kurukshetra	Member
9	Dr. K. S. Kasana Professor Mechanical Engineering Department NIT, Kurukshetra	Member
10	Dr. K. B. Singh Professor Department of Humanities & Social Sciences NIT, Kurukshetra	Member

Item 15.1: To confirm the minutes of the 14th meeting of the Senate held on 14.03.2010

The minutes of the 14th meeting of the Senate held on 14.03.2010 were circulated to all the members of the Senate on 25.03.2010. No comments were received on the minutes. The minutes are enclosed as Appendix 15.1 from page 2 to 9.

The Senate may confirm the same.

22.	Dr. Dadi Garg Professor Mechanical Engineering Department NIT, Kurukshetra	Member
23.	Dr. S. K. Mahne Professor Physics Department NIT, Kurukshetra	Member
24.	Dr. B. K. Kaushik Professor Physics Department NIT, Kurukshetra	Member
25.	Dr. P. J. Philip Professor Department of Humanities & Social Sciences NIT, Kurukshetra	Member
26.	Dr. Surjit Angra Professor Mechanical Engineering Department NIT Kurukshetra	Member
27.	Dr. R. S. Bhatta Professor Electrical Engineering Department NIT Kurukshetra	Member
28.	Dr. G L Pahuja Professor Electrical Engineering Department NIT Kurukshetra	Member
29.	Dr. R. K. Sharma Associate Professor & Head Electronics & Comm. Engg. Department NIT, Kurukshetra	Special Invitee
30.	Dr. Dinesh Kumar Associate Professor & Head Chemistry Department NIT, Kurukshetra.	Special Invitee
31.	Prof. (Ms.) Manjula Sharma Associate Professor & Head Department of Humanities & Social Sciences NIT, Kurukshetra	Special Invitee
32.	Dr. Ashwani Jain Associate Professor, Civil Engg. Deptt. Professor Incharge (Academic & Senate Affairs) NIT, Kurukshetra	Special Invitee

11.	Dr. D. V. Singh Professor Mathematics Department NIT, Kurukshetra	Member
12.	Dr. Kuldeep Kumar Professor Mathematics Department NIT, Kurukshetra	Member
13.	Dr. S. S. Raitak Professor Mechanical Engineering Deptt. NIT, Kurukshetra	Member
14.	Dr. K. S. Sandhu Professor Electrical Engineering Deptt. NIT, Kurukshetra	Member
15.	Dr. Sudhir Kumar Professor Mechanical Engineering Department NIT Kurukshetra	Member
16.	Dr. Baldev Setia Professor Civil Engineering Department NIT, Kurukshetra	Member
17.	Dr. Rajender Kumar Professor Department of Humanities & Social Sciences NIT, Kurukshetra	Member
18.	Dr. Brahmjii Singh Professor Electronics & Comm. Engg. Department NIT, Kurukshetra	Member
19.	Dr. S.K. Madan Professor Civil Engineering Department NIT, Kurukshetra	Member
20.	Dr. H. K. Sharma Professor Civil Engineering Department NIT, Kurukshetra	Member
21.	Dr. S. N. Sachdeva Professor Civil Engineering Department NIT, Kurukshetra	Member

- | | | |
|-----|--|-------------------|
| 33. | Dr. Mayank Dave
Associate Professor & Head
Computer Engineering Department
NIT, Kurukshetra | Special invitee |
| 34. | Sh. R. P. S. Lohchab
Registrar
NIT, Kurukshetra | Secretary, Senate |

The following members could not attend the meeting:

- | | | |
|----|---|--------|
| 1. | Sh. Vijay Prakash Sahe
Chair, WFO, Energy Saving Commission
Res: W-16, Green Park, New Delhi – 110016 | Member |
| 2. | Dr. (Mrs.) Bari Chatterjee
Professor
Deptt. of Humanities & Social Science
IIT, Kharagpur. | Member |
| 3. | Dr. S. K. Sharma
Professor
Mechanical Engineering Department
NIT, Kurukshetra | Member |
| 4. | Dr. A. K. Gupta
Professor
Electronics & Comm. Engg. Department
NIT, Kurukshetra | Member |
| 5. | Dr. (Ms.) Minati Baral
Professor
Chemistry Department
NIT, Kurukshetra | Member |
| 6. | Dr. Diwan Singh
Professor
Civil Engineering Department
NIT, Kurukshetra | Member |
| 7. | Dr. (Ms.) Lillie Dewan
Professor
Electrical Engineering Department
NIT, Kurukshetra | Member |
| 8. | Dr. J. K. Guemara
Professor
Physics Department
NIT, Kurukshetra | Member |

Item 14.1 To confirm the minutes of the 13th meeting of the Senate held on 03.12.2009

The Senate confirmed the minutes alongwith addendum of the 13th meeting of the Senate held on 03.12.2009 as circulated to the members of the Senate and as per details furnished in the agenda item.

Item 14.2 To note the Action Taken Report on the minutes of the 13th meeting of the Senate held on 03.12.2009

The Senate noted the actions taken on the minutes of the 13th meeting of the Senate held on 03.12.2009 as per details furnished in the agenda item.

The Senate while noting the action taken report under any other item decided that the remuneration for External Examiner for M.Tech. Dissertation Examination be increased to Rs. 2500/- (for evaluation and viva-voce) as per the practice followed at NIT Jalandhar and remuneration for Indian External Examiner for evaluating Ph.D Thesis be increased to Rs. 5000/- (Rs. 3000/- for evaluation + Rs. 2000/- for viva-voce) as per the practice followed at NIT Bhopal. The Examiners be provided free hospitality with no DA payment for stay. The decision to increase remuneration will be implemented after getting approval from the Finance Committee and the Board of Governors.

Regarding the matter of increase in remuneration of Foreign External Examiner for evaluation of Ph.D Thesis, it was decided that the matter be brought after studying the practice followed at various NITs and IITs.

Regarding the matter of shortage of faculty, the Director apprised members that faculty positions in various departments have been advertised and vacant positions will be filled up shortly. About problem of shortage of laboratory space in some departments, it was brought to the notice of the Senate that new administrative block is near completion and more space would become available for the purpose.

Item 14.3 To consider nomination of a Professor as Senate Nominee on the Board of Governors, NIT, Kurukshetra.

The Senate considered nomination of a Professor as Senate Nominee on the Board of Governors, NIT, Kurukshetra. As per Section 12(c) of the National Institutes of Technology Act, 2007, the term of office of Senate nominee is two years from the date of nomination. Since, Dr. V K Arora had already completed his term, it was decided that the next senior most Professor, Dr. V K Sehgal, Professor in Civil Engg., be nominated to Board of Governors w.e.f. the date of meeting, i.e. 14-03-2010, for a period of 2 years. The Senate confirmed the minutes of the item for its immediate implementation.

It was observed that in future, the matter regarding the nomination to BOG be brought to the Senate well in advance prior to the expiry of the term of existing nominees.

- Item 14.4** To consider nomination of 2nd nominee of the Senate on the Board of Governors, NIT, Kurukshetra (against the constituency of Assistant Professor/Lecturer).

As per Section 11(f) of the National Institutes of Technology Act-2007, one Professor and one Assistant Professor or a Lecturer of the Institute are to be nominated by the Senate on the Board of Governors. As per the recommendations for revision of the pay scale of teaching and other staff of Universities and Colleges vide letter No.1-32/2006-U.IPU.I(I), 31 December 2008 and of Centrally Funded Technical Institutions vide letter F. NO. 23-1/2008-TS.II, Technical Section-II, 18 August, 2009, Ministry of Human Resource Development, Department of Higher Education, Government of India, following the pay revision of the Central Government Employees on the recommendation of 6th CPC, there shall be only three designations in respect of teachers, namely, Assistant Professor, Associate Professor and Professor. Therefore, there are, at present, three cadres of faculty in the Institute, i.e. Assistant Professor, Associate Professor and Professor. Now, there is no cadre of Lecturer in the Institute. The Senate was of the view that it can be interpreted that a Lecturer is now Assistant Professor, and Assistant Professor and Lecturer (Selection Grade) in the old scale, after completing three years of service in that scale, are to be re-designated as Associate Professor on or after 1.1.2006. In light of this, the Senate decided that Dr. Subodh Ranjan, Associate Professor in Civil Engg. be nominated to the Board of Governors as second nominee w.e.f. the date of meeting, i.e. 14-03-2010, for a period of 2 years under Clause 11(f) of the NITs Act, 2007 (against the constituency of Assistant Professor/Lecturer). He would replace Prof. C P Bansal who has already completed his two year term. The Senate confirmed the minutes of the item for its immediate implementation.

- Item 14.5** To consider and approve decisions taken in 27th meeting of Standing Committee on Senate Affairs (SCSA)

The Senate considered and approved the decisions taken in the 27th meeting of Standing Committee on Senate Affairs which was held on 14.01.2010.

- Item 14.6** To note the admission status of various UG/PG Courses for the academic session 2009-2010 at National Institute of Technology, Kurukshetra

The Senate noted the admission status of various UG/PG Courses for the academic session 2009-2010 at National Institute of Technology, Kurukshetra per details furnished in the agenda item.

- Item 14.7** To consider approval for students to be awarded degrees in the 7th Convocation scheduled to be held on 20th March 2010 and to note the result status of B.Tech 2005 batch students

The Senate considered and approved the award of degrees to the graduates of B.Tech., M.Tech., MBA and Ph.D. of NIT, Kurukshetra in the 7th Convocation scheduled to be held on 20th March, 2010, as detailed in the agenda item 14.7 and supplementary agenda item 14.7(a). For the two Ph.D scholars, one from Electrical Engg. Dept.

and the other from Mathematics Deptt., who had already appeared in their viva-voce examination, the Director was authorized to accord approval for the award of degrees in 7th Convocation if all the formalities are completed in time. The Senate also noted the result status of B.Tech. 2005 batch students. The minutes of the Item were confirmed by the Senate as degrees were to be awarded in the 7th Convocation.

- Item 14.8 To consider approval for the students to be awarded Medals and Certificates in the 7th Convocation scheduled to be held on 20th March, 2010**

The Senate considered and approved the award of medals and certificates in the 7th Convocation as detailed in the agenda item including award of Dr. R. P. Singh medals as per past practice.

As regard to the award of Dr. R. P. Singh medals, it was brought to the notice of the Senate that the Constituted Committee recommended that the practice of awarding two medals be continued and any shortfall in funds may be met from the Alumni/institute funds. The institute had already expressed its inability to fund the awards. President of the Alumni Association was also requested to consider providing funds for the award of medals vide letter dated 7.12.2009. The Secretary, Alumni Association had intimated that in the meeting held on 8-3-2010, it was decided to extend the offer to meet the shortfall of funds to this year also. The Senate decided that the offer be accepted. Since the issue needs to be resolved once for all, as the same problem will crop up next year also, it was decided that the matter be brought to the SCSA, where President and Secretary of the Alumni Association be invited to explore the possibility of regular funding of the award by the Alumni Association.

The minutes of the Item were confirmed by the Senate as medals were to be awarded in the ensuing Convocation.

- Item 14.9 To consider formats of Honorary degree of D.Lit, and MCA degree**

The Senate considered formats of Honorary degree of D.Lit, and MCA degree. Modifications in the proposed format for D.Lit were suggested. After incorporating some modifications, the degree formats were approved.

Minutes of the item were confirmed as Honorary degree of D.Lit was to be awarded in the 7th Convocation.

- Item 14.10 To consider and approve the Academic Calendar for the session 2010-2011**

Draft of the Academic Calendar for the Session 2010-2011 was considered. It was decided that the draft calendar be referred to the SCSA for finalizing the same to take into account holidays of the year 2011.

Item 14.11 To consider and approve the proposal of the Electronics & Communication Engg. Deptt. for changing the name of existing M.Tech specialization from Electronics & Communication Engg. to Communication Systems

The Senate considered the proposal of Electronics & Communication Engg. Deptt. for changing name of the existing M.Tech specialization from Electronics & Communication Engg. to Communication Systems. It was decided that the matter of change in nomenclature be referred to MHRD for approval.

Item 14.12 To consider inclusion of MBA and MCA disciplines in the Information Brochure of Ph.D

The Senate considered and approved inclusion of MBA and MCA disciplines in the Information Brochure of Ph.D. Minutes of the item were confirmed so that necessary changes be incorporated in the Information Brochure for Ph.D admissions for the next Academic Session.

Item 14.13 To consider the request of M.Tech. 1st year students for continuing GATE scholarship

The Senate considered the request of M.Tech. 1st year students for continuing GATE scholarship. The Senate did not agree to their request.

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

11/23/13
(R. P.S. Lohchab)
Registrar & Secretary, Senate
NIT, Kurukshetra

R. P. S. Lohchab
25/03/2013

Item 15.2 To note the Action Taken Report on the minutes of the 14th meeting of the Senate held on 14.03.2010

The Action Taken Report on the minutes of the 14th meeting of the Senate held on 14.03.2010 is as under:-

Item No.	Agenda Item	Minutes of the Item	Action taken
14.1	To confirm the minutes of the 13 th meeting of the Senate held on 03.12.2009	The Senate confirmed the minutes along with addendum of the 13 th meeting of the Senate held on 03.12.2009 as circulated to the members of the Senate and as per details furnished in the agenda item.	Minutes of the meeting were confirmed. No further action is required.
14.2	To note the Action Taken Report on the minutes of the 13 th meeting of the Senate held on 03.12.2009	The Senate noted the actions taken on the minutes of the 13 th meeting of the Senate held on 03.12.2010 as per details furnished in the agenda item. The Senate while noting the action taken report under any other item decided that the remuneration for External Examiner for M.Tech. Dissertation Examination be increased to Rs. 2500/- (for evaluation and viva-voce) as per the practice followed at NIT Jalandhar and remuneration for Indian External Examiner for evaluating Ph.D Theses be increased to Rs. 5000/- (Rs. 3000/- for evaluation + Rs. 2000/- for viva-voce) as per the practice followed at NIT Bhopal. The Examiners be provided free hospitality with no DA payment for stay. The decision to increase remuneration will be implemented after getting approval from the Finance Committee and the Board of Governors. Regarding the matter of increase in remuneration of Foreign External Examiner for evaluation of Ph.D Thesis, it was decided that the matter be brought after studying the practice followed at various NITs and IITs. Regarding the matter of shortage of faculty, the Director apprised members that faculty positions in various departments have been advertised and vacant positions will be filled up shortly. About problem of shortage of laboratory space in some departments, it was brought to the notice of the Senate that new administrative block is near completion and more space would become available for the purpose.	Action is being taken.
14.3	To consider nomination of a Professor as Senate Nominee on the Board of Governors, NIT, Kurukshetra.	The Senate considered nomination of a Professor as Senate Nominee on the Board of Governors, NIT, Kurukshetra. As per Section 12(c) of the National Institutes of Technology Act, 2007, the term of office of Senate nominee is two years from the date of nomination. Since, Dr. V K Arora had already completed his term, it was decided that the next senior most Professor, Dr. V K Sehgal, Professor in Civil Engg., be nominated to Board of Governors w.e.f. the date of meeting, i.e. 14-03-2010, for a period of 2 years. The Senate confirmed the minutes of the item for its immediate implementation. It was observed that in future, the matter regarding the nomination to BOG be brought to the Senate well in advance prior to the expiry of the term of existing nominees.	Action taken matter referred to MHRD.
14.4	To consider nomination of 2 nd nominee of the Senate on the Board of Governors, NIT, Kurukshetra	As per Section 11(f) of the National Institutes of Technology Act-2007, one Professor and one Assistant Professor or a Lecturer of the Institute are to be nominated by the Senate on the Board of Governors. As per the recommendations for revision of the pay scale of teaching and other staff of Universities and Colleges vide letter No.1-32/2006-U.IV.U.I (I), 31 December 2008 and of Centrally Funded Technical Institutions vide letter F. NO. 23-1/2006-TS.II.10	Action taken matter referred to MHRD.

	(against the constituency of Assistant Professor/Lecturer).	Technical Section-II, 18 August, 2009, Ministry of Human Resource Development, Department of Higher Education, Government of India, following the pay revision of the Central Government Employees on the recommendation of 6 th CPC, there shall be only three designations in respect of teachers, namely, Assistant Professor, Associate Professor and Professor. Therefore, there are, at present, three cadres of faculty in the institute, i.e. Assistant Professor, Associate Professor and Professor. Now, there is no cadre of Lecturer in the institute. The Senate was of the view that it can be interpreted that a Lecturer is now Assistant Professor, and Assistant Professor and Lecturer (Selection Grade) in the old scale, after completing three years of service in that scale, are to be re-designated as Associate Professor on or after 1.1.2005. In light of this, the Senate decided that Dr. Subodh Ranjan, Associate Professor in Civil Engg. be nominated to the Board of Governors as second nominee w.e.f. the date of meeting, i.e.14-03-2010, for a period of 2 years under Clause 11(f) of the NITs Act, 2007 (against the constituency of Assistant Professor/Lecturer). He would replace Prof. C P Bansal who has already completed his two year term. The Senate confirmed the minutes of the item for its immediate implementation.	
14.5	To consider and approve decisions taken in 27 th meeting of Standing Committee on Senate Affairs (SCSA)	The Senate considered and approved the decisions taken in the 27 th meeting of Standing Committee on Senate Affairs which was held on 14.01.2010.	Action taken
14.6	To note the admission status of various UG/PG Courses for the academic session 2009-2010 at National Institute of Technology, Kurukshetra	The Senate noted the admission status of various UG/PG Courses for the academic session 2009-2010 at National Institute of Technology, Kurukshetra per details furnished in the agenda item.	No further action required
14.7	To consider approval for students to be awarded degrees in the 7 th Convocation scheduled to be held on 20 th March 2010 and to note the result status of B.Tech 2005 batch students	The Senate considered and approved the award of degrees to the graduates of B.Tech, M.Tech, MBA and Ph.D. of NIT, Kurukshetra in the 7 th Convocation scheduled to be held on 20 th March, 2010, as detailed in the agenda item 14.7 and supplementary agenda item 14.7(a). For the two Ph.D scholars, one from Electrical Engg. Deptt. and the other from Mathematics Deptt., who had already appeared in their viva-voce examination, the Director was authorized to accord approval for the award of degrees in 7 th Convocation if all the formalities are completed in time. The Senate also noted the result status of B.Tech. 2005 batch students. The minutes of the item were confirmed by the Senate as degrees were to be awarded in the 7 th Convocation.	Action taken

14.8	To consider approval for the students to be awarded Medals and Certificates in the 7 th Convocation scheduled to be held on 20 th March, 2010	The Senate considered and approved the award of medals and certificates in the 7 th Convocation as detailed in the agenda item including award of Dr. R. P. Singh medals as per past practice. As regard to the award of Dr. R. P. Singh medals, it was brought to the notice of the Senate that the Constituted Committee recommended that the practice of awarding two medals be continued and any shortfall in funds may be met from the Alumni/Institute funds. The Institute had already expressed its inability to fund the awards. President of the Alumni Association was also requested to consider providing funds for the award of medals vide letter dated 7.12.2009. The Secretary, Alumni Association had intimated that in the meeting held on 8-3-2010, it was decided to extend the offer to meet the shortfall of funds to this year also. The Senate decided that the offer be accepted. Since the issue needs to be resolved once for all, as the same problem will crop up next year also, it was decided that the matter be brought to the SCSA, where President and Secretary of the Alumni Association be invited to explore the possibility of regular funding of the award by the Alumni Association. The minutes of the item were confirmed by the Senate as medals were to be awarded in the ensuing Convocation.	Action taken As per decision, the matter reg. award of Dr. R.P. Singh medal was placed before the SCSA in its 28 th meeting held on 03.05.2010 and the SCSA referred the matter to the Finance Committee. Accordingly, an agenda item is being placed in the coming Finance Committee meeting
14.9	To consider formats of Honorary degree of D.Litt, and MCA degree	The Senate considered formats of Honorary degree of D.Litt, and MCA degree. Modifications in the proposed format for D.Litt were suggested. After incorporating some modifications, the degree formats were approved. Minutes of the item were confirmed as Honorary degree of D.Litt was to be awarded in the 7 th Convocation.	Action taken
14.10	To consider and approve the Academic Calendar for the session 2010-2011	Draft of the Academic Calendar for the Session 2010-2011 was considered. It was decided that the draft calendar be referred to the SCSA for finalizing the same to take into account holidays of the year 2011.	Action taken
14.11	To consider and approve the proposal of the Electronics & Communication Engg. Deptt. for changing the name of existing M.Tech specialization from Electronics & Communication Engg. to Communication Systems	The Senate considered the proposal of Electronics & Communication Engg Deptt. for changing name of the existing M.Tech specialization from Electronics & Communication Engg. to Communication Systems. It was decided that the matter of change in nomenclature be referred to MHRD for approval.	Action taken
14.12	To consider inclusion of MBA and MCA disciplines in the Information Brochure of Ph.D	The Senate considered and approved inclusion of MBA and MCA disciplines in the Information Brochure of Ph.D. Minutes of the item were confirmed so that necessary changes be incorporated in the Information Brochure for Ph.D admissions for the next Academic Session.	Action taken
14.13	To consider the request of M.Tech. 1 st year students for continuing GATE scholarship	The Senate considered the request of M.Tech. 1 st year students for continuing GATE scholarship. The Senate did not agree to their request.	No further action required.

Item 15.3 To consider and approve decisions taken in 28th and 29th meetings of Standing Committee on Senate Affairs (SCSA)

After 14th meeting of the Senate, 28th and 29th meetings of SCSA were held. The minutes of these meetings have already been circulated to all the members of the Senate on 07.05.2010 and 15.6.2010 respectively which are enclosed as Appendix 15.3 from page 14 to 42.

The Senate may consider and approve the same.

NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136119

No. Acad./2010/ 28th SCSA 12540

Dated: 06.05.2010

7

Minutes of the 28th SCSA meeting held on 03.05.2010 at 11.00 am
in the Office of the Director of the Institute

The following were present:

- | | |
|---|-----------------|
| 1. Dr. M N Bandyopadhyay, Director | In Chair |
| 2. Dr. Krishna Gopal, Dean (P&D) | |
| 3. Prof. R K Bansal, Dean (Academic) | |
| 4. Dr. T K Garg, Dean (Faculty Welfare) | |
| 5. Dr S K Sharma, Dean (Estate, Construction & Elect. Mainte.) | |
| 6. Dr. Kuldeep Kumar, Professor & Head, Mathematics Department | |
| 7. Dr. N.K Gupta, Professor & Head, Civil Engineering Department | |
| 8. Dr. S S Rattan, Professor & Head, Mech. Engg. Deptt. | |
| 9. Dr. K S Sandhu, Professor & Head, Electrical Engg. Deptt. | |
| 10. Dr. Rajender Kumar, Controller of Examinations | |
| 11. Dr. S K Mahna, Professor & Head, Physics Deptt. | |
| 12. Dr. R K Sharma, Associate Professor & Head, Elect. & Comm. Engg. Deptt. | |
| 13. Dr. S.M Gupta, Secretary, Alumni Association as Special Invitee for Item No.2 | |
| 14. Dr. Dinesh Kumar, Associate Professor & Head, Chemistry Deptt. | |
| 15. Prof. (Mrs.) Manjula Sharma, Associate Professor & Head, HuSS Deptt. | |
| 16. Dr. Ashwani Jain, Prof. Incharge (Academic & Senate Affairs) | |
| 17. Dr. Mayank Dave, Associate Professor & Head, Computer Applications & Computer Engg. Deptt | Secretary, SCSA |
| 18. Sh. R P S Lohchab, Registrar | |

The following decisions were taken:

1. To consider the recommendations submitted by the Committee constituted for reviewing the existing Ph.D. Ordinance of the Institute as per UGC Regulation, 2009

The SCSA considered the recommendations submitted by the Committee constituted for reviewing the existing Ph.D. Ordinance of the Institute as per UGC Regulation, 2009. The recommendations were discussed in detail and some modifications were suggested. It was decided that introduction of admission test and course work may be deferred for the time being. Other revisions suggested by the committee were accepted with minor modifications. The modified and approved Ph.D. Ordinance of the Institute, applicable from Session 2010-2011, is enclosed as Appendix-I.

2. **To consider the matter of funding of Dr. R.P. Singh Medal**

The SCSA considered the matter of funding of Dr. R.P. Singh Medal. It was decided that the matter of shortfall of funds for the award of medal be referred to the Finance Committee for consideration. The SCSA was of the view that the Institute should frame a general policy for accepting the offers to institute medals to be awarded in specific names or for specific cause etc.

3. **To consider the Academic Calendar for the Session 2010-2011**

The SCSA considered the Academic Calendar for the Session 2010-2011. Some modifications were suggested. The modified and approved Academic Calendar for the Session 2010-2011 is enclosed as Appendix-II.

4. **To consider the requests of Ms. Monika Gupta and Mr. Kushal Sharma, full-time Ph.D research scholars in the Departments of Physics and Mathematics for fee waiver**

The SCSA considered the requests of Ms. Monika Gupta and Mr. Kushal Sharma, full-time Ph.D research scholars in the Departments of Physics and Mathematics for fee waiver. The SCSA did not agree to their request.

5. **To consider the request of Mr. Pawan Kumar, Ph.D. research scholar in Mathematics for conversion of his registration from full-time to part-time**

The SCSA considered and allowed conversion of Ph.D. registration of Mr. Pawan Kumar, research scholar in the Deptt. of Mathematics from full-time to part-time.

6. **To consider the requests of Mr. Raghendra Tiwari, Roll No. 803/03, M.Tech (EC&CE) student and Mr. Raj Kumar Saini, Roll No. 707/04, M.Tech (Civil Engg.) student for granting extension for submitting M.Tech dissertations in their respective specializations**

The SCSA considered the requests of Mr. Raghendra Tiwari, Roll No. 803/03, M.Tech (EC&CE) student and Mr. Raj Kumar Saini, Roll No. 707/04, M.Tech (Civil Engg.) student for granting extension for submitting M.Tech dissertations in their respective specializations. It was decided that the matter be referred to the Senate for consideration.

7. **Any Other Item**

Under any other item

1. The SCSA considered the request of some B.Tech. final year students for allowing them to reappear in internal sessional improvement for both odd and even semesters simultaneously. The SCSA did not agree to their request. Further, it was decided that the matter be referred to the Senate.

2. The SCSA considered and approved the proposed revisions in the syllabi of the following subjects w.e.f. Session 2010-2011

- i) B.Tech. 3rd Semester (Mech.) MET-203 Strength of Materials-I
- ii) B.Tech. 4th Semester (Mech.) MET-204 Strength of Materials-II
- iii) B.Tech. 3rd Semester (IEM) IEM-203 Strength of Materials

The revised and approved syllabi are enclosed as Appendix-III.

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

6/5/2010

(R P S Lonchab)
Registrar & Secretary, SCSA

6/5/2010

**NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA**

**ORDINANCES & REGULATIONS FOR THE
DEGREE OF DOCTOR OF PHILOSOPHY**

PREAMBLE

The National Institute of Technology, Kurukshetra offers through its Departments, postgraduate programmes leading to the award of the Doctorate (Ph.D.) degree. The award of the Doctorate degree is in recognition of high academic achievements, quality research, and application of knowledge to the solution of technical and scientific problems in Science, Technology, and Humanities & Social Sciences.

The Institute undertakes sponsored research and development projects from industrial and other organizations in public, as well as in private sectors. The Institute also provides opportunities for research in inter-disciplinary areas through a system of co-supervision.

The research work is required to be an original work characterized either by the discovery of facts, or by a fresh approach towards the interpretation and application of facts, or development of equipment, making a significant and distinct advance in technology. It shall evince the scholar's capacity for critical examination and sound judgment and shall represent original contribution to the existing knowledge.

ORDINANCES**1. DEFINITIONS**

- (i) "NITK" shall mean the National Institute of Technology, Kurukshetra.
- (ii) "Research Scholar" shall mean a person who is registered for the Ph.D. programme in a Department of the NITK.
- (iii) "Part-time Research Scholar" shall mean a research scholar who in addition to devoting his/her time towards discharging his/her employment responsibilities also devotes his/her time towards the pursuit of his/ her Ph.D. research programme.
- (iv) "Full-time Research Scholar" shall mean a research scholar devoting full time at NITK towards the pursuit of his Ph.D. research programme.
- (v) "Supervisor" shall mean a member of the academic staff of the NITK, appointed by the DRC to guide/supervise the Ph.D. research/academic work of the scholar.
- (vi) "Co-Supervisor" shall mean additional supervisor(s) as appointed by the DRC. The Co-supervisor(s) may be from NITK itself, or from any other reputed laboratory, research institute, reputed Institutes like IIT's, NIT's, and reputed Universities. The Co-supervisor(s) must have the academic and research qualifications as prescribed for a supervisor.
- (vii) "Caretaker Supervisor" shall mean a supervisor appointed to look after the scholar's research interests in the absence of the regular supervisor when the synopsis of the thesis has been submitted. The caretaker supervisor also must have the academic and research qualifications as prescribed for a supervisor.

- (viii) "Educational Institute" shall mean those institutes/colleges which run full-time Bachelor's or higher degree programmes.
- (ix) "ORG" shall mean a PSU/Govt. Deptt. / R&D Unit.
- (x) "Registration Period" shall mean the length of the time span for which a person remains a research scholar.
- (xi) "Minimum Registration Period" shall mean the minimum period for which a scholar must be registered to complete the requirements for the degree of Ph.D.
- (xii) "Degree" shall mean the Degree of Doctor of Philosophy (Ph.D.) of the NITK.
- (xiii) "Dean" shall mean the Dean (Academic) of the NITK.
- (xiv) "COE" shall mean the Controller of Examinations of the NITK.
- (xv) "HOD" shall mean Head of Department in which Research Scholar is registered/ proposes to register.
- (xvi) "DRC" shall mean the Department Research Committee of a Deptt. of NITK.
- (xvii) "BOS" shall mean the Board of Studies of a Deptt. of the NITK.
- (xviii) "RAC" shall mean Research Advisory Committee of the research scholar.

NOTE: 'He' & 'His' imply 'he' / 'she' and 'his' / 'her' respectively in the whole of this document.

2. SALIENT FEATURES

1. The applicant, if employed, must send his application through the competent authority.
2. The date of initial registration of a scholar shall normally be the date on which he formally registers and deposits the fees for the first time for the Ph.D. programme, which shall also be the date of his joining the programme for all intents and purposes.
3. In case of change of status from full-time to part-time, the time spent as a full-time scholar will be taken into account suitably for the purpose of minimum registration period requirement.
4. If a scholar withdraws from his Ph.D. programme or his registration is terminated, his research scholar status ceases w.e.f. the date of such act.
5. Once a scholar is deregistered from the Ph.D. programme, he cannot apply again before the lapse of two years from the date of deregistration.
6. At the close of every semester, a scholar is required to submit his semester progress report by the due date to the Chairman of the DRC. The progress shall be evaluated by the DRC.
7. The scholar should be present in the Deptt. when a DRC meeting is held for evaluating the progress, or for comprehensive examination/presentation.
8. If due to compelling adverse circumstances (as considered so by the DRC), a scholar is not able to submit his progress report by the stipulated date, or the progress of a scholar is adjudged by the DRC as unsatisfactory, he, on his request, can be allowed an additional chance for the same. He will improve his work and

submit the report again at the close of the following semester (after six months). During this semester, he can be registered provisionally only (the normal semester fees, however, will have to be paid), and the minimum registration period requirement will automatically get extended by six months. Further, if he receives scholarship, his scholarship for these six months will be stopped.

Only one such chance can be allowed to a scholar during his entire Ph.D. programme.

If, even on having been granted extension, he does not submit the progress report within the stipulated time or on resubmission also, the progress is adjudged as unsatisfactory; his registration shall stand automatically cancelled.

9. A scholar must submit his research plan proposal and qualify the comprehensive examination within 3-12 months of the initial registration, failing which his registration can be cancelled.
10. If due to compelling adverse circumstances (as considered so by the DRC), a scholar is not able to submit his research plan proposal and appear in the comprehensive examination as stipulated above, or he is not able to pass the comprehensive examination within 12 months period, he, on his request, can be granted an extension of six months. During this semester, he can be registered provisionally only (the normal semester fees, however, will have to be paid), and minimum registration period requirement will automatically get extended by six months. Further, if he receives scholarship, his scholarship for these six months will be stopped.
Only one such chance can be allowed to a scholar.
11. The scholar must inform the HOD well in time (at least fifteen days in advance), through his supervisor(s), about his plans to appear in the comprehensive examination, to deliver pre-synopsis seminar, and to submit the synopsis and the thesis - all as per regulations.
12. A research scholar can submit his thesis only on having published at least two research papers out of his Ph.D. research work in refereed journals.
13. A research scholar is required to complete all the requirements for the award of the Ph.D. degree within the specified period as per the regulations.
14. Every research scholar is to abide by all the regulations and the amendments made from time to time.
15. It is the responsibility of the research scholar himself to be in the knowledge of the amendments (if any) in the ordinances and the regulations. No scholar will be informed individually; the related circulars/amendments would be available in the office of the HOD/Dean. The amendments are incorporated in the prospectus and the amended version is put on the Institute web site also. He/she should maintain frequent contact with the supervisor for the purpose.
16. No TA/DA etc is admissible to any research scholar whenever he is to visit NITK, or any other place in connection with the Ph.D. research work.
17. In case of a change in the contact telephone number / correspondence address, the scholar must immediately inform his supervisor, the HOD, and the Dean.

REGULATIONS

The following Regulations shall apply to all categories of candidates' research scholars pursuing courses of study and research leading to the degree of Ph.D.

R-1

CLASSIFICATIONS

The applicants' scholars shall be classified in the following ways-

(A) On the basis of the time devotion to the Ph.D. programme-

i) Full-time

ii) Part-time

(B) On the basis of the occupation-

i) Teacher, i.e., a person on the faculty of a Deptt. of a teaching institute.

ii) Non-teacher

iii) Project staff A person working on a project undertaken by the Institute (NITK). The Ph.D. programme of such a person should be related to his project work.

(C) On the basis of the country he belongs to-

i) Indian

ii) Foreign nationals admitted through Embassy of the respective Govts. after getting approval from the Ministry of External Affairs and 'No Objection Certificate' from the Ministry of Human Resource Development, Department of Education, and Govt. of India or admitted under an MoU.

(D) On the basis of the financial assistance-

i) Self-financed A person who does not receive financial help like scholarship/ assistantship from NITK, or from any other source during his Ph.D. programme.

ii) Fellowship/Scholarship Awardees

(a) A research scholar getting NITK fellowship/ scholarship.

(b) A research scholar receiving fellowship/ scholarship from outside organizations such as CSIR, UGC, QIP, DST, AICTE etc. and not covered under (B) iii) above.

(c) A research scholar receiving fellowship/ scholarship from ICCR, Govt. of India. Such a person is sponsored by his parent Government and is admitted to the Ph.D. programme through Indian Embassy in his country.

R-2

CONSTITUTION OF DEPARTMENT RESEARCH COMMITTEE

The DRC shall consist of the following, provided each qualifies to be a Ph.D. supervisor-

(i) HOD

(ii) All Professors of the Department

(iii) Three Associate Professors of the department by rotation. The term of an Associate Professor will be about 2 years, the changeover taking effect on July 1.

- (iv) Supervisors of the scholars. They do not, however, constitute the regular members (unless covered under (i) or (ii) or (iii)). They participate in DRC meetings only when the cases of their respective scholars are taken up. Also, the proposed supervisor is to be invited to participate in the DRC meeting when the case of his prospective candidate is taken up.

The HOD shall be the Chairman of the DRC. If the HOD does not qualify, the senior most qualifying faculty member of the Deptt. will act as the Chairman of the DRC. Faculty members, qualified to be supervisors, can only be members of DRC.

R-3 ELIGIBILITY

R-3.1 Educational Qualifications:

An applicant possessing the following qualification shall be eligible for admission to a Ph.D. programme of the Institute (degrees obtained through distance education mode shall not be acceptable).

i) Engineering Stream-

(a) Master's degree (M.Tech./ M.E./ M.S.) or equivalent in appropriate discipline with a minimum CGPA of 7.0 or 65% marks in aggregate (of all the years/semesters of the course), preceded by a First Class Bachelor's degree in Engg./Tech.

Or

(b) Master's degree (M.Tech./ M.E./ M.S.) or equivalent in appropriate discipline with a minimum CGPA of 6.7 or 60% marks in aggregate (of all the years/semesters of the course) preceded by a First Class Bachelor's degree in Engg./Tech. and a minimum of 15 years of regular service in Govt. Organizations or educational institutes.

Or

(c) Bachelor's degree (B.Tech./ B.E.) in appropriate discipline, or equivalent, with a minimum CGPA of 9.5 or 90% marks in aggregate (of all the years/semesters of the course). Such a candidate has to clear compulsorily at least four theory courses of M. Tech. in relevant discipline, as decided by the DRC.

Or

(d) Bachelor's degree (B.Tech./ B.E.) in appropriate discipline, or equivalent, with a minimum CGPA of 7.6 or 70% marks in aggregate (of all the years/ semesters of the course), and a minimum of 15 years of regular service in Govt. Organizations or teaching institutes of degree level. Such a candidate has to clear compulsorily at least four theory courses of M.Tech. in relevant discipline, as decided by the DRC.

ii) Sciences, Mathematics & Computer Applications Streams-

First Master's degree in the appropriate discipline, or equivalent, with a minimum CGPA of 7.0 or 65% marks in aggregate (of all the years/semesters of the course).

iii) Humanities, Social Sciences & Management Streams-

First Master's degree in the appropriate discipline, or equivalent, with a minimum CGPA of 6.7 or 60% marks in aggregate (of all the years/semesters of the course).

R-3.2 Additional Eligibility Conditions for Part-Time Ph.D. Admission

- a) The applicant should be an employee of an educational institute/org and must have completed on the last day of receiving applications, a minimum of two years of continuous service as at least a Lecturer or equivalent.
- b) The candidate proves to the satisfaction of the DRC that his/her official duties permit him to devote sufficient time to research.
- c) The candidate proves to the satisfaction of the DRC that facilities for pursuing research are available at his place of work in the chosen field of research.
- d) He will be required to visit NTK (on working days) to meet his supervisor in the Deptt. at least twice in each semester at intervals of not less than a month, and such visit be reported to the Chairman of the DRC for record.

R-3.3 Eligibility for Institute Scholarship

Only full-time Ph.D. research scholars are eligible for the award of the Institute scholarship.

A candidate/scholar is required to apply for scholarship. In a particular department, scholarships will be awarded only if these are available in that department.

The eligibility for scholarship and its amount will be as per the guidelines issued from time to time by the Ministry of Human Resources Development, Govt. of India and/or funding agency.

Those who are awarded scholarship from any other source will not be eligible for the institute scholarship.

In case the semester research progress is unsatisfactory, the scholarship shall be discontinued/stopped.

A Ph.D. research scholar receiving scholarship is required to devote at least eight hours per week towards the departmental or institute work assigned to him/her by the HOD/ Director.

R-4 RESERVATION/ RELAXATION

R-4.1 Fifteen percent (15%) scholarship (of the total sanctioned Institutional scholarships) shall be reserved for Scheduled Caste applicants and 7.5% for Scheduled Tribe applicants. A total of 3% scholarships, over and above the sanctioned strength, will be reserved for physically handicapped (PH) applicants in all the Ph.D. programmes of the institute put together.

R-4.2 For the SC/ST/physically handicapped applicants, the eligibility requirement of marks may be relaxed by 5%, or by an equivalent CGPA.

R-5 SHORTLISTING and ADMISSION

- (a) The DRC will check the eligibility of the applicants.
 - (b) If considered necessary, the DRC may set short listing criteria, higher than the minimum eligibility as defined above.
 - (c) The basic guidelines/ instructions for short listing will be framed and issued by the DRC with a copy of the same to the Director.
 - (d) The short listing of applicants for the purpose of admission test/ interview will be done by the DRC.
 - (e) The eligible applicants will be tested by the DRC through seminar/ presentation/ test/ interview.
- In case a candidate is adjudged unfit for registration, he, if interested, can improve and apply afresh after a gap of minimum one semester.
- (f) The DRC will recommend the candidates to the Dean for registration.
 - (g) After getting the certificates checked, and the Dean's approval, the candidate may deposit the fees etc. The candidate must deposit his fees within 15 days of the Dean's approval or as notified by Dean, failing which the candidature shall stand cancelled.

All efforts should be made by the concerned Departments and the academic section that the registration process of Ph.D. candidates is completed within one month of the start of the semester.

R-6 REGISTRATION

- R-6.1** A candidate is deemed to have been registered on completion of admission process for the 1st semester of the programme. Every scholar is required to deposit the fees and renew the registration every semester till the submission of the thesis. The renewal of registration every semester shall be subject to the satisfactory progress in his/ her research work as recommended by the DRC. If a scholar's progress is adjudged as unsatisfactory, the DRC may recommend notional registration; however such a chance can be allowed only once during the whole period. A scholar should deposit his semester registration fees only after having been notified by the Academic section that the concerned DRC has recommended his registration for that semester. The Academic section is to send the list of the duly registered scholars to the concerned Deptt. in the beginning of every semester.

R-6.2 Time Period Requirement for Thesis Submission

- a) The minimum period of registration shall be two years for a full-time scholar, and three years for a part-time scholar.
- b) The maximum time for the submission of the thesis for a full-time scholar is five years, and that for a part-time scholar is six years from the date of the initial registration for the Ph.D. programme. However, as a special case, on the recommendation of the Chairman of the DRC and the Dean, this limit may be extended up to a maximum period of seven years on yearly basis for both the categories by the Director, beyond which the registration shall stand cancelled automatically.

R-7

THESIS SUPERVISOR(S)

- R-7.1 Every registered scholar shall be assigned a research supervisor as approved by the DRC.
- R-7.2 Any regular full-time faculty member of the concerned Deptt. of the NITK holding a Doctorate degree and minimum two research papers published in the refereed journals, can be appointed a supervisor.
- R-7.3 Depending on the problem, a scholar may be assigned not more than three supervisors, designated as supervisor and co-supervisors. In no case, the number of co-supervisors shall be more than one from NITK.
- R-7.4 **Appointment of alternative Supervisor**

A faculty member appointed as Ph.D. supervisor is normally expected to be available to the research scholar in the institute till the thesis is submitted. However, under unavoidable circumstances, such as long leave, resignation, retirement, or death, an alternative supervisor may have to be appointed. In such special cases, the appointment of the supervisor will be regulated as under:

R-7.4.1 A Supervisor proceeds on leave of one month or more

- (i) If the synopsis of the thesis of the scholar has not yet been submitted,
- a) and the supervisor proceeds on leave for one month or more but less than 18 months, then the supervisor should immediately inform the chairman DRC whether he will continue to guide and supervise the research work of his scholar effectively during his leave period or not. In case he does not inform within five days of the commencement of his leave, or informs that he will not be able to guide effectively, then he ceases to be the supervisor of that scholar.
 - b) and if at any point of time, the total period of long (a month, or greater) leaves of the supervisor of a scholar equals or exceeds 18 months, that supervisor automatically ceases to be his/ her supervisor.
 - c) and if a supervisor proceeds on leave for 18 months or more, he ceases to be the supervisor.
 - d) and once a supervisor ceases to be the supervisor, he can not again become the supervisor of that scholar.

In above cases a), b), c) and d), when a supervisor ceases to be the supervisor, the other supervisor (of NITK) if there, shall act as the supervisor; and if there is no 'other' supervisor, the DRC shall immediately appoint alternative supervisor for the scholar.

- (ii) If the thesis/ synopsis of the thesis has been submitted before the supervisor proceeds on leave,

and he consents to continue to be the supervisor, then he can continue to be so. If he declines, and there is no co-supervisor (of NITK), a caretaker supervisor will have to be appointed.

Further, if major revision becomes necessary, and the co-supervisor or the caretaker supervisor provides the required help in carrying out the major revision, he will automatically be treated as a supervisor of that candidate.

R-7.4.2 A Supervisor retires

A faculty member, who is due to retire within the next two years from the date the DRC meets to appoint a supervisor, can not be appointed a supervisor. If a faculty member on retirement informs that he shall continue effectively supervising the scholar, can continue as a supervisor, if either reemployed, or appointed Emeritus Fellow, or the synopsis of the thesis has been submitted, or the Director is convinced of his/her availability/continued guidance to the scholar and permits him to continue. If necessary, alternative/ caretaker supervisor be appointed by the DRC.

R-7.4.3 A Supervisor resigns

If necessary, alternative/ caretaker supervisor be appointed by the DRC.

R-7.4.4 A Supervisor expires

If necessary, alternative/ caretaker supervisor be appointed by the DRC.

- R-7.5** At no point of time there shall be more than six research scholars being supervised by any faculty member. A scholar being guided jointly will be counted as $\frac{1}{2}$ irrespective of number of co-supervisors.

R-8 COURSES AND CREDITS

A research scholar shall have to meet the requirements of the courses and the credits as decided by the Senate from time to time.

DRC may appoint a three member RAC, under intimation to Dean, for a research scholar and may delegate some or all of its functions to RAC. The members of RAC shall be (i) Supervisor, (ii) A DRC member other than supervisors (iii) DRC member/ Co-supervisor/Outside Expert.

R-9 COMPREHENSIVE EVALUATION

- R-9.1** Every scholar is required to take comprehensive examination, which will test his comprehensiveness in broad field of research, and his academic preparation and potential to carry out the research. The comprehensive evaluation may be a combination of written and oral examinations, and may be separately conducted before evaluation of the research plan proposal. The written as well as the oral examination will be conducted by the DRC. Every scholar must pass the comprehensive examination within 3-12 months of his initial registration.

Every scholar is also required to submit his research plan proposal. The research plan proposal, giving a brief account of the related work already reported in the literature, should clearly spell out the objective, justify the need of the objective, and the methodology to be followed to achieve that objective. Subsequently, the research work should be carried out in accordance with the approved research plan.

- R-9.2** The following procedure is to be uniformly followed by all the Departments in conducting the comprehensive evaluation of the Ph.D. scholars.

- (a) The written examination should be conducted by the DRC.
- (b) The result of the written examination should be declared within two weeks as passed/ failed.

- (c) After the scholar has passed the written examination, the oral examination should be conducted by the DRC of the candidate.
- (d) After passing in the oral examination, the research proposal will be evaluated by the DRC through seminar.

R-9.3 (a) Written and oral examination

If a scholar fails in written/oral examination, he/she can reappear in the examination only after a period of three months.

(b) Research Plan

In case research plan is not approved by the DRC, the scholar will have to improve the research plan as per the suggestions of the DRC and get it reevaluated.

R-9.4 A scholar will be allowed a maximum of two attempts to pass the comprehensive evaluation within 3-12 months.

R-9.5 All the scholars must submit their research plan proposals, and qualify comprehensive evaluation between 3-12 months of their first registration, failing which their registration will be cancelled.

If due to compelling adverse circumstances (as considered so by the DRC), a scholar is not able to submit his research plan proposal and appear in the comprehensive examination as stipulated above, or he is not able to pass the comprehensive examination within 12 months period, he, on his request, can be granted an extension of six months. During this semester, he can be registered provisionally only (the normal semester fees, however, will have to be paid), and minimum registration period requirement will automatically get extended by six months. Further, if he receives scholarship, his scholarship for these six months will be stopped.

Only one such chance can be allowed to a scholar.

R-10

PERFORMANCE MONITORING

R-10.1 The academic/research progress of each scholar will be monitored by the DRC. For this purpose, at the end of each semester, a scholar is required to submit through his supervisor the semester progress report, clearly highlighting the work carried out during that semester. The progress report, giving appropriate headings, must cover i) summary of the work done and results obtained before the start of the semester under report, ii) the goal set for this semester, iii) the methodology used in achieving the goal, and iv) the extent of the fulfillment of the goal.

When a DRC meeting is held for evaluating the progress, or for comprehensive examination/ presentation, the scholar should be present in the Dept. The DRC will evaluate the progress reports of the scholars through seminar/ presentation/ interview/ discussion.

R-10.2 The Chairman DRC in the Department will coordinate, every semester, the collection of progress reports written and signed by the scholars and forwarded by the supervisor.

R-10.3 If due to compelling adverse circumstances (as considered so by the DRC), a scholar is not able to submit his progress report by the stipulated date, or the progress of a scholar is adjudged by the DRC as unsatisfactory, he, on his request, can be allowed an additional chance for the same. He will progress/improve his work and submit the report again at the close of the following semester (after six months). During this semester, he can be registered provisionally only (the normal semester fees, however, will have to be paid), and the minimum registration period requirement will automatically get extended by six months. Further, if he receives scholarship, his scholarship for these six months will be stopped.

Only one such chance can be allowed to a scholar during his entire Ph.D. programme.

If, even on having been granted extension, he does not submit the progress report within the stipulated time or on resubmission also, the progress is adjudged as unsatisfactory, his registration shall stand cancelled and he is no more a research scholar of the Institute.

R-10.4 The cases where some positive action is taken will be reported to the Director.

R-11 SEMINAR/ SYNOPSIS/ PANEL OF EXAMINERS

R-11.1 Seminar

- a) The DRC shall assess the work of the scholar through a pre-synopsis seminar, which will be held not earlier than 18 months for full-time, and 24 months for part-time scholars from the date of passing comprehensive evaluation.
- b) The schedule of the pre-synopsis seminar shall be notified well in advance (at least three days in advance) so as to enable the interested staff members and the students to attend it.

R-11.2 Synopsis

The scholar will submit the synopsis only on supervisor's satisfaction on quality of the work. The synopsis should precisely reflect all aspects of the research work to be included in the thesis.

- a. On completion of the research work the candidate shall submit to the Chairman DRC through his supervisor, 8 copies of the synopsis in the same format as specified for the thesis. The DRC will examine the synopsis, and the Chairman DRC shall forward the synopsis with its recommendations to the Dean.
- b. The synopsis should be submitted normally within 2 months after the presentation of pre-synopsis seminar. In case the synopsis is not submitted in the specified period, the scholar may be asked to present another pre-synopsis seminar.
- c. The scholar shall submit the synopsis of his/her work normally at least one month before submitting the thesis.

- d. The scholar shall be required to submit fresh synopsis if he/ she fails to submit his/her thesis within 8 months of the submission of the earlier synopsis. However, in case a scholar fails to submit his/ her thesis within the stipulated time and has suitable justification for the same, the Director may on recommendations of the DRC and on individual merits of each case grant him/her extension in time of not more than two months, i.e., the scholar may be allowed to submit his/her thesis within a period normally not exceeding 10 months from the date of the submission of the synopsis. However, the thesis should be submitted within the prescribed time limit as per regulations.

R-11.3 Panel of Examiners

A panel of at least ten external experts, including foreign experts, and the authors of the recent papers in the references cited by the scholar in the area of his Ph.D. work would be suggested to the DRC by the Supervisor. The DRC will consider the suggested panel and will finally recommend to the BOS a panel of ten external examiners, which will include at least three examiners from outside India, from advanced/developed countries and the rest from India, preferably from the institutes of repute. The DRC shall also recommend the internal examiner, who normally would be the scholar's supervisor. The recommended panel will be considered and approved/ modified by BOS.

R-12

BOARD OF EXAMINERS

On receipt of the title and synopsis of the thesis, the Director will appoint a Board of Examiners for each candidate from the list approved by the BOS. The Board of examiners will consist of one internal examiner, and two external examiners, one out of which **would be from within India, and the other from abroad.** These external examiners shall be chosen normally from the panel of examiners recommended by the BOS as aforesaid. A person working in the same organization(s)/ institute(s) where the research scholar is employed cannot, however, be appointed as External Examiner for that research scholar.

For evaluating the thesis, an honorarium at the rate of Rs. 3000/- per thesis is payable to the Indian external examiner and at the rate of US \$ 200/- or equivalent is payable to the foreign external examiner. The viva-voce examination of the scholar will be conducted by the Indian external examiner, who will be paid an additional honorarium of Rs. 2000/-.

An examiner will be reimbursed TA/DA as per the Institute (NITK) rules. He will also be reimbursed all associated correspondence expenses incurred by him for the purpose of examination.

R-13

THESIS SUBMISSION

- R-13.1 The scholar will submit a soft copy of the thesis in PDF format on CD, and four unbound copies with soft covers, typed in English, one and a half spaced, printed in Times New Roman 12 pt. or Arial 11 pt. on both sides of A-4 size papers, having margins 1.25" - left, 1.0" - right, 1.0" - top and 1.0" - bottom, along with the examination form and the examination fee of Rs. 5000/-. The examination form will be available with the COE.

R-13.2 The thesis shall contain a critical account of the research carried out by the scholar. It should be characterized by discovery of facts or fresh approach towards interpretation of facts and theories or significant contribution to knowledge or development or a combination of these. It should bear evidence of the scholar's capacity for analysis and judgment as well as ability to carry out independent investigation, design or development.

No part of the thesis or supplementary published work should have been submitted for the award of any other degree or diploma.

A research scholar can submit his thesis only on having published at least two research papers out of his Ph.D. research work in refereed journals.

R-13.3 A candidate can submit his/her thesis within the time period as stipulated in regulations provided that he/she has completed the minimum period of registration.

R-14 THESIS EVALUATION

All correspondence/ notifications in regard to thesis evaluation and viva-voce examination of the scholar (except where stated otherwise) shall be done by the Controller of Examinations. Except for the correspondence with the candidate or general circulars/ notifications, the correspondence shall be confidential.

R-14.1 Each examiner will be requested to submit a detailed assessment report and his /her recommendation within six weeks of the date of receiving the thesis.

- i) The examiners will examine the thesis individually with a view to judge that the thesis is a piece of research work characterized by:
 - a) The discovery of facts, or
 - b) A fresh approach towards interpretation and application of facts or theories, or
 - c) A distinct advancement in technology.
- ii) Each examiner is required to give his/her opinion about candidate's capacity for critical examination and sound judgment. The examiner will submit the report to the Controller of Examinations on the prescribed form supplied by him clearly recommending that:
 - a) The thesis is accepted for the award of the Ph.D. degree subject to the candidate's giving satisfactory answer to the queries specifically mentioned in the report, at the time of Viva-Voce examination, or
 - b) The candidate be asked to resubmit his/her thesis in the revised form, or
 - c) The thesis be rejected.

R-14.2 In the event of the thesis report not being received from an examiner within a period of three months from the date of dispatch, the Director may approve alternate examiner in his place for evaluating the thesis from the approved list of examiners. Before corresponding with the alternate examiner, the original

examiner must be informed by the COE of the cancellation of his appointment, stating the reason therein.

R-14.3 a) If all the three examiners give the same recommendation, i.e., acceptance or revision, or rejection, that recommendation shall be accepted.

b) If any two of the three examiners recommend rejection, the thesis shall be rejected.

c) If one examiner recommends acceptance, and the other two recommend revision, the recommendation 'revision' is accepted.

d) If one examiner recommends rejection, then the comments and the recommendation made by the other two examiners be sent to that examiner and his/her revised clear verdict sought. That examiner may then recommend acceptance, or revision, or rejection.

(i) If the two examiners had recommended acceptance, and

(a) the revised verdict of the third is acceptance; the thesis is accepted,

(b) the revised verdict of the third is revision, or rejection; the fourth examiner will be appointed for evaluating the thesis.

(ii) If the two examiners had recommended revision, and

(a) the revised verdict of the third is revision, or acceptance; the recommendation 'revision' is accepted.

(b) the revised verdict of the third remains rejection; the fourth examiner will be appointed for evaluating the thesis.

(iii) If one of the two examiners had recommended acceptance, and the other, revision, and

(a) the revised verdict of the third is revision, or acceptance; the recommendation 'revision' is accepted.

(b) the revised verdict of the third remains rejection; the fourth examiner will be appointed for evaluating the thesis.

e) If one examiner recommends revision, and the other two recommend acceptance, then the comments and the recommendation made by the other two examiners be sent to that examiner and his/her revised clear verdict sought. That examiner may then recommend acceptance, or revision.

(a) If the revised verdict of the third is acceptance; the thesis is accepted,

(b) If the revised verdict of the third remains revision; the fourth examiner will be appointed for evaluating the thesis.

R-14.4 The fourth examiner, if required, would be appointed by the Director from the panel of the examiners already approved. The new (fourth) examiner shall be Indian or Foreigner depending on whether the thesis was recommended to be rejected/revise by an Indian or a foreign examiner in the first instance. The reports of all the examiners will be sent to him/ her without revealing the identity of the examiners, along with the response of the candidate, if any, to these. The decision accept, revise, or reject will be taken as follows, keeping in view his recommendations.

For R-14.3 d) (i) (b) - the recommendation of the fourth examiner shall be accepted.

For R-14.3 d) (ii) (b) - if the recommendation of the fourth examiner is acceptance, or revision, the thesis is to be revised. If the recommendation is rejection, the thesis shall be rejected.

For R-14.3 d) (ii) (b), if the recommendation of the fourth examiner is acceptance, or revision, the thesis is to be revised. If the recommendation is rejection, the thesis shall be rejected.

For R-14.3 e) (b), if the recommendation of the fourth examiner is rejection, or revision, the thesis is to be revised. If the recommendation is accept, the thesis shall be accepted.

Any doubt arising out of the procedure laid down above shall be referred to the Director for a decision.

R-15 RESUBMISSION

When a thesis is to be revised and resubmitted, the scholar should be informed about the comments of the examiners. The revised thesis is to be submitted within one year, but not earlier than three months.

A fresh fee for the examination shall be paid by the scholar.

The revised version of the thesis will be sent to all the examiners for their fresh recommendations.

R-16 VIVA-VOCE EXAMINATION

On receipt of the thesis examination reports from the examiners, the COE shall send all such reports to the Director for further necessary action. The Director, on the basis of the reports will decide whether the candidate should be allowed to appear in the viva-voce examination or not. The Director will send back the reports, along with his decision to the COE for further action in the matter of examination. The Director's decision on the thesis reports shall be communicated by the COE to the scholar, and the Chairman DRC. The COE will intimate names and addresses of the external and internal examiners for the candidate, and the examiners' reports to the HOD.

R-16.1 On having been allowed to appear in the Viva-voce examination, the scholar is to defend his/her work/thesis orally before a Committee of the examiners comprising one internal and one Indian external examiner. The DRC Chairman will coordinate with the external examiner, the internal examiner, and the scholar and will fix a date for holding the viva-voce examination and inform them accordingly. The questions/queries specified by the thesis examiners in their reports shall be intimated to the candidate through his/her supervisor at least one week before the date of conduct of the viva-voce examination. The schedule of the viva-voce examination shall be adequately notified so as to enable interested staff members and students to attend it.

R-16.2(i) In case of non-availability of the Indian External Examiner for conducting the viva-voce examination, the Director may appoint alternate examiner to conduct the viva-voce examination from the existing panel.

- if the need be, the DRC may suggest a fresh panel of examiners.
- (ii) The viva-voce examiners shall be provided with the reports of the thesis examiners before the viva-voce examination.
 - (iii) The internal examiner shall assist the HOD in arranging the viva-voce examination of the candidate as early as possible.
 - (iv) In case of the inability of the internal examiner to have the viva-voce examination conducted due to any reason whatsoever, the Director may appoint another internal examiner, to conduct the viva-voce examination, from amongst the faculty of the department concerned who belongs to the particular field in consultation with Chairman DRC. In such cases also, the Ph.D. work will be deemed to have been carried out under the guidance of the supervisor (s) only.
 - (v) After the viva-voce examination, both the examiners will prepare a detailed joint report giving one of the following three recommendations.
 - (a) recommended for the award of the degree
 - (b) the thesis be resubmitted after a minimum period of six months incorporating the suggestions of the examiners.
 - (c) not recommended for the award of the degree
- The report shall be sent in a confidential cover to the COE under intimation to the HOD.
- (vi) Any other matter not explicitly provided herein or of an exceptional nature, may be referred to the Director for his/her decision.

R-17

AWARD OF THE Ph.D. DEGREE

On the completion of all stages of the examination, a Committee consisting of the Director, the Dean Academic and the Chairman of the DRC concerned shall examine the reports of all the examiners (thesis and viva-voce) and decide as under :-

- (a) that the degree be awarded;
- (b) that the degree shall not be awarded.
 - i) The thesis is to be resubmitted.
 - ii) The thesis is rejected on the conclusion that the thesis is not genuinely the work of the candidate.

For (b) i) above, the Committee, if required, shall provide to the candidate a list of all corrections and modifications to be made in the thesis, including suggestions made by the examiners during the thesis evaluation, and the result of the candidate will be declared after the candidate submits two copies of the corrected thesis certified by the internal examiner that the necessary corrections and modifications have been made.

R-18 INSTITUTIONAL SCHOLARSHIP

R-18.1 Those candidates who are admitted on full-time basis are considered on request, for the award of institutional scholarship of the amount as decided by the Board of Governors and directed by the Government of India from time to time. The scholar must submit a certificate to the effect that he is not in receipt of any financial aid from any other source for pursuing the Ph.D. research work. The scholars getting institutional scholarships are required to provide 8 hrs of work per week as directed by the HOD/ Director.

A scholar is liable to refund whole of the financial assistance/scholarship received if he abandons and leaves his Ph.D. work without completing it.

R-18.2 In addition, the scholars will be provided contingency grant in accordance with the rules of the Institute.

It is to be noted that admission to the Programmes and award of scholarship are not linked. Admission to a programme does not guarantee the award of scholarship. Those who are not awarded scholarship can continue with the programmes as self-financed scholars.

The Institute may provide fee waiver subject to the final approval of Director on the recommendation of DRC & Dean

R-19 LEAVE AND ATTENDANCE

All full-time research scholars are required to mark their daily attendance in the attendance register maintained by the Deptt. The Chairman DRC shall also maintain a proper leave account of each such scholar. The leave of a scholar should be recommended by his Supervisor and shall be sanctioned by the Chairman DRC.

A full-time research scholar is entitled to avail leave as per Leave and Attendance Rules formulated and amended from time to time by the Senate. Presently these are as under:

A full-time Ph.D. scholar during his/ her stay at the Institute will be entitled to leave of 30 days including leave on medical grounds, per academic year. He/ she will not be entitled to mid-semester breaks/vacations, summer and winter vacation.

Leave beyond 30 days in an academic year may be granted to a Research Scholar in exceptional cases, subject to the following conditions:

- (i) the leave beyond 30 days will be without scholarship and
- (ii) such an extension of leave upto additional 30 days will be granted only once during the programme of the scholar.

The women research candidate will be eligible for Maternity Leave of one month once during the tenure of the award.

R-20

CANCELLATION OF REGISTRATION

Registration of a candidate can be cancelled in any one of the following eventualities, with due approval of the Director.

- (i) if he/ she absents himself/ herself for a continuous period of four weeks without prior intimation/ sanction of leave.
- (ii) If he /she resigns from the Ph.D. programme.
- (iii) if he/she fails to renew his/ her registration within 4 weeks of the start of the semester as per provision contained in these Ordinances & Regulations.
- (iv) if he/ she does not submit his/ her semester progress report by the stipulated date or his/ her academic progress is found unsatisfactory.
- (v) If he/ she does not clear the comprehensive evaluation as stipulated.
- (vi) If he/ she is found involved in an act of misconduct and/ or indiscipline and a competent authority has recommended termination. For all purposes, the conduct/ discipline rules applicable to B.Tech./ M.Tech. students of the Institute shall apply to Ph.D. research scholars also.
- (vii) If at any stage, information furnished by the scholar in his application is found false or incorrect.

R-21

GENERAL

- R-21.0 All accepted Ph.D. thesis shall be got uploaded on Institute website within Four weeks of acceptance by HOD.
- R-21.1 Notwithstanding anything contained in these Ordinances & Regulations, all categories shall be governed by the rules and procedures framed by the Senate, and in force from time to time.
- R-21.2 Any doubt or dispute about the interpretation of these Ordinances and Regulations shall be referred to the Director whose decision shall be final.
- R-21.3 Eligibility for admission to Ph.D. programmes in different disciplines may, from time to time, be reviewed, approved by the Senate, and implemented.
- R-21.4 All exceptions and issues not covered above may be decided by a committee consisting of the Director, the Dean, the HOD and the Supervisor(s) of the candidate concerned subject to subsequent ratification by the Senate.

Appendix-II

ACADEMIC CALENDAR (SESSION 2010 - 2011)

ODD SEMESTER

1.	Registration	14 to 16 July 2010 (Wednesday to Friday)
2.	Teaching Commences	19.7.2010 (Monday)
3.	Last Date for late registration with late fee of Rs. 250/- with the permission of Dean Academic	26.7.2010 (Monday)
4.	Mid-Semester Exam.-I	26.08.2010 (Thursday) to 28.08.2010 (Saturday)
5.	Mid Semester Vacation	04.10.2010 (Monday) to 06.10.2010 (Friday)
6.	Mid-Semester Exam.-II	18.10.2010(Monday) to 20.10.2010(Wednesday)
7.	Mid-Semester Exam.-III	May be arranged by the teachers as per their convenience
8.	Teaching closes	04.11.2010 (Thursday)
9.	End Semester Exams. begin	15.11.2010 (Monday)
10.	Winter Vacation	29.11.2010 (Monday) to 10.12.2010 (Friday)
11.	Declaration of Result	By the end of December 2010

EVEN SEMESTER

1.	Registration	22.12.2010 to 24.12.2010 (Wednesday to Friday)
2.	Teaching Commences	27.12.2010 (Monday)
3.	Last Date for late registration with late fee of Rs. 250/- with the permission of Dean Academic	03.01.2011 (Monday)
4.	Convocation	First Fortnight of January 2011
5.	Literati-2011	27.01.2011(Thursday) to 30.01.2011(Sunday)
6.	Mid-Semester Exam.-I	03.02.2011 (Thursday) to 05.02.2011 (Saturday)
7.	Confluence-2011	17.02.2011 (Thursday) to 20.02.2011 (Sunday)
8.	Athletic Meet	25.02.2011 (Friday) to 27.02.2011 (Sunday)
9.	Mid Semester Vacation	14.03.2011 (Monday) to 18.03.2011 (Friday)
10.	Mid-Semester Exam.-II	28.03.2011(Monday) to 30.03.2011(Wednesday)
11.	Mid-Semester Exam.-III	May be arranged by the teachers as per their convenience
12.	Teaching closes	29.04.2011 (Friday)
13.	End Semester Exams. begin	08.05.2011 (Monday)
14.	Summer Vacation	23.5.2011 (Monday) to 06.07.2011 (Friday)
15.	Practical Training begins	30.06.2011 (Monday)
16.	Declaration of Result	By the end of June 2011

B. TECH. (3rd SEMESTER) MECHANICAL ENGINEERING
MET-203 STRENGTH OF MATERIALS-I

L	T	W/D	Cr
3	1	-	3.3

- 1. Simple Stress and Strain**
 Concept of stress and strain, normal and shear stresses, Hooke's law, principle of St. Venant, Modulus of elasticity, Modulus of rigidity, stress-strain diagram, elongation due to self weight, column of uniform strength, composite sections, statically indeterminate systems, temperature stresses, strain analysis, Poisson's ratio, volumetric strain, factor of safety, tensile test diagram, elastic constants, relation between elastic constants. (6 hrs)
- 2. Compound Stress and Strain**
 Stresses on an inclined plane, principal stresses and principal planes, Mohr's stress circle, three coplanar stresses, ellipse of stress, strain analysis, principal strains, Mohr's strain circle, principal stresses from principal strains. (5 hrs)
- 3. Strain Energies and Theory of Failures**
 Strain energy, resilience, strain energy in 3-D system, shear strain energy, shear strain energy in 3-D system, stresses due to various types of loading, Different theories of failure, significance, graphical representation. (5 hrs)
- 4. Shear Force and Bending Moment Diagrams**
 Types of supports and beams, shear force, bending moment, relation between load, shear force and bending moment, shear force and bending moment diagrams for various types of loading and supports, maximum bending moment and point of contraflexure, loading and bending moment diagrams from shear force diagrams. (5 hrs)
- 5. Bending Stress in Beams**
 Stresses due to simple bending, moment of inertia, beams with uniform bending strength, composite or flitched beams, unsymmetrical bending, determination of principal axes, ellipse of inertia, combined direct and bending stress, middle-third and middle-quarter rules. (6 hrs)
- 6. Shear Stress in Beams**
 Shear stress distribution, Variation of shear stress in beams of various sections, any combination of sections subjected to shear force, built up beams, shear centre. (5 hrs)
- 7. Slope and Deflection**
 Beam differential equation, slope and deflection at a point, double integration method, Macaulay's method, moment-area method, strain energy methods, Castiglione's theorem, conjugate beam method, Maxwell's reciprocal theorem, deflection of beams due to shear stress. (8 hrs)

Reference Books:

1. G H Ryder, "*Strength of Materials*", ELBS.
2. S S Rattan, "*Strength of Materials*", Tata McGraw Hill, India.
3. Beer P F and Johnston (Jr) E R, "*Mechanics of Materials*", SI Version, Tata McGraw Hill, India.
4. Sadhu Singh "*Strength of Materials*", Khanna Publishers.
5. Popov E F, "*Engineering Mechanics of Solids*", SI Version, Prentice Hall of India, New Delhi.
6. Timoshenko S P and Young D H, "*Elements of Strength of Materials*", East West Press, New Delhi.

B. TECH. (3rd SEMESTER) MECHANICAL ENGINEERING
MET-204 STRENGTH OF MATERIALS-II

L	T	WD	Gr
3	1	-	3.5

- 1. Fixed and Continuous Beams**
Fixed beams, continuous beams and overhanging beams, moment-area method, Macaulay's method, Clapeyron's three moment equation, moment distribution method, slope and deflection of propped (elastic and rigid) cantilevers and beams subjected to point loads and/or uniformly distributed loads. (6 hrs)
- 2. Bending of Curved Bars**
Stresses in bars of small initial curvature; Stresses in bars of large initial curvature, Winkler-Bach theory, stresses in crane hooks, circular hooks, circular rings, single chain links, deflection of curved bars, crane hooks, rings and simple chains. (5 hrs)
- 3. Torsion**
Circular shafts, power transmission, Shear stresses in hollow and solid shafts, shafts in series and parallel, Stepped and composite shafts, shafts subjected to combined bending and twisting loads, equivalent twisting and bending moments, strain energy in torsion, Bredt-Batho theory, thin-walled sections, thin rectangular members. (6 hrs)
- 4. Springs**
Closed-coiled helical springs subjected to axial loads and couples, springs in series and parallel, concentric springs, stresses and deflections in open-coiled helical springs subjected to axial loads, and/or twisting couples, stresses and deflections in leaf springs, flat spiral springs. (5 hrs)
- 5. Columns and Struts**
Columns under axial load, concept of instability and buckling, slenderness ratio, various end conditions, Euler's theory for initially straight columns, assumptions and limitations, empirical formulae, stresses and deflections in eccentrically loaded straight long columns, secant formula, stresses and deflections in struts with initial curvature and in straight long columns with transverse loads for different end conditions. (6 hrs)
- 6. Cylinders and Spheres**
Thin cylinders subjected to internal pressure, Circumferential and longitudinal stresses and strains, Maximum shear stress, thin spherical shells subjected to internal pressure, wire winding of thin cylinders, Lamé's theory, thick cylinders subjected to internal and external pressures, compound cylinders, stresses and strains in thick spherical vessels subjected to internal and external pressures. (6 hrs)

7. **Rotating Discs and Cylinders**

Stresses and strains in rotating rims or rings of uniform thickness, stresses and strains in rotating thin solid and hollow discs of uniform thickness, stresses and strains in rotating thin disc of uniform strength, stresses and strains in rotating solid and hollow cylinders. (6 hrs)

Reference Books:

1. G H Ryder, "Strength of Materials", ELBS.
2. S S Rattan, "Strength of Materials", Tata McGraw Hill, India.
3. Beer P F and Johnston (Jr) E R, "Mechanics of Materials", SI Version, Tata McGraw Hill, India.
4. Sadhu Singh "Strength of Materials", Khanna Publishers.
5. Popov E P, "Engineering Mechanics of Solids", SI Version, Prentice Hall of India, New Delhi.
6. Timoshenko S P and Young D H, "Elements of Strength of Materials", East West Press, New Delhi.

B. TECH. (3rd SEMESTER) IEM
IEM-203 STRENGTH OF MATERIALS

L	T	MD	Cr
3	1	-	3.5

- 1. Simple Stresses and Strains**
Concept of stress and strain, Normal and shear stresses, Hooke's law, Modulus of elasticity, modulus of rigidity, stress-strain diagram, elongation due to self weight, column of uniform strength, composite sections, statically indeterminate systems, temperature stresses, strain analysis, Poisson's ratio, Volumetric strain, factor of safety, tensile test diagram, elastic constants, relation between elastic constants. (5 hrs)
- 2. Compound Stresses and Strains**
Stresses on an inclined plane, principal stresses and principal planes, Mohr's stress circle, three coplanar stresses, ellipse of stress, strain analysis, principal strains. (4 hrs)
- 3. Strain Energies and Theory of Failures**
Strain energy, resilience, strain energy in 3-D system, shear strain energy, shear strain energy in 3-D system, stresses due to various types of loading, Different theories of failure, significance, graphical representation. (4 hrs)
- 4. Bending Moment and Shear Force Diagrams**
Types of supports and beams, shear force, bending moment, relation between load, shear force and bending moment, shear force and bending moment diagrams for various types of loading and supports, maximum bending moment and point of contraflexure. (4 hrs)
- 5. Stresses in Beams**
Stresses due to simple bending, moment of inertia, beams with uniform bending strength, composite or flitched beams, shear stress distribution, variation of shear stress in beams of various sections. (5 hrs)
- 6. Slope and Deflection**
Beams, differential equation, slope and deflection at a point, double integration method, Macaulay's method, moment-area method, Castigliano's theorem. (5 hrs)
- 7. Torsion**
Derivation of torsion equation and its assumptions, applications of the equation to the hollow and solid circular shafts, torsional rigidity, combined torsion and bending of circular shafts, close-coiled-helical springs. (4 hrs)
- 8. Thin cylinders and spheres**
Thin cylinders subjected to internal pressure, circumferential and longitudinal stresses and strains, maximum shear stress, increase in diameter and volume of vessel, Thin spherical shells subjected to internal pressure, wire winding of thin cylinders. (5 hrs)

Minutes of the 29th SCSA meeting held on 8th June, 2010 at 11.00 a.m. in the Office of the Director of the Institute

The following were present:-

1. Dr. M.N. Bandyopadhyay, Director In Chair
2. Dr. Krishna Gopal, Dean (P&D)
3. Prof. R.K. Bansal, Dean (Academic)
4. Dr. S.P. Jain, Dean (Research & Consultancy)
5. Dr. S.K. Sharma, Dean (Estate, Const. & Elect. Mtc.)
6. Dr. V.K. Arora, Dean (Students Welfare)
7. Dr. V.K. Sehgal, Professor, CED
8. Dr. A.K. Gupta, Professor, ECE Deptt.
9. Dr. N.K. Gupta, Head, CED
10. Dr. S.S. Rattan, Head, MED
11. Dr. Rajender Kumar, COE
12. Dr. (Ms) Lillie Dewan, Head, EED
13. Dr. J.K. Quamara, Head, Physics Deptt.
14. Dr. P.J. Philip, Head, HuSS & Business Admin. Deptt.
15. Dr. Dinesh Kumar, Head, Chemistry Deptt.
16. Dr. Mayank Dave, Head, Computer Engg. Deptt.
17. Dr. Paras Ram, Head, Mathematics Deptt.
18. Dr. Ajay Jain, Professor I/C Institute Time Table
19. Sh. RPS Lohchab, Registrar & Secretary, SCSA

The following decisions were taken:-

1. To consider and decide the issue of having Kendriya Vidyalaya for the benefit of faculty and staff of this Institute as per proposal sent by MHRD for setting up a Kendriya Vidyalaya in all centrally funded institutes

The SCSA considered the above issue and decided to have Kendriya Vidyalaya for the benefit of faculty and staff as proposed by MHRD and to provide land for this purpose subject to the formal approval by the Board of Governors.

2. To discuss the issue of laboratory classes for B.Tech 1st year students due to increase in the strength of students

The SCSA discussed the issue of laboratory classes for B.Tech 1st year students due to increase in the strength of students and decided that the class timings be increased and re-scheduled from 8.30 a.m. to 6.30 p.m. The non-teaching staff be deputed in the labs in shifts accordingly.

Under this agenda item, the following issues were raised:

Time Table raised the following issues due to increase in strength of students:

- a) No. of sections of B.Tech First Year students
- b) No. of Lecture batches for B.Tech Second Year (Computer and IT branches) students
- c) No. of sections for B.Tech Second year (E, C, M & ECE branches) students

After long deliberations on the above issues and in consultation with the respective Head of the Departments, the SCSA decided that B.Tech First Year be divided into 12 lecture groups due to increased strength. It was also decided to have two lecture batches for B.Tech Second Year (Computer and IT-Branchees) students with two tutorial sections in each group. It was further decided that as students' strength in E.C.M and ECE branches exceeds 120, six sections be made for tutorial and practical classes. However, lecture batches will remain two as per past practice.

3. Under any other item, the following issues were taken up:

- i) Two papers be set up by the Course Coordinator in the subjects of GET-103: Engg. Graphics-I and MET-104: Engg. Graphics-II, which are being taught in B.Tech First and Second Semesters respectively. The examination of these two papers will be conducted in the morning and evening sessions and no other exam be scheduled on that day in the evening shift.
- ii) Practical examination dates be notified by the Controller of Exams, as per past practice. On the requests of a few students in special circumstances, the change in dates of practical exams, can be allowed by the concerned Head of Department. If the request for change of practical exams is made by a large number of students, in that case, the dates of practical exams be changed by COE with the permission of the Director.

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

R.K. 15/6/2010
Registrar and Secretary, SCSA

M.K. 15-6-2010

All Senate Members

Item 15.4 To consider and decide the Panel of Expert Nominee of Senate from outside the Institute on the Selection Committees for recruiting Academic Staff (excluding the Director and the Deputy Director).

As per Clause 23 clause 5(a) of the Statutes of NITs, the composition of Selection Committees for filling up posts (Academic Staff excluding the Director and the Deputy Director) under the Institute (other than on contract basis) by advertisement or by promotion from amongst the members of staff of the Institute shall be as under:-

(a) For Academic Staff (excluding the Director and the Deputy Director):-

1) Director or Deputy Director	Chairman
2. Visitor's Nominee	Member
3) two nominee of the Board one being an expert, but other than a member of the Board	Member
4) one expert nominee of Senate from outside the Institute	Member
5) Head of Department concerned (for other than the post of Professor)	Member

Keeping in view point no. 4 above a notification was sent to all the HODs of Teaching Departments to suggest the panel of 05 experts not below the rank of Professor from the Institutes of repute of Central/State Government (other than those already recommended by the Departments on the Panel of External Experts in reference to point no. 3 above). Accordingly HODs of the Teaching Departments sent names of the experts. Copies containing of the Panel of Expert Nominee of Senate as received from the HODs of the Departments are enclosed as Appendix-15.4 from page 44 to 53.

The Senate may decide any one out of the experts of the respective Department to act as expert nominee of the Senate on the Selection Committee for filling up posts (Academic Staff excluding the Director and the Deputy Director) under the Institute (other than on contract basis) by advertisement or by promotion from amongst the members of staff of the Institute.

DEPARTMENT OF CIVIL ENGINEERING

S.No.	Name, Designation & Address	Specialization	Telephone Nos (Including mobile & Email ID)	
			Office	Residence/ Mobile/ Email ID
1.	Dr. Ashwani Kumar Professor Civil Engg. Department, IIT, Kanpur	Structural Engineering	0512- 2597756	ashwini@iitk.ac.in
2.	Dr. U C Kothiyari Professor, Civil Engg. Department, IIT, Roorkee	Hydraulics & Water Resources Engineering	01332- 285496	umeshfce@iitr.ernet.in
3.	Dr. Siby John Professor & Former Head, PEC Chandigarh	Environmental Engineering		09463495575
4.	Dr. S S Jain Professor Civil Engg. Department, IIT, Roorkee	Transportation Engineering	01332- 285435	ssjanfce@iitr.ernet.in
5.	Dr. B L Swami Professor Civil Engg. Department, MNIT, Jaipur	Highway/Soil		09829111786
6.	Dr/ C V R Murthy Professor Civil Engg. Department, IIT, Madras, Chennai	Structural Engineering		09490129823

DEPARTMENT OF ELECTRICAL ENGINEERING

S.No.	Name, Designation & Address	Specialization	Telephone Nos (Including mobile & Email ID)	
			Office	Residence/ Mobile/ Email ID
1.	Dr. Sushil Chauhan Professor Department of Electrical Engineering, National Institute of Technology, Hamirpur-177005	AI applications in Power System analysis	01972-304524	01972-304525 Email: sushil@nitham.ac.in
2.	Dr. A.P. Mittal Professor & Head Instrumentation & Control Engineering, NSIT, Azad Hind Fauz Marg, Sector-3, Dwarka, New Delhi-110075	Electrical Machines & Drives	011-25099032	09899249107 Email: mittalap@gmail.com
3.	Dr. S.P. Singh Professor Electrical Engg. Department, IIT, Roorkee	Power Apparatus & Drives	01332-285827	09411762610 Email: spseefee@itr.ernet.in
4.	Dr. Udaykumar R.Y Professor Department of Electrical and Electronics Engineering, NIT Karnataka Surathkal, Mangalore -575025	Energy Systems	0824-247400 (Extn. 3045)	09448147806 Email: udaykumarry@yahoo.com
5.	Dr. B.N. Chaudhari Professor & Head, Department of Electrical Engineering, Govt College of Engineering, Pune - 411005	Power Electronics & Electrical Machines	020-25507112	09423582027 Email: bnc@elect.coep.org.in

**DEPARTMENTS OF MECHANICAL ENGINEERING
AND
INDUSTRIAL ENGINEERING & MANAGEMENT**

S.No.	Name, Designation & Address	Specialization	Telephone Nos (Including mobile & Email ID)	
			Office	Residence/ Mobile/ Email ID
1.	Dr. Souvik Bhattacharyya Professor B-227, IIT Campus, Kharagpur 721302	Thermal Engineering	03222-282904	03222-278075 Email: souvik@mech.iitkgp.e met.in
2.	Dr. Srinivasan, K. Professor Mech. Engg. Deptt. Indian Institute of Science, Bangalore – 560012, India	Thermal Engineering	080-22932589	080-3414850 Email: mecks@mecheng.iisc .ernet.in
3.	Dr. V.K. Jain Professor Mech. Engg. Department IIT, Kanpur	Production and Industrial Engg.	0512-2597916	0512-2598648
4.	Dr. Arvind Bhardwas Professor & Dean Deptt. of Industrial & Production, NIT Jalandhar	Production and Industrial Engg.	09465758362	–
5.	Dr. SC Sharma Professor & Head, Mech. & Industrial Engg. Deptt. IIT, Roorkee	Design Engineering	01332-285803	–
6.	Dr. TK Kundra Professor, Mech. Engg. Deptt., IIT Delhi	Design Engineering	011-26596139	01126852622

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

S.No.	Name, Designation & Address	Specialization	Telephone Nos (Including mobile & Email ID)	
			Office	Residence/ Mobile/ Email ID
1.	Dr. Ashok K Saxena Professor Deptt. of Electronics and Computer Engineering, IIT, Roorkee	VLSI Technology	01332- 285653	kumarfec@itr.ernet.in
2.	Dr. G.S. Visweswaran Professor Electrical Engineering, IIT Delhi	CAD of VLSI, Design of Digital, Analog and Mixed Signal VLSI Circuits	011- 26591077	gswaran@ee.iitd.ac.in
3.	Dr. N.C. Shivaprakash Professor Deptt. of Instrumentation, IISC Bangalore – 560012	Electronic Instrumentation	080- 22932242	080-23601270 09449086370 Email: shiv@isu.iisc.ernet.in
4.	Dr. Ajay K Sharma Professor (ECE) and HOD, Computer Science & Engineering Department, NIT Jalandhar	Mobile and Optical Communication		09898402704 Email: sharmaajayk@nitj.ac.i n
5.	Dr. S. Dandapat Professor Deptt. of Electronics and Communication Engineering, IIT Guwahati	Signal Processing, Speech Processing, Biomedical Signal & Image Processing	0361- 2582505	samaren@iitg.ernet.in
6.	Dr. R.P.S. Gangwar Professor, Electronics and Communication Engineering, College of Technology, Pantnagar, G B Pant University of Agriculture and Technology, Pantnagar	Microwaves & Radar, Antenna, Microwave Absorber		05944-233378 Email: profrpsgangwar@gbpu atech.ac.in

**DEPARTMENTS OF COMPUTER ENGINEERING,
INFORMATION TECHNOLOGY
AND
COMPUTER APPLICATIONS**

S.No.	Name, Designation & Address	Specialization	Telephone Nos (Including mobile & Email ID)	
			Office	Residence/ Mobile/ Email ID
1.	Dr. (Ms.) Saroj Kaushik Professor Deptt. of Computer Science and Engineering, IIT Delhi, Hauz Khas- 110016	Computer related	011- 26591292	Email: saroj@cse.iitd.ac.in
2.	Dr. Manoj Mishra Professor Deptt. of Electronics and Computer Engineering, IIT Roorkee 247667, Uttarakhand	-do-	01332- 285642	Email: manojfec@itr.ernet.in
3.	Dr. (Ms.) Kumkum Garg Professor Deptt. of Electronics and Computer Engg. IIT Roorkee 247667, Uttarakhand	-do-	01332- 285649	Email: kgargfec@itr.ernet.in
4.	Dr. S.K. Gupta Professor Deptt. of Computer Science and Engg. IIT Delhi, Hauz Khas 110016	-do-	011- 26591289	011-26591603 Email: skg@cse.iitd.ernet.in
5.	Dr. Lalit Kumar Professor Department of Computer Science and Engineering NIT Hamirpur, (HP)	-do-	01972- 304420	1972-304421 Email: lalit@nitham.ac.in

DEPARTMENT OF BUSINESS ADMINISTRATION

S.No.	Name, Designation & Address	Specialization	Telephone Nos (including mobile & Email ID)	
			Office	Residence/ Mobile/ Email ID
1.	Dr. S.K. Jain Professor Deptt. of Management Studies IIT Delhi - 110016	Management	011-26591168	01126568830 09810211681
2.	Dr. T J Kamalanabhan Professor Deptt. of Management Studies IIT, Madras	Management	044-22574556	04422578430 09841368443
3.	Dr. A S Sidhu Professor Deptt. of Commerce & Business Management GNDU, Amritsar	Management	09417551471	0183-2257018
4.	Dr. D K Nauriyal Professor Deptt. of Humanities & Social Sciences IIT Roorkee	Economics	01332-285367	01332-285258 0987179179
5.	Dr. S S Dhillon Professor Punjab School of Economics, GNDU, Amritsar.	Economics	09872207486	0183-2505486

DEPARTMENT OF PHYSICS

S.No.	Name, Designation & Address	Specialization	Telephone Nos (including mobile & Email ID)	
			Office	Residence/ Mobile/ Email ID
1.	Dr. R.N.P. Choudhary Professor Deptt. of Physics, IIT Kharagpur	Condensed matter Physics	03222- 283814	03222-277481 09679612132 E-mail: crnpf@phy.iitkgp.ernet.in
2.	Dr. Arvinder Singh Professor & Head, Deptt. of Physics Dr. BRA NIT Jalandher	Solid State Physics	0181- 2690320 Ext. 3203	09888803134 Fax: 0181-2690320 E-mail: arvinder5@lycos.com
3.	Dr. H.B. Bohidar Professor School of Physical Sciences, Jawaharlal Nehru University, Maharoli Road, New Delhi	Experimental Physics	011- 26704637	09818147232 Fax: 011-26717537 E-mail: bohi0700@mail.jnu.ac.in
4.	Dr. P. Pfeedep Professor & Head, Deptt. of Physics NIT Calicut, Kerala	Solid State Physics	0495- 2286550, 2286551	09495329035 Fax: 0495-2287250 Email: ppfeedep@gmail.com
5.	Dr. Nawal Kishore Professor & chairman, Deptt. of Physics, GJU, Hisar	Nano Material & Condensed Matter	01862- 263166	09416051041 Email: nks54@rediffmail.com

DEPARTMENT OF CHEMISTRY

S.No.	Name, Designation & Address	Specialization	Telephone Nos (Including mobile & Email ID)	
			Office	Residence/ Mobile/ Email ID
1.	Prof. M.R. Maurya Professor Department of Chemistry, IIT Roorkee 247667 (UK)	Inorganic Chemistry	01332- 285327	09412070418 Email: rkmanfcy@iitr.ernet.i n
2.	Prof. J.D. Singh Professor Department of Chemistry, IIT Delhi-110016	Inorganic Chemistry	011- 26591512	09560705225 Email: jaideo@chemistry.iitd .ernet.in
3.	Prof. C.P. Bhasin Professor Department of Chemistry, H.N.G.U. Patan (Guj.)	Inorganic Chemistry		09825841417 Email: cpbhasin@yahoo.co m
4.	Prof. B.P. Singh Chairman, Department of Chemistry & Dean, Faculty of Science & Tech. Interface, D.B.C.R.U.S&T Murthal, (Sonapat)	Physical Chemistry	0130- 2484148	09812029302 Email: bpsingh2k5@rediffm ail.com
5.	Prof. K.S. Dhindsa Director-General JCDV Barnala Road, Sirsa	Inorganic/Envir onment Chemistry	01666- 238101	09416169590 Email: kuldipdhindsa@yaho o.com

DEPARTMENT OF MATHEMATICS

S.No.	Name, Designation & Address	Specialization	Telephone Nos (Including mobile & Email ID)	
			Office	Residence/ Mobile/ Email ID
1.	Dr. J.C. Mishra (D.Sc.) Professor Pro Vice-Chancellor, SQA University, Bhubaneswar, India (Faculty-I.I.T., Kharagpur)	Mechanics of Solids, Fluid Mechanics	09437025133	09474406180 (P) Email: mishrajc@rediffmail.com provc_acad@sosuni- versity.ac.in
2.	Dr. Peeyush Chandra Professor Department of Mathematics, I.I.T., Kanpur – 208016	Fluid Mechanics	0512-2597285, 3927285	09450346471 Fax: 0512-2597500 Email: peeyush_itk@yahoo.com
3.	Dr. Raj Rani Bhargav Professor Department of Mathematics I.I.T., Roorkee	Mechanics of Solids		09411372186 Email: rajrbfm@rediffmail.com rahrbfma@iitr.ernet.in
4.	Dr. M.K. Kadalbajoo Professor Department of Mathematics, I.I.T., Kanpur	Numerical Analysis and Computation	0512-2597732	0512-2598285 09839424891 Email: kadal@iitk.ac.in
5.	Dr. S.K. Tomar Professor Department of Mathematics, Punjab University, Chandigarh – 160014	Applied Mathematics	0172-2534523, 2541132	09915461230 E-mail: aktomar@pu.ac.in

DEPARTMENT OF HUMANITIES & SOCIAL SCIENCES

S.No.	Name, Designation & Address	Specialization	Telephone Nos (Including mobile & Email ID)	
			Office	Residence/ Mobile/Email ID
1.	Dr. Mohammed Farooq Lala Professor Deptt. of Humanities & Social Sciences, Srinagar (J&K)-190006 New Colony, Shamashwari, Baba Domb Road, Srinagar, Kashmir	Management	0194- 2429423	0194-2473143
2.	Dr. Bani Chatterjee Professor Deptt. of Humanities & Social Sciences, IIT, Kharagpur H.No. B-48, IIT, Campus, Kharagpur	Economics	03222- 283606	03222-283- 283607, 220213
3.	Dr. V Upadhyay Professor Deptt. of Humanities & Social Sciences, IIT Delhi H. No. 72, New Campus, Hauz Khas, New Delhi-16	Economics	011- 26591371	011-56720328, 26591879
4.	Dr.(Ms.) Sarjukt Das Gupta Professor Deptt. of English, Calcutta University- 700018 Dean, Faculty of Arts Asutosh Building 7C, Cornfield Road Calcutta University, Kolkata- 700019	English Language	0244-5238	09830301240
5.	Dr. Gurupadesh Singh Professor Deptt. of English, GND University, Amritsar Teacher's Flat No. 16 GND University Campus, Amritsar	English Language	09463250150	0183-2258878

Item 15.5: To consider the requests of Mr. Raghwendra Tiwari, Roll No. 803/03, M.Tech (EC&CE) student and Mr. Raj Kumar Saini, Roll No. 707/04, M.Tech (Civil Engg.) student for granting extension for submitting M.Tech dissertations in their respective specializations

Mr. Raghwendra Tiwari, Roll No. 803/03, an ex-M.Tech (EC&CE) student and Mr. Raj Kumar Saini, Roll No. 707/04, an ex-M.Tech (Civil) student have requested that they could not submit their dissertations in their respective specializations on time due to the reasons mentioned in their requests.

Both students have requested for granting extension to submit their dissertations in their respective specializations.

Their requests were placed before Standing Committee on Senate Affairs in its 28th meeting held on 03.05.2010 and the SCSA referred the matter to the Senate for consideration. The requests of both students are enclosed as Appendix 15.5 from page 55 to 59.

As per decision taken in the 28th SCSA meeting, the matter is placed before the Senate for consideration.

Permission to continue M. Tech. (Structure) Civil Engg.

PUC-I & PUC-II are applications, submitted by Mr. Raghendra Tiwari, Roll No. 803/03, M.Tech. EC & CE and Mr. Raj Kumar Saini, Roll No. 707/04, M.Tech. (Structure) Civil Engg.

In their applications they stated that due to some reasons they could not submitted their respective M.Tech. Dissertation in the stipulated period. Now they intent to continue their Dissertation work.

As per rules, the time limit for the submission of M.Tech. Dissertation is 5 years.

Date of admission/joining the course of:

Mr. Raghendra Tiwari
Roll No. 803/03
July/August, 2003

Mr. Raj Kumar Saini
Roll No. 707/04
July/August, 2004

The time limit for the submission of their M.Tech. Dissertation is over.

Both applications duly forwarded by the Chairman of concerned Dept.

The rules are silent regarding grant of extension after 5 years to submit the Dissertation. As per past practice, Mr. Raghendra Tiwari, Roll No. 803/03, M.Tech. EC & CE and Mr. Raj Kumar Saini, Roll No. 707/04, M.Tech. (Structure) Civil Engg. may kindly be allowed to continue their M.Tech. Dissertation work upto 6 months (i.e. 30.09.2010). They will be submitting the Dissertation with a late fee of Rs. 2500/- each, if approved please.

U.T. KURUKSHETRA

No.	Dept.	Disc.	Date	Time
1	EC & CE	803/03	26/03/10	10:30
2	Structure	707/04	26/03/10	11:00
3	EC & CE	803/03	26/03/10	11:30
4	Structure	707/04	26/03/10	12:00

Submitted for kind Orders please.

(Acad.) *[Signature]*
26/3/10

[Signature]
26/03/10

Dean (Acad.) *[Signature]*
26/3/10

Dir. *[Signature]*
26/3/10

If there is no rule, then it may be decided before Senate
26/3/10

No ECE/10/2324

Through HOD (Ec & CE)

[Signature]
12/3/10



To,
The Director
NIT Kurukshetra

Subject: Thesis Continuation

Respected Sir,

I beg to say that I got admission in M.Tech (Electronics & Communication Engineering) in July 2003, (Roll No. 803803). After completing my 3rd semester examination, I started my M.Tech thesis work under the kind guidance of Dr. O.P. Sahu, Associate Professor (Dept. of Ec & CE) in the 4th semester but was not able to finish it at the end of the semester as I joined HCL Technologies Noida as a Software Engineer. After that due to some personal intricacies and problems, I was not able to continue it further. Now I want to continue it and ready to pay fee or any dues as applicable.

Kindly allow me to complete my M.Tech thesis work now. I will be very grateful to you.

Date 12th Mar 2010

Your Sincerely

[Signature]
Raghendra Tiwari
M.Tech (Ec & CE)
Roll No. 803803
NIT Kurukshetra
(Mobile : +919810629808)
Email: ragxclent@gmail.com

may kindly be allowed
[Signature]
(O.P. Sahu)

[Signature]
B. expansion
12/3/10

D.P. (Acad)
[Signature]
12/3/10

Ms. Sushila S. Singh

To
J.K.D.
The Chairman
Civil Engineering Department
NIT, Kurukshetra

Subject: Regarding extension M.Tech (Dissertation)

Sir,

With due respect I want to say that I am the student in M.Tech(Structure) under Roll No. 707/04. Due to certain medical problem, I could not submit my dissertation up to July 2009. So you are kindly requested to extend my submission period for one year (July 2010).

Thanking you

Yours sincerely

Albani
Raj Kumar Saini

Roll No. 707/04
M.Tech (Structure)
Civil Engg. Dept.

Dated: 09-09-2010
10

Recommended & forwarded for favorable
consideration.

Author 202/10
H.O.P. (Civil)

Dr. J. B.
12.03.10

Dean (Acad)

D. R. (Acad)

Pl. Comment
Date: 19/3/2010

MANDAV HOSPITAL

(UNIT OF BANGA HOSPITALS PRIVATE LIMITED)
JAIL ROAD MANDI (HP) - 175001, ☎ 01905 - 221922, 221923
Web site: www.banga-hospital.com

MEDICAL CERTIFICATE

Certified that Raj Kumar Saini Age 39 Yrs S/o Sh. Ram Singh Saini
Vill Andhrara, P. O. Chowk Teh Sarkachat, Distt. Mandi (HP). He was
suffering from Psychiatry disorder and he is under my treatment from 08
May 2009.

Rapur
Dr. Aspinder Kapur
MBBS, MD, Psychiatry
MANDAV HOSPITAL
A Unit of Banga Hospitals
Jail Road, Mandi (H.P) 175001

MELA MAL SOOD

ROTARY EYE HOSPITAL MARANDA

Distt. Kangra (H.P.) 176 102

26/4/12
DISCHARGE SLIP

CR No. _____ WARD *m7498*

OPD No. *422058* BED No. _____

Name *Raj Kumar*

Date of Admission *21/3/12*

Date of Discharge *23/4/12*

Diagnosis

RE *ISC R7C*

LE _____

INVESTIGATIONS

(a) Routine

(b) X-Ray

(c) Any Other

Style: U.T.M. Power: 2.00
Length: 12.00 Cur. Dia.: 1.00
A. Const: 119.0
Serial No.: 102700


Operative Procedure _____

RE *ISC R7C*

LE _____

22.4.12
Date of Operation

Result *Good*

[Signature]
Signature

Item 15.6: To consider the request of some B.Tech final year students for allowing them to reappear in internal sessional improvement for both odd and even semesters simultaneously

Some B.Tech Final Year students, who have re-appear in internal sessionals, have requested for allowing them to appear for internal sessionals improvement in odd and even semesters simultaneously. In their request they have stated that the students who have reappear in any paper of Odd and Even Semesters are allowed to appear in both odd and even semester examinations simultaneously during the end semester examinations. They have requested that the same pattern may be followed and they be allowed to improve their sessionals in odd and even semesters simultaneously, as they have already got jobs and if they are not allowed it will adversely affect their career.

Their request was placed before the Standing Committee on Senate Affairs in its 28th meeting held on 03.05.2010. The SCSA did not agree to their request and decided to refer the matter to the Senate. The request of the students is enclosed as Appendix 15.6 on page 61.

As per decision taken in the 28th SCSA meeting, their request is placed before the Senate for consideration.

The Director,
NIT Kurukshetra,
Kurukshetra

29/04/2010

SUBJECT : Request for reappearing in **INTERNAL sessional improvement** in both odd and even semester for **FINAL YEAR STUDENTS**.

Respected Sir,

With due regards we would like to bring in to your kind notice that reappearing in external exams has been allowed in both odd and even semester. In the same pattern we request you to allow B-TECH **FINAL YEAR** students to reappear in **INTERNAL sessional improvement** in both odd and even semester.

Sir, If we are not allowed to appear for internal improvement in 8th semester as per present rules, this would debar us from joining the companies in which we have been placed. Considering the present scenario, this would ruin our career.

We request you earnestly to consider our case as soon as possible.

Thanking you (in anticipation),

Yours sincerely,

1280/06		1652/06	
1281/06		1660/06	
1303/06		1659/06	
1312/06		1663/06	
1605/06		325/05	
1625/06			
1622/06			
1630/06			
1632/06			