

**MINUTES OF 5TH MEETING OF THE SENATE
HELD ON 15.01.2006**



**NATIONAL INSTITUTE OF TECHNOLOGY,
(DEEMED UNIVERSITY)
KURUKSHETRA-136119**

2

**NATIONAL INSTITUTE OF TECHNOLOGY
(DEEMED UNIVERSITY)
KURUKSHETRA-136119**

Minutes of the 5th meeting of Senate, National Institute of Technology, Kurukshetra, held on 14th January, 2006 at 11.00 AM in the Board Room of the Institute.

The following were present:-

Members present:

- | | | |
|----|---|----------|
| 1. | Dr. M.N.Bandyopadhyay,
Director,
NIT, Kurukshetra. | In Chair |
| 2. | Dr.Mrs.Renu Bhargava,
Professor,
Civil Engineering Department
Indian Institute of Technology,
Roorkee (UA). | |
| 3. | Dr. Krishna Gopal,
Professor, Elect. Engg. Deptt.
and Dean (Planning & Development),
NIT, Kurukshetra. | |
| 4. | Dr. R K Bansal,
Professor,
Civil Engineering Department
NIT, Kurukshetra. | |
| 5. | Dr. T K Garg,
Professor, Mech. Engg. Deptt.,
and PTSW,
NIT, Kurukshetra. | |
| 6. | Dr. S P Jain,
Professor,
Electrical Engineering Department,
NIT, Kurukshetra. | |
| 7. | Dr. V K Arora,
Professor,
Civil Engineering Department
NIT, Kurukshetra. | |



8. Dr. V K Sehgal,
Professor & Chairman,
Civil Engineering Department,
NIT, Kurukshetra.
9. Dr. S K Sharma,
Professor & Chairman,
Mechanical Engineering Department,
NIT, Kurukshetra.
10. Dr. K C Goyal,
Professor,
Mechanical Engineering Department,
NIT, Kurukshetra.
11. Dr. A K Gupta,
Professor,
Electronics & Communication Engg. Deptt.,
NIT, Kurukshetra.
12. Dr. K S Kasana,
Professor,
Mechanical Engineering Department,
& Dean(Academic),
NIT, Kurukshetra.
13. Dr. K B Singh,
Professor,
Humanities Department,
NIT, Kurukshetra.
14. Dr. A Swarup,
Professor & Chairman,
Electrical Engineering Department,
NIT, Kurukshetra.
15. Dr. S K Chakarvarti,
Professor & Chairman,
Physics Department
and Chief Warden,
NIT, Kurukshetra.



16. Dr. D V Singh,
Professor & Chairman,
Mathematics Department,
NIT, Kurukshetra.
17. Dr. Rajender Kumar,
Asstt. Professor & Chairman,
Department of Humanities,
NIT, Kurukshetra
18. Prof. Umesh Ghanekar,
Asstt. Professor & Chairman,
Electronics & Communication Engineering Department,
NIT, Kurukshetra.
19. Dr. Dinesh Kumar,
Assistant Professor & Chairman,
Chemistry Department,
NIT, Kurukshetra.
20. Prof. Mayank Dave,
Asstt. Professor & Chairman,
Computer Engineering Department,
NIT, Kurukshetra.
21. Dr. Baldev Setia,
Asstt. Professor,
Civil Engineering Department,
& Officer Incharge (Academic Affairs),
NIT, Kurukshetra
(Special Invitee)
22. Sh. RPS Lohchab,
Registrar & Member Secretary,



The following members could not attend the meeting:-

1. Prof. C.V. Ramakrishnan,
Professor,
Department of Applied Mechanics,
Indian Institute of Technology,
New Delhi-110016.
2. Dr. M P Kapoor,
Y-8A, 1st Floor,
Hauz Khas,
New Delhi - 110 016
3. Prof. Sameresh Kar,
(Retired Professor, IIT Kanpur),
House No. 501,
IIT Campus,
Kanpur-208016 (UP).
4. Sh. Ravi Jaidka,
President,
Indian Sugar & Gen. Engg. Corporation,
Yamuna Nagar, Haryana
5. Er. V K Sachdeva,
Executive Director,
The Saraswati Sugar Mills,
Yamuna Nagar-135001. (Haryana).
6. Prof. K R Sharma,
(Former Prof. & Head, EE, IIT Kanpur),
Vice-President, Samtel Colour Ltd.,
Ghaziabad (UP).
7. Shri V K Raizada,
(Former Member Rly. Board),
Managing Director, IRWO,
58, Rail Vihar, Sector 33,
NOIDA (UP).
8. Dr. A K Bhatnagar,
205/7-A,
Faridabad-6 (Haryana)



9. Dr. R K Arora ,
Professor,
Electrical Engineering Department,
and Dean(Administration),
NIT, Kurukshetra.
10. Dr. M.K.Soni,
Professor,
Electrical Engineering Deptt.,
NIT, Kurukshetra

Through an intimation received from the P.S. of Sh. Ravi Jaidka, President, ISCEC, Yamuna Nagar, it was conveyed that Sh. Jaidka is away to Europe and hence will not be able to attend the meeting. Also, Prof.C.V. Ramakrishnan, Professor, Department of Applied Mechanics, Indian Institute of Technology, New Delhi-110016 had expressed his inability to attend the meeting due to his other pressing commitments.

Before the agenda items were taken up for discussion, the members of the Senate welcomed the new Director of the Institute and Chairman of the Senate Dr. M.N. Bandyopadhyay. The members also welcomed Dr. (Mrs.) Renu Bhargava, Professor, Civil Engineering Department, Indian Institute of Technology, Roorkee (UA) as external member of the Senate.

On the request of the Member-Secretary, the Senate took up the agenda item 5.22 for discussion at the outset. The Senate decided that Dr. Beldev Setia be invited to participate in the deliberations of the Senate as a Special Invitee. The Senate further decided that Dr. Setia will not have a voting right in the proceedings of the Senate, if any occasion arises, till he is otherwise eligible to have the voting right.



Item No. 5.1 To confirm the minutes of the 4th meeting of the Senate held on 5.02.2005

The Member-Secretary informed the Senate that the minutes of the 4th meeting had been circulated to the members and no comments had been received. However, the BOG in its 7th meeting held on 19.2.2005 (Item No. 7.28) while approving the minutes of the Senate had made certain observations. Those relevant to the present meeting of the Senate are as follows:

The Board felt that quality research work - leading to publication of papers in renowned Science Journals like "Nature" and "Science" or patents should be honoured. Also quality teaching at UG needs recognition.

A comprehensive note on quality teaching and research/development work and its recognition including award of one additional increment should be presented in the next Board meeting.

The Senate members were of the view that the observations of the Board as in Para 1 above, should include the words 'technology' and 'National/International journals' and should read as follows:

The quality research work leading to publication of papers in renowned National and International Journals of Science and Technology and patents should be honoured. Also quality teaching at UG needs recognition.

Regarding the para concerning the comprehensive note on quality teaching and research/development work and its recognition, a committee comprising of the following members was constituted:

- ✓ 1. Dr. Krishna Gopal Prof. Electrical Engg. Deptt.
2. Dr. K S Kasana Dean (Academic) (Covenor)
3. *Dr S K. Chakravarty* Dr. Mayank Dave Asstt. Prof. and Chairman, Computer Engg. Deptt.
- 4.

The minutes of the 4th meeting of the Senate held on 05.02.2005 were confirmed.

RH

Item No. 5.2 To consider the 'Action Taken Report' (ATR) on the minutes of the 4th meeting of the Senate held on 5.02.2005

The Senate noted the 'Action Taken Report' on the minutes of the 4th meeting of the Senate held on 05.02.2005. The Senate, however, pointed out some typographic errors in the list of Ph.D. Scholars. The Officer Incharge (Academic Affairs) was asked to present the corrected list to the Chairman, Senate.

The Senate desired that follow up action on the observations made by the Board in its 6th meeting held on 30.09.2004 as indicated against the Senate agenda item 4.11 (i) be reported to the Senate in its next meeting. 6.15

Item No. 5.3 To consider modifications in the Grade Based Examination System (GBES)

The item had three paras which were deliberated upon and the following modifications were approved:

Sr. No.	Existing	Modification approved
1.	If a student gets "E" Grade in a subject, he/she can improve the grade only by re-appearing in the end-semester examinations. His/her sessional marks will remain the same as was earned in the first attempt. He/she will require a total of 40 marks including sessional & new end semester exam marks, to pass.	If a student gets 'E' Grade in a subject, he/she may be allowed to improve his/her grade, both in sessionals and end-semesters examinations. In sessionals, while there will be no change in the marks he/she has got for 'class work', he/she may be allowed to appear in the two tests/Viva-voce (20 marks each). Similarly for the subject of Practical /Seminar/Project, he/she will be allowed to improve upon his/her performance through teacher's evaluation during the semester. However, in such cases the maximum sessional marks be limited to 40%. This will also be applicable to all old students of the GBES if their sessional marks are less than 40% . However, such

RM

		students will be permitted a maximum of two chances. The tests of such students will be conducted by the respective departments along with the test series of the regulars semesters.
2.	If a student gets 40% of the total in sessionals, it is not necessary for him to appear in the end-semester examination.	For a student to pass in a subject, a separate minimum of 40% has to be earned separately, both in sessionals and end-semester examination. This will be implemented with effect from the examinations commencing May, 2006.
3.	A 5 point grading system with a 25-marks range (75-100) for the 'A'(Excellent) grade.	The grading system be changed from 5-points to 7-points as shown in the Table 5.3.

Table 5.3

Sr. No.	Existing			Amended		
	Marks Obtained and Grade	Category	Grade points	Marks obtained and Grade	Category	Grade points
1	75 ≤ A ≤ 100	Excellent	10	85 ≤ A ⁺ ≤ 100	Excellent	10
2	65 ≤ B < 75	Good	8	75 ≤ A < 85	Very Good	9
3	50 ≤ C < 65	Fair	6	65 ≤ B < 75	Good	8
4	40 ≤ D < 50	Poor	4	50 ≤ C < 65	Average	6
5	E < 40	Fail	2	40 ≤ D < 50	Pass	4
6.			20 ≤ E < 40	Required to Improve	2
				20 F <	Repeat	0
				This will be implemented with effect from admissions commencing July, 2006.		

RM

✓ **Item No. 5.4 To consider the starting of new M.Tech. courses in CAD/CAM, Transportation Engineering and Power Electronics and Drives under TEQIP**

The matter was discussed at length and it was decided that the annual intake be amended as shown in Table 5.4 below:

Table 5.4

Department	Name of the Programme	Level	Proposed Annual Intake
Civil Engg.	Transportation Engineering	PG	10+5
Electrical Engg.	Power Electronics & Drives	PG	10+5
Computer Engg.	Computer Engg.	PG	10+5
Mechanical Engg.	CAD/CAM	PG	10+5

It was observed that the Annexures of the course/proposal submitted by various departments be reviewed by the respective Boards of Studies with reference to the following parameters:-

- (i) Courses : Number, Relevance, Contents
- (ii) Eligibility conditions for admissions : Students with engineering background only to be included.

The Senate approved the courses in principle and decided that the modified courses proposals be submitted directly to the Chairman, Senate for consideration and approval.

✓ **Item No. 5.5 To consider starting of an M.Tech. course in Environmental Engineering in Civil Engineering Department**

The Senate approved the course in principle. However, it was observed that the Course proposal be reviewed by the Department Board of Studies and submitted to the Chairman, Senate for consideration and approval. The Senate observed that the matter also needs approval of the MHRD.

Item No. 5.6 To note the change in the allocation of Theory and Sessional marks

The Senate approved the weightage of Sessionals and End Semester Examination under Grade Based Examination System as per Table 5.6.

Table 5.6

Table 5.6		Amended Weightage
Theory Papers	Sessionals (two class tests of 15 marks each and 10 marks for teacher's assessment through class work)	40
	End Semester examination	60
Practicals	Sessionals (Two viva-voce of 15 marks each and 30 marks for teacher's assessment through lab record and lab performance).	60
	End Semester examination	40

✓ **Item No.5.7 To consider the modifications of the syllabi of the subject of Physics-I (PHT-105)**

The Senate approved the modifications as proposed by the Department of Physics.

Further, the Senate advised that the syllabi should be presented in a standard format for consideration of the Senate in future. The standard format will be provided by the Dean (Academic).

✓ **Item No.5.8 To consider modifications in the syllabi of B.Tech. & M.Tech. Programmes of Mechanical Engineering**

The Senate was of the opinion that Changes in the Scheme of B.Tech. Programme be routed through the Board of Studies of the Department, before being placed before the Senate for its consideration.

✓ **Item No. 5.9 To consider changes in the existing Scheme of B.Tech. (Civil Engineering)**

The Senate was of the opinion that the Syllabi of B.Tech. and M.Tech. Programme in the standard format may be presented before the Senate in the next meeting for its consideration after having been duly reviewed by the Department B.O.S.

RH

✓ **Item No. 5.10 To consider restructuring of courses in the Department of Humanities**

The Senate approved the item as proposed in the agenda.

✓ **Item No. 5.11 To consider the proposal of change of name of the Department of Humanities**

The Senate approved the item as proposed in the agenda.

Item No. 5.12 To consider the criteria for awarding Merit Scholarship to 26nos students yearwise

The Senate approved the proposal as contained in the agenda. However, Senate was of the opinion that the amount of scholarship be enhanced from Rs. 100/- to Rs. 1000/- per annum. The Academic Section would prepare an agenda item to be placed before the Finance Committee for its consideration and approval.

✓ **Item No. 5.13 To consider modifications in the present examination system.**

The Senate discussed the issue and apprehending difficulties because of long duration of the Examination period, summer-training, survey-camp etc. decided to handover the matter to a committee comprising of the following members.

- | | | |
|----|---------------------|-----------------------------|
| 1. | Prof. Krishna Gopal | Dean (P&D) |
| 2. | Prof. K S Kasana | Dean (Academic) |
| 3. | Prof. D V Singh | (Controller of Examination) |

The decision of the Committee in the matter will be final. ✕

[**Item No. 5.14 To consider the departmentwise allocation of Ph. D. Scholarship through TEQIP.**

The Senate approved the Ph.D. scholarships through TEQIP as mentioned in the agenda.

The Senate noted the allocation of 25 Scholarships from the Institute side as mentioned in the agenda.

RM

Item No. 5.15 To consider the eligibility for getting admission to Ph.D. Programme and Scholarship

The decision under the agenda item 5.17 be referred to.

Item No. 5.16 To consider changes in the 'Panel of Examiners' for evaluation of Ph.D. thesis

The decision under the agenda item 5.17 be referred to.

Item No. 5.17 Regarding consolidating the information to be enshrined in the Ordinance of Studies for the Degree of Philosophy (Ph.D.) of our Institute.

A committee comprising of the following members was constituted to consolidate the information as proposed in the agenda.

1. Prof. S.P. Jain, Professor Elect. Engg. Deptt., (Chairman)
2. Prof. K S. Kasana Dean(Academic)
3. Prof. S K Chakarvarti Ex-Dean (Academic)

The Committee will also consider the proposals as contained in the agenda item 5.15 and 5.16.

Item No. 5.18 To consider constitution of a 'Standing Committee on Senate Affairs' and its working thereof

Senate constituted a 'Standing Committee on Senate Affairs' (SCSA) comprising of:

- (i) All Deans
- (ii) Chairman/Chairmen of concerned Departments(s)
- (iii) Three Senior-most professors of the Institute, not covered under (i) & (ii) above.

Item 5.19 To consider the scheduling of meetings of the Senate

The Senate decided to hold regular meetings preferably in the months of February, May, August and November of each calendar year.



14

Item No. 5.20 To note the appointment of three members as educationists of repute and six other members for their special knowledge, as members on the senate, NIT, Kurukshetra, for a period of 3 years

The Senate noted the nominations of external members on the Senate as per details furnished in the agenda.

Senate was of the opinion that re-nominations of some external members who did not earlier attend any Senate meeting during their first tenure of three years may be reviewed by the Chairman, BOG.

Item No 5.21 To ratify the action taken by the Director and Chairman of the Senate for approving one expert nominee of the Senate on the Selection Committee for Faculty, non-teaching and scientific staff in the scale of post of Lecturer and above of NIT, Kurukshetra

The Senate ratified the action taken by the Chairman, Senate in recommending Dr. C V Ramakrishanan, Professor, Deptt. of Applied Mechanics, IIT, Delhi as Expert Member of the Senate on the Selection Committee for direct recruitment/promotion under CAS as well as nominee of the Senate for non-teaching and scientific staff in the scale of the post of Lecturer and above on establishment of the Institute.

The Senate, however, noted that the Chairman of the Department concerned will be a member on the Selection Committee for direct recruitment/promotion under CAS for the post for which selection/ promotion is being made is at least one step lower than the one occupied by the Chairman of the department.

Item No. 5.22 To consider inviting the Officer Inchange (Academic Affairs) in the Senate meetings.

The matter was discussed in the beginning of the meeting

The Senate decided that Dr. Baldev Setia be invited to participate in the deliberations of the Senate as a Special Invitee. The Senate further decided that Dr. Setia will not have a voting right in the proceedings of the Senate, if any occasion arises, till he is otherwise eligible to have the voting right.



Item No. 5.23 Any other items with the permission of the Chair

I Dr. Akhilesh Swarup, Professor, Electrical Engineering Department raised a point regarding 'Information Security Awareness' in education .

The Institute has entered Memorandum of understanding with Ministry of Communications and information Technology, Department of Information Technology, Electronics Niketan, C.G.O. Complex, New Delhi, for producing specialized manpower in the area of information Security. The components identified for our Institute under this programme are as under:-

Retrofitting in B.Tech. Curriculum

Resource Centres and Participating Institutes should offer two courses in Information security from the list of courses mentioned for M.Tech. in Information security. A minor project done in the area of information security may also be treated as equivalent to two theory courses.

Retrofitting of M.Tech.

Resource Centres and Participating Institutes should offer two courses in Information security from the list of courses mentioned for M.Tech. in information Security. In addition to this, students should do a minor project in the area of information security.

One semester Certificate Course in Information Security

2 week course Information Security

Details of Courses

M.Tech. in Information Security

10 courses and one graduate major project may be offered in M.Tech. in Information Security Curriculum program, with the following break up:

- i. Minimum of three courses form Information Security
- ii. Minimum of three course from Computer Science & Communications
- iii. Minimum of two courses from Management
- iv. Electives from related streams: Electronics, Communications, Nano-technology etc.



16

Note: The above are broad guidelines as each Institute/University may follow a different pattern; there is flexibility in adapting the basic requirements into the structure of the respective Institute / University appropriately.

The following is the suggested broad list of courses (they are by no means exhaustive):

Information Security Stream Courses

- i) Introduction to Computer Security
- ii) Security Engineering : Dependable Distributed Systems
- iii) Mathematical Models for Internet
- iv) Digital Defense: Issues in Security, and Critical Infrastructure Protection
- v) Cryptography foundations, probabilistic proofs and pseudo randomness
- vi) Intrusion Detection
- vii) Game theory and its applications
- viii) Public Key Infrastructure and Trust Management
- ix) Mobile and Wireless Network Security
- x) Optical Network Security
- xi) Information Warfare
- xii) Technical Foundations for E-Commerce
- xiii) Biometric Security
- xiv) Computer Crime Investigation and Forensics
- xv) Financial Mathematics

II. Dr.V.K.Sehgal, Chairman and Professor, Civil Engineering Department and Dr. V.K.Arora , Professor , CED raised the following issues:

- (a) External members on B.O.S. be paid honorarium for attending the meetings.
- (b) The honorarium should be at par with external members attending meetings of B.O.G., Senate, F.C. etc.
- (c) M.Tech. examiners should be treated as Institute Guests.
- (d) M.Tech. examiners' honorarium (Evaluation fee) to be enhanced.

For all these points the Chairman, Senate suggested that a proposal be sent to the Director for his consideration.



- III Dr. T. K. Garg, Professor, Training & Placement, raised the issue of condoning the attendance of 7th & 8th semester students appearing in campus interviews for placement. The matter was taken up by the Standing Committee on Senate Affairs (SCSA). The meeting ended with a vote of thanks to the Chair.



(R P S Lohchab)
Registrar & Member-Secretary

Approved

-Sd-

(M.N.Bandyopadhyay)
Director of the Institute
& Chairman, Senate