NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA-769008 (ORISSA)

MINUTES OF THE 8TH MEETING OF THE SENATE OF THE INSTITUTE HELD AT 9. 00 A.M. ON 9TH JUNE, 2005 IN THE SENATE HALL, NIT., ROURKELA

Members Present:

1.	Prof. Prof. B.K. Rath Director	-	**Chairman, Senate**
2	Sri Sudhakar Jha, Advisor, Balmer Lewie Co.Ltd., Kolkata	-	Member
3	Dr. R.K. Bhandari, Associate Director, VEC, Kolkata	-	Member
4.	Prof. K.K. Mishra, Prof. Civil Engg. & Dean(AA)	-	Member
5.	Prof. A.K. Sahoo, Prof. & HOD, CE	-	Member
6.	Prof. K.C. Patra, Prof. CE	-	Member
7.	Prof. M. Panda, Prof., CE	-	Member
8.	Prof. J.K. Pani, Prof., CE	-	Member
9.	Prof. N. Roy, Prof., CE.	-	Member
10.	Prof. A.K. Pradhan , Prof., CE & COE	-	Member
11.	Prof. G.K. Roy, Dean(P.D.) Prof.,CH.	-	Member
12.	Prof. Pradip Rath HOD & Prof. CH	-	Member
13.	Prof. S.K. Agarwal, Prof., CH	-	Member
14.	Prof. B. Pradhan, Prof., CY	-	Member
15.	Prof. K.M. Purohit, Prof & HOD, CY	-	Member
16.	Prof. S.K Rath, Prof. , CS	-	Member
17.	Dr. S.K. Jena, Prof & HOD, CS	-	Member
18.	Prof. J.Bera, HOD (I/C), CR .	-	Member
19.	Prof. J.K. Satapathy, Prof. & HOD,. EE.	-	Member
20.	Prof. G. Panda, Dean, (Admn.) & Prof. EI	-	Member
21.	Prof. N. Kavi, Prof. & HOD, ME.	-	Member
22.	Prof. B.K. Nanda, Prof., ME.	-	Member
23.	Prof. R.K. Sahoo, Prof., ME.	-	Member
24.	Prof. K.N. Singh, Prof. & HOD, MM.	-	Member
25.	Prof.A.K. Panda, Prof. MM.	-	Member
26..	Prof. B.B. Verma, Prof , MM .	-	Member
27.	Dr. D.P.Tripathy, HOD (I/C), MN	-	Member
28.	Prof. A. Behera, Prof. & HOD, MA. & Prof. I/C. Library	-	Member
29.	Prof. S. Panigrahi, HOD, PH	-	Member
30.	Prof. K.R. Patel, Warden Halls of Residence	-	Member
31.	Dr.S.K.Patel , Project Officer, Nodal Officer	-	Member
32.	Mr. B. Acharya, Asst. Registrar (Academic)	-	Invitees
33.	Er. S.K. Upadhyay, Registrar, NIT, Rourkela	**-**	**Secretary, Senate**

Members Absent:

1.	Dr.A.K.Panda Visiting Prof. CE	-	Member
2.	Prof. Ajay Chakrabarty, Retd. Prof. Dept. of E&ECE IIT-KGP	-	Member
3.	Prof. E.M. Rao, Dean (Admn.) PMIR.XLRI, Jamshedpur	-	Member
4	Sri M.P. Srivastav, Director, IIPM, Kansbahal (Resigned)	-	Member
5.	Prof. G.C. Mitra, Retd. Prof., IIT, KGP., A/159,Sahidnagar,BBSR	-	Member
6.	Sri G. Upadhyay, BBSR	-	Member

7.   Shri B.K. Misra, Member Secretary,   -   Member
     Northern Regional Electricity Board, New Delhi.
6.   Prof. A.Roy,   Prof., Math.   -   Member
7.   Prof. D.G. Sahoo,   Prof. Math   -   Member
8.   Prof.(Mrs.) K.L. Roy, Prof. Math.   -   Member
9.   Prof. K.K. Mohapatra, Prof. & Head EI   -   Member
10. Prof. P.C. Panda,   Prof. EE.   -   Member
11. Prof. R.N. Das Choudhury,   Prof. EE   -   Member
12. Prof. P.K. Nanda,   Prof., EE   -   Member
13. Prof. R.C. Behera,Dean (SRICCE) & Prof. MM   .   -   Member
14. Prof. G.S. Agarwal, Prof. MM   -   Member
15. Prof. U.K. Mohanty, Prof., MM   -   Member
16. Prof. K.C. Biswal, Prof., CHE   -   Member
17. Prof. N.R. Mohanty, Prof., CE   -   Member
18. Prof. B.B. Biswal, Professor & Head, Training & Placement   -   Member

2005-08-Senate-01 : **A. Welcome to the members :**

> The Director welcomed all the members to the 8th meeting of the Senate.

> *Confirmation of the minutes of 7th meeting held on 20th January- 2005.*

> **B.** The draft minutes of the 7th Meeting of the Senate, approved earlier by the "Chairman- Senate" were circulated to all members. As per the comments / suggestions received from the members the following corrections were incorporated and minutes confirmed.

> a)   CGPA $>= 8.0$ -   Hons
>   CGPA $>= 6.5 < 8.0$ -   1st class
>   CGPA < 6.5 -   2nd class

> b)   2005-07-Senate-10 Creation of New Departments :

>   "*School for Business & Production Management*" is corrected to *"School of Management"*

> c)   Ph.D. Supervisor of Mrs.M.D.Adak would be 'Prof. K.M. Purohit' in place of Dr. T.N.Tiwary

2005-08-Senate-02 : The following Actions taken on the minutes of 7th *meeting held   on 20th January- 2005 were reported by Dean(AA).*:

Agenda Sl. No. of 7th Senate Meeting	Subject	Action Taken
2005-07-Senate-07	Approval of Syllabi for Physics papers	The HOD Physics was advised to further improve the course content of PH-101 & PH-102.
2005-07-Senate-09	Early submission of Ph.D.thesis	As per approval of Senate, Mr.S. Meher and Mr. P.C. Mishra were permitted to submit their thesis early, and the thesis have been sent to the examiners.

2005-07-Senate-10	Creation of New Depts.	Creation of new dept . proposal for "School of Management" – approved by BOG & forwarded to MHRD for approval.
2005-07-Senate-18	Accreditation of departments	All the depts. were requested to apply for accreditation by 28th February.
2005-07-Senate-19	Representation of students in Senate	Senate's recommendation has been forwarded to BOG for approval & giving guide lines on the basis of nomination.
2005-07-Senate-20	Registration of students having year-back	The students are now registering in the semester in which they have back-papers For the back papers only.
2005-07-Senate-22	Management program in collaboration with IIPM	BOG approved the proposal

2005-08-Senate-03 :   *Approval of Academic Calendar*

The proposed Academic Calendar for the session 2005-06 as per **Annexure – I at pp - 11 - 15** was approved.

2005-08-Senate-04 :   **A)**   *Approval of :*

B.Tech 2nd ,4th,6th, and 8th.Semester Results

The above results ,as in **Annexure-II** at pp- **16 - 28** passed by the UGPEC, and approved by Chairman, Senate was approved.

B)   *M.Tech. 4th Semester Results*

The above results , as in **Annexure-III at pp- 30** passed by the PGPEC, and approved by Chairman, Senate. was approved

C)   *M.Sc. 2nd year Results*

The above results , as in **Annexure-IV at pp - 32** passed by the PGPEC, and approved by Chairman, Senate was approved.

D)   *M.C.A. 6th Semester Results*

The above results, (**Annexure-V at pp – 33 – 33 (a))** passed by the **PGPEC,** and approved by Chairman, Senate was approved.

2005-08-Senate-05 :   *Introduction of Environmental. Studies Course in 2nd Semester.*

a) In the 6th Senate (2004-06-Senate-21) it was decided to offer a one semester module course (inter-departmental elective course) on Environmental Studies to students of 7th / 8th semester. Instead, it was proposed to offer the same course to 2nd semester students in-lieu-of Advanced Physics/Advanced Chemistry. This also proposed by HOD-CY vide his letter No. NITR/CY/157 Dt.19.03.05.

b) **Introduction of a theory components** in Basics of Computing (CS-171) and Object Oriented Programming (CS-172)

c) Taking into the proposals as in (a) & (b) above the Senate approved the Final course structure for 1st & 2nd Semesters as stated below.

FIRST SEMESTER :

Sl. No.	Subject Code	Subjects	L	T	P	Credit
01	HS-101 HS-102	English) **OR** Industrial Psychology)	3	0	0	3
02	MA-101	Mathematics. – I	3	1	0	4
03	PH-101	Physics	3	1	0	4
04	CY-101	Chemistry	3	1	0	4
05	EE –101 EI –101	Basic Electrical Engg.) **OR** Basic Electronics)	3	1	0	4
06	PH –171 CY-171	Physics Lab.) **OR** Chemistry lab)	0	0	3	2
07	CS-171	Basics of Computing	1	0	3	3
08	CE-171	Engg.Drawing & Computer Graphics	0	0	3	2
09	ME-171	Workshop Practice I	0	0	3	2
10	EA-171	Extra Academic Activity	0	0	3	2
			Semester		**Total**	**30**

SECOND SEMESTER :

Sl. No.	Subject Code	Subjects	L	T	P	Credit
01	HS-101 HS-102	English) **OR** Industrial Psychology)	3	0	0	3
02	MA-102	Mathematics. – II	3	1	0	4
03	CY -102	Environmental Studies	3	0	0	3
04	**CE-110**	Engineering. Mechanics	3	1	0	4
05	EE -101 EI - 101	Basic Electrical Engg.) **OR** Basic Electronics)	3	1	0	4
06	CY-171 PH -171	Chemistry Lab) **OR** Physics Lab)	0	0	3	2
07	ME-130	Computer Aided Machine Drawing	0	0	3	2
08	CS -172	Object Oriented Programming	1	0	3	3
09	ME-172	Workshop Practice II	0	0	3	2
10	EA -172	Extra Academic Activity	0	0	3	2
			Semester		**Total**	29

2005-08-Senate-06 : SMFE- to be changed to Geotechnical Engg.:

The chairman, DAC(PG)-Civil Engg. has requested that the name of the M.Tech. program in Soil Mechanics & foundation Engg. be Changed to Geo-Technical Engg. It has already been approved in PGPEC   - *Annexure-VI at pp – 34 .   This was approved by the   Senate.*

2005-08-Senate-7:   *Approval of Doctoral levell Courses :*

As per our earlier decision, research scholars doing their   Ph.D. in Science subjects have to complete some courses, which should be higher than the M.Sc. level. Accordingly detail syllabi of two PH-Courses i) X-ray Technique & Characterization (3-1-0-4) ii) Crystal Growth & Transformation (3-1-0-4), framed by the DAC-Physics and one from CY- Dept .were approved by the PGPEC. Detail

Syllabi of two more courses i) Environmental Biotechnology (3-1-0-4) & ii)Coordination Chemistry (3-1-0-4) , of M. Phil level, was submitted by HOD-CY.(**Annexure-VII at pp - 38 - 44) .**   The Senate approved the same.

2005-08-Senate-8 :   *Practical Training-On payment basis. :*

Some of our students for taking practical training, pay some fees to the institute/organization imparting training. On this issue HOD-EE had raised the following points at (P. 36-37).

i) Can a student take training by paying a fee to some company/ Training Institutes etc ?

ii) Students can take training on their choices so far as their knowledge enhancement/job placement is concerned by paying fees, but   when the training is a part of the course –curriculum, what should be done ?
The matter was deliberated and it was decided that, it is the Organization Imparting training which matters and students applying for practical training directly (arranging by themselves) must route their application, through the concerned HOD. HODs must scrutinize the capability of such organizations /institutions by applying their expertise before allowing the students to take training at such a place.

2005-08-Senate-9 :   *Mathematics in +3. Sc. :*

As per the decision in the 6th meeting (2004-06-Senate-19) Mathematics in +3 Sc. was one of the main requirements for taking admission to M. Sc. programs in Physics / Chemistry. Now some universities in Orissa have modified their +3 Sc. course structure (i.e. PCM combination has been removed) **.** In view of this it **was** proposed to give a fresh look about   the requirement of mathematics in +3 Sc for admission to M. Sc. programmes in Physics & Chemistry .This was with reference to representation of two M. Sc. admission aspirants *Annexure-VIII at pp – 46 - 48 .*

This was deliberated &   the Senate decided to follow the present practice instead of going for any modification now.

2005-08-Senate-10 :   *Admission under Lateral Entry :*

As per the letter of former Director Prof. Sarangi to the VC-BPUT, (on the basis of information collected from MHRD) , the admission to 2nd year B.Tech. program under Lateral Entry scheme had been discontinued w.e.f. 2005-06 session. The   Senate accorded post facto approval to this. PP – 49.

*2005-08-Senate-11***: *Admission to M.C.A. :*

It was decided by Senate (2004-06-Senate-06) and approved by BOG (In its 6th meeting held on 28.1.2005) to increase the intake strength of B. Tech in CS from 30 to 60. This increase in intake capacity in CS has also been approved by MHRD. Due to this, the CS dept. might be facing difficulties in handling an additional 30 students from MCA. In view of this and with reference to the earlier discussion with HOD-CS by the former director, it was proposed to discontinue the admission to MCA program from the Academic session 2006 -2007. The Senate decided to take up this matter later i.e. sometime in January/February-2006.

2005-08-Senate-12: *Letter of CII :*

The letter of CII has been circulated to each dept. HODs were requested to intimate the type of association they would like to have with the Indian Americans, in the diverse disciplines of Science, Technology, Social Sciences & Humanities Consultancy and such other things. Senate to deliberate on this for according approval to harness the Good-will, Capabilities and Networks of Indian Americans -*Annexure-IX at pp -50. 52*

Senate accepted this in principle, & to intimate CII accordingly, and also to place MHRDs approval.

2005-08-Senate-13:   ***Admission under DASA/PIO/ICCR/MEA/NR.I***

It was reported to Senate (2004-06-Senate-22) about the fees to be paid by "F.N.s, NRIs and PIOs admitted under DASA or any other similar schemes. This was as per MHRD memorandum and Approval of BOG. Senate has to decide i) whether to admit such students into different disciplines of UG/PG programs and ii) their mode/criteria for selection ie. eligibility criteria, qualifying marks, no. of seats in each discipline and such other things with regard to admission under. DASA--PIO/ICCR/MEA/NRI

The Senate decided to go ahead with this scheme after getting MHRD's permission. A committee consisting of Dean(AA) with 1.Dr. K.M.Purohit (CY) 2. Dr.S.K.Jena (CS) and 3. Dr. B.K.Nanda (ME) was formed to frame guidelines for eligibility criteria, selection procedure and such other related things. The Senate also decided that the total seats under this category should be 10% of , and over & above , the sanctioned intake.

2005-08-Senate-14 : ***Concessions to Kashmiri Migrants.***

The circular of AICTE on" granting concessions in admission to the wards of Kashmiri Migrants"is attached in ***Annexure-X at pp – 54 - 55.***   The guidelines are for "facilitation of migration in second year of students in the various technical institutions". Senate decided to request CBSE authorities to take care of "Waving of DOMOCILE requirement" at the time of admission to 1st year B.Tech.

2005-08-Senate-15 :   **To discuss measures for improvement of quality of UG and PG   projects. (Deferred from 7th meeting)**

A) Proposal for introducing the Practice of Joint   B.Tech / M.Tech./ MCA / M. Sc. *Projects in this Institute.*

In view of the recent trend around the country, our UG and PG projects must improve in terms of content and quality. Some of the proposed measures include (a) to discontinue practice of large groups working on the same project, (b) encouraging inter-departmental projects, (c) encouraging projects in collaboration with industry (d) publication of project reports.

The Senate decided not to encourage joint projects eg. B.Tech.& M.Tech projects together. Also it was decided that ordinarily not more than 2-students should be there in a project group.

B) *Letter of Prof. G.K.Roy* regarding best B.Tech. Project.

While evaluating the best B. Tech. projects for award of Institute Gold Medal , the committee has given the following feed back for charting future course of action : *Annexure-XI at pp - 56.*

i) Going through all the projects, it was felt that those are not of very high standard, so as to deserve an Institute Gold Medal.

ii) Last year there were far greater number of entries, although the announcement was made at the eleventh hour. This year notification being made much earlier, there were only 8-entries.

iii) The reason for this loss of interest in projects may be attributed to a feeling of diffidence among students that when one of them may achieve the gold medal, rest would draw flak.

iv) In order to operate the mass interest in projects, cash awards with (certificate) may be awarded to the best project of each dept instead of a single Institute gold medal in the convocation.

The Senate decided to continue awarding Gold-medal for the Best B.Tech.Project. The committee constituted for judging the best project, should consist of one member from each dept.

2005-08-Senate-16 :   *2nd year M..Tech. Project out side NIT-RKL*

Some M.Tech. students have represented that they should be allowed to do their M.Tech. projects in some institute/ research organization outside NIT-RKL ,along with the Summer training.
Senate approved it in principle but the institute/ research organization is subject to recommendation by Concerned HODs.

2005-08-Senate-17:   *For approval of Senate :*

a) Ph.D. thesis defense of Mrs. Susmita Das, faculty of EE was conducted on 3rd February 2005 and she has been adjudged qualified for the award of Ph.D. degree in Engineering.

b) *Ph.D. thesis defense* of Mrs. Abanti Sahoo, faculty member of CH. Dept. was conducted on 16th May'05 and she has been adjudged qualified for award of Ph.D. degree in Engineering.

c) *Ph.D. thesis* defense of Mr .Sukdev Meher, faculty member of EI- Dept. was conducted on 22nd May'05 and he has been   adjudged   suitable for award of Ph.D. degree in Engineering.

d) *Lists of Examiners* for Mr. P.C.Mishra (CY), Mrs. Mahuya Dasgupta Adak (CY),Mr.Shrikanta.Naik (CY) & Mr.S.T. Dundur   (ME), QIP research scholar, approved by chairman-Senate are not   reproduced   here to ensure confidentiality but they are available with Dean (AA), and interested Senate members may have a look at it. All the above have submitted their thesis.

e) *Branch-wise Topper:*

The branch –wise Topper list for first three positions in each class and discipline of B.Tech. was prepared on the basis of CGPA. Up-to 2nd ,4th ,& 6th semesters for award of prizes. This System is to be followed from 2004-05 academic session on wards, as per the approval of chairman, Senate.
This was approved by Senate post-facto.

f) *Best Graduates of 2005:*

The list of best graduates **(Annexure – XI (a)) at PP - 57** of different disciplines   and also the Institute topper was presented to the Senate and it was approved.

2005-08-Senate-18:   ITEMS TO REPORT :

a) **Best B.Tech. project award**:

Mr. Subrat Nayak ,E-01229 and Mr. Devdutta Das ,E-01210 have been adjudged suitable for award of Institute Gold Medal for 2005 for best B.Tch. Projects award   for their project on   MOBILE ROBOTS **Annexure-XII at pp – 58.**

b) *AICTE –expert committee* visited on 29th March-2005

c) *Funding for 3-new M.Tech. programs*   ie. i) Bio-chemical Engg. & Biotechnology, ii) VLSI Design & Embedded Systems, iii)Power control & Drives (faculty & staff salary for 3-years and   limited lab. Facilities), has been provided for in the TEQIP proposal, in addition to 10-research scholarships-one in each   Engg. dept.

d) Proposal for, introducing new B.Tech   program in Electronics & Communication Engg , increase in intake in B.Tech.in CS from 30 to 60 and introduction of 7-new PG programmes, was sent to AICTE & MHRD . These were earlier approved   by BOG. MHRD's approval has been received and is appended in Anexure –**XII (a) at pp – 59.** Accordingly, the Department Code for Electronics and Communication Engineering will hence be EC (instead of EI).   However, the subject code for (i) Electronics & Instrumentation Engineering will be EI and that for (ii) Electronics and Communications Engineering will be EC.

e) *Gold Medal* instituted by Prof. A.K.Mohanty, former Principal, REC Rourkela.

f) *An MoU* has been signed between NIT RKL and IIPM   Kansbahal for offering a course 6-months advanced diploma in   Maintenance Management & Condition Monitoring Education .

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g) *Resignation of Mr. M.P.Srivastava*

Mr. M.P.Srivastava, Senate member from IIPM, in a letter to chairman-BOG, (with copy to Director) has informed that as he has changed his job and joining at Hazira, he has resigned from the Senate w.e.f. 1st March 2005. The Senate while acknowledging his contribution to the academic development of NIT, requested chairman to nominate a suitable person in his place.

2005-08-Senate-19:   *Registration of students having year-back :*

Item 2005-07-Senate-20 needs a fresh consideration- regarding their registration in two semesters ie. in the semester having back paper & in the higher semester and attendance being compulsory in both semesters. It is proposed to have a fresh look at this provision to take care of the attendance requirements. The Senate decided to discontinue to follow the provisions made in '2005-07-Senate-20' and to follow the earlier practice as stated below with immediate effect.

"A student can register for the 5th, 6th. 7th & 8th Semesters provided he/ she has obtained at least Pass (P) Grade in all subjects of 1st, 2nd, 3rd & 4th Semester respectively i.e. for registering in any semester beyond 4th semester, a student must have cleared ALL courses studied two years earlier. Thus a student gets four chances to clear a paper". However, if the student so desires, can register for the back paper(s), in the concerned semester.

2005-08-Senate-20 :   *Enhancement of SAC fees :*

Dean(SA) while conveying the decision of the SAC meeting held on 8.4.2005, has requested to enhance the i) Gross SAC fees from Rs.610/- per year to Rs.1000/- per year (Rs.500/- per semester)& ii) A PG souvenir fees to be collected from pre-final year PG students @ RS.400/- per year (Rs.200/- per semester). It has also been stated that pending decision of BOG for enhancing the fees to Rs.1000/-, an adhoc amount of Rs.500/- be collected from the students in the ensuing odd semesters **Annexure-XIII- PP – 60-62.**

This was approved by the Senate .

2005-08-Senate-21 **:**   *Approval of UG Course structures :*

Deferred to next meeting

2005-08-Senate-22 **:**   *Approval of M.Tech. Course structures:*

Deferred to next meeting

2005-08-Senate-23 :   *Approval of M.Sc. Course structure :*

Deferred to next meeting

2005-08-Senate-24 :   *Any other matter with permission of Chair :*

    a). **Change of** Branch of 2nd Semester students :

    Registrar's letter-pp- 64

To avoid delay in change of branch after 2nd semester, it is proposed that:

i) The students will be allowed to change their branches based on the results of 1st & 2nd semester.

ii) To know the exact no. of vacancy, the supplementary examination result should be published by 15th of July and the vacancy position be finalized before registration to 3rd semester.

iii) The vacancy arising out of the students not registering for the 3rd semester should also be taken into account. :

It was decided that examiners of 1st & 2nd semester papers should send the grades at the earliest. Steps should be taken for completing branch change process by 23rd.

b) HOD Electrical Engg. Proposed through his letter attached herewith at **pp - 66** for renaming the Dept of "Electrical Engg." as " Electrical and Electronics Engg.". This was approved by Senate.

c) Letter of Prof. G.Panda , Dean(Admn) and Prof. Electronics & Communication Engg., regarding Ph.D. supervisor, attached herewith-at **pp - 68**, was discussed in detail and it was decided that information on this point may be collected from different IITs and a final decision be taken by the next Senate. Till then the status-quo is to be maintained.

(Dr. K. K. Mishra)   **(S.K. Upadhyay**)
Dean (A.A.)   Registrar & Secretary, Senate