



Minutes of the 9th Senate Meeting

Held on

9th December, 2011

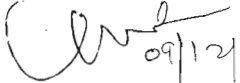



Minutes of the 9th Senate Meeting

Minutes of the 9th SENATE meeting of National Institute of Technology Agartala held on 9th December, 2011 in the conference hall of NIT, Agartala.

Members present

- | | | |
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| 01. | Prof. Probir Kumar Bose
Director, NIT Agartala | Chairman |
| 02. | Prof. Kehar Singh
Department of Physics
IIT Delhi | Member |
| 03. | Prof. Kamakhya Prasad Ghatak
Department of Electronics Science
University of Calcutta | Member |
| 04. | Dr. Subhas Chandra Saha
Professor (ME) NIT Agartala | Member |
| 05. | Dr. Umesh Mishra
Professor (CE) NIT Agartala | Member |
| 06. | Dr. Ajit Kumar Roy
Professor (HU) NIT Agartala
& HOD Humanities Deptt. | Member |
| 07. | Mrs. Lipika Haldar
Head of the Department
Civil Engineering Department
NIT, Agartala | Invitee |
| 08. | Mr. Pritam Das
Head of the Department
Mechanical Engineering Department
NIT, Agartala | Invitee |
| 9. | Mrs. Anindita Jamatia
Head of the Department
Electrical Engineering Department
NIT, Agartala | Invitee |
| 10. | Mr. Diptendu Bhattacharjee
Head of the Department
Computer Sc & Engineering Department
NIT, Agartala | Invitee |
| 11. | Dr. Sambhunath Pradhan
Head of the Department
Electronics & Comm. Engineering Department
NIT, Agartala | Invitee |
| 12. | Dr. Jayanta Kumar Rakshit
Head of the Department
Electronics & Inst. Engineering Department
NIT, Agartala | Invitee |
| 13. | Dr. Ram Naresh Rai
Head of the Department
Production Engineering Department
NIT, Agartala | Invitee |


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| 14. | Mrs. Soma Nag
Head of the Department
Chemical Engineering Department
NIT, Agartala | Invitee |
| 15. | Dr. Saroj Kumar Das
Head of the Department
Chemistry Department
NIT, Agartala | Invitee |
| 16. | Dr. Jitendranath Roy
Head of the Department
Physics Department
NIT, Agartala | Invitee |
| 17. | Dr. Uttam Kumar Bera
Head of the Department
Mathematics Department
NIT, Agartala | Invitee |
| 18. | Mr. Rabindranath Barman
Controller of Examinations
NIT, Agartala | Invitee |
| 19. | Dr. Richi Prasad Sharma
Dean, Academic
NIT, Agartala | Invitee |
| 20. | Dr. N. K. Kole
Registrar, NIT Agartala | Member-Secretary, SENATE |

Prof. (Dr.) P. K. Bose, Director & Chairman, SENATE, NIT Agartala initiated the discussion by welcoming all the members of SENATE. He specially welcomed Prof. K. P. Ghatak of University of Calcutta and Prof. Kehar Singh of IIT Delhi and expressed his gratitude for taking all the troubles to come to NIT, Agartala. He invited all the members present in the meeting to take part in the discussion on the issues placed in the Agenda Note.

After the opening remark of Chairman, SENATE, Dr. N. K. Kole, Member-Secretary, SENATE briefly discussed the issues included in the Agenda Note and placed for consideration. Dr. R. P. Sharma, Dean, Academic Affair, then discussed all the issues of the agenda note in detail one by one.

Agenda wise discussion was held and decisions were taken unanimously.

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PART – A

Item No. S/9/1


Confirmation of the Minutes of the Seventh and Eighth Meeting of Senate held on 11th February, 2011 and 27th March, 2011 respectively.

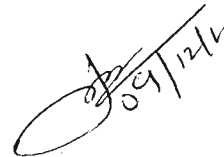
The Minutes of the Seventh and Eighth meeting of Senate held on 11th February, 2011 and 27th March, 2011 respectively were confirmed.

Item No. S/9/2

Action taken on the decision on the Seventh and Eighth Meeting of Senate.

The action taken report was perused and confirmed by the Senate.







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PART - B

Item No. S/9/3 Consideration and approval of result of B. Tech Even Semester provisionally published on 30th May, 2011.

The SENATE approved the result of even semesters provisionally published on 30th May, 2011.

Item No. S/9/4 Consideration and approval of result of M.Tech, MCA and M.Sc Even Semesters provisionally published on 30th May, 2011.

The SENATE approved the result of even semesters of M.Tech, MCA and M.Sc provisionally published on 30th May, 2011.

Item No. S/9/5 Consideration and approval of Awarding Degree to the successful students passed B. TECH. in 2011.

The SENATE approved awarding of degree to the successful students who passed B.Tech in 2011.

Item No. S/9/6 Consideration and approval of awarding Degree to the successful students passed M.Tech in 2011.

The SENATE approved awarding of degree to the successful students who passed M.Tech in 2011.

Item No. S/9/7 Status of admission in B.Tech 1st Semester during the academic session 2011-12 under Home State quota and All India quota.

The SENATE perused the status of admission in B.Tech 1st semester during the academic session 2011-12 under Home-state quota and All India Quota.

Item No. S/9/8 Consideration and approval of Cut-off date of registration in 2nd to 8th semester.

The SENATE approved with the following suggestion:

The cases of late registration on medical ground would be placed before the Director for decision on case to case basis depending on the gravity of the exigency. But in no case registration would be allowed after 21 days from the last date of registration.



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Item No. S/9/9

Consideration and approval of Fee for Ph. D 5th semester onward and its rationalization.

The SENATE approved the rationalization of fee of Ph.D scholars from 5th semester onward as follows:

FEE FOR Ph.D

Sl No	Particulars	1 st sem fee (In Rs)	2 nd sem fee (In Rs)	3 rd sem fee (In Rs)	4 th sem fee (In Rs)	5 th sem fee (In Rs)	6 th sem fee (In Rs)	other sem fee (In Rs)
1	Admission fee	1000	00	00	00	00	00	00
2	Tuition	3750	3750	3750	3750	3750	3750	3750
3	All other fees	2000	2000	2000	2000	2000	2000	2000
4	Student Activity fee	1000	1000	1000	1000	1000	1000	1000
5	Medical	1000	00	1000	00	1000	00	00
6	Caution Money	5000	00	00	00	00	00	00
7	Alumni fee	00	00	00	00	00	1000	00
8	R.F. ID card	200	00	00	00	00	00	00
TOTAL		13950	6750	7750	6750	7750	7750	6750

Item No. S/9/10

Consideration and approval of equalization of M. Tech and MCA Fee for all categories of candidates.

The SENATE approved the equalization of M. Tech and MCA Fee for all categories of candidates as follows:

FEE FOR M.TECH

Sl No	Particulars	1 st sem fee (In Rs)	2 nd sem fee (In Rs)	3 rd sem fee (In Rs)	4 th sem fee (In Rs)	other sem fee (In Rs)
1	Admission fee	1000	00	00	00	00
2	Tuition	17500	17500	17500	17500	17500
3	All other fees	2000	2000	2000	2000	2000
4	Inst. Development fee	5000	00	00	00	00
5	Student Activity fee	1000	1000	1000	1000	1000
6	Medical	1000	00	1000	00	1000
7	Caution Money	5000	00	00	00	00
8	Alumni fee	00	00	00	1000	00
9	R.F. ID card	200	00	00	00	00
10	Grade Card	500	500	500	500	500
TOTAL		33,200	21,000	22,000	22,000	21,000

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FEE FOR MCA

Sl No	Particulars	1 st sem fee (In Rs)	2 nd sem fee (In Rs)	3 rd sem fee (In Rs)	4 th sem fee (In Rs)	5 th sem fee (In Rs)	6 th sem fee (In Rs)	other sem fee (In Rs)
1	Admission fee	1000	00	00	00	00	00	00
2	Tuition	25000	25000	25000	25000	25000	25000	25000
3	All other fees	2000	2000	2000	2000	2000	2000	2000
4	Inst. Development fee	5000	00	00	00	00	00	00
5	Student Activity fee	1000	1000	1000	1000	1000	1000	1000
6	Medical	1000	00	1000	00	1000	00	00
7	Caution Money	5000	00	00	00	00	00	00
8	Alumni fee	00	00	00	00	00	1000	00
9	R.F. ID card	200	00	00	00	00	00	00
10	Grade Card	500	500	500	500	500	500	500
TOTAL		40700	28500	29500	28500	29500	29500	28500

Item No. S/9/11 Consideration and approval of fixation of fees to be returned to the candidates who withdraw their admission in B.Tech after the cut-off date fixed by CCB.

SENATE approved that candidates cancelling admission after the cut-off date of CCB would get refund of only caution money.

Item No. S/9/12 Consideration and approval of fixation of fees to be returned to the candidates who withdraw their admission in M.Tech, MCA, M.Sc and Ph.D 1st semester and other semester.

The SENATE approved return of only caution money to the candidates who withdraw their admission in M.Tech, MCA, M.Sc and Ph.D 1st semester and other semester.

Item No. S/9/13 Consideration and approval of the status of the contractual employees of NIT, Agartala for pursuing Ph.D programme.

The SENATE approved that the contractual employees of NIT, Agartala are allowed to continue their Ph.D work without hampering the regular class load. The institute laboratory facilities may be extended to them if required.

Item No. S/9/14 Consideration and approval of amendment of Ph.D rules.

The SENATE approved the revised Ph.D rules in principle on the following conditions:

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- 1) Dean Academic would incorporate all the suggestions in the Ph.D rules which were given by the members of SENATE in course of discussion.
- 2) The Ph.D rules so revised after inclusion of the suggestions of the SENATE members would be circulated among the Heads of the Departments.
- 3) After receiving feed-back from the Heads of Departments the Ph.D rules would be finalised by Dean Academic and would be placed before the Chairman SENATE for approval.
- 4) However the SENATE approved 27 forms designed to be used by the scholars / Departments for recording various recommendations of the committees and decisions of academic authority.

Item No. S/9/15 Consideration and approval of Grade system for B.Tech, M.Tech, MCA and M.Sc.

The SENATE approved the grade system of B.Tech, M.Tech, MCA and M.Sc as follows:

Theoretical subject, B.Tech, M.Tech, MCA and M.Sc

% of marks	Grades	points
90 and above	Ex	10
80-89	A	09
70-79	B	08
60-69	C	07
50-59	D	06
40-49	P	05
Below 40	F	--

Practical Subject, B.Tech, M.Tech, MCA and M.Sc

% of marks	Grades	points
90 and above	Ex	10
80-89	A	09
70-79	B	08
60-69	C	07
50-59	D	06
Below 50	F	--

The SENATE further approved that the above grade system would be effective for the B.Tech students from the academic session 2011-12 while that for the M.Tech, MCA and M.Sc would be effective from 2012-13 academic session.

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Item No. S/9/16 Consideration and approval of Disposal of evaluated answer script.

The SENATE approved the proposal of disposal of evaluated answer-scripts as follows:

- 1) The evaluated answer-script of all students of B.Tech, M.Tech, MCA and M.Sc would be retained for 1 (one) year only.
- 2) Dean, Academic would take all possible effort for making wide publicity of the decision.
- 3) A legal opinion in this regard would also be obtained from the legal advisor in order to avoid legal complication in future.

Item No. S/9/17 Consideration and approval of review of marks in any subject by the students within 30 days from the date of publication of result.

The SENATE approved the proposal of review of marks in any subject by any student on application with a fee of Rs. 500/- per subject within 30 days from the date of publication of result.

Item No. S/9/18 Consideration and approval of 1st sem Mechanics-1 in place of Mechanics (statics), in 2nd sem Mechanics-II in place of Engineering Graphics.

The SENATE approved the following:

- 1) 1st Semester: Mechanics-1 in place of Mechanics (Statics)
- 2) 2nd Semester: Mechanics-II in place of Engineering Graphics.

Item No. S/9/19 Consideration and approval of repealing the provision of part time candidate from M.Tech rule.

The SENATE approved repealing of the provision of part time candidate from M.Tech rule for the time being.

Item No. S/9/20 Consideration and approval of no admission without prior submission of No-Objection Certificate.

The SENATE approved the proposal of no admission in M.Tech and Ph.D without prior submission of No-Objection Certificate



Item No. S/9/21 Consideration and approval of discontinuation of B.Tech summer course from the academic session 2011-12.

The SENATE approved the proposal of discontinuation of B.Tech summer course from the academic session 2011-12 and conduct of examination for back-papers parallelly on realisation of a fee of Rs. 500/- per subject from such student.

Item No. S/9/22 Consideration and approval of conduct of special supplementary examination for B.Tech final year students.

The SENATE approved the proposal of conduct of special supplementary examination for B.Tech final year students in maximum 3 (three) subjects of 80 marks each on realisation of a fee of Rs. 500/- per subject. The examination would be conducted within 3 (three) months from the date of publication of result.

Item No. S/9/23 Consideration and approval of formula for conversion of CPI/CGPA to percentage of marks.

The SENATE approved the formula for conversion of CPI/CGPA to percentage of marks for B.Tech, M.Tech, MCA and M.Sc as follows:

$$\text{Percentage of marks} = \text{CPI} \times 10.$$

$$\text{Percentage of marks} = (\text{CGPA} - 0.5) \times 10$$

Item No. S/9/24 Consideration and approval of revised eligibility for admission in Ph. D programme in Science.

The SENATE approved the proposal of revised eligibility for admission in Ph. D programme in Science as follows:

The candidates of Physics, Chemistry and Mathematics for admission to Ph.D programme must get at least 55% of mark in the respective discipline in place of 60%.

Item No. S/9/25 Consideration and approval of procedure for awarding class to the B.Tech students completing 8th semester.

The SENATE suggested to drop the proposal for the present. However Dean, Academic would collect necessary information in



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this regard from other NITs and IITs and would place the same in the next SENATE for taking a suitable decision.

Item No. S/9/26 Consideration and approval of award of scholarship to a Ph.D scholar as a special case.

The SENATE approved the proposal of award of scholarship to a Ph.D scholar named Sanasam Sachika Devi of the chemistry Department as a special case with the following suggestion:

No academic Department would move to SENATE in future with such proposal for considering institute scholarship in this type of marginal case.

Item No. S/9/27 Consideration and approval of general guidelines for utilization of contingency grant admissible to Ph.D scholars and Post Doctoral Fellows.

The SENATE approved the proposal of the following guidelines for utilization of contingency grant admissible to Ph.D scholars and Post Doctoral Fellows:

1. Acquisition of books, journals and documents of relevance to the research topic provided these are not available in the library of the Institute.
2. Registration fee for attending conference in India and abroad.
3. Chemical/consumable items required for the research activities.
4. Minor equipments required exclusively for research.
5. Photographic materials for research and PhD thesis work.
6. Computation charges (software purchasing).
7. Reprints/Off-print and Typing of research papers.
8. Stationary and postal charges.
9. Sample testing charges for research work (from own institute /other institute / Universities).

However the SENATE suggested in this regard as follows:

- 1) The above guidelines would be applicable to the existing scholars only.



- 2) In regard to admissibility of expenditure on TA, DA etc. would be reviewed by the concerned committee once again and be placed before the next SENATE.

Item No. S/9/28 Consideration and approval of elective subjects of M.Tech in Electronics & Communication Engineering Department.

The SENATE approved the proposal of elective subjects of M.Tech in Electronics & Communication Engineering Department. The names of the elective subjects would be as follows:

- i. Advanced Operation Research
- ii. Computational Electromagnetics
- iii. Advanced Microwave Engineering
- iv. Advanced Digital Image Processing
- v. Advanced Pattern Recognition
- vi. Real time system
- vii. Fault-Tolerant system
- viii. VLSI Design

Item No. S/9/29 Consideration and approval of course work of Ph.D Scholars in Mathematics Department.

The SENATE revised the agenda as “Consideration and approval of elective subjects of M.Sc in Mathematics Department”.

The Senate also approved the proposal of introducing elective subjects of M.Sc in Mathematics Department in principle with the following suggestion:

The Department of Mathematics would obtain views of expert of the relevant area and after that would place whole course work together with the comment of the expert before the Chairman SENATE for approval.

Item No. S/9/30 Consideration and approval of conducting examination for improvement in maximum 3 (three) subjects in B.Tech in respect of students having CPI /CGPA below 6.

The SENATE approved the proposal of conducting examination for improvement in maximum 3 (three) subjects in B.Tech in respect of students having CPI /CGPA between 5 and 6.

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Item No. S/9/31 Consideration and approval of Revision of Institute Scholarship /Fellowship to the Non-GATE / Non NET Ph.D Scholars.

The SENATE approved the proposal of Revision of Institute Scholarship /Fellowship to the Non-GATE / Non NET Ph.D Scholars as follows:

The institute scholarship for B.E/ B.Tech/ M.Sc/ MA without GATE/ NET Score would be increased from Rs. 10,000 to 13,000/- and would be effective from 1st April 2010.

Item No. S/9/32 Consideration and approval of Board of Post Graduate Studies (BPGS) of NIT, Agartala.

The SENATE approved the proposal of constitution of Board of Post Graduate Studies (BPGS) of NIT, Agartala with the following composition:

- | | |
|--|------------------|
| 1. Dean (AA) | Chairman |
| 2. Dr. Ajoy Kumar Das, Asso. Dean (Acad) | Member |
| 3. Dr. Sujit Kumar Pal, CE Deptt | Member |
| 4. Dr. R. S. Panua, ME Deptt | Member |
| 5. Dr. Rup Narayan Roy, EE Deptt | Member |
| 6. Nirmalya Kar, CS Deptt | Member |
| 7. Dr. Dibyendu Ghosal, EC Deptt | Member |
| 8. Jayanta Kumar Rakshit, EI Deptt | Member |
| 9. Dr. Jitendranath Roy, PH Deptt | Member |
| 10. Dr. Saroj Kumar Das, Chemistry Deptt | Member |
| 11. Dr. Uttam Kumar Bera, MA Deptt | Member |
| 12. Dr. Debasish Neogi, HU Deptt | Member |
| 13. Rabindranath Barman, HIE Deptt | Member |
| 14. Kamalesh Debnath, Dy. Registrar (AA) | Member Secretary |

Item No. S/9/33 Consideration and approval of Board of Under Graduate Studies (BUGS) of NIT, Agartala.

The SENATE approved the proposal of constitution of Under Graduate Studies (BUGS) of NIT, Agartala with the following composition:

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|--------------------------------------|----------|
| 1. Dean (AA) | Chairman |
| 2. John Deb Barma, Asso. Dean (Acad) | Member |
| 3. Dr. Manish Pal, CE Deptt | Member |
| 4. Barnik saha Roy, ME Deptt | Member |
| 5. Abaniswar Chakraborty, EE Deptt | Member |



6. Mrinal Kanti Debbarma, CS Deptt	Member
7. Atanu Choudhury, EC Deptt	Member
8. Jayanta Kumar Rakshit, EI Deptt	Member
9. Soma Nag, Chem. Engg. Deptt	Member
10. Dr. Aparna Nath, PH Deptt	Member
11. Dr. K. Surjit Singh, Chemistry Deptt	Member
12. Dr. Baby Bhattacharya, MA Deptt	Member
13. Dr. Gyanbati Khuraijam, HU Deptt	Member
14. Milan Chandra Sarkar, Astt. Registrar (AA)	Member Secretary

Item No. S/9/34 Consideration and approval of levying of fee for obtaining Grade-card.

The SENATE approved the proposal of levying of a fee of Rs. 500/- for obtaining Grade-card in each semester.

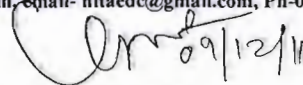
Item No. S/9/35 Consideration and approval of eligibility for awarding Post-Doctoral Fellowship at NIT, Agartala.

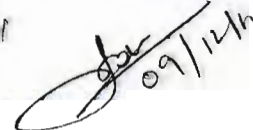
The SENATE suggested that the proposal of the whole programme of Post-Doctoral fellowship including eligibility criteria should be placed in a work-shop to be organized by the concerned Department for the purpose involving experts from various institutes of National Importance. After that the matter might be placed before the next SENATE for approval.

Item No. S/9/36 Consideration and approval of terms and conditions for granting scholarship to integrated Ph.D scholars.

The SENATE approved the proposal of terms and conditions for granting scholarship to integrated Ph.D scholars as follows:

1. Students with B.E/B.Tech degree in Engineering must have a CGPA of at least 9.0 or equivalent 85% marks at the time of admission and for award of Institute fellowships/ scholarships.
2. The degrees of candidates should be from Legally valid institutions/ universities/ deemed universities.
3. The integrated full time PhD scholars may be given a scholarship @ 8000/- pm for a period of two year or until the successful completion of the course work whichever is later. Thereafter they may be given a scholarship @ Rs 13,000/- pm.

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4. Assistantship will initially be for a period of one year and it can be extended up to a maximum period of 5 years, one year at a time after submission of progress report.
5. Students receiving assistantship from the Institute or from any other funding agencies will be required to perform academic duties assigned to them by the departments as per the rules in force from time to time.
6. The continuation of scholarships/ fellowships will be subject to satisfactory performance of the duties assigned by the department and satisfactory progress in the programme of Research.
7. Scholarships/ fellowships will not be awarded to those who are in receipt of salary from any source.
8. No fellowships/ scholarships from the Institute will be available to part time students.
9. The MHRD/ NIT, Agartala may impose any other condition as deemed necessary from time to time.

Item No. S/9/37 Consideration and approval of Change of Branch in 1st Semester B.Tech.

The SENATE approved the proposal of Change of Branch in 1st Semester B.Tech as follows subject to obtaining of legal advice from the legal advisor.

Sl	Name	Air	Cat	Present branch	Branch of preference	Branch proposed to be allotted
1	Sumantra Choudhuri	214710	OP	CSE	CE, ELE, ECE	CE
2	Snehasish Debnath	218878	OP	PE	CE	CE
3	Samir Ch. Shil	257694	OP	PE	ME, ELE, ECE	ELE
4	Ankurita Debnath	260810	OP	PE	ECE, ELE, ME, CSE, CE	ECE
5	Joysree Ghosh	265008	OP	PE	CE, ELE, ECE, CSE	CE
6	Somnath Ghosh	271441	OP	PE	CE, ME, ELE, ECE	CE



Item No. S/9/38 Consideration and approval of M.Tech programme in Production Engg. Department in the specialization Computer Integrated Manufacturing (CIM) and Industrial Engineering.

The SENATE approved the proposal of starting M.Tech programme in Production Engg. Department in the specialization of Computer Integrated Manufacturing (CIM) from the academic session 2012-13 with an intake capacity of 10. However starting M.Tech programme in Production Engg. Department in the specialization of Industrial Engineering was deferred for the time being.

Item No. S/9/39 Consideration and approval of amendment of MCA course structure to be applicable to the existing batch of MCA (2011-13)

The SENATE approved the proposal of amendment of MCA course structure to be applicable to the existing batch of MCA (2011-13).

Item No. S/9/40 Consideration and approval of short term certification course at C-DAC satellite centre, NIT Agartala.

The SENATE suggested that the Department of Computer Science & Engineering would submit a proposal to the Director for establishment of continuing education centre headed by a center in-charge or coordinator to run the C-DAC certificate programme.

Item No. S/9/41 Consideration and approval new syllabus of B.Tech in Basic Electronics.

The SENATE approved the proposal of new syllabus of B.Tech in Basic Electronics after inclusion of the suggestions of the experts.

Item No. S/9/42 Consideration and approval of introduction of M.Tech programme in ECE Department in the specialisation of Communication Engineering.

The SENATE approved the proposal of introduction of M.Tech programme in ECE Department in the specialisation of Communication Engineering with the suggestion that the detailed



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syllabus would be prepared by the Department after obtaining views from the expert in the area.

Item No. S/9/43 Consideration and approval of syllabus of M.Tech in Hydro-Informatics-Engineering.

The SENATE approved the syllabus of M.Tech in Hydro-Informatics-Engineering with the following suggestion:

The School of Hydro-informatics would organize a workshop on curricula and syllabi for up-gradation of the existing syllabus.

Item No. S/9/44 Consideration and approval of starting of Degree course in Bio-Technology/ Bio-Engineering.

The SENATE approved the proposal of starting of Degree course in Bio-Technology/ Bio-Engineering from the next academic session i.e 2012-13 with 30 intake capacity. The SENATE also approved the course structure for 1st and 2nd semester with the following suggestion:

The concerned Department would organise a workshop involving expert/s from the Institutes of National Importance from the field of Chemical Engineering/ Pharmacy/ Bio-Technology/ Bio-Engineering/ Food Engineering/ Bio-Informatics etc. and finalise the detailed syllabus of the programme from 3rd semester to 8th semester.

Item No. S/9/45 Consideration and approval of course work of Research Methodology for all Ph.D Scholars of the institute to be run by Humanities & Social Science Department.

The SENATE approved the course work of Research Methodology for all Ph.D Scholars of the institute to be offered by Humanities & Social Science Department. The course work would be as follows:

Name of the Course: Paper I: (Compulsory) Research Methodology : 100 Marks (04 Credit)

1. Research Methodology: An Introduction : Meaning, Objective, types of research; research approaches, Criteria of good research.



2. Defining Research Problem: selection of problem; techniques involved in defining research problem.
3. Research Design: meaning; steps involved in planning the research design; types of research design; features of good design.
4. Sampling Plans and Experimental Designs: Steps involved in sampling design; criteria of selecting a sampling procedure; types of designs; characteristics of good sampling design.
5. Measurement and Scaling Techniques: sources of error in measurement; tests of sound measurement; technique of developing measurement tools; scale classification bases; important scaling technique.
6. Collecting and Describing Data: Methods of data collection; Classification; Tabulation and Graphical Representation of data.
7. Describing Data with Numerical Measures: measures of central tendency; measures of dispersion.
8. Correlation & Regression Analysis: Simple Linear Probabilistic Model; Method of Least Square; Multiple Regression Analysis; Polynomial Regression Model.
9. Analysis of Categorical Data : Chi-Square Test; goodness of fit test; contingency tables.
10. Testing of Hypothesis: concepts; procedure of hypothesis testing; important parametric & non-parametric tests.
11. Analysis of Variance: ANOVA technique; variance table; one way ANOVA; two way ANOVA; ANOCOVA techniques.
12. Interpretation and Report Writing: steps; layout; types of reports; techniques of interpretation.

Item No. S/9/46 (Additional Agenda)

Consideration and approval of rules & regulations for the Degrees of Doctor of Engineering (D.Engg)/ Doctor of Science (D.Sc)/ Doctor of Literature(D.Lit).

The SENATE approved the Rules and regulations for the degree of Doctor of Engineering (D.Engg)/ Doctor of Science (D.Sc)/ Doctor of Literature (D.Lit) as given below:

- 1) The said degree should be awarded to a candidate adjudicated to have an authority in the particular field of research on the basis if published and unpublished research works written in the form of thesis and duly commented by three examiners (out side India) recommended unanimously that the said candidate may receive the said degree in appropriate field. The Director will prepare a list of 6 (six) examiners in consultation with the appropriate authority of the field. The particular authority must have the (D.Engg)/ (D.Sc)/ (D.Lit) as appropriate for a particular case. Among the 6 (six) persons the Director is

[Handwritten signature and date 09/12/11]



राष्ट्रीय प्रौद्योगिकी संस्थान अगरतला
National Institute of Technology Agartala

OFFICE OF THE REGISTRAR

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empowered to tick any 3 (three) and whole system should be very confidential.

- 2) Any person holding a Ph.D degree not less than 5 (five) years and published research papers as given in clause-1 should submit the following information in 3 (three) copies for the purpose registration along with the application form.
 - i) Bio-data given the present position, academic performance and other qualifications.
 - ii) A write-up with in 2000 words with the title of the proposed thesis, objectives, major findings and their applications in the field of researches.
- 3) On the basis of the unanimous reports from the experts the Director will recommend the case to the SENATE for approval. After approval the following format will be given to the successful candidate in next Convocation.

This is to certify that (Name of the candidate) obtained the Degree of Doctor of (Engineering/ Science/ Literature) in (Subject) under the faculty of (Name of the faculty) of NIT, Agartala in the Year (Year of Admission)

Item No. S/9/47 (Additional Agenda)

Consideration and approval of fee to be given by a scholar of Doctor of Engineering (D.Engg)/ Doctor of Science (D.Sc)/ Doctor of Literature (D.Lit)

The SENATE approved the proposal of levying a fee of Rs. 5000/- for the scholars of Doctor of Engineering (D.Engg)/ Doctor of Science (D.Sc)/ Doctor of Literature(D.Lit).

Item No. S/9/48 (Additional Agenda)

Consideration and approval of Honorarium of external examiner for Doctor of Engineering (D.Engg)/ Doctor of Science (D.Sc)/ Doctor of Literature(D.Lit).

The SENATE approved the proposal of allowing Honorarium to the extent of \$ 300 to each external examiner for Doctor of Engineering (D.Engg)/ Doctor of Science (D.Sc)/ Doctor of Literature(D.Lit).

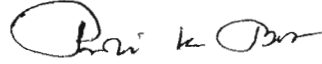


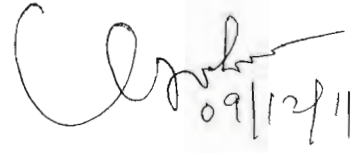
Item No. S/9/49 (Additional Agenda)

Re-Consideration of Bond period for the Institute faculties admitted to Institute Ph.D programme of NIT, Agartala.

The SENATE approved that the Bond period of Institute Ph.D Scholars would be of 3 (three) years' duration with relaxation of at least 1/3 of their existing class load.

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


(PROF. P. K. BOSE)
Chairman, SENATE


(DR. N. K. KOLE)
Member-Secretary, SENATE