



Minutes of the 14th Senate Meeting

The 14th SENATE meeting of National Institute of Technology Agartala was held on 9th May, 2014 in the conference hall of NIT, Agartala at 2.00 pm and the following members were present:

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| 01. | Prof. Gopal Mugeraya
Director, NIT Agartala | Chairman |
| 02. | Prof. Subhas Chandra Saha
Professor (ME) NIT Agartala | Member |
| 03. | Prof. Umesh Mishra
Professor (CE) NIT Agartala | Member |
| 04. | Prof. R. P. Sharma
Professor (CE) NIT Agartala
& Dean (Acad) | Member |
| 05. | Prof. Kamakhya Prasad Ghatak
Professor, (ECE) NIT Agartala | Member |
| 06. | Dean R & C
NIT, Agartala | Invitee |
| 07. | Dean P & D
NIT, Agartala | Invitee |
| 08. | Dean SW
NIT, Agartala | Invitee |
| 09. | Head of the Department
Civil Engineering Department
NIT, Agartala | Invitee |
| 10. | Head of the Department
Mechanical Engineering Department
NIT, Agartala | Invitee |
| 11. | Head of the Department
Electrical Engineering Department
NIT, Agartala | Invitee |
| 12. | Head of the Department
Computer Sc & Engineering Department
NIT, Agartala | Invitee |
| 13. | Head of the Department
Electronics & Comm. Engineering Department
NIT, Agartala | Invitee |
| 14. | Head of the Department
Electronics & Inst. Engineering Department
NIT, Agartala | Invitee |

Amth
29/05/14



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| 15. | Head of the Department
Production Engineering Department
NIT, Agartala | Invitee |
| 16. | Head of the Department
Chemical Engineering Department
NIT, Agartala | Invitee |
| 17. | Head of the Department
Bio Engineering Department
NIT, Agartala | Invitee |
| 18. | Head of the Department
Chemistry Department
NIT, Agartala | Invitee |
| 19. | Head of the Department
Physics Department
NIT, Agartala | Invitee |
| 20. | Head of the Department
Mathematics Department
NIT, Agartala | Invitee |
| 21. | Head of the Department
Humanities Department
NIT, Agartala | Invitee |
| 22. | Head of School of Hydro Informatics
NIT, Agartala | Invitee |
| 23. | Head of School of Management
NIT, Agartala | Invitee |
| 24. | Faculty in-charge
School of Energy Studies | Invitee |
| 25. | Faculty in-charge
School of Seismic Science & Engg. | Invitee |
| 26. | Faculty in-charge
School of Automotive Engg. | Invitee |
| 27. | Controller of Examinations
NIT, Agartala | Invitee |
| 28. | Sri Sumanta Chakrabarti
Registrar (I/C), NIT Agartala | Secretary, SENATE |

At the very beginning Prof. Gopal Mugeraya, Director & Chairman, SENATE, NIT Agartala welcomed all the members present in the meeting. Prof. Mugeraya requested all the members to take part in the discussion. He requested all the Heads of the Departments to come forward with more agenda of academic importance in respect of their individual Department in the SENATE meetings to come. He then requested the Registrar to start discussion on the Agenda notes of the meeting.

Amth
29/05/14



After the opening remarks of the Chairman, SENATE, Mr. Sumanta Chakrabarti, Secretary, SENATE welcomed all the members present in the meeting. He requested the members participating in the meeting to take part in the discussion on all the agenda points. He then requested Prof. R.P. Sharma, Dean (AA) to place the agenda points before the house for discussion.

Prof. R.P. Sharma, Dean (AA) started discussion on all the agenda points one by one after welcoming the members of the meeting.

Item No. S/14/01 Confirmation of the Minutes of the 13th Meeting of Senate held on 17th February, 2014.

The minutes of the 13th meeting of SENATE held on February 17, 2014 were confirmed.

Item No. S/14/02 Action taken report on the decisions of 13th meeting of Senate

Action taken report on the decisions of 13th meeting of SENATE held on February 17, 2014 were perused by the members with the confirmation that the matter of tempering of documents by Sri Rajesh Kumar Das as incorporated in agenda note of 13th meeting of SENATE against item no. S/13/33 has been dropped. The action taken report was approved.

Item No. S/14/03 Consideration and ratification of revised fee structure of UG and PG programme at NIT Agartala to be effective from the academic session 2014-15.

The revised fee structure of B.Tech, M.Tech, MCA and M.Sc as approved by the Chairman SENATE was ratified. The revised fee structure so ratified by the SENATE is as follows:

B.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)	5 th sem fee (In Rs)	6 th sem fee (In Rs)	7 th sem fee (In Rs)	8 th sem fee (In Rs)
1	Admission fee	1000	00	00	00	00	00	00	00
2	Tuition fee	35000	35000	35000	35000	35000	35000	35000	35000
3	All other fee (Exam-500, Library-150, IT system fee-350)	1000	1000	1000	1000	1000	1000	1000	1000
4	Institute Development fee	5000	5000	00	00	00	00	00	00
5	Student Activity fee	1000	1000	1000	1000	1000	1000	1000	1000
6	Medical fee	1200	00	1200	00	1200	00	1200	00
7	Caution Money	5000	00	00	00	00	00	00	00
8	Alumini fee	00	00	00	00	00	00	00	1000

Amth
29/05/14



9	ID card fee	200	00	00	00	00	00	00	00	00
10	Grade card fee	500	500	500	500	500	500	500	500	500
11	Prospectus	300	00	00	00	00	00	00	00	00
12	Communication Skill Development fee	00	00	1000	1000	1000	1000	00	00	00
13	Degree Certificate	00	00	00	00	00	00	00	00	450
14	T & P fee	00	00	00	00	00	00	00	2000	2000
	TOTAL	50200	42500	39700	38500	39700	38500	40700	40950	

BT-MT

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)	7 th sem fee (In Rs)	8 th sem fee (In Rs)	9 th sem fee (In Rs)	10 th sem fee (In Rs)
1	Admission fee	1000	00	00	00	00	00	00	00	00	00
2	Tuition fee	35000	35000	35000	35000	35000	35000	35000	35000	35000	35000
3	All other fee (Exam-500, Library-150, IT system fee-350)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
4	Institute Development fee	5000	5000	00	00	00	00	00	00	00	00
5	Student Activity fee	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
6	Medical fee	1200	00	1200	00	1200	00	1200	00	1200	00
7	Caution Money	5000	00	00	00	00	00	00	00	00	00
8	Alumini fee	00	00	00	00	00	00	00	1000	00	1000
9	ID card fee	200	00	00	00	00	00	00	00	00	00
10	Grade card fee	500	500	500	500	500	500	500	500	500	500
11	Prospectus	300	00	00	00	00	00	00	00	00	00
12	Communication Skill Development fee	00	00	1000	1000	1000	1000	00	00	00	00
13	Degree Certificate	00	00	00	00	00	00	00	450	00	450
14	T & P fee	00	00	00	00	00	00	00	00	2000	2000
	TOTAL	50200	42500	39700	38500	39700	38500	38700	38950	40700	40950

BS-MS

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)	7 th sem fee (In Rs)	8 th sem fee (In Rs)	9 th sem fee (In Rs)	10 th sem fee (In Rs)
1	Admission fee	1,000	00	00	00	00	00	00	00	00	00
2	Institute Development Fee	5,000	00	00	00	00	00	00	00	00	00
3	Tuition fee	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500
4	All Others fees	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
5	Laboratory fee (Phy./Che.)	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
6	Medical Fee	1,200	00	1200	00	1200	00	1200	00	1200	00
7	Caution Money (Refundable)	2,000	00	00	00	00	00	00	00	00	00
8	ID Card fee	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	Grade card fee	500	500	500	500	500	500	500	500	500	500
	TOTAL	19400	10000	11200	10000	11200	10000	11200	10000	11200	10000

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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	35000	35000	35000	35000	35000
3	All other fees (Exam fee. Rs. 1000, Library fee Rs. 250, I.T fee Rs. 750)	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	ID Card fee	200	00	00	00	00
10	Grade Card	500	500	500	500	500
TOTAL		50700	38500	39500	39500	39500

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	35000	35000	35000	35000	35000	35000	35000
3	All other fees (Exam fee. Rs. 1000, Library fee Rs. 250, I.T fee Rs. 750)	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	ID card fee	200	00	00	00	00	00	00
10	Grade Card	500	500	500	500	500	500	500
TOTAL		50700	38500	39500	38500	39500	39500	38500

M.Sc

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)
1	Admission fee	500	00	00	00
2	Tuition	7500	7500	7500	7500
3	Examination fee	250	250	250	250
4	Laboratory fee	400	400	400	400
5	ID Card fee	200	00	00	00
6	Grade Card	500	500	500	500
TOTAL		9350	8650	8650	8650

NB. Laboratory fee will be applicable to M.Sc students of Physics and Chemistry only.

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	7500	7500	7500	7500	7500	7500	7500

Amth
29/05
14



3	All other fees (Exam fee. Rs. 1000, Library fee Rs. 250, I.T fee Rs. 750)	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	ID card fee	200	00	00	00	00	00	00
TOTAL		17700	10500	11500	10500	11500	11500	10500

The SENATE also suggested the following:

- The tuition fee of Master of Business Administration (MBA) will be Rs. 25,000/- per semester.
- The grade card fee for each semester will be Rs. 500/-
- This fee structure of MBA will be effective from 2014-15.
- All other fees of MBA will be same as M.Tech.

Item No. S/14/04

Consideration and ratification of making appearance in the end term examination mandatory in order to be considered to have passed in any semester.

The SENATE ratified that no student would be declared to have passed in any subject if he / she did not appear in the end term examination even if he/ she secured pass marks on the basis of the result of mid-term examination taking both the marks of written examination and internal assessment together.

Item No. S/14/05

Consideration and ratification of criteria to be followed for preparing merit list of MBA candidates for admission during the academic session 2014-15.

The criteria for selection of candidates for admission in MBA programme in the institute during the academic session 2014-15 was ratified as follows:

The Criteria for selection of candidates of MBA admission:

CMAT/MAT/CAT/GMAT Score	50%
GD	15%
PI	25%
Profile	10%
Total	100%

The following weightage will be considered in the case of following profile:- **Work experience: 5% and Diversity : 5%**

Amth
29/05/14



a. Weightage for Work Experience

Months	6 or Less	7-12	13-18	19-24	25-30	31 and more
Score	0	1	2	3	4	5

- b. Diversity: While merit is the prime consideration, NIT Agartala recognizes a possibility of skewed student structure in favour of male gender. Hence, it strives to ensure a better balance in opportunities among genders, following criteria will be followed:

Gender	Score
Male	0
Female	5

1. Group Discussion :

Communication Skill	Voice Clarity	Leadership	Body Language	Contents	Participation	Total Marks
15	5	5	10	10	5	50

2. Personal Interview:

Appearance & Personality Grooming, Dress, Manners, Posture, Neatness, Well-Defined Goals, Confidence in Abilities, Realistic and Practical	Preparation for the Interview Subject Knowledge, Mathematical Ability	Verbal Communication Delivery and Presentation of Ideas, Grammar and Vocabulary	General Awareness Awareness of Business world, society, politics	Academic Background	Extra Curricular Activities	Total Marks
10	5	10	10	10	5	50

Item No. S/14/06

Consideration and ratification of fee to be charged for issuing transcript and Rank-Certificate to the students.

In regard to issue of Transcript and Rank-Certificate to the students the SENATE ratified the following fees to be charged:

- 1) Transcript: Rs.500/- (Up to 5 sets and Rs. 100/- for each additional set).
- 2) Rank-Certificate: Rs. 50/- per certificate.

Item No. S/14/07

Consideration and ratification of application of Rule 17.1 of UG Rules for regulating the cases of students obtaining "I" grade in PG Programme.

The SENATE ratified that the provision of Rule 17.1 of B.Tech regulations of this Institute which reads "Students who have missed an

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Amh 29/05/14



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end semester examination on valid reasons and awarded "I" grade are eligible for make-up examination. They should make an application to the controller of examinations through the instructor / HoD within 7 days from the date of examination missed explaining the reason for their absence" would henceforth be applicable in dealing such cases of the students of PG programmes also. This will take immediate effect.

Item No. S/14/08

Consideration and approval of format of Provisional Rank Certificate to be issued to the students.

The SENATE ratified that the format for issuing Rank-Certificates to the students as follows:

	राष्ट्रीय प्रौद्योगिकी संस्थान अगरतला	BAR CODE
	National Institute of Technology Agartala Jirania, Tripura(W)-799046, Ph:(0381) 2346-360 / 630	
<u>Provisional Rank Certificate</u>		
Serial No.: Date. / / 20....		
This is to certify that Mr. /Ms.		
Son / Daughter of Mr. /Mrs.		
Bearing enrollment no. has successfully passed the end		
term examination of Semester of		
in held in the month of, 20.....,		
securing an overall C.P.I of (equivalent to %) and occupying		
..... rank as on / / 20....		
Wish him / her every success in life.		
Controller of Examinations NIT Agartala		

Amth
29/05/14



Item No. S/14/09

Consideration and approval of syllabi of 2(two) electives of Mechanical Engineering at UG level.

The syllabi of two electives of Mechanical Engineering at under graduate level were approved as follows:

SPECIAL WELDING AND CASTING PROCESS

MELTING AND POURING

Principles of melting practice-fluxing-Degasification and inoculation-Melting practice of cast iron, SG iron, steel, aluminum and copper alloys.

CASTING DESIGN

Solidification of pure metals and alloys-shrinkage in cast metals-design of sprue, runner, gate and riser-problems in design and manufacture of thin and unequal sections designing for directional solidification, minimum distortion and for overall economy-design problems of L,T,V,X and Y junctions.

WELD DESIGN AND WELDING METALLURGY

Design of welded components-symbolic representation of weld on drawings-welding classes-residual stresses in welds-weld distortions-design consideration-strength consideration of welded joints-analysis of statistically loaded welded joints-welded structures subjected to fatigue loads.

SPECIAL CASTING AND WELDING PROCESSES

Evaporative pattern casting- ceramic mold casting-electromagnetic molding-squeeze casting-PAW-electron beam welding-laser beam welding-friction welding-ultrasonic welding-diffusion welding-high velocity oxy fuel process.

QUALITY CONTROL AND AUTOMATION

Cleaning and inspection of castings-casting defect and remedies-Welding defects-causes and remedies-Non destructive tests-arc welding using robots-weld positioner and manipulators-weld seam tracking-vision system-arc sensing.

Text Books:

1. Welding and welding technology, *Richard L. Little*, McGraw-Hill Companies.
2. Foundry Engineering, *Howard F.Taylor, Merton C. Flemings, John Wulff*, Wiley Eastern Limited
3. Principle of metal casting, *Richard W. Heine, Carl R. Loper, Philip C. Rosenthal*, Tata McGraw-Hill Education
4. Manufacturing Technology, *P. N. Rao*, Tata McGraw-Hill Education.

Amth
29/05/14



QUALITY ENGINEERING & MANAGEMENT

Basic Concept Quality Costs:

Fitness for Use, Quality Characteristics, Parameters of Fitness for use, Definition of quality and its meaning and importance in industry, Control and Quality control, Quality Tasks, Quality functions, The system Concept, Quality systems, quality assurance and ISO 9000 quality system standards, Quality costs concept, Quality cost categories, Examples of Quality cost studies, Securing the Cost figures, Pareto Analysis, Cost reduction Programs and economics of quality.

Control charts:

Statistical Tools in Quality control, The concept of variation, Tabular Summarization of Data, Frequency distribution, Graphical Summarization of Data: The Histogram, Quantitative methods of summarizing data: Numerical Indices, Probability distributions : General, The normal Probability distribution, The normal curve and Histogram Analysis, The causes of variation, statistical aspect of control charting, concept of rational sub-grouping and detecting patterns on the control charts, for variables and attributes: X

and R, X and S, p, np, c and u charts; specification and tolerances, natural tolerance limits, specification limits, process capability ratio analysis and narrow limit gauging

Basic statistical concepts:

Descriptions of Binomial, Poisson and Normal distribution with practical examples, basics of sampling distribution. Acceptance Sampling: Principle of acceptance sampling, Acceptance sampling by attributes: single multiple and sequential sampling plans, lot quality protection and average outgoing quality protection, Acceptance sampling by variables sampling plans of process parameters,

Total quality Management:

Basic concepts of TQM, historical review, leadership, concepts, role of senior management, quality statements, plans for process parameters, Modern Quality Management Techniques: TQM tools: Benchmarking, QFD, Taguchi quality loss function. Lean Manufacturing continuous improvement techniques, JIT systems, pareto diagrams, cause and effect diagrams, scatter diagram, run charts, affinity diagrams, inter-relationship diagram, process decision program charts.

TEXT BOOKS:

1. Quality planning and Analysis, Juran and Gryna, TMH, New Delhi
2. Quality Management, Kanishka Bed, Oxford University Press, New Delhi
3. Introduction to SQC, Montgomery DC, 3e, Wiley, New Delhi
4. Fundamentals of quality control and improvement, A Mitra, Mcmillan pub. Company, NY

REFERENCE BOOKS:

1. Fundamentals of Applied Statistics, Gupta and Kapoor, Sultan Chand and Sons, New Delhi.

Amth
29/05
14



Item No. S/14/10

Consideration and approval of declaring a student failed in the subject(s) in which he/she is found adopting unfair-means in the examination hall.

Regarding adoption of unfair means in the examination hall by a student the SENATE approved as follows:

- If any student is found to adopt unfair means in Mid Term/ End term examination he/ she will be expelled for the subject (s) only but not for the rest of the examinations. Such student will be awarded "F" grade in the subject(s) in which he/ she will be found adopting unfair means in the examination.

Item No. S/14/11

Consideration and approval of selection of students for admission in BS-MS programme in Physics, Chemistry and Mathematics through Institute test.

In regard to the admission of candidates in BS-MS programme in Physics, Chemistry and Mathematics by conducting an Institute test the SENATE decided that status-quo would be maintained for the present. The existing system of admission in BS-MS programme through CSAB will continue as usual.

Item No. S/14/12

Consideration and approval of allowing admission of the students in Ph.D in Engineering in the Department of Physics.

The SENATE declined to approve the proposal of allowing admission of the students in Ph.D in Engineering in the Department of Physics. However, the SENATE gave the following suggestion:

- The Dean (AA) would constitute a committee consisting of 3(three) members such as Dean (R&C), Dean (FW) and Dr. Ajoy Chakraborty, Asso. Professor & HOD Electrical Engineering which would consider the matter appropriately and give necessary suggestion to the SENATE for arriving at a suitable decision.
- The Head of the Department of Physics would collect relevant information in this regard from other IITs and NITs and place the same before the Dean(AA).

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29/05
14



Item No. S/14/13

Consideration and approval of shifting the subject “Industrial Management” to 6th semester and the subject “Engineering Economics & Accounts” to 7th semester.

The SENATE approved shifting of the subject “Industrial Management” to 6th semester and the subject “Engineering Economics & Accounts” to 7th semester of B.Tech programme in Electronics & Communication Engineering Department. This would be effective the academic session 2014-15.

Item No. S/14/14

Consideration and approval of revised credit of Computer Integrated Manufacturing (CIM), a specialization of M.Tech programme in Production Engineering.

The SENATE approved the revised credit of Computer Integrated Manufacturing (CIM), a specialization of M.Tech programme in Production Engineering as follows:

Semester I

Sl. No.	Name of the Subject	L	T	P	Total Periods/week	Credit
1	Basic Core - Advances in Machining Process	03	01	00	04	4
2	Core Subject I - Finite Element Methods	03	01	00	04	4
3	Core Subject II- CAD/CAM	03	01	00	04	4
4	Elective – I i. Design for Manufacturing and Assembly ii. Advances in CNC System iii. Advances in Material Processing iv. Machine Tool Design v. Metal Forming Technology	03	01	00	04	4
5	Elective – II i. Product Engineering ii. Quality Engineering iii. Plant Engineering and Maintenance iv. Project Management v. Human Resource Management	03	01	00	04	4
6	Advances in Machining Process Lab	00	00	03	03	2
7	CAD/CAM and Programming Lab	00	00	03	03	2

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29/05/14



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8	Seminar	00	00	00	00	1
TOTAL						25

Semester II

Sl. No.	Name of the Subject	L	T	P	Total Periods/week	Credit
1	Basic Core - Computer Aided Process Planning and control	03	01	00	04	4
2	Core Subject I - Robotics and Simulation	03	01	00	04	4
3	Core Subject II- Advanced Optimization techniques	03	01	00	04	4
4	Elective – I i. Metrology and Computer aided Inspection ii. Advances in Welding Technology iii. Advance Heat Transfer iv. Advances in Metal Casting	03	00	00	03	3
5	Elective – II i. Advances in Production Management ii. Process Engineering iii. Computer Programming and Algorithm iv. Analysis and control of manufacturing system	03	00	00	03	3
6	Computer aided process planning and control Lab	00	00	03	03	2
7	Robotics and Automation Lab	00	00	03	03	2
8	Project Preliminary	00	00	00	00	2
9	Comprehensive viva voce	00	00	00	00	1
TOTAL						25

Semester III

Sl. No.	Name of the Subject	Credit
1	Interim Dissertation Seminar & Viva Voce	15
Total		15

Amr
29/05/14



Semester IV

Sl. No.	Name of the Subject	Credit
1	Dissertation Seminar & Viva Voce	20
Total		20

Item No. S/14/01/A Consideration and approval of revised credit of M.Tech programme in Mechanical Engineering Department.

The SENATE approved the revised credit of M.Tech programme in Mechanical Engineering Department. The revised credit is given below:

1st Semester

Code No.	Subject Name	L - T - P	Cr.
1	Advance Mathematics	3-1-0	4
2	Vibration	3-1-0	4
3	Advanced Machine Design	3-1-0	4
4	Analysis and synthesis of Mechanism	3-1-0	4
5	Finite Element Method	3-1-0	4
6	Laboratory I	0-0-3	2
7	Laboratory II	0-0-2	2
8	Seminar	0-0-3	1
Total			25

2nd Semester

Code No.	Subject Name	L - T - P	Cr.
1	Applied Computational Method	3-1-0	4
2	Fracture Mechanics	3-1-0	3
3	M/C tool Design	3-1-0	4
4	Advanced Vibration	3-1-0	4
5	Robotics	0-0-4	4
6	Laboratory III	0-0-2	2
7	Laboratory IV	0-0-2	2
8	Project Preliminary		2
Total			25

3rd Semester

Sessionals						
Sl.No.	Theory	Contacts periods/week				Credit
		L	T	P	Total	
1.	Assigned Project	-	-	15	15	15
Total of Semester						15

4th Semester

Sessionals						
Sl.No.	Theory	Contacts periods/week				Credit
		L	T	P	Total	
1.	Assigned Project	-	-	20	20	20
Total of Semester						20

Placed before the SENATE for consideration and approval.

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29/05/14



Item No. S/14/02/A Consideration and approval of modified course curriculum for Integrated Energy System of M.Tech programme under Electrical Engineering Department.

The SENATE approved the modified course curriculum of Integrated Energy System, a specialization of M.Tech programme under Electrical Engineering Department. The revised course curriculum of the specialization has been given below:

1ST SEMESTER

SL	SUBJECT	L	Assignment	P	S	Cr.
1	Paper – 1(Basic Core)	3	1	0	0	4
2	Paper – 2 (Core Subject-I)	3	1	0	0	4
3	Paper – 3(Core Subject-II)	3	1	0	0	4
4	Elective Paper – I	3	1	0	0	4
5	Elective Paper – II	3	1	0	0	4
6	Laboratory_I	0	0	3	0	2
7	Laboratory_II	0	0	3	0	2
8	Seminar	0	0	0	2	1
	Total	15	5	6	2	25

2ND SEMESTER

SL	SUBJECT	L	Assignment	P	S	Cr.
1	Paper – 1(Basic Core)	3	1	0	0	4
2	Paper – 2 (Core Subject-I)	3	1	0	0	4
3	Paper – 3(Core Subject-II)	3	1	0	0	4
4	Elective Paper –III	3	1	0	0	4
5	Thesis Preliminary	0	2	0	0	2
6	Laboratory_III	0	0	3	0	2
7	Laboratory_IV	0	0	3	0	2
8	Comprehensive Viva-voce					1
	Total	12	8	6	0	23

3RD SEMESTER

SL	SUBJECT	L	T	P	S	Cr.
1	Thesis	0	0	0	Full	17
	Total	0	0	0	Full	17

4TH SEMESTER

SL	SUBJECT	L	T	P	S	Cr.
1	Thesis	0	0	0	Full	20
	Total	0	0	0	Full	20

The same subject code cannot be selected for both Basic core/Subject and Elective. All subjects offered as Subject core can be offered as Elective subjects in the respective semester. The student cannot register twice for the same subject. Students will choose the subject for each semester in consultation with the faculty advisor.

Amth
29/05/14



Basic Core (I-Semester)

	Advanced Circuit Design
	Advanced Control System
	Advanced Mathematics
	Digital Signal Processing
	Optoelectronics Instrumentation
	Large scale systems

Basic Core (II-Semester)

	Artificial Intelligence and Expert Systems
	Digital Control
	Estimation of Signals and Systems
	Optimization Technique
	Probability and Statistical Methods
	Power System Planning

	Energy System
Subject Core- I Semester	Renewable Energy
	Energy Conservation
Subject Core- II Semester	Operation & Control of Electrical Energy Systems
	Distributed Generation Systems

	Energy System
Laboratory-I	Energy Lab I
Laboratory-II	Power Electronics Lab
Laboratory-III	Energy Lab II
Laboratory-IV	Power System Simulation Lab

Elective I	
	Selected Topics I
	Selected Topics II
	Power Plant Engineering
	HVDC Transmission
	Embedded Systems
	High Voltage Engineering
	Flexible AC Transmission Systems (FACTS)
	Advanced Power System
	Biomedical Instrumentation
	Direct Energy Conversion
	Energy, Ecology & Environment
	Fuel Technology
	Fundamentals of Energy Economics
	Power Generation Transmission and Distribution
	Electrical Power System Analysis
	Power System Planning and Operation

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29/05
14



The SENATE also decided that status-quo would be maintained regarding the eligibility criteria for admission in the specialization in order to keep the basic idea of introduction of the Specialization / School unchanged.

Item No. S/14/03/A Consideration and approval of Academic Calendar for the academic session 2014-15.

The SENATE approved the Academic calendar for the academic session 2014-15 as follows:

ODD Semester		July-Dec 2014
Sl. No.	Activity	Dates
1	Course Registration, Institute fee payment without fine	July 10 th -11 th (Thu-Fri)
2	Commencement of Classes	July 14 th (Mon)
3	Last date for Registration with fine	July 18 th (Fri)
4	Commencement of 1 st Semester Classes (UG & PG)	July 21 st (Mon)
5	Independence Day	Aug 15 th (Fri)
6	Mid Term Examination (UG & PG)	Sept 19 th - 26 th (Fri – Fri)
7	Maha Saptami	Oct 01 st (Wed)
8	Mahatma Gandhi's Birthday	Oct 02 nd (Thu)
9	Dussehra (Vijayadashami)	Oct 03 rd (Fri)
10	ID-UL-Zuha (Bakrid)	Oct 06 th (Mon)
11	Festival Vacation	Oct 07 th – 10 th (Tue – Fri)
12	Diwali	Oct 23 rd (Thu)
13	Muharram	Nov 04 th (Tue)
14	Guru Nanak's Birthday	Nov 06 th (Tue)
15	Cultural Festival	Nov 7 th – 9 th (Fri-Sun)
16	End Term Examination	Nov 28 th – Dec 5 th (Fri-Fri)
17	Special Camps (NSS/NCC for 1 st Semester Students)	Dec 8 th – 11 th (Mon-Thu)
18	Last Date of submission of marks by DUPC/DPPC to the Controller of Examinations	Dec 15 th (Mon)
19	Meeting of Board of Examiners	Dec 18 th (Thu)
20	Publication of Result	Dec 19 th (Fri)
21	Winter Vacation (For Students)	Dec 12 th – 31 st (Mon-Wed)
22	Winter Vacation (For Faculty)	Dec 22 nd -31 st (Mon-Wed)

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29/05/14



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National Institute of Technology Agartala

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Tentative Academic Calander				July-Dec 2014			
Week	SUN	MON	TUE	WED	THU	FRI	SAT
wk01					July-10 Course Registration, Institute fee payment without fine	July-11 Course Registration, Institute fee payment without fine	July-12 wk01
wk02	July-13	July-14 Commencement of Classes	July-15	July-16	July-17	July-18 Last date for Registration	July-19 wk02
wk03	July-20	21 st July Commencement of 1 st Semester Classes (UG & PG)	July-22	July-23	July-24	July-25	July-26 wk03
wk04	July-27	July-28	July-29	July-30	July-31	Aug-01	Aug-02 wk04
wk05	Aug-03	Aug-04	Aug-05	Aug-06	Aug-07	Aug-08	Aug-09 wk05
wk06	Aug-10	Aug-11	Aug-12	Aug-13	Aug-14	Aug-15	Aug-16 wk06
wk07	Aug-17	Aug-18	Aug-19	Aug-20	Aug-21	Aug-22 Independence Day	Aug-23 wk07
wk08	Aug-24	Aug-25	Aug-26	Aug-27	Aug-28	Aug-29	Aug-30 wk08
wk09	Aug-31	Sept-01	Sept-02	Sept-03	Sept-04	Sept-05	Sept-06 wk09
wk10	Sept-07	Sept-08	Sept-09	Sept-10	Sept-11	Sept-12	Sept-13 wk10
wk11	Sept-14	Sept-15	Sept-16	Sept-17	Sept-18	Sept-19	Sept-20 wk11
wk12	Sept-21	Sept-22 [*]	Sept-23	Sept-24	Sept-25	Sept-26 Mid Term Examination (UG & PG) commences	Sept-27 wk12
wk13	Sept-28	Sept-29	Sept-30	Oct-01 Mahasaptami	Oct-02 Mahatma Gandhi's Birthday	Oct-03 Dussehra (Vijaydashami) ends	Oct-04 wk13
wk14	Oct-05	Oct-06 ID-UL-Zuhra (Bakrid)	Oct-07 Festival Vacation commences	Oct-08	Oct-09	Oct-10 Festival Vacation ends	Oct-11 wk14
wk15	Oct-12	Oct-13	Oct-14	Oct-15	Oct-16	Oct-17	Oct-18 wk15
wk16	Oct-19	Oct-20	Oct-21	Oct-22	Oct-23 Diwali	Oct-24	Oct-25 wk16
wk17	Oct-26	Oct-27	Oct-28	Oct-29 [*]	Oct-30	Oct-31	Nov-01 wk17
wk18	Nov-02	Nov-03	Nov-04 Muharram	Nov-05	Nov-06 Guru Nanak's Birthday	Nov-07 Cultural Festival starts	Nov-08 wk18
wk19	Nov-09 Cultural Festival ends	Nov-10	Nov-11 [*]	Nov-12	Nov-13	Nov-14	Nov-15 wk19
wk20	Nov-16	Nov-17	Nov-18	Nov-19	Nov-20	Nov-21	Nov-22 wk20
wk21	Nov-23	Nov-24 [*]	Nov-25	Nov-26	Nov-27	Nov-28 End Term Exam. commences	Nov-29 wk21
wk22	Nov-30	Dec-01	Dec-02	Dec-03	Dec-04	Dec-05 End Term Examination ends	Dec-06 wk22
wk23	Dec-07	Dec-08 Special Camps (NSS/NCC for 1 st Semester Students)	Dec-09	Dec-10	Dec-11 Special Camps (NSS/NCC for 1 st Semester Students)	Dec-12 Winter Vacation (For Students) commences	Dec-13 wk23
wk24	Dec-14	Dec-15 Last Date of submission of marks by DUJPC/DPPC to the Controller of Exams	Dec-16	Dec-17	Dec-18 Meeting of Board of Examiners	Dec-19 Publication of Result	Dec-20 wk24
wk25	Dec-21	Dec-22 Winter Vacation (For Faculty) commences	Dec-23	Dec-24	Dec-25 Christmas	Dec-26	Dec-27 wk25
wk26	Dec-28	Dec-29	Dec-30	Dec-31 Winter Vacation Ends			Dec-28 wk26

*Classes to be conducted as per the routine of Friday

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29/05/14



Even Semester

Jan - May 2015

Sl. No.	Activity	Dates
1	Course Registration, Institute fee payment without fine	January 1 st & 2 nd (Thu-Fri)
2	Commencement of Classes	January 5 th (Mon)
3	Last date for Registration with fine	January 9 th (Fri)
4	Games & Sports	January 24 th – 26 th (Sat-Mon)
5	Republic Day	January 26 th (Mon)
6	Mid Term Examination (UG & PG)	Feb 26 th - Mar 5 th (Thu-Thu)
7	Holi	Mar 6 th (Fri)
8	Commencement of Classes after Mid-Term	Mar 9 th (Mon)
9	Tech Fest (Aayam)	Mar 13 th - 15 th (Fri-Sun)
10	Mahavir jayanti	Apr 2 nd (Thu)
11	Good Friday	Apr 3 rd (Fri)
12	Vaisakhadi (Bengali New Year)	Apr 15 th (Wed)
13	Ring Ceremony (final year student)	Apr 24 th (Fri)
14	End Term Examination	May 1 st – 8 th (Fri - Fri)
15	Last Date of submission of marks by DUPC/DPPC to the Controller of Examinations	May 15 th (Fri)
16	Meeting of Board of Examiners	May 20 th (Wed)
17	Publication of Result	May 21 st (Thu)
18	Summer Vacation (For Students)	May 11 th – July 9 th (Mon – Thu)
19	Summer Vacation (For Faculty)	May 25 th – July 9 th (Mon – Thu)
20	Re-opening of the Institute	July 10 th (Tue)

Total number of days of vacation covering summer, winter and festival vacation.

Summer vacation	Winter vacation	Festival vacation	Total
46	10	04	60

The SENATE also suggested that any donation to be given by any sponsor for any programme of the Institute such as Tech fest etc. must be given in cheque. No cash amount would be received by the Institute from any sponsor.

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29/05/14



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Even Semester				Tentative Academic Calander				January-May 2015			
Week	SUN	MON	TUE	WED	THU	FRI	SAT	Week			
wk01					Jan-1 Course Registration, fee payment without fine	Jan-2 Course Registration, fee payment without fine	Jan-3	wk01			
wk02	Jan-4	Jan-5 Commencement of Classes	Jan-6	Jan-7	Jan-8	Jan-9 Last date for Registration with fine	Jan-10	wk02			
wk03	Jan-11	Jan-12	Jan-13	Jan-14	Jan-15	Jan-16	Jan-17	wk03			
wk04	Jan-18	Jan-19	Jan-20	Jan-21	Jan-22	Jan-23	Jan-24 Games & Sports	wk04			
wk05	Jan-25	Jan-26 Games & Sports	Jan-27	Jan-28	Jan-29	Jan-30	Jan-31	wk05			
wk06	Feb-1	Feb-2	Feb-3	Feb-4	Feb-5	Feb-6	Feb-7	wk06			
wk07	Feb-8	Feb-9	Feb-10	Feb-11	Feb-12	Feb-13	Feb-14	wk07			
wk08	Feb-15	Feb-16	Feb-17	Feb-18	Feb-19	Feb-20	Feb-21	wk08			
wk09	Feb-22	Feb-23	Feb-24	Feb-25	Feb-26	Feb-27	Feb-28	wk09			
wk10	Mar-1	Mar-2	Mar-3	Mar-4	Mar-5	Mar-6	Mar-7	wk10			
wk11	Mar-8	Mar-9	Mar-10	Mar-11*	Mar-12	Mar-13 Tech Fest (Aayam)	Mar-14 (Aayam)	wk11			
wk12	Mar-15 (Aayam)	Mar-16	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	wk12			
wk13	Mar-22	Mar-23	Mar-24	Mar-25	Mar-26	Mar-27	Mar-28	wk13			
wk14	Mar-29	Mar-30	Mar-31	Apr-1	Apr-2 Mahavirjyanti	Apr-3 Good Friday	Apr-4	wk14			
wk15	Apr-5	Apr-6	Apr-7	Apr-8	Apr-9	Apr-10	Apr-11	wk15			
wk16	Apr-12	Apr-13	Apr-14*	Apr-15 (Bengali New Year)	Apr-16	Apr-17	Apr-18	wk16			
wk17	Apr-19	Apr-20*	Apr-21	Apr-22	Apr-23	Apr-24 Ring Ceremony (final year student)	Apr-25	wk17			
wk18	Apr-26	Apr-27	Apr-28	Apr-29	Apr-30	May-1 End Term Examination	May-2	wk18			
wk19	May-3	May-4 End Term Examination	May-5 End Term Examination	May-6 End Term Examination	May-7 End Term Examination	May-8 End Term Examination	May-9	wk19			
wk20	May-10	May-11 Summer Vacation for Students starts	May-12	May-13	May-14	May-15 Last Date of submission of marks by DUPC/DPPC	May-16	wk20			
wk21	May-17	May-18	May-19	May-20 Meeting of Board of Examiners	May-21 Publication of Result	May-22	May-23	wk21			

*Classes to be conducted as per the routine of Friday

Placed before the SENATE for consideration and approval.

[Signature]

[Signature]
29/05/14



Item No. S/14/04/A Consideration and approval of Amendment of provision 11.1, 11.2, and 11.3 in regard to temporary withdrawal by the B.Tech students.

The SENATE approved the amendment of the provision of sub rule 11.1, 11.2, and 11.3 of B.Tech regulations in regard to temporary withdrawal by the B.Tech Students as follows:

EXISTING RULE	APPROVED RULE
<p>11.1 A student who has been admitted to an undergraduate programme of the Institute may be permitted to withdraw temporarily from the Institute on the grounds of prolonged illness or grave calamity in the family for a period of one semester or more, provided:</p> <p>a.He/she applies to the Institute within at least 6 weeks of the commencement of the semester or from the date he/she last attended his/her classes whichever is later, stating fully the reasons for withdrawal together with supporting documents and endorsement of his/her guardian.</p> <p>b.The Institute is satisfied that, counting the period of withdrawal, the student is likely to complete his/her requirements of the B.Tech. degree within the time limits i.e. 12 consecutive semesters (from the first semester registration)</p> <p>c.There are no outstanding dues or demands of the Institute/ Hostel/ Library/NCC/NSO.</p> <p>11.2 A student who has been granted temporary withdrawal from the Institute under the provisions of para 11.1 will be required to pay fees/charges (except tuition fees and hostel dues) till such time as his/her name is on the Roll List. However, fees once paid will not be returned.</p> <p>11.3 Normally, a student will be permitted only one such temporary withdrawal during his/her tenure as a student of the undergraduate programme.</p>	<p>i. A student who has been admitted to a undergraduate degree course of the Institute may be permitted to withdraw temporarily for a period of one semester or more from the Institute on grounds of prolonged illness or acute problem in the family which compelled him to stay at home, provided:</p> <p>(a) he/she applies to the Institute <u>within 6 weeks</u> of the commencement of the semester or from the date he/she last attended his/her classes whichever is later, stating fully the reasons for such withdrawal together with supporting documents and <u>endorsement of the father/guardian.</u></p> <p>(b) the Institute is satisfied that, inclusive of the period of withdrawal, the student is likely to complete his requirements for the degree within the time limits to be specified in rule 10.1.11</p> <p>(c) there is no outstanding dues or demands from him/her by the Institute/Hostel/Department/Library/Gymkhana/NCC/NSO/NSS.</p> <p>ii. A student who has been granted temporary withdrawal from the Institute under the provisions of (i) stated above will be required to pay fees/charges (except tuition fees and hostel dues) till such time as his/her name is on the Roll List. However, fees once paid will not be returned.</p> <p>iii. <u>For those students who have scored F & FA grade in 4(Four) or more theory & practical subjects and is restricted to register for the next semester, for them the semester fee will be the tuition fee and other essential fees/charges for the intervening period till such time as his/her name is borne on the Roll List , even if they do not have any backlog paper for any one of the semester in that particular year.</u></p> <p>iv. A student will be granted only one such temporary withdrawal during his/her tenure as a student of the Institute.</p>

Amth
29/05/14



Item No. S/14/05/A Consideration and approval of partial modification of decision of 13th SENATE meeting against item no. 27 in regard to publication of papers by Ph.D scholars in Journals.

The senate approved the partial modification of the decision of the 13th meeting of SENATE of this Institute against item no. S/13/27 as follows:

Any research scholar must publish at least 3(three) papers in International Journals (SCI/reputed) before submission of the Ph.D thesis.

The SENATE also approved that the status of the Journal where the paper(s) of the Ph.D scholar(s) will be published is/ are reputed will be approved by the Chairman Senate.

Item No. S/14/06/A Consideration and approval of revision of working hours of the Institute from the academic 2014-15.

The SENATE approved that from July-2014 class works as well as office works of the Institute would start at 8.30 am. The Institute would break up at 4.30 pm.

All decisions were taken unanimously.

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

(Prof. Gopal Mugeraya)
Chairman, SENATE

(Sumanta Chakrabarti)
Secretary, SENATE