



## NATIONAL INSTITUTE OF TECHNOLOGY: TIRUCHIRAPPALLI – 15

*Minutes of the 28<sup>th</sup> Senate Meeting of the National Institute of Technology, Tiruchirappalli held in the A-11 Hall at 2.00 PM onwards on 18.02.2014*

The following members were present:

1. Prof. Sundarrajan S	Chairman, Senate
2. Dr.Ashoka G.Samuelson	External Member
3. Dr.Ammasai Gounden	Member
4. Dr.Anantharaman N.	Member
5. Dr.Asokan P.	Member
6. Dr.Arul Daniel S.	Member
7. Dr.Banerjee A.K	Member
8. Dr.Balasubramanian T	Member
9. Dr.Bakthavatsalam A.K	Member
10. Dr.Cindrella L.	Member
11. Dr.Chandra Bose A	Member
12. Dr.Deivamoney Selvam D.	Member
13. Dr.Gopalan N.P.	Member
14. Dr.(Mrs.)Hemalatha Thiagarajan	Member
15. Dr.Jayabalan P.	Member
16. Dr.Janakiraman T.N	Member
17. Dr.Kannabiran G	Member
18. Dr.Kumanan S	Member
19. Dr.Krishnan P.A	Member
20. Dr.N.Kumaresan	Member
21. Dr.Karvembu R	Member
22. Dr.Moses Santhakumar S	Member
23. Dr.Muthupandi V	Member
24. Dr.Murugesan K	Member
25. Dr.(Mrs.)Nagamani C	Member
26. Dr.Nallaswamy R	Member
27. Dr.Natarajan C	Member
28. Dr.Noorul Haq.A	Member
29. Dr.Nickolas S.	Member
30. Dr.Pandey K.S	Member
31. Dr.Punniamoorthy M.	Member
32. Dr.Radhakrishnan T.K	Member
33. Dr.Raghavan S	Member
34. Dr.Ramadoss B.	Member
35. Prof.Ramprasad V	Member
36. Dr.Raman Sankaranarayanan	Member
37. Dr.Sankaranarayananasamy K	Member
38. Dr.Sarangan J	Member

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39. Dr.Sastikumar D	Member
40. Dr.Selvakumar S	Member
41. Dr.Selvaraj T	Member
42. Dr.Shanmugam S	Member
43. Dr.Sivashanmugam P	Member
44. Dr.Srinivas Tadepalli	Member
45. Dr.Sundareswaran K.	Member
46. Dr.Samson Mathew	Member
47. Dr.Sarat Chandra Babu J	Member
48. Dr.D.Sriramkumar	Member
49. Dr.Subbaiyan G	Member
50. Dr.Sivakumaran N.	Member
51. Dr.V.J.Sivakumar	Member
52. Dr.Swaminathan G	Member & Secretary-Senate
53. Dr.T.Suthakar	Member
54. Dr.Venkatasamy Reddy A	Member
55. Dr.Viswanathan Iyer K.	Member
56. Dr.Venkatesa Prabhu G.	Member
57. Dr.Jeyapaul R	Special Invitee
58. Dr.Palanisamy R	Special Invitee
59. Dr.M.Perumalsamy	Special Invitee
60. Dr.(Mrs.)Dhanalakshmi G.	Special Invitee
61. Dr.S.Vinodh	Special Invitee

The following members expressed their inability to attend the meeting

1. Dr.V.Jagadeeshkumar	External Member
2. Dr.Malathi Duraisamy	External Member
3. Dr.Natarajan S	Member
4. Dr.Pakkirisamy V	Special Invitee

The following members could not attend the meeting:

1. Dr.Meenakshisundaram C	Member
2. Dr.Narayanasamy R.	Member
3. Dr.Ponalagusamy R	Member
4. Dr.Udayakumar M	Member
5. Dr.Umapathy M.	Member
6. Dr.Venkataramani B.	Member
7. Dr.Gopalakrishnan G.	Special Invitee

The Chairman-Senate welcomed the senate members and apprised them of the initiatives taken in reforming the teaching-learning process. He also welcomed the external member Dr. Samuelson and the new Heads of the Department, Dr.T. Suthakar, Dr. D. Sriram Kumar and Dr.V.J. Sivakumar to the Senate. The Chairman placed on record the excellent work rendered by

*G. K.*



the outgoing Dean Dr. P. Asokan in streamlining Admissions and also welcomed the new Dean Dr. S. Arul Daniel. The Chairman also mentioned about the installation of Student Senate, a body of class representatives and members of student council to discuss the issues faced by the students in the teaching-learning process. The Chairman also informed the members about the visit of the former President of India, His Excellency Dr. A.P.J. Abdul Kalam to the Institute to award the Distinguished Alumni Awards on 26<sup>th</sup> February 2014.

After the welcome address by the Chairman Senate, the discussions were initiated item wise listed in the agenda.

1. To confirm the Minutes of the 27<sup>th</sup> Senate Meeting and Senate Subcommittee Meeting held on 20.09.2013 and 16.12.2013 respectively.

*Approved*

2. To approve and ratify the entire admission of UG, PG and Ph.D. Programmes for the year 2013-2014.

*The entire admission of UG, PG and Ph.D. Programmes for the year 2013-2014 is approved. However, the modalities for satisfying the Architecture Council norms for the students admitted through DASA scheme to B.Arch. programme may be explored by the HOD of Architecture Department.*

3. Results of odd Semester UG & PG Courses 2013-2014.

*The Senate ratified the results of odd semester UG & PG courses 2013-14 with the following observations.*

*The guidelines for grading have not been followed by few faculty members. The PAC Chairpersons are advised to scrupulously follow the already approved guidelines for grading the students. The Senate observed the absence of students in 'S' Grade and crowding of students in 'E' Grade in some subjects with concern.*

4. To ratify the award of Provisional degree to M.S/Ph.D. Candidates who have successfully completed the requirements of the degree.

*The Senate resolved to ratify the award of provisional degree to M.S./Ph.D. candidates listed in the 28<sup>th</sup> Senate Agenda and Notes*

*The research supervisors are advised by the Senate to follow the guidelines given in the respective Regulations while recommending the panel of examiners for evaluating M.S./Ph.D. thesis.*

*A. K.*



5. Approval for Ph.D. Directed Study Courses

*The Senate approves the following directed study courses as suggested by various departments.*

<i>S.No.</i>	<i>Department</i>	<i>Course</i>
<i>1</i>	<i>Computer Science &amp; Engineering</i>	<i>1. Embedded Multi Core Systems 2. Multi-Core Cache Memory 3. Kernel Methods and Pattern Analysis</i>
<i>2</i>	<i>Electrical and Electronics Engineering</i>	<i>1. Protocols and Architectures for Wireless Sensor Networks</i>
<i>3</i>	<i>Electronics and Communications Engineering</i>	<i>1. Photonic Crystal Devices and Applications</i>
<i>4</i>	<i>Instrumentation and Control Engineering</i>	<i>1. Medical Image Processing 2. Stochastic Processes 3. Railway Vehicle Dynamics</i>
<i>5</i>	<i>Mechanical Engineering</i>	<i>1. ME 820 Mechanical Vibrations and Shock: Theory &amp; Measurements</i>
<i>6</i>	<i>Management Studies</i>	<i>1. Social Media and Knowledge Management 2. Social Network Analysis 3. Entrepreneurial Marketing 4. Indian Banking and Financial System 5. Banking Fraud Risk Management 6. Technology and Fraud Risk Management in banks</i>
<i>7</i>	<i>Computer Applications</i>	<i>1. CA838 Medical Image Analysis 2. CA839 Infometrics 3. CA 840 Integrated Software Project Management 4. CA 837 Advanced Information Security</i>

*In addition, the Senate approves the following courses, subject to the condition, that the syllabi are modified as per the regular PG format which includes course objective, outcome, five units and the list of references.*

- i. Advanced Control System Design for Aerospace vehicles*
- ii. Literary and Visual Cultures of AIDS*
- iii. An introduction to Indian Queer Studies*
- iv. Illness as Metaphor: Text and Contexts*
- v. Representation of Diseases in Literature*
- vi. A survey of Indian Writing in English*
- vii. Indian Diaspora: An Introduction*



- viii. *Contemporary Women Writers in India: Texts and Contexts*
- ix. *South East Asian Literature*
- x. *Humanistic Texts across Cultures: Selections from World Literature*
- xi. *Theorizing in the Humanities*
- xii. *Bilingualism: Theories and Practice*
- xiii. *Survey of the Malayalam Novel*

6. To approve the Global electives/electives offered by different departments.

*The Senate has granted ad-hoc approval for the following subjects. These elective subjects shall get the formal approval from the BoS concerned and subsequently be placed once again in Senate for final approval.*

- i. *MT 472 New Product Development*
- ii. *MB476 Basic Introduction to Music Information Technology*
- iii. *EC 468 Functional Analysis*
- iv. *EC 461 Statistical Signal Processing*
- v. *CS 364 Principles of Processer Design*

*The course, MT 472 New Product Development shall have one cycle test and one project work of 20% weightage each in addition to the assignment of 10% weightage. The semester examination shall have a weightage of 50%*

7. Senate Sub-Committee recommendations on allowing Research Scholars of peer Institutions for course work.

*Approved*

8. Minor modifications in the regulations of academic programmes for Senate's Consideration.

*The Senate has approved the following minor modifications in the regulations with immediate effect.*



**Ph.D/M.S. Programme:**

<b>S.No.</b>	<b>Item</b>	<b>Existing</b>	<b>Amendment(Approved)</b>
1	<i>Deadline for submission of thesis for payment of respective semester fees</i>	-	<i>Odd Semester: July 31 Even Semester: Jan 31</i>
2	<i>M.S. degree – maximum course duration</i>	-	<i>Maximum duration: 5 Years</i>
3	<i>Maternity leave for lady research scholars</i>	-	<i>6 Months with stipend within the stipulated period of 4 years. Maternity Leave shall be granted to only a female scholar with less than two surviving children and once during the entire period of study.</i>

*Signature*



B.Tech. Programme

S.No.	Item	Existing	Amendment(Approved)
1	Re-introduction of Summer term course	-	<p>(a) A summer term course may be offered by a department on the recommendation of the Head of the Department and the faculty offering the course and with the approval of the Dean (Academic). An elective course may also be offered in summer.</p> <p>(b) A summer term course is open only to those students who had taken the course earlier and had obtained a 'V' Grade.</p> <p>(c) No Student should register for more than two courses during a summer term.</p> <p>(d) Summer term courses will be announced by the Dean (Academic) at the end of the even semester before the commencement of the end-semester examinations. A student will have to register within the time stipulated in the announcement by paying the prescribed fees.</p> <p>(e) Withdrawal from a summer term course is not permitted. No supplementary examination will be given for a summer term course.</p>
2	Students with 6 F grades per year.	<p>B13 b. Students who have more than six 'F' grades at the end of each academic year (odd and even semesters put together) should join the programme only after satisfying the requirement (number of F Grades should be less than or equal to 6).</p>	<p>Approved to be removed from the B.Tech./B.Arch. regulations</p>



3	<b>Passing minimum</b>	<b><i>B12 c. The passing minimum should be <math>\frac{\bar{X}}{2}</math> or <math>\frac{X_{\max}}{3}</math>, whichever is less. Where <math>\bar{X}</math> is the mean of the class and <math>X_{\max}</math> is the maximum mark in the class.</i></b>	<b><i>Approved to be removed from the B.Tech./B.Arch. regulations.</i></b>  <i>Separate guidelines for deciding the passing minimum based on relative grading shall be issued by the office of the Dean (Academic) for internal circulation among faculty members.</i>
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9. Students' Representations for Senate Consideration.

- a. To ratify the approval of the Chairman, Senate, on the request given by Mr.Minhaz Mohammed M.A. (Roll No.114111046 – III year B.Tech. Prod.) and Mr.Ankut Anmol (Roll No.106111012- III year B.Tech. CSE) to redo the II semester course Chemistry II (CH 102) during the even semester 2013-14, with old syllabus as a separate term course. The same is offered separately by Dr. Sreekanth. The current I year B.Tech. Programmes have revised branch(s) wise new syllabus for Chemistry II.

***Ratified***

- b. Representation from Mr.R.Sankaran, (Roll No. 312912051) and Mr.R.Gunaseelan (Roll No.312912052) forwarded by Prof.S.Natarajan, Chairman - CECASE in connection with the Correction of Branch name in Students' Grade card. The request is to change the branch name in the transcript as MS – Centre of Excellence in Corrosion and Surface Engineering (CECASE) instead of MS – Metallurgical and Materials Engineering.

***The Senate has approved to issue all the academic documents in the name of MS-Corrosion and Surface Engineering for the students admitted in CECASE.***

- c. Representation from Ms.N.Gayatri (Roll No.401107052), full time Ph.D. scholar from the Department of Computer Applications for the extension of her research period for another nine months. She has taken leave on medical grounds (Maternity) during her stipendiary period and in the subsequent period. Hence, she could not





complete her Ph.D within the stipulated period of six years. The doctoral committee has recommended this extension.

***The candidate shall be governed by the resolutions passed in the 27<sup>th</sup> Senate Meeting (Item 6.ii).***

10. Any other item with the approval of the Chairman.

- a. To ratify the approval of the Chairman, Senate on the request of Prof.S.Natarajan, Chairman, CECASE to consider the subject MT 622 Surface Engineering as a core subject for M.S. students of CECASE. MT 622 is offered as an elective course for M.Tech. Industrial Metallurgy Programme

***Ratified***

- b. To ratify the approval of the Chairman, Senate on the change in the eligibility and academic requirements for getting admission to Ph.D Programme of Management Studies. The modified eligibility criteria is:

“Master degree in Business Administration with NET/UGC/CAT/ATMA/XAT/MAT or Master’s degree in Industrial Engineering/Industrial Management with minimum 60% aggregate marks (CGPA 6.5/10) in UG or PG for admission under OC/OBC category and 55% aggregate marks or equivalent CGPA of 6.0 is the eligibility requirement for SC/ST/PH candidates. Along with above eligibility requirements JRF or equivalent fellowships may also apply”.

***Ratified***

- c. To consider the revision of TA, DA, Sitting fees and remuneration rates for the External Experts of Senate, Board of Studies Meeting, Sitting Fee, Academic Audit, Project Work Viva Voce examinations for UG / PG/Ph.D.

***Considering the hike in pay as per the 6<sup>th</sup> pay commission, the Senate recommends the hike in remuneration rates for the External Experts of Senate, Board of Studies, Academic Audit, Project Work Viva Voce examinations for UG / PG/Ph.D as per the following tables.***



**UNDER GRADUATE COURSES ( B.Tech.)**

<i>Name of the Item</i>	<i>Current Rate/per student</i>	<i>Proposed Rate/Per student</i>
<i>Comprehensive Viva Voce and Project Viva Voce (Minimum of 10 students/examiner)</i>	<i>Rs. 100/-</i>	<i>Rs.150/-</i>

**UNDER GRADUATE COURSES (B.Arch.)**

<i>Name of the Item</i>	<i>Current Rate/per student</i>	<i>Proposed Rate/Per student</i>
<i>Review for Design / Studio Based Subjects (Mid and End Semester Evaluation) (minimum of 10 students / examiner)</i>	<i>Rs.100/-</i>	<i>Rs.150/-</i>
<i>Dissertation(minimum of 10 students / examiner)</i>	<i>Rs.100/-</i>	<i>Rs.150/-</i>

**POST GRADUATE COURSES (M.Tech.)**

<i>Name of the Item</i>	<i>Current Rate/per student</i>	<i>Proposed Rate/Per student</i>
<i>Project Viva Voce (Minimum of 5students/examiner)</i>	<i>Rs. 300/-</i>	<i>Rs.500/-</i>

**POST GRADUATE COURSES (M.Sc. / MBA / MCA)**

<i>Name of the Item</i>	<i>Current Rate/per student</i>	<i>Proposed Rate/Per student</i>
<i>Project Viva Voce (Minimum of 5students/examiner)</i>	<i>Rs. 300/-</i>	<i>Rs.500/-</i>

**RESEARCH PROGRAMMES [MS (by Research)]**

<i>Name of the Item</i>	<i>Current Rate/per student</i>	<i>Proposed Rate/Per student</i>
<i>General Test Committee meeting</i>	<i>Rs.1500/-</i>	<i>Rs.3000/-</i>
<i>Honorarium for Indian Examiner for Thesis Evaluation</i>	<i>Rs.2500/-</i>	<i>Rs.4000/-</i>
<i>Viva Voce Examination</i>	<i>Rs.1500/-</i>	<i>Rs.3000/-</i>



**RESEARCH PROGRAMMES [Ph.D]**

<i>Name of the Item</i>	<i>Current Rate/per student</i>	<i>Proposed Rate/Per student</i>
<i>Doctoral Committee meeting</i>	<i>Rs.1500/-</i>	<i>Rs.3000/-</i>
<i>Comprehensive Examination</i>	<i>Rs.1500/-</i>	<i>Rs.2000/-*</i>
<i>Synopsis meeting</i>	<i>Rs.1500/-</i>	<i>Rs.3000/-</i>
<i>Honorarium for Indian Examiner for Thesis Evaluation</i>	<i>Rs.3500/-</i>	<i>Rs.5000/-</i>
<i>Honorarium for Foreign Examiner for Thesis Evaluation</i>	<i>US\$200</i>	<i>US\$400</i>
<i>Viva Voce Examination</i>	<i>Rs.1500/-</i>	<i>Rs.5000/-</i>

\* Minimum shall be Rs. 3000 for an examiner

**ACADEMIC AUDIT (UG/PG)**

<i>Name of the Item</i>	<i>Current Rate</i>	<i>Proposed Rate</i>
<i>UG courses / per semester</i>	<i>Rs.3000/-</i>	<i>Rs.5000/-</i>
<i>PG courses / per semester</i>	<i>Rs.3000/-</i>	<i>Rs.5000/-</i>

**SENATE, BOARD OF STUDIES MEETING**

<i>Name of the Item</i>	<i>Current Rate</i>	<i>Proposed Rate</i>
<i>Senate (for External members)</i>	<i>Rs.2000/-</i>	<i>Rs.5000/-</i>
<i>Board of Studies Meeting</i>	<i>Rs.2000/-</i>	<i>Rs.5000/-</i>



### TRAVELLING ALLOWANCE

<i>Name of the Item</i>	<i>Traveling Allowance</i>	
	<i>Current Rate</i>	<i>Revised Rate/</i>
<i>Examiners from Institution within the radius of 30 km (to and fro)</i>	<i>Rs.500/-</i>	<i>Rs.800/-</i>
<i>Examiners from Institution within the radius of 30-60 km (to and fro)</i>	<i>Rs.800/-</i>	<i>Rs.1000/-</i>
<i>Examiners from Institution above 60 km</i>	<i>II A/C Train Fare from the nearest Railway Station to Tiruchirappalli Junction.</i>	
<i>For Ph.D. Viva Voce examiners</i>	<i>Air Fare / 1<sup>st</sup> AC on production of Air Ticket</i>	

*Accommodation & food bills may be reimbursed as per the eligibility criteria of the respective expert member, if the institute guest house accommodation is not available.*

**INCIDENTAL CHARGES:** *Head Quarters to Air port / Railway Station - Rs. 500/- (Flat rate for one way)*

***The Senate requests the Finance Committee and the Board of Governors to approve the above revisions.***

- d. To consider the revision of tuition fee for B.Tech./M.Tech./M.Sc./MBA/MCA in line with the recommendations of 7<sup>th</sup> Meeting of the Council of NITs held 18-10-2013 at New Delhi. The extracts are presented below:
- Tuition fee for B.Tech., M.Tech. and MCA programme may be revised to Rs.70,000/- per year per student.
  - Tuition fee for two M.Sc. programme may be revised to Rs. 15,000/- per year per student
  - Tuition fee for Ph.D programme may be revised to Rs.15,000/- per year per student.
  - Tuition fee for MBA and 5 year M.Sc. programme may be decided by the concerned NIT. Accordingly, it is proposed to revise the tuition fee for MBA programme at NIT, Trichy as Rs. 1,00,000/- per year per student as per the logic applied in deciding the tuition fee for other programmes.

***Approved***



- e. Introducing new M.Tech. Programme for ICE department – Presentation by the HOD/ICE

*In Departments which do not offer any PG programme, the Senate felt the need of starting at least one. The Senate therefore recommends in principle, the starting of new M.Tech. (Instrumentation and Control Engineering) , in the department of Instrumentation and Control Engineering (ICE). The proposal for starting, a new M.Tech. Course will be referred to the standing committee headed by the then Visitor's nominee and appointed by BoG for new courses , for subsequent approval by Board of Governors.*

*Department of ICE currently offers jointly the M.Tech. programme on Process Control and Instrumentation(PCI), along with the Department of Chemical Engineering and do not have any PG programme offered exclusively.*

*During the above discussion, one Hon'ble member stated that the placements of PG students is abysmally bad and new PG programmes may be started with due analysis. The Chairman therefore proposed the transfer of administrative control of M.Tech., PCI, hitherto jointly offered by Department of Chemical Engineering and Department of Instrumentation and Control Engineering(ICE), exclusively to the Department of ICE for the period 2014-16. The Senate approves this transfer.*

- f. Renaming CEESAT as Department of Energy and Environment (DEE) as per the minutes of 31<sup>st</sup> BOG held on 10<sup>th</sup> August 2012. Henceforth all academic documents of M.Tech. (Energy Engineering)/M.S./Ph.D. shall be issued in the name of Department of Energy and Environment.

*Noted*

- g. Student President's representation to conduct super supplementary examination for the students of VIII Semester, B.Tech. having F grades in courses up to VII Semester B.Tech.

*The Senate has approved to conduct special supplementary examination for the current VIII semester B.Tech. and X semester B.Arch. students who have a maximum of three F grades in courses up to VII Semester/IX Semester respectively. The examinations conducted for the courses identified based on the above criteria shall be open to any other student who has an F grade in these courses.*



- h. Revised curriculum for B.Tech. Mechanical Engineering – Presentation by the HOD of Mechanical Engineering.

*A hon'ble member of the senate and the Professor of Mechanical Engineering, with endorsement of HoD of Mechanical Engineering, has presented a new concept for B.Tech. Mechanical Engineering curriculum. The Senate felt the need for further discussion on this concept as it is essential to involve larger issues into account viz. the components of science, humanities and core engineering in the B.Tech. curriculum. The HoD, Mechanical Engineering is advised to follow the guidelines already approved by the senate in this regard.*

- i. Representation from Ms. Prashanthi Ravi (Roll No: 111110063), a final year Mechanical Engineering student to change the grade awarded in the redo course MA 102 Mathematics-II, appeared during the summer of 2011 as per the regulations of 2011.

*Ms. Prashanthi Ravi (Roll No: 111110063) had enrolled for redo in MA 102 Mathematics-II, during the summer of 2011. She has completed the course, securing 93 marks out of 100 and has been awarded D grade as per the 2009 B.Tech. regulations. Prashanthi Ravi has got a good academic track, securing an overall CGPA of 9.2 up to VII Semester. She had poor attendance causing this redo and it was due to physical indisposition caused by Typhoid. Considering her good academic records and her genuine cause of absence leading to a redo, the Senate has approved to award the grade due to her as per the revised regulations of 2011. Hence her grade in MA 102 Mathematics –II is upgraded to 'S' grade.*

**Prof.G.Swaminathan**  
**Officiating Registrar &**  
**Secretary Senate**

**Prof.S.Sundarrajan**  
**Director & Chairman Senate**