

Minutes of 34th Senate Meeting (Incorporating the revisions as approved in the 35the Senate) of the National Institute of Technology, Tiruchirappalli held on 12th May 2016 at 2.00 pm in A-12 Hall, NITT.

The following members were present in the meeting:

1. Dr. Sundarrarajan S	Chairman-Senate
2. Dr. Malathy Duraisamy	External Member
3. DrAmmasai Gounden. N	Member
4. DrN.Anantharaman	Member
5. DrT.K.Radhakrishnan	Member
6. Dr. N.P.Gopalan	Member
7. Dr.J.Sarat Chandra Babu	Member
8. Dr.P.Sivashanmugam	Member
9. Dr.L.Cindrella	Member
10. Dr.P.A. Krishnan	Member
11. Dr.S.Moses Santhakumar	Member
12. Dr.G.Swaminathan	Member
13. Dr.B.Ramadoss	Member
14. Dr.S.Selvakumar	Member
15. Dr.K.Viswanathan Iyer	Member
16. Dr.B.Venkataramani	Member
17. Dr.S.Arul Daniel	Member
18. Dr.C.Nagamani	Member
19. Dr.K.Sundareswaran	Member
20. Dr.V.J.Sivakumar	Member
21. Dr.D.Deivamoney Selvam	Member
22. Dr.T.N.Janakiraman	Member
23. Dr.K.Murugesan	Member
24. Dr. P.Kumaresh Babu	Member
25. Dr.D. Sastikumar	Member
26. Dr.N.Gopalakrishnan	Member
27. Dr.P.Asokan	Member
28. Dr. A.Noorul Haq	Member
29. Shri A.Palanivel	Secretary-Senate
30. Dr. M.Duraiselvam	Special Invitee
31. Dr Meeatchi Sundaram	Special Invitee Special Invitee
32. Prof R Jayasankar	Special Invitee
33. Dr A Vadivel 34. Dr D. Sriram Kumar	Special Invitee
35. Dr M. Premalatha	Special Invitee
36. Prof R. Gururaj	Special Invitee
37. Dr N. Sivakumaran	Special Invitee
38. Dr T. Sudhakar	Special Invitee

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39. Dr S.P. Kumaresh Babu	Special Invitee
40. Dr V.J. Sivakumar	Special Invitee
41. Dr M. Duraiselvam	Special Invitee
42. Dr. R.Jeyapaul	Special Invitee
43. Dr S. T. Ramesh	Special Invitee
44. Dr. P.Raja	Special Invitee
45. Dr. R Karvembu	Special Invitee
46. Dr.N. Kumaresan	Special Invitee

The following members expressed their inability to attend the meeting:

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1.	Dr. V. Jagadeesh Kumar	External Member
2.	Dr. Ashoka G. Samuelson	External Member
3.	Dr P. Jayabalan	Member
4.	Dr. S.Kumanan	Member
5.	Dr. V.Muthupandi	Member
6.	Dr.R.Narayanasamy	Member
7.	Dr R. Nallasamy	Member
8.	Dr C. Natarajan	Member
9.	Dr S. Natarajan	Member
	Dr M. Punniamoorthy	Member
	Dr R. Ponalagusamy	Member
	Prof. V.Ramprasad	Member
	Dr Raman Sankarararayanan	Member
	Dr K. Sanakaranarayanasamy	Member
	Dr S. Shanmugam	Member
	Dr J Sarangan	Member
	Dr T. Selvaraj	Member
	Dr M. Umapathy	Member
	Dr M. Udayakumar	Member
	Dr G. Venkatesa Prabhu	Member
	Dr R. Leela Velusamy	Special Invitee
	Dr M. Venkata Kirthiga	Special Invitee
	Dr. A.K.Bakthavatsalam	Member
23.	DI. A.IX. Dukulu vatbalam	

The Chairman welcomed the Members and Special Invitees to the Senate. Shri A. Palanivel Secretary Senate presented agenda items one by one.

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ITEM NO.1 To confirm the Minutes of the 32nd and 33rd Senate Meetings held on 20.11.2015 and 13.4.2016.

Minutes of the 32^{nd} and 33^{rd} Senate meeting are confirmed with the following modifications.

The former officiating Registrar cum Secretary-Senate has requested to remove a line appreciating the then officiating Registrar in the minutes of 32^{nd} Senate meeting. Chairman-Senate agreed to change the minutes as per the request and directed to include the same in the minutes of 34^{th} Senate meeting. Hence, the good services of Prof. G. Swaminathan as Officiating Registrar and Secretary of the Senate of NITT is appreciated by the senate and is recorded in the 34^{th} senate meeting.

Prof. Raman Sankaranarayanan had informed the Director about his inability to attend the 31st Senate Meeting. Hence it is deemed to have been recorded in the minutes of 31st Senate meeting that Prof. Raman Sankaranarayanan had expressed his inability to attend the 31st Senate Meeting.

The Minutes of the 32nd and 33rd Senate Meetings held on 20.11.2015 and 13.04.2016 are approved with above observations.

RESOLUTION 34/SENATE/2016/1 RESOLVED THAT the Minutes of the 32nd and 33rd Senate Meetings held on 20.11..2015 and 13.04.2016 at A12 Hall in NIT Tiruchirappalli be confirmed.

ITEM NO.2 Presentation of the Minutes of the Boards of Studies of the respective departments by the HoDs Concerned for the flexible Curriculum, new M.Tech Programme in Data Analytics by MCA department from the Academic Year 2016-17.

The B.Tech. flexible curriculum as approved by the respective BoS of the Departments of Civil Engineering, Chemical Engineering, Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Instrumentation and Control Engineering, Mechanical Engineering, Metallurgical and Materials Engineering, Production Engineering along with the Minor courses offered for B.Tech. students of other Departments is approved by the Senate. The new curriculum will be in force from the batch of 2015-16 onwards.

The curriculum structure of B.Arch. programme is approved.

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The Minor courses offered by the Departments of Humanities and Social Science, Mathematics, Computer Application, Energy and Environment, Physics, Chemistry, DoMS is approved. The curriculum of the new M.Tech. programme in Data Analytics is approved and the same will be offered from 2017-18.

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Few changes suggested in the respective curriculum may be incorporated by the HoD concerned and the updated curriculum is to be sent to the Academic office on or before 26th May 2016

RESOLUTION 34/SENATE/2016/2

RESOLVED THAT the B.Tech flexible Curriculum, B.Arch Curriculum Structure and the minor courses offered by the HSS, Mathematics, Computer Applications, Energy & Environment, Physics, Chemistry and DOMS and the Curriculum on M.Tech Programme in Data Analytics be approved.

RESOLVED FURTHER THAT the new B.Tech Curriculum be effected from the batch of 2015-16 onwards.

RESOLVED FURTHER THAT Curriculum of M.Tech Programme in Data Analytics be effected from 2017-18.

RESOLVED FURTHER THAT the changes suggested in the respective curriculum be incorporated by the HoD concerned and updated curriculum be sent to the Academic Office on or before 26th May 2016

ITEM NO.3 To ratify the award of Provisional degree to M.S/Ph.D. Candidates who have successfully completed the requirements of the degree

The senate ratifies the award of provisional degrees to the list of M.S. and Ph.D. candidates as presented in Annexure II of the Agenda and notes.

RESOLUTION 34/SENATE/2016/3 RESOLVED THAT the decision of award of Provisional Degree to M.S/ Ph.D Candidates as per Annexure II of Agenda be ratified.

ITEM NO.4 To ratify the results of UG & PG courses in the odd semester 2015-16 as approved by the respective PAC

The published results of odd semester of UG and PG courses in the examination held in 2015-16 as approved by the respective PAC are ratified. The results of the first semester B.Tech. programme under flexible curriculum, as presented by Dr. P. Raja is also approved.

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RESOLUTION
34/SENATE/2016/4

RESOLVED THAT the decision of declaration of the results of UG and PG Courses in the Odd Semester 2015-16 be approved.

ITEM NO.5 Feedback of flexible curriculum for the first year B.Tech. programme

Flexible curriculum is offered from the first year B.Tech. programme of the current academic year 2015-16. All the courses were offered as per the course plan. Dr. P. Raja presented the variety of the assessments and content delivery models of the various courses offered under the new regulations.

RESOLUTION 34/SENATE/2016/5

RESOLVED THAT the methodologies followed for implementing flexible curriculum for first year students be adopted for higher Semesters.

Senate sub-committee recommendations on results declaration and reassessment regulations under the flexible curriculum and regulations concerning honours course.

Minutes of the meeting of the Senate sub-committee on academic reforms is ratified. However, students are permitted to undergo five honours' courses, out of which best three subjects shall be considered for awarding honours degree subject to satisfying the requirements for award of honours degree.

RESOLUTION 34/SENATE/2016/6

RESOLVED THAT the Minutes of the Meeting of the Senate Sub-Committee on academic reforms be ratified.

RESOLVED FURTHER THAT the Students be permitted to undergo five honours' Courses, of which best three subjects be considered for awarding honours degree subject to satisfying the requirements for award of honours degree.

ITEM NO.7 Senate sub-committee recommendations on restructuring of PG programmes

The Minutes of the meeting of the Senate sub-committee for studying PG programmes is as enclosed in Annexure-IV in the Agenda and Notes of the 34th senate meeting is approved. In addition, a high-level committee will look into M.Tech. (NDT) programme. The Inputs of the stakeholders particularly industries need to be obtained, industry linkage need to be assured,

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Reservations expressed by Prof. A. K. Bakthavatsalam need to be considered for the new programmes in future.

RESOLUTION 34/SENATE/2016/7

RESOLVED THAT the minutes of the meeting of the Senate Sub-Committee for studying the PG Programmes be approved.

RESOLVED FURTHER THAT a High-Level Committee be look in to M.Tech (NDT) Programme, inputs of the stakeholders particularly industries be obtained, industry linkage be ensured for new programmes in future.

ITEM NO.8 Committee report on the issuance of stipend for M.Tech. students

The committee report on the issuance of stipend for M.Tech. students as enclosed in Annexure - V in the agenda book was considered and decided to continue the existing process

RESOLUTION
34/SENATE/2016/8

RESOLVED THAT the existing process for issuance of stipend for M.Tech students be continued.

ITEM NO.9 To approve the directed study courses for Ph.D. course works

The following courses are recommended by the Doctoral Committee of the Research Scholars of various departments for the approval of the Senate.

S.No.	Department	Course
1.	Civil Engineering	Hyperspectral Image Processing
	2 20	2. Application of wavelet transform for satellite
	63 19	image processing
	× ×	3. Simulation modeling in water resources
		 Highway design and safety
		Advanced spatial analysis techniques
	A 10 A 1041	Flood modeling and drought assessment
2.	Computer Science &	Cache coherence for multi core architectures
	Engineering	2. GPU architecture and programming
		3. Artificial intelligence
3.	Electrical and Electronics	1. Solar PV systems
	Engineering	2. Design of embedded controllers for smart
	F 10	micro-grid

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4.	Electronics and	1. Microwave interaction with biologica
	Communications Engineering	tissues
		2. Dynamic spectrum access using cognitive
		radio mobile ad-hoc networks
		3. Substrate integrated waveguide technology
		design and analysis
	a vi	4. Functional verification using hardwar
	Set 2	verification languages
	11 2 12 12 12 12 12 12 12 12 12 12 12 12	Pattern recognition and machine intelligence
5.	Mechanical Engineering	Advances in engineering materials (for structura
		applications)
6.	Physics	 Cloud computing for big data
		2. Embedded networking
-		3. Embedded systems design
	*	4. Basic course on thermoelectric materials
7.	Instrumentation and Control	 Analysis and design of smart materials an
0	Engineering	structures
		2. Introduction to biomaterials
		3. Basics of theoretical computer science for
		control applications
	To the second se	4. Industrial automation and control
		5. Utility boilers for subcritical an
		supercritical plants
		6. Advanced control systems
8.	Architecture	1. Urban Microclimate
		2. Theory and principles of thermal comfort
9.	Chemical Engineering	1. Design and Analysis of Liquid A
		Membrane Energy Exchanger
	Computer Applications	Data Analytics Narratives of visual culture and India
11.	EARL COMPANY CONTRACTOR AND CONTRACTOR CONTR	
	Sciences	humour
		2. Representation of humour in Indian comics
	2 2	3. Cognitive visual culture – special emphas
		on comics

Approved

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RESOLUTION 34/SENATE/2016/9

RESOLVED THAT the courses recommended by the Doctoral Committee of the Research Scholars of various departments be approved

ITEM NO.10 Request of faculty for Senate's Consideration

a. To ratify the request of Dr. S. Natarajan, Chairman/CECASE to consider the educational qualifications for admission to Ph.D programme in CECASE.

Ratified

b. To consider the request of Dr. N. Gopalakrishnan, HOD/Physics to rename the Practical –I (PH607) and Practical-II (PH608) offered for M.Tech. (NDT) as Conventional NDE Laboratory and Advanced NDE Laboratory respectively.

Approved.

c. To consider the request of Dr. N. Sivakumaran, HOD/ICE to ratify the course plans of the following subjects offered in 2015-16 as available in courseplan.nitt.edu.

1.	CE285	Thermodynamics and Fluid mechanics Laboratory
2.	IC205	Digital Electronics
3.	IC203	Circuit Theory
4.	IC207	Devices and Circuits Laboratory
5.	CE283	Thermodynamics and fluid mechanics
6.	MA102	Mathematics- III
7.	MT211	Analytical instrumentation
8.	IC403	Engineering Mechanics
9.	IC102	Analog Electronic Circuits
10.	IC206	Microprocessors and Microcontrollers Laboratory
11.	IC498	Project work

The course plans of the above courses are ratified.

RESOLUTION RESOLVED THAT the requests of Faculty 10(a) to (c) be 34/SENATE/2016/10 approved and ratified

ITEM NO.11. Students' Representations for Senate's Consideration.

a. To ratify the approval of Chairman Senate on the request of Mr. Manoj Kumar Das (213114022) – M.Tech. NDT student to relax the M.Tech. Regulations for the extension of project report submission on or before 05th February 2016. This has the recommendation of HOD/Physics.

Ratified

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b. To ratify the approval of Chairman Senate to extend the period of study for Mr. Atul Jee Rai (111107086) beyond the maximum duration of study.

Ratified

RESOLUTION

RESOLVED THAT the students representations 11 (a) to (b) be

34/SENATE/2016/11 ratified.

ITEM NO.12. Any other items with the permission of the Chairperson.

a. A MoU was executed with Indian Navy in 2014 for offering admission to the sponsored officers of the directorate of Naval Education in M.Tech. programmes offered under various departments of the institute. The Directorate of naval education has requested for two seats, one in each of M.Tech. Computer Science and Engineering and M.Tech. Communication Systems for the academic year 2016-17. Admission to the sponsored officers of Indian Navy shall be carried out as per clause 6(c) in the MoU between NITT and Indian Navy.

The senate approves the seats allotted to Indian Navy, Ministry of Defence, Government of India.

b. The revised B. Arch. Regulations is enclosed in Annexure – XIII of the agenda book for the approval of the Senate

Approved

c. To ratify the approval of Chairman Senate on the request of Mrs. Jeeva Stella, Assistant Engineer, ECE department to pursue her M.S. (By Research) programme by relaxing the eligibility condition of 60% in the qualifying degree as a special case. She has a B.E. Degree with 58.1%.

Ratified

d. A MoU was signed between NITT and Institute for Development and Research in Banking Technology on 29th April 2016 to collaborate in research for M.Tech. and Ph.D programmes.

Noted and approved

e. Council of Architecture has decided to regularize all the B.Arch. students admitted through DASA scheme to grant the enrolment number for registration as an architect under the Architects Act, 1972 as a onetime measure. In future, all students shall be admitted only through NATA/an aptitude test in architecture conducted by the competent authority.

Noted

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f. A MoU was signed between NITT and NITK Suratkal on 5th April 2016 to carry out collaborative research works and sharing of facilities.

Noted

- g. The Chairman of the senate read the e-mail request sent by the student council.
- (i) It is resolved that the attendance for the students who undergo training during the summer vacation as part of the curriculum requirement shall be counted from the date of joining the programme in the subsequent odd semester (i.e. the beginning of the next academic year).
- (ii) The maximum number of theory courses and laboratory courses that can be registered for Formative Assessment during the summer vacation of the academic year 2015-16 for the 2012-2016 batch and earlier shall be 10 and 4 respectively.
- (iii) The percentage for OD in attendance computation for all the courses offered to final year B.Tech. programmes (2013-17 and 2014-18) to be given to final year B.Tech. students shall be decided by the following committee: Dean(SW) Convener, Dr. M. Venkata Kirthiga, AP/EEE, Dr. U. Srinivasulu Reddy, AP/CA as members.
- h. Resolution to thank the Chairman-Senate Dr. S. Sundarrajan, who is demitting office in June 2016, for his excellent leadership in facilitating important academic decisions during his tenure.

The Senate sincerely expressed its deep appreciation for the successful tenure of Dr.S.Sundarrajan as Chairman of the Senate during 2011-16. His immense contribution to changing the academic environment of the Institute was acknowledged.

RESOLUTION RESOLVED THAT the any other items 12 (a) to (h) be noted/ 34/SENATE/2016/12 approved/ ratified as per above.

The Meeting ended a vote of thanks to the Chair

Secretary-Senate

Chairperson -Senate

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