



INDIAN INSTITUTE OF INFORMATION TECHNOLOGY,
DESIGN AND MANUFACTURING, KANCHEEPURAM

40th MEETING OF THE SENATE

Date : 03rd July 2019 (Wednesday)
Time : 11.00 A.M.
Venue : Senate Hall, IIITDM Kancheepuram.

MINUTES

2019-40-Senate-01:	Welcome to the members and invitees by the Chairman.		
2019-40-Senate-02:	To confirm the minutes of the 39th meeting of the Senate held on 19th January 2019		
	The Minutes of 39 th Meeting of the Senate held on 19th January 2019 was circulated to all members on 4 th March 2019. No comments/suggestions were received from the members and the final minutes have been approved by the Chairman. Senate may kindly confirm the Minutes of the 39 th meeting of the Senate held on 19th January 2019.		
	The Senate has confirmed the minutes of the 39 th meeting which is given in Annexure A1.		
2019-40-Senate-03:	Report on Action Taken on the decision of 39th meeting of the Senate held on 19th January 2019.		
	2019-39-Senate-04:	Elective Courses for Approved last senate	Courses will be offered w.e.f July-2019 session.
	2019-39-Senate-05:	Memorandum of Understanding for Academic and Research Collaboration between IIITDM Kancheepuram and IIT Madras	Circular was issued to students and 7 Students have applied for Direct Ph D at IIT Madras.
	2019-39-Senate-06:	To request IIT Madras to include Dual Degree students also in the PhD admission process after their 8 th semester in the MoU	Separate MoU has been prepared and will be taken up with IIT Madras shortly.
	2019-39-Senate-07:	To approve the extension of registration and exemption from fee payment for the Ph D Scholars who submit thesis within a month after semester reopens	Implemented
	2019-39-Senate-08:	To introduce more categories of Admission for the PhD Programme in the Institute	Incorporated in the Ordinance and also included in the July admission notification.
	2019-39-Senate-9:	To provide 3 options for the students for Summer internship and final year project to be done in Industry/Research Labs.	Will be implemented w.e.f 2019-2020
	2019-39-Senate-10:	Request for in-principle approval for the major revision in Curriculum	Process has been initiated
	2019-39-Senate-11:	To consider and approve the introduction of Institute Post-Doctoral Fellowship Scheme at IIITDM Kancheepuram	IPDF has been implemented
	2019-39-Senate-12:	To approve selection of a PDF in the Institute	The PDF has joined the Institute.

2019-39-Senate-13:	To approve considering Honours course as Free Elective for student who opted out of Honours	Implemented
2019-39-Senate-15:	To approve the guidelines for issue of Duplicate Degree Certificates	Implemented
2019-39-Senate-16:	To ratify the decision of Disciplinary Committee on act of indiscipline and misconduct by student in the Institute on Student disciplinary cases:	OM is issued to the students
2019-39-Senate-17:	Approved Elective Courses	Implemented
2019-39-Senate-18:	Initiating Master of Design Programme in-line with that of IIITDM Jabalpur.	Initiatives are there to offer from 2020-2021 academic session
2019-39-Senate-19:	To discuss regarding need of any punishment for students who do proxy in attendance.	Punishment may be imposed once the students who do proxy are identified.
2019-39-Senate-20:	Rescheduling of Quiz 1 due to Inter-IIIT Sports Meet at IIIT Allahabad	Quiz 1 was held from 25 th to 27 th February in place of 13 th to 15 th February.

Elective Courses for Approval

Course on **Radio Spectrum and Industry 4.0** is proposed by Dr Ashok Chandra to be offered for the PG students. Syllabus is given in **Annexure A2**.

Name of the course	Faculty Proposed	Dept.
Radio Spectrum and Industry 4.0	Dr Ashok Chandra	ECE

Three final year students could not write the NPTEL final exam for the courses listed below due to medical and personal reasons. In order to make them eligible to receive the degree in the 7th convocation to be held on 13th July, with the approval of the Chairman, Senate, it was decided to conduct in-house end semester exams for these students in these courses. Similarly three students have failed in the NPTEL final exams for the courses listed below and for them also, in-house end semester exams were conducted. Detailed syllabi same as in the NPTEL are given in **Annexure A2**.

2019-40-Senate-04:

Sl. No	Course Code by NPTEL	Course Code by Institute	Name of the course	Student
1.	noc19-mg05	MAN503	Financial Institutions and Markets	Mansingh Meena MDM15B008
2.	noc19-cs27	COM528	Cloud computing	Ranjith Raj K S CED14I030
3.	noc19-mg22	MAN504	Operations and supply chain management	Shubham Kumar Rajak MFD14I009
4.	noc19-mg17	MAN505	Six Sigma	Shubham Kumar Rajak MFD14I009
5.	noc19-cs11	COM527 (Existing)	Design and Analysis of Algorithms	Naveen Rajan MFD14I006
6.	noc19-mg26	MAN506	Business analytics and data mining Modeling using R	Ritu Kumari COE15B032
7.	noc19-mg01	MAN507	Foundation Course in Managerial Economics	Sandeep Kagana EDM15B029

The Senate is requested to ratify the decision and approve these as elective courses of

the Institute.

- The Senate has granted approval for the Course on **Radio Spectrum and Industry 4.0**.
- The Senate also urged that Elective courses that are put up for Senate approval should be proposed by Institute faculty members, even though the course may be offered by an adjunct/Guest/Visiting faculty.
- Senate has also advised to explore the options to offer courses on foreign languages as Free Electives by adjunct/Guest/Visiting faculty members.
- Senate has given approval for the NPTEL courses given in Table above from Sl.-No. 1 to 7 as Institute electives.
- However, the Senate has urged that this approval should not result in an easy way out to clear the pending courses and advised to follow the rule below.
- Any student in the final semester who is short of two courses to get the degree could be permitted to register for the courses as Contact courses for a minimum duration of SIX weeks to enable him/her to clear the course and graduate the same year.
- Henceforth, this rule shall be applicable from 2015 Dual Degree and 2016 B Tech graduating batches.
- Senate has also suggested to advise the students to complete all NPTEL courses by the 7th / 9th semester and not to credit in the final semester.

The syllabi for all the elective courses are given in **Annexure A2**.

Details of PhD Scholars who have defended their theses and eligible for award of the Degree are furnished below for kind perusal of the Senate.

Name of the Scholar	Ms. Manimegalai. K
Roll No	PHY12D001
Department	Physics
Thesis Title	Dynamics of the anharmonic oscillators
Date of Joining	22-08-2012
Date of Passing of Comprehensive Examination	07-06-2018
Date of Submission of Thesis	04-12-2018
Indian Examiner	Prof J N De, Saha Institute of Nuclear Physics
Date of receipt of report	14-01-2019
Foreign Examiner	Dr. Shalom Shlomo, Cyclotron Institute, USA
Date of receipt of report	22-02-2019
Date of Ph D viva-voce examination	25-03-2019
Date of submission of final thesis	27-03-2019
Doctoral Committee	
Chairman	Prof. S. Narayanan
Research Supervisor	Dr. Tapas Sil
Internal Member	Dr. P. Damodharan
Internal Member	Dr. S. Vijayakumar
External Member	Prof. Sibasish Ghosh

LIST OF PAPERS BASED ON THESIS

Publications in Refereed Journals

1. K. Manimegalai, Sagar Zephania C. F., P. K. Bera, P. Bera, S. K. Das, and Tapas Sil, " Study of strongly nonlinear oscillators using the Aboodh transform and the homotopy perturbation method", Euro. Phys. J. Plus. (SCI indexed, Impact Fact 2.240, accepted and under printing process)

**2019-40-
Senate-05:**

Publications in International Conferences

2. K. Manimegalai, Tapas Sil, P. K. Bera, Free Vibrations of Tapered Beam: An Improved Approximate Solution, Proceedings of the second international Conference on Frontiers in Engineering, Applied Sciences and Technology (FEAST) 2018, April 27-28, 63-66.

Name of the Scholar	Mr. Shanmugakumar. M
Roll No	COE13D004
Department	Computer Science and Engineering
Thesis Title	On the Development of Novel High-Performance Packet Classification Architectures
Date of Joining	29-07-2013
Date of Passing of Comprehensive Examination	30-10-2014
Date of Submission of Thesis	17-07-2018
Indian Examiner	Prof Indranil Sen Gupta, IIT Kharagpur
Date of receipt of report	19-02-2019
Foreign Examiner	Prof Ning Weng, Carbondale, USA
Date of receipt of report	11-05-2018
Date of Ph D viva-voce examination	29-03-2019
Date of submission of final thesis	29-03-2019
Doctoral Committee	
Chairman	Prof. S. Narayanan
Research Supervisor	Dr. Noor Mahammad Sk
Internal Member	Dr. Selvaraj M D
Internal Member	Dr. Sadagoapon N
External Member	Prof. Sridharan K

LIST OF PAPERS BASED ON THESIS

1. Shanmugakumar Murugesan and Noor Mahammad Sk, A Novel Range Matching Architecture for Packet Classification Without Rule Expansion, ACM Transactions on Design Automation of Electronic Systems (TODAES), vol. 23, no. 1 (8), 2017.

Name of the Scholar	Mr. Sathish Kumar R
Roll No	MDM15D001
Department	Mechanical Engineering
Thesis Title	Micromechanical Modelling of Magnetostrictive Materials using Polygonal Finite Elements
Date of Joining	01-01-2015
Date of Passing of Comprehensive Examination	13-06-2016
Date of Submission of Thesis	04-03-2019
Indian Examiner	Dr Anup S, Indian Institute of Space Science and Technology, Kerala
Date of receipt of report	01-04-2019
Foreign Examiner	Dr. Felix Stanley, ASCEND R&T Tech Lead (Ultra Fan), Derbyshire, UK
Date of receipt of report	28-03-2019
Date of Ph D viva-voce examination	28-05-2019
Date of submission of final thesis	04-06-2019
Doctoral Committee	
Chairman	Prof. S. Narayanan
Research Supervisor	Dr. Jayabal K
Internal Member	Dr. M. Sreekumar
Internal Member	Dr. S. Jayavel
External Member	Prof. A. Arockiarajan

LIST OF PAPERS BASED ON THESIS**Publications in Refereed Journals**

1. R. Sathish Kumar and K. Jayabal (2019). A micromechanically motivated constitutive model

- for magnetostrictive materials with rate effects. IEEE Transactions on Magnetics, 55 (2), 1-13.
- Sathish Kumar R and **Jayabal K**, Micromechanically motivated constitutive model embedded in two-dimensional polygonal finite element framework for Magnetostrictive actuators, Journal of Applied Physics, 125(19), 4101-13,2019

Conferences Proceedings and presentations

- G. V. Balakrishna, R. Sathish Kumar and K. Jayabal, Micromechanically motivated uniaxial model for PZT, IConDM 2016, IITDM Kancheepuram, December 2016.

Name of the Scholar	Mr. Chandu DS
Roll No	EDM14D002
Department	Electronics and Communication Engineering
Thesis Title	Investigations and Implementations of Novel Methods in the Design of Circularly Polarized Printed Antennas
Date of Joining	28-07-2014
Date of Passing of Comprehensive Examination	27-10-2015
Date of Submission of Thesis	27-06-2018
Indian Examiner	Prof. Girish Kumar, IIT Bombay
Date of receipt of report	17-08-2018
Foreign Examiner	Dr. Sathish Kumar Sharma, Director, Antenna and Microwave Lab, San Diego State University
Date of receipt of report	28-04-2019
Date of Ph D viva-voce examination	07-06-2019
Date of submission of final thesis	11-06-2019
Doctoral Committee	
Chairman	Prof. S. Narayanan
Research Supervisor	Dr. S.S. Karthikeyan.
Internal Member	Dr. Premkumar K
Internal Member	Dr. Priyanka Kokil
External Member	Dr. Venkatesh Ramaiyan

LIST OF PAPERS BASED ON THESIS

Journal Papers:

- Chandu DS and S. S. Karthikeyan, “A Miniaturized Broadband High Impedance Surface with Flexible Circular Polarization Sense”, IEEE Transactions on Antennas and Propagation, vol.67, no.04, pp.2819-2824, 2019.
- Chandu DS and S. S. Karthikeyan, “Quad-Band Linear to Circular Reflective Polarization Transformer and its Application in Dual-Sense Circularly Polarized Antenna Design”, IET Transactions on Microwave, Antennas and Propagation, vol.13, no.06, pp.819-826,2019.
- Chandu DS and S. S. Karthikeyan, “Broadband Circularly Polarized Printed Monopole Antenna With Protruded L-Shaped and Inverted L-Shaped Strips”, Wiley Publications: Microwave and Optical Technology Letters, vol. 60, no.01, pp.242-248, 2018.
- Chandu DS and S. S. Karthikeyan, “A Novel Dual Circularly Polarized Microstriped Printed Monopole Antenna”, IEEE Transactions on Antennas and Propagation, vol. 65, no. 03, pp. 1410-1415, 2017.

Conference Papers

- Chandu DS, Tharani D and S.S. Karthikeyan, “A Novel Circular Quarter-Mode SIW Cavity Backed Diversity Antenna with Dual-Circular Polarization”, in Proc. of International Conference on Signal Processing and Communication SPCOM, IISc Bangalore, July 19-21, 2018.
- Chandu DS, Rusan Kumar Barik and S.S. Karthikeyan, “Triple-Band Circularly Polarized Antenna on a Two-Layered High Impedance Surface With Two In- Phase Reflection Bands”, in Proc. of 47th European Microwave Conference (EuMC), Nuremberg, Germany, Oct. 8-13, 2017.

Name of the Scholar	Mr. A Ananth
Roll No	EDM14D001
Department	Electronics and Communication Engineering
Thesis Title	Error Analysis of Space Shift Keying Systems
Date of Joining	28-07-2014
Date of Passing of Comprehensive Examination	16-02-2016
Date of Submission of Thesis	15-02-2019
Indian Examiner	Prof Prabhat Kumar Upadhyay, IIT Indore
Date of receipt of report	23-03-2019
Foreign Examiner	Prof Maode Ma, School of Electrical & Electronic Engineering, Nanyang Technological University
Date of receipt of report	16-03-2019
Date of Ph D viva-voce examination	21-06-2019
Date of submission of final thesis	24-06-2019
Doctoral Committee	
Chairman	Prof. S. Narayanan S
Research Supervisor	Dr. M. D. Selvaraj
Internal Member	Dr. Naveen Kumar
Internal Member	Dr. Priyanka Kokil
External Member	Dr. Krishna Jagannathan

LIST OF PAPERS BASED ON THESIS

Papers in Refereed Journals

1. A. Ananth and M. D. Selvaraj, "Error Analysis of SSK With Euclidean Distance Based Selection Combining," IEEE Transactions on Vehicular Technology, vol. 67, no. 4, pp. 3195 - 3204, Apr. 2018.
2. A. Ananth and M. D. Selvaraj, "Error Analysis of SSK in DF Cooperative Relaying With Selection Combining," IEEE Systems Journal, (In Early Access).

Presentations in Conferences

1. A. Ananth and M. D. Selvaraj, "Performance Analysis of SSK in Decode and Forward Cooperative Relaying using Min-Max Selection Combining," 2016 IEEE Annual India Conference (INDICON), Dec. 2016, IISc-Bangalore.

Name of the Scholar	Ms. Dhanalakshmi S
Roll No	MAT12D001
Department	Mathematics
Thesis Title	Subset Problems in Higher Chordality and 2K 2 -Free Graphs – Structural and Algorithmic View
Date of Joining	22-08-2012
Date of Passing of Comprehensive Examination	07-10-2014
Date of Submission of Thesis	April 2017, Revised in October 2018
Indian Examiner	Prof Mukkai S Krishnamoorthy, Associate Professor(Retired), Rensselaer Polytechnic Institute, Troy, NY, United States
Date of receipt of report	21-06-2019
Foreign Examiner	Prof. Maria Daniela Ferrero, Brightling Ln, USA
Date of receipt of report	28-06-2017
Date of Ph D viva-voce examination	04-07-2019
Date of submission of final thesis	04-07-2019
Doctoral Committee	
Chairman	Prof S Narayanan
Research Supervisor	Dr N Sadagopan

Internal Member	Dr V Masilamani
Internal Member	Dr B Sivaselvan
External Member	Prof R Rama

LIST OF PAPERS BASED ON THESIS

Papers in Refereed International Journals

1. S. Dhanalakshmi, N. Sadagopan and D. Sunil Kumar. Tri-connectivity augmentation in trees. Electronic Notes on Discrete Mathematics, Vol. 53, 57-72 (2016). Published by Elsevier.
2. S. Dhanalakshmi, N. Sadagopan and V. Manogna. On 2K2-free graphs. International Journal of Pure and Applied Mathematics (In Press). Academic Publications Ltd.

Presentation in International Conferences

1. S. Dhanalakshmi, N. Sadagopan and V. Manogna. On 2K2-free graphs- Structural and Combinatorial view. International Conference on Mathematical Computer Engineering (ICMCE 2015), Chennai, Dec 14-15, 2015.
2. S. Dhanalakshmi, N. Sadagopan and D. Sunil Kumar. Tri-connectivity augmentation in trees. International Conference on Graph Theory and its Applications(ICGTA 2015), Coimbatore, Dec 16-19, 2015.
3. S. Dhanalakshmi, N. Sadagopan and Nitin Vivek Bharti. r-connectivity augmentation in trees. 31st Annual Conference of the Ramanujan Mathematical Society, Tiruchirapalli, June 18-21, 2016.
- 4.

Name of the Scholar	Mr. Veeramani S
Roll No	COE13D001
Department	Computer Science and Engineering
Thesis Title	Novel High Speed IP Lookup Techniques
Date of Joining	01-01-2013
Date of Passing of Comprehensive Examination	30-10-2014
Date of Submission of Thesis	14-09-2018
Indian Examiner	Dr. Venkata Ramana Badarla, IIT Tirupati
Date of receipt of report	24-03-2019
Foreign Examiner	Prof Mukkai S Krishnamoorthy, Associate Professor(Retired), Rensselaer Polytechnic Institute, Troy, NY, United States
Date of receipt of report	19-06-2019
Date of Ph D viva-voce examination	04-07-2019
Date of submission of final thesis	04-07-2019
Doctoral Committee	
Chairman	Prof. S. Narayanan,
Research Supervisor	Dr. Noor Mahammad Sk
Internal Member	Dr. B. Sivaselvan
Internal Member	Dr. N. Sadagopan
External Member	Prof. N. S. Narayanaswamy

LIST OF PAPERS BASED ON THESIS

1. S.Veeramani and Noor Mahammad, "Efficient IP Lookup Using Hybrid Trie-Based Partitioning of TCAM-Based Open Flow Switches", Springer Photonic Network Communication, Vol. 28, no. 2, PP. 135-145, 2014.
2. S.Veeramani and Noor Mahammad, "A Heuristic Approach for the CCLP Problem in Software Defined Network (SDN)", Internetworking Indonesia Journal, Vol. 1, no. 1, PP. 3-8,2018.
3. S.Veeramani and Noor Mahammad, "Open Flow Controller Load Balancing Using Graph Teoretic Approach For Open Flow Network", Caribbean Journal of Science, Vol. 53 No. 2, pp. 823-833, 2019.
4. S.Veeramani and Noor Mahammad, "Minimization of flow table for TCAM based Open Flow switches by virtual compression approach", In Proceedings of IEEE International Conference on Advanced Networks and Telecommunication Systems (ANTS), 2013.
5. S.Veeramani and Noor Mahammad, " Hybrid Trie based partitioning of TCAM based Open Flow Switches", In Proceedings of IEEE International Conference on Advanced Networks and

Telecommunication Systems (ANTS), 2013.

6. S.Veeramani and Noor Mahammad, "Constructing Scalable Hierarchical Switched Open Flow Network Using Adaptive Replacement of Flow Table Management", In Proceedings of IEEE International Conference on Advanced Networks and Telecommunication Systems (ANTS), 2013.
7. S.Veeramani and Noor Mahammad, "Novel Approach To Secure Channel Using C-SCAN and Microcontroller in OpenFlow", In Proceedings of IEEE International Conference on Advanced Networks and Telecommunication Systems (ANTS), 2013.

Name of the Scholar	Mr. Srinivasan G
Roll No	MDM14D002
Department	Mechanical Engineering
Thesis Title	An Investigation of Heat and Mass Transfer Characteristics of Spin Freezing and Drying Process
Date of Joining	28-07-2014
Date of Passing of Comprehensive Examination	27-10-2015
Date of Submission of Thesis	23-04-2019
Indian Examiner	Dr. Raja Banerjee, Professor, Dept. Mechanical & Aerospace Eng, IIT Hyderabad
Date of receipt of report	19-06-2019
Foreign Examiner	Prof Wenxian Lin, School of Science and Engineering, Australia
Date of receipt of report	17-06-2019
Date of Ph D viva-voce examination	05-07-2019
Date of submission of final thesis	05-07-2019
Doctoral Committee	
Chairman	Prof. S. Narayanan
Research Supervisor	Dr. B. Raja
Internal Member	Dr. S. Jayavel
Internal Member	Dr. Naveen Kumar
External Member	Prof. Shaligram Tiwari

LIST OF PAPERS BASED ON THESIS

Publications in Refereed Journals

1. G. Srinivasan and B. Raja (2019).An experimental study of drying behaviour in ice patterns formed during spin freezing and its influence on the freeze-drying process. Heat and Mass Transfer, DOI: 10.1007/s00231-019-02596-z
2. G. Srinivasan M. Muneeshwaran and B. Raja (2018).Numerical investigation of heat and mass transfer behavior of freeze drying of milk in vial.Heat and Mass Transfer, DOI: 10.1007/s00231-018-02538-1

Conferences Proceedings and presentations

1. Srinivasan.G and Raja, B (2017).Study on freeze drying of water and milk in a spherical shell.International conference on theoretical, applied, computational and experimental mechanics (ICTACEM)December 28- 30, IIT Kharagpur, India
2. Srinivasan.G Muneeshwaran, M.,and Raja, B(2017).Numerical and experimental study of sublimation dehydration of water. International conference on theoretical, applied, computational and experimental mechanics (ICTACEM)December 28-30,IIT Kharagpur, India

The Senate has approved to confer the PhD Degrees to the scholars in the forthcoming convocation. Senate has also advised to put up the details of the scholar in the Senate only after the viva-voce is completed. The Senate Chairman may approve and be ratified in the next Senate.

During the discussion, the Senate has also advised to ensure that the theses are evaluated by experts working in the field who do not share any personal or professional contacts with the Guide of the scholar.

	<p>Care should be taken so that two theses from the same Guide not to be sent to same examiner.</p> <p>Faculty members working in CFTI's alone to be proposed as examiners.</p> <p>The Senate has also advised to include those scholars whose Viva-Voce is conducted 10 days ahead of convocation to be eligible to receive the degree.</p>												
<p>2019-40-Senate-06:</p>	<p>Memorandum of Understanding for Academic and Research Collaboration between National University of Science and Technology (NUST, MISIS) Moscow, Russia and IITDM Kancheepuram</p> <p>In order to facilitate collaboration on academic and research activities of mutual interest, Exchange of academic information, scholarly information, materials and publications, Exchange of students and faculty and Sponsorship of cooperative seminars, workshops and other academic meetings, an MoU has been signed by National University of Science and Technology (NUST, MISIS) Moscow, Russia and IITDM Kancheepuram, by the approval of Chairman of senate. Copy of the MoU is given in Annexure A3</p> <p>This is for the kind consideration of Senate.</p> <p>The Senate has approved the proposal given in Annexure A3. However, the Senate has urged to prepare a standard format applicable to all MoU's and use the same in future. Also, the Senate has advised to take legal consent in all such matters.</p>												
<p>2019-40-Senate-07:</p>	<p>Board Approval for conventional names for the Academic Programmes offered by the Institute</p> <p>In the 39th meeting of the senate, after due deliberation, senate recommended to rename the existing degree name to conventional degree name to facilitate students to compete across the industries (Private and PSU's) as well as for higher studies in India and Abroad.</p> <p>Recently, we have put up to BoG members for their concurrent approval which they have accorded for the degree name will be as follows:</p> <table border="1" data-bbox="373 1258 1426 2069"> <tr> <td>• B Tech in Computer Science and Engineering</td> </tr> <tr> <td>• B Tech in Electronics and Communication Engineering</td> </tr> <tr> <td>• B Tech in Mechanical Engineering</td> </tr> <tr> <td>• B Tech in Smart Manufacturing</td> </tr> <tr> <td>• B. Tech in Computer Science and Engineering and M Tech Computer Science and Engineering</td> </tr> <tr> <td>• B. Tech in Electronics and Communication Engineering and M Tech in Electronics and Communication Engineering with specialization in VLSI Design</td> </tr> <tr> <td>• B. Tech in Electronics and Communication Engineering and M Tech in Electronics and Communication Engineering with specialization in Communication Systems Design</td> </tr> <tr> <td>• B. Tech in Mechanical Engineering and M Tech in Mechanical Engineering with specialization in Advanced Manufacturing</td> </tr> <tr> <td>• B. Tech in Mechanical Engineering and M Tech in Mechanical Engineering with specialization in Product Design</td> </tr> <tr> <td>• M Tech in Electronics and Communication Engineering with Specialization in Communication Systems Design</td> </tr> <tr> <td>• M Tech in Electronics and Communication Engineering with Specialization in Electronics Systems Design</td> </tr> <tr> <td>• M Tech in Mechanical Engineering with Specialization in Mechanical</td> </tr> </table>	• B Tech in Computer Science and Engineering	• B Tech in Electronics and Communication Engineering	• B Tech in Mechanical Engineering	• B Tech in Smart Manufacturing	• B. Tech in Computer Science and Engineering and M Tech Computer Science and Engineering	• B. Tech in Electronics and Communication Engineering and M Tech in Electronics and Communication Engineering with specialization in VLSI Design	• B. Tech in Electronics and Communication Engineering and M Tech in Electronics and Communication Engineering with specialization in Communication Systems Design	• B. Tech in Mechanical Engineering and M Tech in Mechanical Engineering with specialization in Advanced Manufacturing	• B. Tech in Mechanical Engineering and M Tech in Mechanical Engineering with specialization in Product Design	• M Tech in Electronics and Communication Engineering with Specialization in Communication Systems Design	• M Tech in Electronics and Communication Engineering with Specialization in Electronics Systems Design	• M Tech in Mechanical Engineering with Specialization in Mechanical
• B Tech in Computer Science and Engineering													
• B Tech in Electronics and Communication Engineering													
• B Tech in Mechanical Engineering													
• B Tech in Smart Manufacturing													
• B. Tech in Computer Science and Engineering and M Tech Computer Science and Engineering													
• B. Tech in Electronics and Communication Engineering and M Tech in Electronics and Communication Engineering with specialization in VLSI Design													
• B. Tech in Electronics and Communication Engineering and M Tech in Electronics and Communication Engineering with specialization in Communication Systems Design													
• B. Tech in Mechanical Engineering and M Tech in Mechanical Engineering with specialization in Advanced Manufacturing													
• B. Tech in Mechanical Engineering and M Tech in Mechanical Engineering with specialization in Product Design													
• M Tech in Electronics and Communication Engineering with Specialization in Communication Systems Design													
• M Tech in Electronics and Communication Engineering with Specialization in Electronics Systems Design													
• M Tech in Mechanical Engineering with Specialization in Mechanical													

	<table border="1" style="width: 100%;"> <tr> <td style="text-align: center;">Systems Design</td> </tr> <tr> <td> <ul style="list-style-type: none"> • M Tech in Mechanical Engineering with Specialization in Smart Manufacturing </td> </tr> </table> <p>This is for information of the senate.</p> <p>The Senate has taken note of the Degree name change. While discussing the issue, the Senate has advised the Dean Academics to form a committee to advise upon revision of curriculum. Senate has also advised to incorporate Choice Based Credit System (CBCS) in the new curriculum.</p>	Systems Design	<ul style="list-style-type: none"> • M Tech in Mechanical Engineering with Specialization in Smart Manufacturing 																																																																																																	
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2019-40-Senate-08:	<p>Result Analysis Jan-May 2019: Results of Jan-May 2019 Semester have been declared on 15th May and the analysis of CGPA for the graduating batch students from all batches are presented below for your kind perusal.</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="4">B Tech 2015 Batch</th> <th colspan="5">Dual Degree 2014 Batch</th> </tr> <tr> <th>CGPA RANGE</th> <th>COE</th> <th>EDM</th> <th>MDM</th> <th>CED</th> <th>EVD</th> <th>ESD</th> <th>MFD</th> <th>MPD</th> </tr> </thead> <tbody> <tr> <td>9.5 - 10</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>9.0-9.5</td> <td>7</td> <td>3</td> <td>4</td> <td>2</td> <td>1</td> <td>2</td> <td>1</td> <td>1</td> </tr> <tr> <td>8.5-9.0</td> <td>8</td> <td>7</td> <td>8</td> <td>8</td> <td>2</td> <td>6</td> <td>0</td> <td>5</td> </tr> <tr> <td>8.0-8.5</td> <td>10</td> <td>14</td> <td>10</td> <td>8</td> <td>5</td> <td>4</td> <td>11</td> <td>1</td> </tr> <tr> <td>7.5-8.0</td> <td>5</td> <td>7</td> <td>9</td> <td>14</td> <td>5</td> <td>1</td> <td>2</td> <td>5</td> </tr> <tr> <td>7.0-7.5</td> <td>2</td> <td>1</td> <td>1</td> <td>6</td> <td>5</td> <td>2</td> <td>2</td> <td>4</td> </tr> <tr> <td>6.5-7.0</td> <td>1</td> <td>3</td> <td>5</td> <td>3</td> <td>0</td> <td>2</td> <td>0</td> <td>3</td> </tr> <tr> <td>6.0-6.5</td> <td>1</td> <td>1</td> <td>2</td> <td>2</td> <td>1</td> <td>0</td> <td>2</td> <td>0</td> </tr> <tr> <td>5.5-6.0</td> <td>6</td> <td>2</td> <td>0</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table> <p>Detailed Analyses of all batches are presented in Annexure A4. Letter is issued to all students who have CGPA less than 6.</p> <p>The Senate is requested to kindly note the same and provide suggestions for better performance.</p> <p>The Senate has noted the data. However, the Senate has advised to do an analysis of the data so that proper corrective measures may be taken to improve the performance of the students before they reach the final year. Such an analysis would be carried out with the help from Institute faculty members working in Data Analysis and the report shall be presented in the following Senate.</p>	B Tech 2015 Batch				Dual Degree 2014 Batch					CGPA RANGE	COE	EDM	MDM	CED	EVD	ESD	MFD	MPD	9.5 - 10	0	0	1	0	0	0	0	0	9.0-9.5	7	3	4	2	1	2	1	1	8.5-9.0	8	7	8	8	2	6	0	5	8.0-8.5	10	14	10	8	5	4	11	1	7.5-8.0	5	7	9	14	5	1	2	5	7.0-7.5	2	1	1	6	5	2	2	4	6.5-7.0	1	3	5	3	0	2	0	3	6.0-6.5	1	1	2	2	1	0	2	0	5.5-6.0	6	2	0	2	0	0	0	0
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2019-40-Senate-09:	<p>To report about the Convocation July 2019 of the Institute: Senate in its 38th meeting held on 6th October 2018 has given approval to conduct the Convocation of the Institute on 2nd Saturday of July every year. Accordingly it is proposed to conduct the 7th Convocation on 13th July 2019 for the passing out students. It is also informed that Dr. K. Radhakrishnan, Former Chairman, Indian Space Research Organisation has given consent to be the Chief guest for the function. The list of graduands who are eligible to receive the degrees is given Annexure A5.</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Degree</th> <th>Batch</th> <th>Completed</th> <th>Incomplete</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td rowspan="2">B.Tech.</td> <td>2015COE</td> <td>40</td> <td>0</td> <td>40</td> </tr> <tr> <td>2015EDM</td> <td>38</td> <td>0</td> <td>38</td> </tr> </tbody> </table>	Degree	Batch	Completed	Incomplete	Total	B.Tech.	2015COE	40	0	40	2015EDM	38	0	38																																																																																					
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B.Tech.	2015COE	40	0	40																																																																																																
	2015EDM	38	0	38																																																																																																

	2015MDM	40	0	40
B.Tech. Total		118	0	118
Dual Degree	2014CED	45	0	45
	2014ESD	17	0	17
	2014EVD	18	1	19
	2014MFD	17	1	18
	2014MPD	19	0	19
Dual Degree Total		116	2	118
M.Des. / M.Tech	2017CDS	8	0	8
	2017EDS	9	2	11
	2017MDS	14	1	15
	2017 SMT	10	0	10
M.Des. / M.Tech Total		41	3	44
Ph D	CSE	5		
	ECE	3		
	MEC	3		
	PHY	1		
	MAT	1		
Ph.D. Total		13		13
Grand Total		288	5	293

A total of **288** students will be awarded degrees in the convocation including degrees in absentia.

The Senate may kindly approve the same.

The Senate has approved the list of Graduands as given in Annexure A5 and they will be awarded the Degree in the forthcoming convocation.

To discuss and approve the list of Prize winners in the 7th Convocation

Senate in its 37th meeting held on 30th June 2018 has given approval for various Prizes during Convocation for the graduating batch. Accordingly HoD/Dean's committee has recommended the prize winners from the graduands of 2019 for excelling in various academic and co-curricular activities.

The list of Prize winners is given below.

ACADEMIC PROFICIENCY

2019-40-Senate-10:

Sl. No	Roll No	Name	Prize	CGPA
1.	EVD14I009	K.DHEEPIKA	Institute Gold Medal for the All Rounder of the Graduating batch from B Tech and Dual Degree	8.47
2.	MDM15B026	SURYA PRAKASH T K	Institute Gold Medal for the Best Graduate across B Tech	9.5
3.	CED14I043	SHIVA GANESH M	Institute Gold Medal for the Best Post Graduate across Dual Degree	9.47
4.	CDS17M007	SHWETA KUMARI	Institute Gold Medal for the Best Post Graduate across M Tech and M Des	9.74

5.	COE15B003	PRANAVE S	Institute Medal for the Best Graduate in B Tech, Dept. of CSE	9.43
6.	EDM15B039	SADHANA S	Institute Medal for the Best Graduate in B Tech, Dept. of ECE	9.46
7.	MDM15B026	SURYA PRAKASH T K	Institute Medal for the Best Graduate in B Tech, Dept. of ME	9.5
8.	CED14I043	SHIVA GANESH M	Institute Medal for the Best Dual Degree Graduate from CED, Dept. of CSE	9.47
9.	ESD14I013	SULTHANA SHAMS	Institute Medal for the Best Dual Degree Graduate from ESD, Dept. of ECE	9.32
10.	EVD14I021	NAKKA LAXMI	Institute Medal for the Best Dual Degree Graduate from EVD, Dept. of ECE	9.33
11.	MFD14I005	K BHAVANA	Institute Medal for the Best Dual Degree Graduate from MFD, Dept. of ME	9.44
12.	MPD14I021	ATREYEE ACHARYA	Institute Medal for the Best Dual Degree Graduate from MPD, Dept. of ME	9.08
13.	CDS17M007	SHWETA KUMARI	Institute Medal for the Best Post Graduate from CDS, Dept. of ECE	9.74
14.	EDS17M008	NAYANA FATHIMA. I.S	Institute Medal for the Best Post Graduate from EDS, Dept. of ECE	9.43
15.	MDS17M003	ARSHDEEP SINGH	Institute Medal for the Best Post Graduate from MDS, Dept. of ME	9.7
16.	SMT17M002	GADHIRAJU BALAJI	Institute Medal for the Best Post Graduate from SMT, Dept. of ME	9.41

PROJECTS

Roll No	Student Name	Prize	Project Title
EDM15B035	PHYRDHA ANUSHA	Institute Gold Medal for the Best Interdisciplinary Project across B Tech	Milk Fat Detection Device
MFD14I005	K BHAVANA	Institute Gold Medal for the Best Interdisciplinary Project across Dual Degree	A Bio-Inspired Patch to Harvest Waste Heat into Electricity and Help in Cooling of Vehicles
COE15B042	R SOWBARNIK A	Institute Medal for the Best Project in B Tech, Dept. of CSE	Karam-Intelligent Application for Online Course Moderation
EDM15B039	SADHANA S	Institute Medal for the Best Project in B Tech, Dept. of ECE	Reconfigurable Packet Classification Engine
MDM15B009	GOLI BALA SAI VENKATA YASWANTH	Institute Medal for the Best Project in B Tech, Dept. of ME	Design and Prototyping of Stair Climbing Wheel Chair
CED14I044	NAVYA BORRA	Institute Medal for the Best Project in Dual Degree, from CED, Dept. of CSE	Application of Deep Features for Glaucoma Screening using Retinal Fundus Images
ESD14I013	SULTHANA SHAMS	Institute Medal for the Best Project in Dual Degree from ESD, Dept. of ECE	Algorithms for Channel Sensing and Access in Cognitive Radio Networks
EVD14I021	NAKKA	Institute Medal for the Best	Proposal and Analysis of New

	LAXMI	Project in Dual Degree from EVD, Dept. of ECE	Approaches on InGaN Based PV Cells
MFD14I002	DARA SASI KUMAR	Institute Medal for the Best Project in Dual Degree from MFD, Dept. of ME	Endothermic Cooling Module for Emergency Electronic Cooling
MPD14I018	ARJUN ROHILLA	Institute Medal for the Best Project in Dual Degree from MPD, Dept. of ME	User-Centric Mechanical Design of Electric Bicycle
CDS17M004	SOWMYA K M	Institute Medal for the Best Project in M Des, from CDS, Dept. of ECE	Packet Scheduling for Wireless Mesh Networks
CDS17M007	SHWETA KUMARI	Institute Medal for the Best Project in M Des, from CDS, Dept. of ECE	Distributed Detection in Cognitive Radio Networks
EDS17M010	RAMEEZ RAJA SHAIK	Institute Medal for the Best Project in M Des, from EDS, Dept. of ECE	Investigation on Performance and Irradiation effects on Electrically-Modified FD-SOI
MDS17M005	VARUN GUPTA	Institute Medal for the Best Project in M Des, from MDS, Dept. of ME	Design of Rotor for Savonius Type Vertical Axis Wind Turbine
SMT17M002	GADHIRAJU BALAJI	Institute Medal for the Best Project in M Tech, from SMT, Dept. of ME	Material Modelling and Characterization of Aloe Vera Fibre by Nanoindentation Technique

The Senate approved rules followed by the committee for identifying the winners is given in Annexure A6 for kind reference.

The Senate may kindly approve the same.

The Senate has approved the list of Prize winners and they will be awarded the Prizes in the forthcoming convocation.

Senate was apprised that the winner of the Institute Medal for the Best Project in Dual Degree from MFD, Dept. of Mechanical Engineering was found to be indulged in acts of indiscipline in a previous semester and hence the next topper was selected as the winner.

During the discussion, the Senate has advised the following:

- a) To include all the students from the Graduating batch for the All Rounder position, not only from B Tech and Dual Degree but also from M Tech and PhD students. Henceforth, all the students from the Graduating batches B Tech, Dual Degree, M Tech and PhD shall be considered for All Rounder position.
- b) To seek permission from Rashtrapathi Bhavan and Rajya Bhavan to name the Institute Gold medals as President's Gold medal and Governor's Gold medal.

2019-40-Senate-11:

To discuss and approve the extension of course to Mr Venkatesh K (Roll No: EDS18M006) to complete the requirement for his M Tech Degree

A request has been received from Mr. Venkatesh K (Roll No: EDS18M006), full-time M. Tech student who joined in 2018 under HTTA scheme, that he may be permitted to join the job that he has been offered by the TNEB.

In line with Senate resolution no **2018-38- Senate-13**, his registration for the programme may be extended for one more semester (Jul–Nov, 2020) based on his application, he would be graduating only in 2021, on successful completion of his project work/ courses work and fulfill the requirement of M Tech degree.

The Senate may kindly approve the same.

	<p>The Senate has approved the item. However has suggested that permission may be given in such cases provided, the candidate completes the programme within the maximum duration permitted as per the respective Ordinance. And the candidates need not register every semester to keep the registration alive. One has to pay for the semester in which it is intended to complete the course requirements.</p>						
<p>2019-40-Senate-12:</p>	<p>Revision of HTRA to Ph D Students</p> <p>Notifications have been received from MHRD vide Order No. F.N0.5412018TS.I dated. 08.03.2019 for revision of Assistantship to Ph D Scholars under HTRA Scheme. The revision in emolument comes into effect from 01.01.2019 in respect of Ph. D scholars and the revised rates are as follows:</p>						
	<table border="1"> <thead> <tr> <th>Sl. No</th> <th>Existing Rates per month</th> <th>Revised Rates per month</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1st & 2nd Year- Rs. 25,000/-</td> <td>1st & 2nd Year- Rs. 31,000/-</td> </tr> </tbody> </table>	Sl. No	Existing Rates per month	Revised Rates per month	1	1st & 2nd Year- Rs. 25,000/-	1st & 2nd Year- Rs. 31,000/-
	Sl. No	Existing Rates per month	Revised Rates per month				
	1	1st & 2nd Year- Rs. 25,000/-	1st & 2nd Year- Rs. 31,000/-				
	<p>The fellowship in the slab after completion of two years, an external assessment Institute for up gradation</p>						
	<table border="1"> <tbody> <tr> <td>2</td> <td>Upto 5th Year – Rs. Rs.28,000/-</td> <td>Upto 5th Year –Rs. 35,000/-</td> </tr> </tbody> </table>	2	Upto 5th Year – Rs. Rs.28,000/-	Upto 5th Year –Rs. 35,000/-			
	2	Upto 5th Year – Rs. Rs.28,000/-	Upto 5th Year –Rs. 35,000/-				
	<p>In line with the detailed communication from MHRD on leave rules, HRA, and with the approval of the competent authority, HTRA have been enhanced with effect from 01.01.2019 for the eligible Ph D scholars and arrear have been paid to the concerned scholars.</p>						
	<p>With respect to the above circular regarding leave rules to the scholars, the following points require clarification and the same may be looked into for necessary clarification:</p>						
	<table border="1"> <thead> <tr> <th colspan="2">Order Reference</th> <th></th> </tr> </thead> <tbody> <tr> <td>2. Service Conditions:</td> <td>Leave and other entitlements: The Ph D scholars are eligible only for casual days while Research Associates are entitled to leave as per rules of the host Institutions.</td> <td>The number of days of casual leave admissible is not mentioned.</td> </tr> </tbody> </table>	Order Reference			2. Service Conditions:	Leave and other entitlements: The Ph D scholars are eligible only for casual days while Research Associates are entitled to leave as per rules of the host Institutions.	The number of days of casual leave admissible is not mentioned.
Order Reference							
2. Service Conditions:	Leave and other entitlements: The Ph D scholars are eligible only for casual days while Research Associates are entitled to leave as per rules of the host Institutions.	The number of days of casual leave admissible is not mentioned.					
<p>Hence is proposed to follow the following Leave Rules for Ph D Scholars as followed in IIT Madras:</p> <ul style="list-style-type: none"> ○ All scholars are eligible for 8 days casual leave and 15 days vacation leave in a calendar year and there is no carry forward. ○ Participation in any scientific events/workshop in India or abroad will be treated as “On duty” ○ Travel entitlement for participating in scientific events/workshop in India in II AC by Train ○ Maternity as per GoI instructions issued from time to time will be available to female scholars. <p>The Senate may kindly approve the same.</p>							
<p>The Senate has approved the proposal.</p> <p>Henceforth, the leave rules for Ph D Scholars will be as under.</p> <ul style="list-style-type: none"> • All scholars are eligible for casual leave of 8 days and vacation leave of 15 days in a calendar year and there is no carry forward. • Participation in any scientific events/workshop in India or abroad approved by the Institute will be treated as “On duty” • Travel entitlement for participating in scientific events/workshops approved by the 							

	<p>Institute in India in II AC by Train</p> <ul style="list-style-type: none"> • Maternity as per GoI instructions issued from time to time will be available to female scholars.
2019-40-Senate-13:	<p>To increase the Institute Post-Doctoral Fellowship Stipend The 39th Senate has given approval to initiate IPDF with a stipend in the range of Rs. 45,000/- to 55,000/-. Similar to the increase in the HTRA stipend for the PhD Scholars, it is proposed to increase the stipend of the IPDF also in the range of Rs. 60,000/- to Rs. 70,000/-. All other conditions remain the same. Senate may kindly approve the proposal.</p>
	<p>The Senate has approved the proposal.</p>
2019-40-Senate-14:	<p>To ratify the decision of Disciplinary Committee on act of indiscipline and misconduct by student in the Institute on Student disciplinary cases: Case 1: The student Mr. PASIKANTI SAI ANURAG was writing his End Semester examination of MEC323T-Computer Aided Design and Manufacturing course in Hall-21 on 26.04.2019, AN and was caught in possession of reading material inside his desk during his examination by the invigilator Dr. Masilamani V. Findings: The Committee investigated the above case. As the material is found under his desk, he is found guilty as per Rule 2 (a). Hence as per the punishment Rule 2 (a) the student will get U grade in MEC323T-Computer Aided Design and Manufacturing course and one grade less in all the other subjects in the concerned semester. Following this, the committee recommended the following punishments consistent with senate recommendations, subject to the approval of the Competent Authority.</p>
	<p><i>The erring student Mr. PASIKANTI SAI ANURAG (Roll No: MDM16B020) shall be awarded 'U' grade in the subject concerned and one grade less in all the other subjects in the concerned semester Jan-May 2019 and 20 hours of Community Service.</i></p> <p><i>**Community Service can be in the form helping library staff in arranging books, catalogues and maintenance of registers etc.</i></p>
	<p>Case 2: The student Mr. PAGOTI SAI LALITH KUMAR was writing his End Semester examination of PHY107T- Engineering Electromagnetics course in Hall-17 on 22.04.2019, FN and was caught in possession of reading material inside his desk during his examination by the invigilator Dr. Jagadeesh Kakarla. Findings and Recommendations of the Committee: The student has represented that the material didn't belong to him. The Invigilator also was not able to confirm if the material was there from beginning. As the handwritings in both the sheets doesn't match, benefit of doubt is given in favor of the student. And he was orally warned to make sure that no material is there in his neighborhood before the beginning of the exam hereforth. The Senate may ratify the decision of the Institute.</p>
	<p>The Senate has approved the recommendations of the disciplinary committee.</p>

The next meeting of the Senate will be held in September **2019**.

(Dr. Binsu J Kailath)
Dean Academics

(Prof. B. Majhi)
Chairman