

**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY  
DESIGN AND MANUFACTURING, KANCHEEPURAM**

Minutes of the 31<sup>st</sup> Senate Meeting held on Friday, 01<sup>st</sup> July 2016 at 3:00 PM at the Senate Hall, IIITDM Kancheepuram, Chennai-600 127.

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The 31<sup>st</sup> Senate Meeting held on Friday, 01<sup>st</sup> July 2016 at 3:00 PM at the Senate Hall, IIITDM Kancheepuram, Chennai-600 127. Following members attended the meeting:

**Prof R Gnanamoorthy, Director, Chairman**

***Members:***

Prof. Krishnamoorthy Sivalingam, IITM      Dr. AnandLakshmanan, Ms Ericson Ltd  
Dr. V Masilamani, IIITDM                      Dr. G Venkatesh, Ms Sasken Communication Tech Ltd.  
Dr. P Damodharan, IIITDM                      Dr. M Sathya Prasad, Ms Ashok Leyland Ltd  
Dr. B Shahul Hamid Khan, IIITDM

***Invitee***

Prof. S Narayanan, IIITDM                      Dr Premkumar, IIITDM  
Prof. L Vijayaraghavan, IITM                      Dr N Sadagopan, IIITDM  
Prof. Shaligram Tiwari, IITM                      Dr Tapas Sil, IIITDM  
Prof. Ramalingam C S, IITM                      Dr Venkata Timmaraju Mallina, IIITDM

Prof P Chandramouli and Prof V Jagadeesh Kumar could not attend the meeting due to prior commitments and leave of absence was granted.

The Chairman welcomed the members and briefed the Senate about the functioning of the Institute.

<b>A.1</b>	<b>To confirm the Minutes of the 30<sup>th</sup> Meeting of the Senate held on 22<sup>nd</sup> March 2016</b>
	<p>The Minutes of the 30<sup>th</sup> Meeting of the Senate held on 22<sup>nd</sup> March 2016 were circulated to all members of the Senate.</p> <p>The Senate was intimated about the erroneous attachment of Annexure relevant to Res. No. 04/2016 in the minutes of the 30<sup>th</sup> Meeting of Senate circulated. The old Annexure A needs to be replaced with the enclosed <b>Annexure 'H'</b> in this Minute.</p> <p>The Senate <b>confirmed</b> the minutes of the 30<sup>th</sup> meeting.</p>

<b>A.2</b>	<b>To report the action taken on the Minutes of the 30<sup>th</sup> Meeting of the Senate</b>		
	Res. No. 04 /2016	Approval of the curriculum of B. Tech in “Mechanical - Smart Manufacturing”.	Implemented
	Res. No. 05 /2016	To rename B.Tech Degree in “Electronics Engineering (Design and Manufacturing)” offered in IIITDM as “Electronics and Communication Engineering - Design and Manufacturing” from 2013 batch onward.	Implemented
The Senate <b>noted</b> the same.			
<b>Items for Approval</b>			
<b>A.3</b>	<b>To recommend award of degrees to B.Tech and M.Des graduating class of 2016</b>		
<b>Res.No. 06/2016</b>	<p>The list of students who have successfully completed the academic requirements and are eligible to receive the degrees in the forth coming Fourth Convocation of the Institute scheduled on 30 July 2016 is given in <b>Annexure ‘A’</b> (UG:76, PG:38, &amp; Ph.D:2).</p> <p>List of these students who are eligible to receive the degree with Distinction is given in <b>Annexure ‘B’</b> (UG: 10, &amp; PG:04).</p> <p>It is informed that Shri. V. K. Viswanathan, Chairman of Bosch, has given consent to be the Chief Guest for the function.</p> <p>The Senate <b>approved</b> to issue provisional certificates to the eligible students and <b>recommended</b> to the Board for award of degree.</p>		
<b>A.4</b>	<b>To approve minor changes in curriculum and syllabi of courses of 5<sup>th</sup> semester to 10<sup>th</sup> semester of different branches of Dual Degree programme</b>		
<b>Res.No. 07/2016</b>	<p>The Senate has approved, in the 30<sup>th</sup> meeting (Res. No. 05/2016), the change of name of B Tech Degree in “Electronics Engineering (Design and Manufacturing)” to “Electronics and Communication Engineering - Design and Manufacturing” and corresponding changes required in its curriculum effective from 2013 batch onward.</p> <p>Institute offers Dual Degree programmes in Electronics Steam:</p> <p>a) <i>B.Tech. Electronics Engineering (Design and Manufacturing) + M.Tech. Signal Processing &amp; Communication System Design [ESD]</i> and</p>		

b) *B.Tech. Electronics Engineering (Design and Manufacturing) + M.Tech. Signal Processing & Communication System Design [EVD].*

Few minor changes in the curriculum of these dual degree programmes are proposed so that these will be in corroborate with the approved curriculum of UG programme “Electronics and Communication Engineering - Design and Manufacturing”. Thus the students of these two these programmes will be given B.Tech degree in “*Electronics and Communication Engineering - Design and Manufacturing*”. The summary of changes are as follows:

Branch	Course	Change
ESD and EVD	Mechanical Design of Electronic Systems	Moved from 5th to 7th semester
	Electronic Manufacturing and Prototyping (1-3-3) {5 <sup>th</sup> Sem}	“Electronic Manufacturing and Packaging” (3-0-3) combined with “PCB Design and Prototyping” (0-3-2)
	Information Theory and Coding {5 <sup>th</sup> Sem}	New addition
	Analog and Digital Communication Practice {5 <sup>th</sup> Sem}	New addition (in the slot of “PCB Design and Prototyping”)
ESD	Data Communication Networks {6 <sup>th</sup> Sem}	Renamed from “Communication Networks”
	Data Communication Networks Practice {6 <sup>th</sup> Sem}	Renamed from “Communication Networks Practice”
	Detection and Estimation Theory	Moved from 7th to 8th semester
	DSP System Design Practice (1-3-3) {8 <sup>th</sup> Sem}	DSP System Design (3-0-3) and DSP System Design Practice (0-3-2) in the 8 <sup>th</sup> Sem are Combined to (1-3-3) pattern.
	Sensing and Instrumentation Practice (0-3-2)	Pattern is changed from (1-3-3) to (0-3-2)
EVD	Electro Magnetic Interference and Compatibility	Moved from 7th to 6th semester( <i>Experts suggested to offer the course before Mech Design of Elec. Sys</i> )
	Electro Magnetic Interference and Compatibility Practice	Moved from 7th to 6th semester
	Analog IC Design	Moved from 6th to 7th semester ( <i>to accommodate change in EMIC as well as to have even distribution of courses</i> )
	Analog and Digital IC Design Practice	Moved from 6 <sup>th</sup> to 7th semester (To be offered along with the theory)
	Embedded System Design Practice (0-3-2).	Lab part is retained in 8 <sup>th</sup> Semester
	VLSI System Design (3-0-3)	Moved from 7 <sup>th</sup> Sem to 8 <sup>th</sup> Sem

	<p>A swapping of Management courses, <i>Data Analytics</i> (6th to 7th Semester) and <i>Product Management</i> (7th to 6th semester), is proposed in the curriculum of all branches of dual degree.</p> <p>Proposed revised curriculum and the detailed syllabi of all courses from 5<sup>th</sup> Semester to 10<sup>th</sup> semester for all branches of Dual Degree is given in <b>Annexure 'C'</b>.</p> <p>The Senate <b>resolved to approve</b> the modifications in the revised curriculum (<b>Annexure 'C'</b>)</p>
<b>A.5</b>	<b>To approve the proposed elective courses</b>
<b>Res.No. 08/2016</b>	<p>It is proposed to introduce an elective course titled, "Network Algorithmics" for PG / Ph.D students.</p> <p>A detailed syllabus for the above course has been prepared after consulting experts from other reputed Institutes (<b>Annexure 'D'</b>).</p> <p>The Senate <b>resolved to approve</b> the proposed elective course.</p>
<b>A.6</b>	<b>To approve the B.Tech. Honours programme for the students of Dual Degree</b>
<b>Res.No. 09/2016</b>	<p>The Institute awards a B.Tech. Distinction to the students of B.Tech who complete all courses in a single attempt with grade 'S' to 'D' and secure a CGPA of 9.0 and above.</p> <p>B.Tech (Honours) programme is available for the meritorious students of B.Tech Degree subjected to the rules as follows:</p> <ol style="list-style-type: none"> <li>1. Honours programme should be opted for by the end of the 4<sup>th</sup> semester.</li> <li>2. Minimum CGPA of 9.0 (eligibility for registration and award).</li> <li>3. Successful completion of all courses in the first attempt with a grade of 'S' to 'D' only.</li> <li>4. Register for 09 additional credits related to the specialization as identified by the discipline coordinator</li> <li>5. Students who fail to satisfy the above conditions, shall be awarded the regular B. Tech degree.</li> </ol> <p>It is proposed to extend these awards (with the same rule) to the students of dual degree also (from 2014 batch onwards) and the students who will complete the course satisfying the above criteria will be given <i>Honours in UG degree</i>.</p> <p>The Senate <b>resolved to approve</b> the proposal.</p>

A.7	<b>To ratify the decision of Disciplinary Committee on act of indiscipline and misconduct by students in the Institute</b>									
	<p>Two students were found to be indulged in malpractice during the examinations conducted by the institute. Disciplinary Committee (Acad.) looked into these matters and recommended for the graded punishment as mentioned below:</p> <table border="1" data-bbox="451 466 1326 1234"> <thead> <tr> <th data-bbox="451 466 662 594">Name/Roll No. of the Student</th> <th data-bbox="662 466 1008 594">Act involved</th> <th data-bbox="1008 466 1326 594">Recommendation by the Disciplinary Committee</th> </tr> </thead> <tbody> <tr> <td data-bbox="451 594 662 913"></td> <td data-bbox="662 594 1008 913">Possessing incriminating Material inside Examination Hall (Mobile Phone with subject matters)</td> <td data-bbox="1008 594 1326 913"><i>He shall be awarded 'U' grade in the subject concerned and he will not be eligible to seek supplementary Exam or Contact Course in the respective subject.</i></td> </tr> <tr> <td data-bbox="451 913 662 1234"></td> <td data-bbox="662 913 1008 1234">Found forgery of signature of laboratory staff and teaching Assistants in Practical Record Notebook and awarded marks for himself for experiments</td> <td data-bbox="1008 913 1326 1234"><i>He shall be awarded 'U' grade in the subject concerned and a warning letter shall be issued. The parents of the respective student will be informed</i></td> </tr> </tbody> </table> <p>The Senate <b>ratified</b> the decision of the Institute.</p>	Name/Roll No. of the Student	Act involved	Recommendation by the Disciplinary Committee		Possessing incriminating Material inside Examination Hall (Mobile Phone with subject matters)	<i>He shall be awarded 'U' grade in the subject concerned and he will not be eligible to seek supplementary Exam or Contact Course in the respective subject.</i>		Found forgery of signature of laboratory staff and teaching Assistants in Practical Record Notebook and awarded marks for himself for experiments	<i>He shall be awarded 'U' grade in the subject concerned and a warning letter shall be issued. The parents of the respective student will be informed</i>
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	Found forgery of signature of laboratory staff and teaching Assistants in Practical Record Notebook and awarded marks for himself for experiments	<i>He shall be awarded 'U' grade in the subject concerned and a warning letter shall be issued. The parents of the respective student will be informed</i>								
A.8	<b>Addition to the list of graduating class of 2016 to recommend award of degrees</b>									
Res.No. 10/2016	<p><b>Smt. S. Devi Yamini (MAT10D001)</b> has completed all the academic requirements for the award of the Ph. D degree in Mathematics stream of this Institute. The details are as follows:</p> <table border="1" data-bbox="441 1602 1336 1883"> <tbody> <tr> <td data-bbox="441 1602 634 1675">Title of thesis</td> <td data-bbox="634 1602 1336 1675">The Maximum Independent Set Problem and its Counting Variant</td> </tr> <tr> <td data-bbox="441 1675 634 1713">Guide</td> <td data-bbox="634 1675 1336 1713">Dr. M A Shalu</td> </tr> <tr> <td data-bbox="441 1713 634 1818">External Examiners</td> <td data-bbox="634 1713 1336 1818">           1. Prof. Daniel Simson,            Nicolaus Copernicus University, Toruń, Poland            2. Prof. B S Panda, Dept. of Mathematics, IIT Delhi         </td> </tr> <tr> <td data-bbox="441 1818 634 1883">Internal Examiner</td> <td data-bbox="634 1818 1336 1883">Prof. Sounaka Mishra, Dept. of Mathematics, IIT Madras</td> </tr> </tbody> </table>	Title of thesis	The Maximum Independent Set Problem and its Counting Variant	Guide	Dr. M A Shalu	External Examiners	1. Prof. Daniel Simson, Nicolaus Copernicus University, Toruń, Poland 2. Prof. B S Panda, Dept. of Mathematics, IIT Delhi	Internal Examiner	Prof. Sounaka Mishra, Dept. of Mathematics, IIT Madras	
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	Publications	<p><b>List of papers published based on thesis work</b></p> <p><b>Papers in Refereed Journals</b></p> <ol style="list-style-type: none"> <li>1) M. A. Shalu and S. Devi Yamini (2016). A generalization of join and an algorithmic recognition problem. <i>Fundamenta Informaticae</i>, 145(1), 81-91.</li> <li>2) M. A. Shalu and S. Devi Yamini (2016). Counting maximal independent sets in power set graphs. <i>Journal of Combinatorial Mathematics and Combinatorial Computing</i>, 96, 283-291.</li> <li>3) M. A. Shalu and S. Devi Yamini. One-three join: A graph operation and its consequences, <i>Discussiones Mathematicae Graph Theory</i> (Accepted for publication).</li> <li>4) M. A. Shalu and S. Devi Yamini. Tent and a subclass of P5-free graphs, <i>Electronic Notes in Discrete Mathematics</i> (Accepted for publication).</li> </ol> <p><b>Presentations in Conferences</b></p> <ol style="list-style-type: none"> <li>1) M. A. Shalu and S. Devi Yamini, c2-join and One-three join. Indo-Slovenia Conference on Graph theory and its applications. Thiruvananthapuram, Kerala, Feb 22-24, 2013.</li> <li>2) M. A. Shalu and S. Devi Yamini, Cliques and independent sets in Power set graphs. 3rd International Conference on Discrete Mathematics (ICDM-2013). Karnatak University, Dharwad, June 10-14, 2013.</li> <li>3) M. A. Shalu and S. Devi Yamini, c2-join of graphs. 13th Cologne – Twente Workshop on Graphs &amp; Combinatorial Optimization. Istanbul, Turkey, May 26- 28, 2015.</li> <li>4) M. A. Shalu and S. Devi Yamini, Tent and a subclass of P5-free graphs. International Conference on Graph Theory and its Applications (ICGTA 2015). Coimbatore, Dec 16-19, 2015. 81.</li> </ol>
<p>Thirteen students (09 UG and 04 PG as given in <b>Annexure 'E'</b>) had got an extension of one month to complete their projects satisfactorily. Now, these students have completed successfully their projects and other courses required for the award of degree.</p> <p>The Senate <b>approved</b> the issue of provisional certificates to these students also and <b>recommend</b> to the Board for the award of degree.</p>		

<b>A.9</b>	<b>To discuss and approve the Recommendations by the Award committee for the awards to be given to the passed out students on Fourth Convocation</b>
<b>Res.No. 11/2016</b>	<p>A committee was constituted to select the students who satisfies the guidelines required for Institute awards given during the convocation. Recommendations by the Award committee are given in <b>Annexure 'F'</b>.</p> <p>The Senate <b>approved</b> the list of awardees.</p>
<b>A.10</b>	<b>To approve to introduce 'online courses as electives' for the B.Tech. and dual degree students</b>
<b>Res.No. 12/2016</b>	<p>Knowledge and education is no more confined in the class room or within an Institute. There are many courses available online offered by eminent teachers/researchers of reputed Institutes/Universities. One must utilize the open resource of education for his/her better growth. The Institute has planned to open up this opportunity for the students by introducing reputed 'online courses' as 'electives courses". A committee has been constituted to look into this matter and recommendations are given in <b>Annexure 'G'</b>.</p> <p>The senate <b>discussed and approved</b> the proposal of committee regarding the introduction of 'online courses' as 'electives courses" for students of UG and PG. The senate suggested formulating the conversion rule for credit and grading pattern for such courses and also to include "NPTEL certificate courses" in list of recourses.</p>

**Chairman**