

Meeting No: 20

Meeting Date: 11-01-2021

Venue: Zoom App

Timing: 03.00 PM to 04.30 PM

Meeting Chair: Dr. M.Kannan , Professor/Head, Board Chairman

**AGENDA**

1. Ratification of UG and PG curriculum
2. Introduction of Industry support course
3. Course listing for minor and specialization.
4. PG open electives.
5. Framing of course content for Value added courses.

**MEMBERS PRESENT**

Dr.A.Krishnaveni – Anna university Representative, GCE, Tirunelveli  
 Dr. A.Ramesh --Expert Member, IIT, MADRAS  
 Dr. V.Senthil Kumar --Expert Member, NIT, Trichy  
 Mr. A.Arul Moshi -- Alumni Member, NEC, Kovilpatti  
 Mr. R.Srinivasa Raghavan – Vice president, ATG Tires, Tirunelveli (Absent)  
 All Faculty members of Mechanical Engineering Department

		POINT OF DISCUSSION	ACTION
1	1	Board Chairman presented the incorporation of III -BOS Meeting recommendations.	
	2.	The incorporation is accepted by all the members.	
2	1.	<p><u>Board Chairman presented the proposed revisions on Syllabus/curriculum.</u></p> <p>Proposed revisions in curriculum/ Syllabus</p> <ul style="list-style-type: none"> <li>• Mechatronics course is moved as Professional core course with four credits- layer learning from professional elective list in seventh semester. The reflection is the change of total credit points from 163 to 164.</li> <li>• Reverse Engineering is introduced as Professional Elective in VII semester ( 3 credit course).</li> <li>• Total Quality Management is moved from open elective to professional elective.</li> </ul>	HOD, All Faculty
	2.	<p>Proposed minor course revisions</p> <ul style="list-style-type: none"> <li>• Noise control topics are suggested to add in fifth unit of Dynamics of Machinery.</li> <li>• Computer aided casting simulation topic is proposed to add in Manufacturing Technology – I (unit-1)</li> <li>• Velocity potential functions and stream functions topics are proposed to add in Fluid Mechanics and Machinery (unit-1).</li> </ul>	

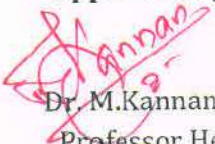
	<p>3. Value added Courses . The following Value added courses with course contents are proposed</p> <ul style="list-style-type: none"> <li>• 3D Modelling for Design Engineer.</li> <li>• 3D Printing.</li> <li>• Applied Finet Element Analysis.</li> <li>• Process Design &amp; CNC Programming.</li> <li>• Non Destructive Testing.</li> </ul> <p>4. NPTEL courses</p> <ul style="list-style-type: none"> <li>• In order to stream line NPTEL course based learning 10 courses are being identified and listed listed in each stream of Design, Thermal and manufacturing.</li> <li>• On successful completion of a 3-credit course, a student will be permitted to drop anyone professional/open elective course in the next immediate semester subjected to condition that the same course should not be studied by the student in their earlier semesters and also it requires approval for department committee before joining the courses.</li> </ul> <p>5. Industrial Support Courses There are two courses and associated Industries are being identified.</p> <ul style="list-style-type: none"> <li>• TQM - ATG tyres.</li> <li>• Lean six sigma - TVS Sensing solution Pvt Ltd.</li> </ul> <p>6. In corporation of an additional course outcome It has been proposed to add 6<sup>th</sup> course outcome in all the courses.</p> <p>7. Major/Minor course Initiation It has been proposed to add a Major/Minor course entitled Robotics &amp; Automation.</p>	
3	<p><u>Recommendation &amp; Comments</u></p> <p>1. University Representative from GCE asked about requirement of Internship Training about students. It was clarified that it is made as mandatory course with course listed in regulations 2019.</p> <p>2. University Representative from GCE also told that if faculty members facing any problems up to fourth semester, contents can be adjusted.</p> <p>3. University representative also suggested that contents in unit-2 of Reverse Engineering course to be revised:</p> <p>4. In response to content reduction, Expert member from NIT Trichy suggested to refer and compare parent University for reducing the contents for classical subjects.</p> <p>5. Expert member form IIT Madras asked whether the value added courses are credited or not.</p> <p>6. Chairman replied that value added courses are credited. However the credits</p>	

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	are added as over and above basis.	
7.	Expert member form IIT Madras also suggested that Robotics based Additive Manufacturing can be included in the proposed Major/Minor course.	
8.	Alumni member suggested that recent reference books to be included in the proposed Value added courses.	

**Approved by**

  
Dr. M.Kannan,  
Professor Head/MECH


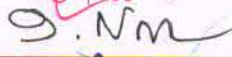









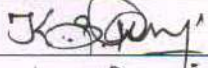
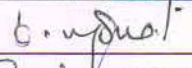
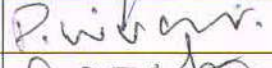
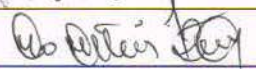
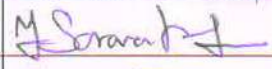
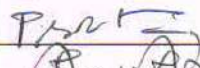
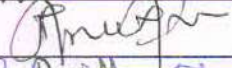
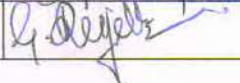
  
Dr.A Krishnaveni

Anna university Representative, GCE,TVL

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Expert Member, IIT, MADRAS

Dr. V.Senthil Kumar  
Expert Member, NIT, Trichy

Mr. A.Arul Moshi  
Alumni Member, NEC, Kovilpatti


S.No	List of Staff Members	Staff Members Present	Staff Members Absent
1.	Dr. M.KANNAN		
2.	Dr. I. NEETHI MANICKAM		
3.	Dr. ZEENATHUL FARIDA ABDUL		
4.	Dr. S. JOE PATRICK		
5.	Dr. R. SAMUEL HANSEN		
6.	Mr. AYYANAR RAJA		
7.	Mr. K. ARIYANAYAGAM		
8.	Mr. J. Y. ARTHUR JEBARAJ		
9.	Mr. S. THANUMALAYA PERUMAL		
10.	Mr. G. VAIRAMANI		
11.	Mr. S. SHEIK SULAIMAN		
12.	Mr. J.JEREMY JEBE SAMUEL		
13.	Mrs. K. S. MAHESWARI		
14.	Mr. K. ROBINSTON		
15.	Mr. M. SIVA KUMAR		
16.	Mr. M. MUTHUKUMAR		
17.	Mr. M. SARAVANA KUMAR		
18.	Mr. P. SATHISH KUMAR		
19.	Mr.P.RAMKUMAR		
20.	Mr.RAJA VINOTH		

### III BOARD OF STUDIES - MINUTES AND ACTION PLAN

Item 1.1: Curriculum and Syllabi for UG Mechanical Engineering Programme				
	Minutes – Comments		Action plan	Ref.
	The prerequisites for the following courses need to be added/ changed			
1.	Power Plant Engineering	Thermal Engineering	Thermal Engineering added	115
	Design for Manufacturing and Assembly	Design courses	Design of Machine Elements and Design of Transmission System added.	141
	Flexible manufacturing systems	Computer Integrated Manufacturing systems	CIM added	162
2	Simulation using piping software to be included as a part of 5 <sup>th</sup> unit in Design of pressure vessels and piping		Simulation based content added as fifth unit in DPVP	158
3	Title of the course Industrial Automation 4.0 to be changed to Industry 4.0		Title of the course changed to Industry 4.0	211
4	The content in Unit I of Industry 4.0 needs to be more on mechanical applications		Content changed including Mechanical applications	211
5	The stream wise categorization of electives done for the entire list of electives has to be done semester wise		Stream wise elective categorization made semester wise	18,19
6	Electives Entrepreneurship Development and Total Quality Management to be kept as professional elective and open elective		<p>Both the courses are now finds place in professional elective.</p> <p><b>Remarks:</b></p> <p>1.TQM being offered as professional electives by respective department.</p> <p>2. Entrepreneurship Development offered as open elective by MBA department.</p>	213 (ED), 186 (TQM)
7	Courses on Data analytics, Block Chain and Cyber Security may be offered		The courses are offered by other department as open elective that can be chosen by Mechanical Students	-
8	Internship for a period of minimum four week duration may be included during the fifth or sixth semester and appropriate credits should be provided		Minimum four week internship has been included during fifth –sixth semester break.	253

9	Elective course, Refrigeration and Air – conditioning can be shifted to earlier semesters to ease the load during the final semester	Refrigeration and Air –conditioning course moved to sixth semester elective	151
10	Syllabus overlap in courses Lean Manufacturing and Total Quality Management need to be checked and need to be removed if overlap exist	Course content for overlap verified and changed accordingly	207- LSS, 186- TQM
11	PO vs CO mapping for technical seminar needs revision	Mapping revised	117
12	COs for Comprehension need to be general covering the major streams and not specific courses.	COs redefined	118
13	COs of Project work could insist on inculcating research skills by taking real time industrial problems even for in-house projects	COs redefined for project work.	120



  
 Board Chairman  
 (Dr. M. S. ANNAN)