



## Management Review System Formats

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### MINUTES OF THE MEETING

Date of the meeting : 11.06.2022  
Name of the meeting : Board of Studies meeting - B.E Mechatronics  
Mode : Online  
Time : 11.00 am – 12.30 pm

#### Attended by:

<b>External Members:</b>	
1.	Dr. J.E. Diwakar, Principal Research Scientist, DESE, IISc Bangalore
2.	Mrs. N. Bhuvana, Senior Scientist, CSIR-National Aerospace Lab, Bangalore
3.	Dr. M. Kumar, Former Principal Engineer, GE Health Care, Bangalore
4.	Dr. K. Mahadevan, Professor, Department of Mechanical Engineering, Pondicherry Engineering College
5.	Mr. N Parameswaran, Senior Director, Trane Technologies, Bangalore
6.	Dr. S. Parasuraman, Senior Lecturer, School of Engineering, Monash University, Malaysia
7.	Dr. L Ramanan, Chief Technology Officer, Sahajanand Medical Technologies, Mumbai
<b>Internal Members:</b>	
1.	Dr. M. Palaninatha Raja, Principal in charge, Professor and Head, MECT, TCE
2.	Dr. G. Kumaraguruparan, Associate Professor, MECT, TCE
3.	Dr. G. Kanagaraj, Associate Professor, MECT, TCE
4.	Mr. S. Julius Fusic, Assistant Professor, MECT, TCE
5.	Mr. H. Ramesh, Assistant Professor, MECT, TCE
6.	Mr. S. Parthasarathi, Assistant Professor, MECT, TCE
7.	Mr. M. A. Ganesh, Assistant Professor, MECT, TCE
8.	Mr. B. Praveen Kumar, Assistant Professor, MECT, TCE
9.	Mr. S.A.R. Sheik Masthan, Assistant Professor, MECT, TCE
10.	Mr. S. Manikandan, Assistant Professor, MECT, TCE
11.	Mr. M.M. Devarajan, Assistant Professor, MECT, TCE

Sl. No.	Points discussed	Action Plan	Responsibility	Target date
1.	Splitting of major project into four theme areas	Comprehensive list of projects has to be prepared by faculty members in the following identified theme areas to facilitate the students i. Sensors and Instrumentation ii. Mechanical Systems iii. Robotics and Automation iv. System Integration	All faculty members	---
2.	Course content of <b>Introduction to Mechatronic Systems</b> course <ul style="list-style-type: none"> <li>• Overview of the product has to be exposed for better understanding of mechatronic product</li> <li>• Students should be facilitated to disassemble and assemble any of the mechatronic system</li> <li>• In the process, the students will experience the mechatronics system and its components</li> <li>• Mechatronic systems and its components have to be introduced rather than teaching the basic principles</li> <li>• Error component of the mechatronics system need to be taught</li> </ul>	To be adhered while designing the syllabus	Mr. S Parthasarathi	-
3.	Introduction of new courses <ul style="list-style-type: none"> <li>• Product Development, cyber physical system related course needs to be provided</li> <li>• Professional practice in the final year could help the students to become professionals</li> <li>• Artificial Intelligence has to be taught as a core subject</li> <li>• Electric vehicle technology and digital manufacturing has to be introduced</li> </ul>	---		-
4.	Core robotics should contain robot kinematics, dynamics and trajectories in industrial robotics course	To be adhered while designing the syllabus	Mr. MA Ganesh	-

Sl. No.	Points discussed	Action Plan	Responsibility	Target date
5.	Thermal Fluid system must contain <ul style="list-style-type: none"> <li>Industrial hydraulics and pneumatics – 70 %</li> <li>Basic thermal engineering and fluid mechanics – 30%</li> </ul>	To be adhered while designing the syllabus	Dr G Kumaraguruparan	-
6.	Topics related to power supply selection has to be introduced in any of the electronics course	To be adhered while designing the syllabus	Mr. S Parthasarathi	-
7.	<b>Air Mobility System</b> <ul style="list-style-type: none"> <li>Has to be an exposure course</li> <li>Communication aspects of the drones has to introduced</li> </ul>	To be adhered while designing the syllabus	Dr. S Julius Fusic	-
8.	<b>Laboratory Sessions</b> Students has to collect information prior to performing the laboratory experiment and must prepare a one page write up regarding the experiment to have a better understanding on the experiment	To be adhered while conducting laboratory sessions	All faculty members	-

**Prepared by:**

Dr. G. Kanagaraj

Mr. S.A.R. Sheik Masthan

*AS*

**Approved By:**

Dr M Palaninatharaja

*Palaninatharaja*  
12/6/22

**Date:** 15:06:2022

**Date:** 15:06:2022

**Note:**

As the Board of Studies Meeting was conducted as an online meeting, members' signatures were not obtained.