



Management Review System Formats

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MINUTES OF THE MEETING

Date of the meeting : 21.04.2023
Name of the meeting : Board of Studies meeting - B.E Mechatronics
Mode : Hybrid
Time : 10.00 am – 12.30 pm

Agenda:

- To Pass the IV and V semester courses of B.E Mechatronics students admitted from the academic year 2022 - 2023 onwards
- To Pass the IV semester Lateral Entry course **22MTL10 - Probability, Statistics and Fourier Series** of B.E Mechatronics students admitted from the academic year 2023 - 2024 onwards
- To Pass the Program Elective **21MTRH0 - Design and Analysis of Experiments** of B.E Mechatronics students admitted from the academic year 2021 - 2022 onwards
- To discuss the Program Electives courses for B.E Mechatronics students admitted from the academic year 2022 - 2023 onwards
- To discuss about the courses in minors and honors for B.E Mechatronics students admitted from the academic year 2022 - 2023 onwards

Attended by:

External Members:

1. Dr. J.E. Diwakar, Principal Research Scientist, DESE, IISc Bangalore – Online
2. Mrs. N. Bhuvana, Senior Scientist, CSIR-National Aerospace Lab, Bangalore – Online
3. Dr. M. Kumar, Former Principal Engineer, GE Health Care, Bangalore – Online
4. Mr. N Parameswaran, Senior Director, Trane Technologies, Bangalore – Physical
5. Dr. L Ramanan, Chief Technology Officer, Sahajanand Medical Technologies, Mumbai - Online

Internal Members:

1. Dr. M. Palaninatha Raja, Principal in charge, Professor and Head, MECT, TCE
2. Dr. G. Kumaraguruparan, Professor, MECT, TCE
3. Dr. G. Kanagaraj, Professor, MECT, TCE
4. Dr. 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. M.M. Devarajan, Assistant Professor, MECT, TCE
9. Mr. S.A.R. Sheik Masthan, Assistant Professor, MECT, TCE
10. Mr. S. Rajkumar, Assistant Professor, MECT, TCE
11. Dr. K.J. Nagarajan, Assistant Professor, MECT, TCE
12. Dr. S. Saravanakumar, Assistant Professor, Mathematics, TCE
13. Dr. M. Sundar, Assistant Professor, Mathematics, TCE

HDMCT

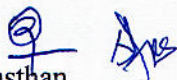
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Sl. No.	Points discussed	Action Plan	Responsibility	Target date
1.	22MT410 - PROBABILITY AND STATISTICS <ul style="list-style-type: none"> Assignments using R software shall be given to the students Case study on reliability shall be introduced 	To be adhered during content delivery and the comments are to be incorporated into syllabus	Dr. S. Saravanakumar Dr. M. Sundar	05/05/23
2.	22MT420 - MICROCONTROLLER BASED SYSTEM DESIGN <ul style="list-style-type: none"> Selection of microcontroller based on requirement and application to be introduced to the students 22MT470 - Microcontroller Laboratory: No Comments	Comments are to be incorporated into syllabus	Mr. S Parthasarathi M M Devarajan	05/05/23
3.	22MT430 - POWER ELECTRONICS AND DRIVES <ul style="list-style-type: none"> Need for inverter technology and its advantages to be added 	Comments are to be incorporated into syllabus	Dr. S Julius Fusic Mr. H Ramesh	05/05/23
4.	22MT440 - SENSORS AND MEASUREMENTS <ul style="list-style-type: none"> Fiber optic-based strain gauges to be introduced Students must be taught about the principle behind the working of each and every sensor, Placement, Selection of sensor, based on requirement and application to be introduced to the students Importance of traceability and uncertainty during the measurements are to be added 22MT480 - Sensors and Measurements Laboratory: No Comments	To be adhered during content delivery and the comments are to be incorporated into syllabus	Dr. M PalaninathaRaja Mr. S Parthasarathi	05/05/23
5.	22MT450 - DIGITAL SIGNAL PROCESSING (TCP) <ul style="list-style-type: none"> Signal acquisition using NI hardware shall be added as an experiment 	To be adhered during content delivery	Mr. S.A.R. Sheik Masthan	---
6.	22MT460 - PROJECT MANAGEMENT <ul style="list-style-type: none"> Topics related to New Product Development (NPD) and risk estimation are to be incorporated 	To be adhered during content delivery and the comments are to be incorporated into syllabus	Mr. M M Devarajan Mr. S Rajkumar	05/05/23
7.	22MT510 - CONTROL SYSTEMS <ul style="list-style-type: none"> Significance of mathematical models to be taught to the students 	To be adhered during content delivery	Mr. H Ramesh Mr. M A Ganesh	---
8.	22MT520 - DESIGN OF MACHINE ELEMENTS <ul style="list-style-type: none"> Types of joints and loading to be introduced Element selection based on requirement and user's scenario to be introduced to the students 22MT530 - Industrial Automation: No Comments 22MT550 - CAD / CAM Laboratory: No Comments 22MT560 - Industrial Automation Laboratory: No Comments	To be adhered during content delivery and the comments are to be incorporated into syllabus	Dr. M Palaninatha Raja Dr. G Kanagaraj Dr. K J Nagarajan	05/05/23

Sl. No.	Points discussed	Action Plan	Responsibility	Target date
9.	22MT540 - CNC TECHNOLOGY <ul style="list-style-type: none"> • Introduction to rapid prototyping to be introduced • Topics related to Geometric Dimensioning and Tolerance (GDT) are to added • Fluid flow measurement and analysis, Mechanical Strength analysis must be taught with the aid of software tools • Laboratory experiments involving Ansys Multiphysics shall be introduced 	To be adhered during content delivery and the comments are to be incorporated into syllabus	Dr. K J Nagarajan Mr. H Ramesh	05/05/23
10.	General <ul style="list-style-type: none"> • Course related to Industrial Communication Networks shall be offered as an elective course 	Program Elective to be added and passed in the next BoS meeting	BoS Member and Course Designer	Before next BoS meeting

Prepared by:

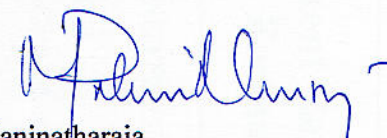
Dr. G. Kanagaraj
Mr. S.A.R. Sheik Masthan



Date: 28/04/2023

Approved By:

Dr. M. Palaninatharaja



Date:

19/05/23

Note:

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