



Management Review System Formats

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| Doc No | QR/M5-02 |
| Rev. No. | 00 |
| Date | 14-06-2004 |
| Page No. | 1 of 3 |

MINUTES OF THE MEETING

Date of the meeting: 08.12.2018

Name of the meeting: Board of Studies meeting – M.E Mechatronics

Attended by:

External Members:

1. Dr.M.Kumar, Former Principal Engineer, GE Health Care , Bangalore

Special invites

1. Dr. J.E. Diwakar, Principal Research Scientist, DESE, IISc Bangalore

2. Mr.S.Dhanabal, Academic Program Manager, NI, Bangalore

3. Mrs. Bhuvana, Senior scientist, CSIR-National Aerospace Lab, Bangalore

The following experts were given leave of absence.

1. Dr.M. Ganapathi, Former Scientist, DRDO, Bangalore.

2. Mr.T.R. Pothikan Suresh, Technical Architect, BOSCH, Coimbatore.

Internal Members:

1. Dr. M. Palaninatha Raja, Professor and Head, MECT, TCE

2. Dr.G.Kumaraguruparan, Associate Professor, MECT, TCE

3. Dr.G. Kanagaraj, Associate Professor, MECT, TCE

4. Dr. L.R.Karl marx, Associate Professor, MECT, TCE

5. Mr. S. Julius Fusic, Assistant Professor , MECT, TCE

6. Mr. H. Ramesh, Assistant Professor , MECT, TCE

7. Mrs.S.Siva Priya, Assistant Professor , MECT, TCE

8. Mr.M.A.Ganesh, Assistant Professor , MECT, TCE

9. Mr. M. Manimegalan, Assistant Professor , MECT, TCE

10. Mr. B. Praveen Kumar, Assistant Professor, MECT, TCE

11. Mr.A.Prakash, Assistant Professor , MECT, TCE

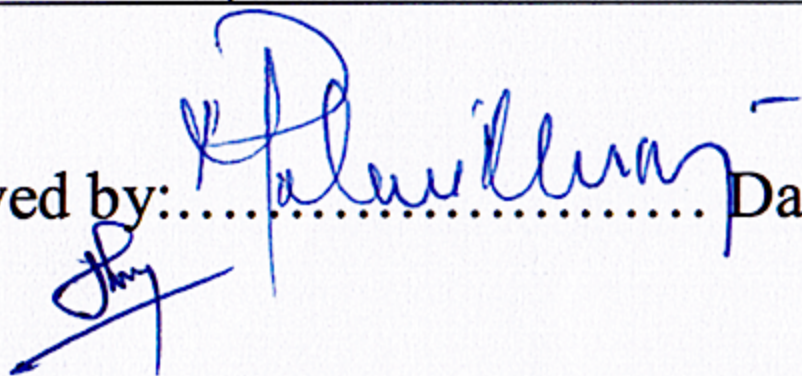
12. Mr.S.A.R.Sheik Masthan, Assistant Professor , MECT, TCE

| S.No. | Points discussed | Action Plan | Responsibility | Target date |
|-------|---|------------------------------------|--|-------------|
| 1 | 18MC210 Robotics Concepts and Analysis 1. D H parameter should to be taught simulation as well as theoretically. | Intimation to the course designers | Dr.G.Kanagaraj Mr.M..A. Ganesh | 13.12.2018 |
| 2 | 18MC260 Mechatronics System Design 1. A course on mechatronics system design shall be introduced in the 3 rd semester, after completion of all the relevant mechatronics related courses. 2. Mention No of hours required for laboratory experiments. | Intimation to the course designers | Dr G Kumaraguruparan Mr M.A Ganesh Mr. M.Manimegalan | 13.12.2018 |

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| | 3. First six experiments shall based on modelling and simulation and the remaining six experiments should have analysis with examples Eg: drone. 4. Duplication of robotics experiments should be avoided. Experiments repeating from Robotics Laboratory. 5. Hand on 3D Printing need to be included 6. Students should be able to end up building a mechatronics system with available infrastructure and resources. | | | |
| 3 | 18MC270 Sensors and Robotics Laboratory 1. Before doing experiments, pre-investigation needs to done through one or two pages write up on manufactures, price and other methods. 2. Application based exercises need to included. 3. Preparation of Strain gauge mounting need to be explained through experiments. | Intimation to the course designers | Dr.L.R.Karlmarx Mr M.A.Ganesh | 13.12.2018 |
| 4 | 18MCPC0 Internet of Things 1. Prerequisite sensors need to be added. 2. STM board open source H/W need to be included. | Intimation to the course designers | Mr.S. Parthasarathi Mr.M. Manimegalam | - |
| 5 | 18MCPD0 Virtual Instrumentation 1. Data acquisition module and its control part need to be included. 2. Tools and applications module interface with MATLAB, LABVIEW and python part need to be added. | Intimation to the course designers | Mr. S.A.R Sheik Masthan Mr. A.Prakash Mrs.S Sivapriya | 13.12.2018 |
| 6 | 18MCPE0 Machine Vision Systems 1. More Industrial applications need to be added. 2. IR lighting need to be included. 3. Smart camera needs to be included. | Intimation to the course designers | Mr. S.A.R Sheik Masthan Mr.B. Praveen Kumar | 13.12.2018 |
| 7 | 18MCPF0 MEMS Fabrication process should to be taught through software simulation. (Eg : COMSOL, Intellisuite) | Intimation to the course designers | Dr.G.Kumaraguruparan Mr.B. Praveen Kumar | 13.12.2018 |
| 8 | 18MCPH0 Automotive Electronics Battery management, infotainment system and v2x communication topic need to be included. | Intimation to the course designers | Mr.A.Prakash Mr.M. Manimegalam | 13.12.2018 |

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| 9 | 18MCPI0 Autonomous Mobile Robots Sensor fusion need to be added. | Intimation to the course designers | Mr. S. Julius Fusic Mr. M. Manimegalan | 13.12.2018 |
| 10 | 18MCPJ0 Intelligent Motion Control Drives 1. Intelligence need to be discussed in introduction part. 2. This course should be taught before mechatronics system design. | Intimation to the course designers | Mr H.Ramesh Mr.S.Julius Fusic | 13.12.2018 |
| 11 | 18MCPL0 Thermal Packaging for Electronics 1. Packaging aspects need to be added. 2. IEEE standard, data center and telecommunication cooling examples need to be included. 3. Design and selection of cooling fans need to be added. | Intimation to the course designers | Dr.G.Kumaraguruparan | 13.12.2018 |
| 12 | 18MCPN0 CNC Technology 1. Multi axis system taught in introduction of course. 2. Reference books need to be revisited. | Intimation to the course designers | Mr. H. Ramesh Mr.M.Manimegalan | 13.12.2018 |
| 13 | 18MCGA0 Value Engineering 1. Environmental aspects need to covered. 2. Reference books need to be revisited. | Intimation to the course designers | Dr. M. Palaninatha Raja | 13.12.2018 |

Prepared by: Mr.A.Prakash, Date: 10.12.2018

Approved by:  Date:



THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-15
(A Govt. Aided, Autonomous Institution affiliated to Anna University)
DEPARTMENT OF MECHATRONICS ENGINEERING

Date of the meeting: 08.12.2018

Name of the meeting: Board of Studies Meeting - M.E.Mechatronics

ATTENDANCE SHEET

| S.No | Name of the Member | Position of the member | Address of the member | Signature of the Member |
|------|-------------------------|------------------------|--|-------------------------|
| 1. | Dr.M. Ganapathi | External | Former Scientist, DRDO Former Vice President, Mahindra Sathyam, Bangalore 560 093. | |
| 2. | Dr.M.Kumar | External | Former Principal Engineer GE Health Care Bangalore | M. Kumar |
| 3. | Mr.T.R. Pothikan Suresh | External | Technical Architect BOSCH, Coimbatore | |
| 4. | Dr.M.Palaminatha Raja | Internal | Professor and HOD , Department of Mechatronics, Thiagarajar College of Engineering, Madurai-15 | P. Minatha Raja |
| 5. | Dr.G.Kanagaraj | Internal | Associate Professor, Department of Mechatronics, Thiagarajar College of Engineering, Madurai-15 | G. Kanagaraj |
| 6. | Dr.G.Kumaragurparan | Internal | Associate Professor, Department of Mechatronics, Thiagarajar College of Engineering, Madurai-15 | G. Kumaragurparan |
| 7. | Dr.L.R.Karlmarx | Internal | Associate Professor, Department of Mechatronics, Thiagarajar College of Engineering, Madurai-15 | L. Karlmarx |
| 8. | Mr.S.Julius Fusic | Internal | Assistant Professor, Department of Mathematics, Thiagarajar College of Engineering, Madurai-15 | S. Julius Fusic |



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| 9. | Mr. H.Ramesh | Internal | Assistant Professor, Department of Mechatronics, Thiagarajar College of Engineering, Madurai-15 | |
| 10. | Mr.S.Parthasarathi | Internal | Assistant Professor, Department of Mechatronics, Thiagarajar College of Engineering, Madurai-15 | |
| 11. | Ms.S.Siva Priya | Internal | Assistant Professor, Department of Mechatronics, Thiagarajar College of Engineering, Madurai-15 | S.Sivapriya |
| 12. | Mr.M.A.Ganesh | Internal | Assistant Professor, Department of Mechatronics, Thiagarajar College of Engineering, Madurai-15 | |
| 13. | Mr.M.Manimegalan | Internal | Assistant Professor, Department of Mechatronics, Thiagarajar College of Engineering, Madurai-15 | P. Manimegalan |
| 14. | Mr.B.Praveen Kumar | Internal | Assistant Professor, Department of Mechatronics, Thiagarajar College of Engineering, Madurai-15 | |
| 15. | Mr.A.Prakash | Internal | Assistant Professor, Department of Mechatronics, Thiagarajar College of Engineering, Madurai-15 | |
| 16. | Mr.S.A.R.Sheik Masthan | Internal | Assistant Professor, Department of Mechatronics, Thiagarajar College of Engineering, Madurai-15 | |