



# THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI-15

(Govt. Aided Autonomous Institution affiliated to Anna University)

DEPARTMENT OF MECHANICAL ENGINEERING

MECHATRONICS PROGRAMME

MINUTES OF THE MEETING

**Date of the meeting: 08.11. 2014**

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

**Attended by:**

1. Dr. Ashok Rao	- External	21. Dr. M. Elango	- Member
2. Dr.J. E. Diwakar	- External	22. Mr. A. Samuel Raja	- Member
3. Mr. S. Ananthkumar	- External	23. Mr. J. Umar Mohammed	- Member
4. Mr. S. Sivakumar	- External	24. Mr.M.Kannan	- Member
5. Mr. Visweswaran Jagadeesan	- External	25. Mr. MS. Govardhanan	- Member
6. Mrs. Visalakshi Arun Kumar	- External	26. Mr.B.Brucelee	- Member
7. Mr. William Thangaraj	- External	27. Mr. S. Julius Fusic	- Member
8. Dr .N. Jawahar	- Member	28. Mr. T. Prakash	- Member
9. Dr. M. Palaninatharaja	- Member	29. Dr. K. Hariharan	- Member
10. Dr. S. Muralidharan	- Member	30. Dr. A. Banumathi	- Member
11. Dr. K. Chockalingam	- Member	31. Dr.L. R. KarlMarx	- Member
12. Dr. PL.K. Palaniappan	- Member	32. Dr. T. Aruna	- Member
13. Dr. M.Kathiresan	- Member	33. Dr. M. N. Suresh	- Member
14. Dr. K. Srihar	- Member	34. Dr. R. Helen	- Member
15. Dr. G. Kumaraguruparan	- Member	35. V. Mahesh.	- Member
16. Mr. V. Balasubramani	- Member	36. P. Vairaprakash	- Member
17. Dr. G. Kanagaraj	- Member	37. Dr. G. S. R. Emil Selvan	- Member
18. Dr. S. Karthikeyan	- Member	38. Dr. C. S. Senthilkumar	- Member
19. Dr. S. Saravana Perumaal	- Member	39. Dr. V. Velkannan	- Member
20. Mr. T. Vivek	- Member	40. Dr. S. Rajathi	- Member

### **Points Discussed:**

The following points were discussed and passed, incorporating the suggestions given by the experts as given in Annexure I:

- The Scheduling of courses for M.E Mechatronics for the students admitted from 2014-15 onwards.
- Syllabi of second semester subject for the students admitted from 2014-15 onwards.
- List of elective subjects.



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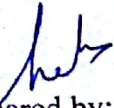
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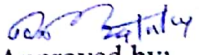
### **Annexure I**

<b>S.No</b>	<b>Point discussed</b>	<b>Action Plan</b>	<b>Responsibility</b>	<b>Target Date</b>
<b>Syllabi for the student admitted from 2014-15</b>				
1.	<b>14MC210-Real Time Embedded System</b> <ul style="list-style-type: none"><li>Members suggested that content of real time Operating System to be taught with help of industrial software.</li><li>They also suggested to incorporate practical application of RTOS and not concentrate on theory of RTOS working</li></ul>	Suggestions incorporated	Convener and course designers.	21.11.14
2.	<b>14MC220- Micro Electro Mechanical Systems</b> <ul style="list-style-type: none"><li>Members suggested that content should be reduced.</li><li>To introduce practical flavor in the subject</li><li>Applications should be dealt first and gradually theory involved in those application to be introduced.</li></ul>	Suggestions incorporated	Convener and course designers.	21.11.14
3.	<b>14MC230- Microcontroller and PLC</b> <ul style="list-style-type: none"><li>To Include ARM architecture</li></ul>	Suggestions incorporated	Convener and course designers.	21.11.14

S.No	Point discussed	Action Plan	Responsibility	Target Date
4.	<b>14MC240- Wireless Networks</b> <ul style="list-style-type: none"> <li>To change the title as Data Communication Networks</li> <li>To replace protocols instead of layer</li> <li>To include network interfacing, machine to machine communication and data communication</li> <li>To Study about industrial network standards such as I2C, CAN and Zigbee</li> </ul>	Suggestions incorporated	Convener and course designers.	21.11.14
5.	<b>14MCPD0 – Machine Vision and Applications</b> <ul style="list-style-type: none"> <li>To include application which comes in close loop</li> <li>To introduce more depth in Image processing.</li> </ul>	Suggestions incorporated	Convener and course designers.	21.11.14
6.	<b>14MCPU0 – Virtual Instrumentation</b> <ul style="list-style-type: none"> <li>To remove ISA, EISA buses concept</li> <li>IC engine based data acquisition concepts to be introduce as practice</li> </ul>	Suggestions incorporated.	Convener and course designers.	21.11.14
7.	<b>14MC250- Microcontroller Lab</b> <ul style="list-style-type: none"> <li>Members suggested to include Raspberry pi, ARM experiments</li> <li>Members suggested to introduce CAN protocols and CAN bus experiments.</li> <li>Members suggested including speed control using Tacho generator and Speedometer.</li> </ul>	Suggestions incorporated	Convener and course designers.	21.11.14
8.	<b>Elective Papers</b> <ul style="list-style-type: none"> <li>Members also suggested incorporating modeling and simulation, unmanned aerial vehicle, Robotics and CIM, as elective subjects to fill the gap in Mechatronics curriculum.</li> </ul>	Suggestions incorporated	Convener and course designers.	21.11.14

Prepared by: 

Date: 24.11.14

Approved by:   
f.H.P.M.E

Date: 24.11.14