



DEPARTMENT OF MECHATRONICS ENGINEERING
MINUTES OF THE FOURTH MEETING OF BOARD OF STUDIES

Venue : Teleconference mode-Google Meet

Date : 11.06.2021

Time : 11:00 AM

Members Present:

S. No.	Name and Designation	Position in Committee
1.	Dr.K.Manikanda Subramanian, Professor & Head of the Department Department of Mechatronics Engineering, Coimbatore Institute of Engineering & Technology, Coimbatore.	Chairman
2.	Dr.P.K.Palani, Professor, Department of Mechanical Engineering, Government College of Engineering, Bargur, Krishnagiri.	University Nominee
3.	Dr.B.Vinod, Professor & Head Department of Robotics and Automation Engineering, PSG College of Technology, Coimbatore..	Subject Expert
4.	Dr.Sanjivi Arul, Associate Professor, Department of Mechanical Engineering, Amrita Vishwa Vidyapeetham School of Engineering, Coimbatore.	Subject Expert
5.	Mr.T.Viswanathan, Chief Technical Officer, Maxbyte Technologies, Coimbatore.	Industry Representative
6.	Mr.R.Velkumar, Senior IoT Engineer, Maxbyte Technologies, Coimbatore.	Alumni
7.	Mr.K.Senthilkumar, Assistant Professor,	Member

	Department of Mechatronics Engineering, Coimbatore Institute of Engineering & Technology, Coimbatore.	
8.	Mr.B.Avinash, Assistant Professor, Department of Mechatronics Engineering, Coimbatore Institute of Engineering & Technology, Coimbatore.	Member
9.	Mr.M.Mohandass, Assistant Professor, Department of Mechatronics Engineering, Coimbatore Institute of Engineering & Technology, Coimbatore.	Member
10.	Ms.S.Sharmila Assistant Professor, Department of Mechatronics Engineering, Coimbatore Institute of Engineering & Technology, Coimbatore.	Member
11.	Mr.V.Arunprasath Assistant Professor, Department of Mechatronics Engineering, Coimbatore Institute of Engineering & Technology, Coimbatore.	Member
12.	Ms.J.Lidwina Jennifer Assistant Professor, Department of Mechatronics Engineering, Coimbatore Institute of Engineering & Technology, Coimbatore.	Member
13.	Mrs.H.Illakiah, Assistant Professor, Department of Mechatronics Engineering, Coimbatore Institute of Engineering & Technology, Coimbatore.	Member
14.	Mr.R.Parthiban, Assistant Professor, Department of Mechatronics Engineering, Coimbatore Institute of Engineering & Technology, Coimbatore.	Member

Agenda:

- i. Approval of Syllabi for the categories Professional Core (PC) and Professional Elective (PE) for regulation 2019 under CBCS for the batch of students to be admitted in the academic year 2019-20 onwards.
- ii. Approval of fifth and sixth semester courses and syllabi for the third year students admitted in the academic year 2019-20 under Regulation 2019.
- iii. Any other matter with the permission of the chair.

The meeting commenced with welcome address by the Chairman, Dr.K.Manikanda Subramanian. Then various items of agenda were taken up for discussion and after detailed discussion, the following suggestions were given by the members of board of studies.

- i. Course objectives may describe learning goals and course outcomes may describe the purpose of the study
- ii. Latest version of text books and reference books to be followed and the same to be updated in the syllabus
- iii. The following corrections to be done in the syllabus of the course “ PLC and Automation”
 - Portions of Unit 1 should be changed and PLC related topics to be added
 - Course Outcome 3 should be changed
 - The term ‘PLC’ present in the lab experiment title to be removed
 - A new text book titled “Industrial Automation with SCADA: Concepts, Communications and Security” may be added
- iv. The following corrections to be done in the syllabus of the course “ Industry 4.0”
 - IOT related topics should be removed and add more topics relevant to smart manufacturing
 - Change the title of the subject as ‘Smart Manufacturing’ if possible
- v. The following corrections to be done in the syllabus of the course “Power Electronics and Drives”
 - Make first four units of power electronics devices into three units and also split the fifth unit into two separate units as AC drives and DC drives
 - Add some automation related topics like ‘motor drives’ into the units AC drives and DC drives
 - Reduce the count of textbooks
 - Add drives related experiments in laboratory exercises
- vi. The following correction to be done in the syllabus of the course “Medical Mechatronics”
 - Include the biosensor topics like blood glucose sensor and pulse oximetry
- vii. The following corrections to be done in the syllabus of the course “Virtual Instrumentation”
 - Pre-Requisites should be changed as sensor and interfacing
 - Topics like Image Processing and Motion Control should be added in Unit 5
 - Number of credit points for practical to be increased also reduce the number of lecture hours
 - National Instruments LabVIEW manual published on April 2003 should be included in the reference book
- viii. The following corrections to be done in the syllabus of the course “Fluid Power System and Automation”
 - Software used for the simulation of hydraulic and pneumatic has to be mentioned

- Pneumatic valves topic has to be included in the syllabus
 - Simulation of Electro-pneumatic circuits has to be included instead of electrical circuits
 - Pre-Requisites may not be required for this subject
- ix. Swap the courses “Computer Aided Design and Manufacturing” in the 7th semester with “Total Quality Management” in the 6th semester if possible
- x. The following corrections to be done in the syllabus of the course “Object Oriented Programming”
- Java programming concepts to be included for developing web and IOT applications
 - Get approval from CSE BOS committee
- xi. The following corrections to be done in the syllabus of the course “Design of Mechatronics System”
- Software related topics and laboratory experiments may be added in 5th unit

After much deliberations, the following resolutions were passed.

Item 1.1: Resolved to approve the course and syllabi for the categories Professional Core (PC) and Professional Elective (PE) for regulation 2019 under CBCS for the batch of students to be admitted in the academic year 2019-20 onwards.

Item 1.2: Resolved to approve the course and syllabi of fifth and sixth semester syllabi for the third year students admitted in the academic year 2019-20 under Regulation 2019.

Since there were no other points to be discussed, the Chairman thanked all the members of the Board of Studies for their active participation, valuable suggestion and contribution made for recommending the syllabi for the categories Professional Core (PC) and Professional Elective (PE) for regulation 2019.

The meeting concluded by 12.30 P.M.



CHAIRMAN

