

Department of Mechatronics Engineering

KPR Institute of Engineering and Technology



3rd Board of Studies Meeting

Venue: Daffodil Hall (Hybrid mode)

Date: 05.05.2023

Meeting ID: 943 5167 6918

Time: 10.00 am

Agenda:

To discuss and pass

- Discussion on the minutes of previous BoS meeting and action taken.
- Curriculum and syllabi for III to IV semesters of UG programme under Regulations 2021.
- Open electives offered to other branches under Regulations 2021.
- MOOC/Online Courses
- Industry oriented courses (one credit courses)
- Value added courses.
- Industrial Training / Internship
- Any other matter brought by the Chair.

Members Present:

S.No	Name of the member with designation	Category	Signature
1	Dr. R. Kiruba Shankar Professor & Head Department of Mechatronics Engineering KPR Institute of Engineering and Technology.	Chairperson	
2	Dr. S. Ayyappan Associate Professor Department of Mechanical Engineering Government College of Technology, Coimbatore	University Nominee	
3	Dr. T. Asokan Professor Department of Engineering Design Indian Institute of Technology Madras Chennai	Subject experts from outside Anna University-1	Online
4	Dr. B. Ashok Associate Professor Department of Automotive Engineering School of Mechanical Engineering Vellore Institute of Technology Vellore.	Subject experts from outside Anna University-2	Online

Department of Mechatronics Engineering

KPR Institute of Engineering and Technology



S.No	Name of the member with designation	Category	Signature
5	G. V. Devadas Director AAttek Robo Private Limited Coimbatore.	Industry Expert	
6	Shrihariprasath Basuvaiyan Technical Specialist ZF Technology Centre, Hyderabad.	Alumni	Online
7	Dr Shahbaz Ahmed Siddiqui Professor & Head Department of Mechatronics Engineering Manipal University, Jaipur.	Special Invitee- 1	Online
8	Dr. Raguraman Munusamy Assistant Professor Department of Mechanical Engineering IIITDM Kancheepuram, Chennai.	Special Invitee- 2	
9	Dr R Sampathkumar Assistant Professor (SI.G.) Department of Mechatronics Engineering KPR Institute of Engineering and Technology.	BoS Member	 5/5/23
10	Mr K Saravanan Assistant Professor (Sr.G.) Department of Mechatronics Engineering KPR Institute of Engineering and Technology.	BoS Member	 5/5/23
11	Mr Arpit Anil Panwar Assistant Professor (Sr.G.) Department of Mechatronics Engineering KPR Institute of Engineering and Technology.	BoS Member	 5/5/23

Minutes of the 3rd Meeting of The Board of Studies:

The meeting started with the Chairman, Dr.R.Kiruba Shankar, HOD, Department of Mechatronics Engineering welcoming the members of the Board of Studies and presented the Vision, Mission, POs, PEOs, PSOs, Curriculum for all semesters, syllabi for III & IV semester and Syllabi for open elective courses offered to other departments of UG programme under regulations 2021.

Following points were discussed at the Board of Studies,

RESOLUTIONS:

1. Action taken on the minutes of the 2nd BoS meeting:

The minutes of the 2nd BoS meeting and the action taken thereon are approved. The following corrections has incorporated and updated,

- Vision and Mission of the Department were approved after incorporation of suggestions such as to include 'Academic' alongside 'Industry and R&D' and 'Emerging Technologies' with 'Entrepreneur'.
- PEO's and PSO's were coined and approved
- Course title of Engineering Drawing(U21MT101) has been changed in to Engineering Graphics (U21MEG01)
- Introductions to Electrical and Electronics course has been introduced instead of Elements of Mechatronics course in II semester.

2. The Curriculum and syllabi for III and IV Semesters of UG Programme under Regulations 2021

Resolved to approve the following recommendation may be passed to the standing committee of the Academic Council. The curriculum and syllabi for III & IV Semesters of UG Programme under Regulations 2021 be passed with the following suggestions.

(i) III Semester:

- Kinematics of Machinery- Include one advanced textbook.
- Sensor and Signal Processing- Introduce signal conditioning alongside signal processing.
- Manufacturing Processes- Change the unit IV title from Advanced Manufacturing Process to Non-Conventional Manufacturing Processes. Also, Basics of CAD/CAM/CIM can be a part of this course.

Department of Mechatronics Engineering

KPR Institute of Engineering and Technology



- Electrical Drives and Actuators- Introduce more content on Actuators (or change the course title as Electrical Drives and Control)
- Electron Devices and Digital Circuit- Change 'Electron' to 'Electronic' in the subject title.

(ii) IV Semester

- Dynamics of Machinery- Change 'Mechanism' to 'Mechanisms' in unit V.

(iii) Swapping of courses between II and III year was recommended.

- 'CNC and Metrology Laboratory' course could be moved from closer to "Manufacturing Processes subject.
- Introduce "Design of Mechatronics System in V semester rather than VI semester.

(iv) V Semester

- 'Drone and UAV Technology' can be changed to 'Drone Technology'.

(v) VI Semester

- 'Electric and Hybrid Technologies in Automobile' can be changed to 'Electric and Hybrid Vehicle'.

3. Open Elective Courses offered to other departments

Following are the suggestions given by BoS members regarding Open Elective courses offered by the department of Mechatronics Engineering which shall be presented to the standing committee of the Academic Council for discussions.

- (i) MEMS & NEMS- Change 'Micro System' to 'Microsystem' in unit II and III. Similar change was asked in 'micro manufacturing'.

4. Industry inputs on Curriculum Design

Following are the suggestions given by industry members:

- (i) Adding other coding languages alongside CAD/CAM software was recommended.

5. Any other matter brought by the Chair

It is resolved that the following recommendations may be passed to the standing committee of the Academic Council.

Department of Mechatronics Engineering

KPR Institute of Engineering and Technology



- (i) Vertical IV- 'Intelligence Systems' can be changed to 'Intelligent Systems'.
- (ii) Vertical VI- 'Guidance and Control' can be changed to 'Guidance and Control of Avionics'
- (iii) Vertical III- 'Vehicle Dynamics and Control' can be changed to 'Vehicle Dynamics'
- (iv) Uniform number of courses can be offered in every vertical.

Chandrasekhar
5/5/23

Chairman – BoS/MI