



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

S.P.G.Chidambara Nadar - C.Nagammal Campus

S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

DEPARTMENT OF MECHATRONICS ENGINEERING
Minutes of Meeting – BoS–17th September, 2022

DATE: 17th September, 2022, Saturday

Time: 2:00PM to 4:00 PM

PLATFORM: Hybrid Mode (Physical /Microsoft Teams)

Meeting Link:

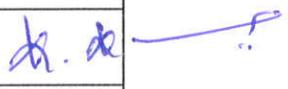
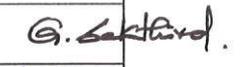
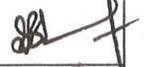
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IN ATTENDANCE:

S.No	Name of the Expert	Designation	Capacity	Mode Of Attending
1.	Dr.S.Supriya,	Professor& Head, Department of Mechanical Engineering, Government College of Engineering, Tirunelveli. supriya@gcetly.ac.in Ph.No:9366766668	AU Nominee	Offline
2.	Dr. T. Asokan	Professor & Head, Department of Engineering Design, Indian Institute of Technology Madras, Chennai – 600036 asok@iitm.ac.in Ph: 22574707	Academic Council nominated BoS Members	Online

3.	Dr. N. Selvaraj	Professor, Department of Mechanical Engineering, National Institute of Technology Warangal, Telangana-506004 selva@nitw.ac.in Ph:9989231847		Online
4.	Dr. D. Kannadassan	Associate Professor, Center for Nanotechnology Research, Vellore Institute of Technology, Vellore-600 014 dkannadasan@vit.ac.in Ph:91-9944055243	Alumni Member	Offline
5.	Dr. N. Manivannan	Managing Director, Techland Automation, 196 Dindigul main road, Tiruchirappalli – 620001. info@techland.in Ph:9994304608	Industrialist	Offline

FACULTY OF MECHATRONICS ENGINEERING	MEMBERS
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S.No	Name of the Faculty	Designation
1	Dr. K. Kannan	Professor 
2	Dr.S.Rajeshbabu	Assistant Professor 
3	Dr. G. Sakthivel	Assistant Professor 
4	Mr. A. Arul Kumar	Assistant Professor 
5	Mr. P. Balasundar	Assistant Professor 
6	Mr. S.DavidBlessley	Assistant Professor 
7	Mr. S.Wesley Moses Samdoss	Assistant Professor 
8	Mr. A. Ganesan	Assistant Professor 

1. Meeting was organized in Hybrid mode – (Offline & Microsoft Teams platform) at 2.00pm.
2. Dr.K.Kannan, Professor & HoD/MTRE gave welcome address to all the members of the Board of Studies.

Discussions:

BOS 005.01

Dr. K. Kannan disseminated the Vision, Mission, and PEOs& PSOs of the Department.

Vision of the Department	Mission of the Department
To make the Department of Mechatronics Engineering the unique of its kind in the field of Research and Development towards Industrial Automation & Robotics.	To impart highly innovative and technical knowledge in Mechatronics Engineering to the urban and unreachable rural student folks through "Total Quality Education"

Program Educational Objectives (PEOs)

PEO1: Graduates will be able to apply their multi-disciplinary knowledge to formulate, design, develop and analyse Mechatronics Systems.

PEO2: Graduates will be able to come up with solution for any real time problems in the field of Mechatronics Engineering and allied areas demanded by the Industry and Society.

PEO3: Graduates will be able to get familiarized with economical issues in Mechatronics Engineering and work in multi-disciplinary teams with ethical code of conduct.

Program Specific Objectives (PSOs)

PSO1: Graduates will be able to apply their knowledge in sensors, drives, actuators, controls, mechanical design and modern software & hardware tools to design and develop cost effective Mechatronics systems.

PSO2: Graduates will be able to become Technocrats and Entrepreneurs, build the attitude of developing new concepts on emerging fields and pursuing higher studies.

BOS 005.02

Dr. K. Kannan gave a brief presentation for the Approval of the Minutes of the IV BoS held at 19th March 2022.

All the members jointly approved the Minutes of the Fourth Board of Studies meeting.

BOS 005.03

Dr. K. Kannan presented the R2020 - IV Year curriculum and syllabus for discussion and approval.

The following suggestions were given by the BOS Members:

- Dr.N.Selvaraj, gave suggestions in the Subject Computer Aided Design and Manufacturing Unit-IV the Computer Aided Part Programming need to be changed as Computer Aided Part Programming Language. In Unit V Cellular Manufacturing and Flexible Manufacturing Systems syllabus is huge. So he asked to highlight only fundamentals. Group Technology (Computer Aided Process Planning) topic can be removed from the syllabus.
- Dr. T. Asokan & Dr.N.Selvaraj suggested to use the Software Packages which are most commonly used in industries such as CATIA which is useful to the students.
- Dr. T. Asokan discussed about the syllabus of Robotics and Machine Vision System Lab. He suggested Position of Links experiment is inappropriate so it can be renamed. Also he clarified about the availability of robotics trainer kit.
- In Project work all the BoS members clarified about the mandate to publish their work in conferences.
- In the subject Mobile and Autonomous Robots members Dr.T.Asokan & Dr.N.Manivannan suggested to add little bit topics which are covering the Autonomous Robots.
- In Professional Elective-IV the member Dr.N.Selvaraj suggested the recent reference and text books for the subject Synthesis and Characterization of Nano Materials. Members Suggested to the contact hours for Unit –II and III may change based on the weightage.
- Dr.N.Selvaraj suggested the recent reference and text books for the subject principles of management.
- Dr.N.Selvaraj suggested the “Value Education for Engineers” book may include as reference book for the subject Professional Ethics and Human Values.

- Dr.N.Manivannan suggested to include ESP8266 USB Drivers in the subject Internet of Things for Mechatronics Engineering.
- Dr.N.Selvaraj suggested to introduce the Industrial Internet of Things in Unit-I.

BOS 005.04

Dr. K. Kannan presented the details of Value Added Course Conducted for III Year Mechatronics Engineering students.

The members advised the three members committee to choose the Value added courses as per current trends and skills requirement for core industries.

BOS 005.05

Dr. K. Kannan presented the NPTEL Courses for Odd & Even Semester and seeking recommendation from BoS members and the progress of Odd Semester Course undergone.

Dr.T.Asokan clarified about the faculty mentors for NPTEL Courses.

BOS 005.06

Dr. K. Kannan presented the modified Curriculum Framework R2021 as per AU revised R2021 Curriculum and incorporated the National Education Policy to members and seeking their approval.

Audit Courses:

All the BoS Members jointly approved the Audit Course Scientific Thoughts in tamil offered in R2021 Curriculum. However all the members suggested to offer this course during the IV Semester for the students those who are admitted in 2021-2025 Batch.

All the BoS Members discussed about the credits to the Audit Course.

Dr.S.Supriya, Anna University Nominee clarified Audit Course Credits will not calculated in CGPA Calculation.

Dr. K. Kannan highlighted the modification in Curriculum Framework R2021. All the BoS Members discussed in detail about the Multiple Entry Multiple Exit Scheme, Honours Degree, Minors Degree.

All the Members discussed in detail about the Internship / MiniProjects.

Dr.K.Kannan clarified about the evaluation procedures for the Internship/Mini Projects.

Dr.T.Asokan asked about the in-house or industrial projects.

Dr.K.Kannan clarified as Mini Projects are in house project, Project Work is in industries.

All the BoS members discussed in detail about the interchange of Courses during their VII & VIII Semester.

All the BoS Members suggested if all the students opt to interchange the courses may interchange, and then only it is technically feasible to interchange.

Professional Elective Courses Verticals

- **Dr. K. Kannan** presented the List of Professional Elective Courses to be offered to the students.
- **Dr.T.Asokan** asked our faculty members to take more concentration in framing the syllabus to Professional Elective Course Verticals.
- **Dr.N.Selvaraj** suggested to look in previous curriculum and if any important courses missed out means asked to include in that in R2021.
- All the BoS Members discussed in detail about the different verticals and the role of verticals in awarding the honours degree/minor degree.
- All the BoS Members suggested relooking at the verticals framed and looking at the different possibilities of students entering in to this minor degree program.
- All the BoS Members asked our Faculty Members to look in to the what are the essential skills (including fundamentals) required to give minor degree and frame the syllabus accordingly. All the Members suggested it's our responsibility to implement government policies in Education system.
- **Dr.T.Asokan** ensured the subjects Mechanics, Computer Aided Design in the Curriculum since it is essential to mechatronics students.
- In Semester –IV, **Dr.T.Asokan** clarified about the Engineering Aptitude or Quantitative Aptitude, he recommended to include that in curriculum.
- **Dr.N.Selvaraj** enquired about the CAD/CAM Theory Core Course, So all the BoS members suggested to include that subject in theory.
- **Dr.T.Asokan** enquired about the limitation or any other constraints on number of lab courses in each semester. Since in sixth semester four lab courses included in the curriculum.

Open Electives:

- **Dr. K. Kannan** presented the List of Open Elective Courses to be offered to our students.
- **Dr. K. Kannan** presented the List of Open Elective Courses to be offered by our department to other students.

Dr.T.Asokan Suggested renaming the subject Digital Electronics and Microprocessor as Digital Electronics and Microprocessors for clarity.

All the BoS Members jointly approved the proposed R2021 Curriculum & framed IVth Semester Syllabus.

BOS 005.07

The BoS Coordinator Mr.A.Arulkumar AP/MTRE Proposed the vote of thanks.



BoS Coordinator



UG Coordinator



(Dr.K.Kannan)
BoS Chairman
HoD/MTRE