

# SONA COLLEGE OF TECHNOLOGY, SALEM

(An autonomous Institution)

## Department of Mechatronics Engineering

Dr.P.Suresh

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Chair-Person, Board of Studies.

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Lr.No. SCT/PRL/2021-2022/MCT/BoS/

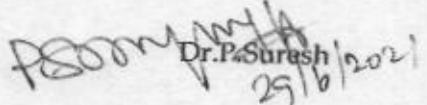
Date: 29.6.2021

**Sub: Sona College of Technology – Mechatronics 7<sup>th</sup> Board of Studies Meeting (Online mode) –Minutes.**

I thank the members for their presence and valuable suggestions in the -7<sup>th</sup> Meeting of the Board of Studies for Mechatronics Engineering held on 19<sup>th</sup> June 2021 at 10.30 am.

Please find enclosed copy of minutes of the 7<sup>th</sup> meeting of the Board of Studies for Mechatronics Engineering.

Yours Sincerely,

  
Dr.P.Suresh  
29/6/2021  
Chairperson

Mechatronics Engineering

Encl: Minutes of Meeting

Copy to:

1. Dr.S.R.R Senthil Kumar, Principal &Chair, Academic Council, Sona College of technology, Salem.
2. Dr.J.Alilandeswari, Dean-Academics, Sona College of technology, Salem.
3. Dr.Shivakumar, Academic Council, Sona College of technology, Salem.
4. Dr.S.Radjarejesri, Controller of Examination, Sona College of technology, Salem.
5. Dr.G.B.Bhaskar, Associate Professor, Production Technology, Madras Institute of Technology, Chennai.
6. Dr.R.Vijayan, Principal I/c, Government College of Engineering, Tanjavur.
7. Dr.R.Venkatesan, Professor, Mechatronics Engineering, Kumaraguru College of Technology, Coimbatore.
8. Mr. S.Kalaiyarasan, Technical Lead, Senior software Engineer, Lennox India Technology limited, Chennai.
9. Mr. M.Nareshkumar, Product Owner, Siemens Technology and Services Pvt Ltd, 84 keonics, electronic city phase 1,Bangalore -560100.
10. Mr. N. Senthil Kumar, Senior Hardware Discipline Engineer (Electrical),Dow Chemical International Private Ltd, Tamarai Tech Park, SP Plot no. 16-19 & 20, Thiru Vi Ka Industrial Estate, Guindy, Chennai-600032.
11. Internal Members-Board of Studies-Mechatronics Engineering.
12. File-BoS-Mechatronics Engineering.

**SONA COLLEGE OF TECHNOLOGY, SALEM**  
**(An autonomous Institution)**  
**Department of Mechatronics Engineering**

**Mechatronics Engineering 7th Board of Studies Meeting on 19.6.2021 –Minutes**

The following members were present for conducting 7th Board of Studies meeting in Mechatronics Engineering department UG program.

SLNo	Name, Designation and Affiliation	Role
1.	Dr.P.Suresh Head-Mechatronics Engineering Department Sona College of Technology, Salem-11	Chair-Person BoS Mechatronics Engineering
2.	Dr. G.B. Bhaskar, Associate Professor, Department of Production Technology, Madras Institute of Technology, MIT Road, Radha Nagar, Chromepet, Chennai-600044	University Nominee
3.	Dr. R. Vijayan, Principal i/c, Government College of Engineering, Sengipatti Thanjavur-613402.	Subject Expert
4.	Dr. R. Venkatesan Professor, Department of Mechatronics Engineering, Kumaraguru College of Technology, Coimbatore 641049.	Subject Expert
5.	Mr.S.Kalaiyaran, Technical Lead, senior software Engineer, Lennox India Technology limited, Chennai.	Industry Expert
6.	Mr.M.Nareshkumar, Product Owner Siemens Technology and Services Pvt Ltd 84 keonics, electronic city phase 1 Bangalore -560100	Industry Expert
7.	Mr.N. Senthil Kumar, Senior Hardware Discipline Engineer (Electrical), Dow Chemical International Private Ltd, Tamarai Tech Park, SP Plot no. 16-19 & 20, Thiru Vi Ka Industrial Estate, Guindy, Chennai, Tamil Nadu 600032.	Alumni
8.	Dr.R.Shivakumar, Member secretary, Academic Council, Sona College of Technology, Salem.	Member secretary, Academic Council
9.	Prof. G. Sudharsan,	Member

	AP/ Mechatronics, Sona College of Technology, Salem.	
10.	Prof. A. Sivalingam, AP/ Mechatronics, Sona College of Technology, Salem.	Member
11.	Prof. T. Vijayalakshmi, AP/ Mechatronics, Sona College of Technology, Salem.	Member
12.	Prof.P.Mohankumar, AP/ Mechatronics, Sona College of Technology, Salem.	Member
13.	Mr. J. Dhayanithi, AP/CSE, Sona College of Technology, Salem.	Member
14.	1.Ajay Jorden V, III Year/MCT 2.Thibiga R, III Year/MCT	Current students in the third year

The following points were discussed.

- The Chair-person, HOD/Mechatronics Engineering Department welcomed all board of studies members.
- **Regulation-2015R:**
  - Dr.P.Suresh explained the 2015R curriculum components and its credit structure followed by the review of semester I – VI curriculum.
  - Chair-person explained the VII Semester curriculum for approval from the members and he started to explain the VII semester courses syllabi from "Professional ethics and human values" course which was approved by BOS-FC.
  - Dr.G.B.Bhaskar asked about robot programming and machine vision & computer vision concept in the course "Robotics". Dr.P.Suresh answered that the image processing and computer vision is given as elective course.
  - Mr.S.Kalaiyaran suggested that to include the concept of communication between robots in unit-V. Dr.P.Suresh replied that will be incorporated.
  - Mr.M.Nareshkumar asked the depth of electronics knowledge for mechatronics engineering curriculum. Prof.A.Sivalingam explained that the electronics based courses from II semester to VI semester.
  - Mr.S.Kalaiyaran suggested to use simulation software for giving practical exposure about the course " Micro electro mechanical systems". Dr.P.Suresh asked to suggest the simulation software. Mr.S.Kalaiyaran suggested to use MAT Lab.
  - Mr.M.Nareshkumar suggested to offer knowledge about Machine learning since it's an emerging area. Dr.P.Suresh replied that one credit course on Artificial intelligence and machine learning has been planned to offer in forthcoming semester.

- Mr.M.Nareshkumar suggested to provide medical image processing. Dr.P.Suresh replied that was included in Unit-V of the course "Image processing and computer vision".
- Mr.S.Kalaiyaran suggested to include the reliability concept in the course "Industrial Engineering". Prof.G.Sudharsan replied that was included in Unit-V of that course.
- Dr.R.Venkatesan asked that any open elective course offered by industry experts. Dr.P.Suresh replied that 3 credit industry oriented course "Embedded & IOT Programming" by the experts from Tessolve has been approved and the same will be conducted in forthcoming semester.
- Mr.S.Kalaiyaran suggested to include lean manufacturing concept in the course "Total quality management". Dr.P.Suresh accepted and that will be included in Unit-II.
- Mr.M.Nareshkumar asked the availability of collaboration between robot and PLC in "Robotics laboratory". Prof.T.Vijayalakshmi replied that PLC kit were available in the laboratory.
- Dr.P.Suresh explained about Technical seminar in the curriculum which will support the student employability.
- Dr.J.Akilandewari asked about the number of professional elective courses in VII sem. Dr.P.Suresh replied that the NPTEL course was one of the professional electives and 10 courses are offered as department professional electives.
- Dr.P.Suresh explained about the open elective course offered by Mechatronics Engineering department for other department students in VII semester and explained the content of course "3D Printing technology" which was already approved in last BOS meeting.

➤ **Regulation-2019:**

- Dr.P.Suresh reviewed semester I-IV of the Regulation 2019 curriculum and started to explain the V semester curriculum.
- Dr.R.Venkatesan asked that whether the course "Engineering Graphics" conducted through manual drafting or software. Dr.P.Suresh replied that the course is conducted by both manual and computer aided drafting.
- Dr.R.Vijayan suggested to include introduction about vibration in the course "Theory of machines". Dr.P.Suresh replied that will be included in either unit- III or IV.
- Dr.J.Dhayanithi explained the course "Data structure using Python". Mr.S.Kalaiyaran suggested to include the concepts on detection and debugging of errors. Dr.J.Dhayanithi replied that will be taught in content beyond syllabus.

- Dr.J.Akilandeswari suggested to offer that the course "Data structure using Python" as lab integrated theory course to impart the practical skill to the students.
- Mr.M.Nareshkumar and Dr.R.Venkatesan asked about the availability of equipments in "Industrial Automation laboratory". Prof.P.Mohankumar answered that the equipments are available as per Anna university norms.
- Dr.P.Suresh told that the "Mini Project-I" has been added in the V semester to motivate the student to get more practical knowledge. Dr.R.Venkatesan suggested that to insist the students to carryout sensors and instrumentation related projects as Mini-project.
- Dr.P.Suresh informed the members that the V semester students under 2019 regulation must study the NPTEL-SWAYAM course as one of the professional elective. Also, he explained the evaluation method and credit transfer as per AICTE circular.
- Dr.R.Vijayan asked about that Internship/In-plant training and told that the importance of industry exposure. Dr.P.Suresh replied that the students were motivated to undergo online Internship and it followed by separate coordinator.
- Mr.N. Senthil Kumar appreciated that the formulation of Mechatronics Engineering curriculum.
- Dr.P.Suresh, Chair-Person, BoS, Mechatronics thanked all the members for their presence and valuable suggestions. The meeting came end at 12.15 pm.

*P.Suresh*  
Dr.P.Suresh 29/6/21

Chair-Person/BoS, Mechatronics Engineering  
Sona College of Technology, Salem-5.

29.6.2021