

Sri Venkateswara College of Engineering
(Autonomous Institution, Affiliated to Anna University Chennai)

Pennalur, Sriperumbudur Tk - 602 117

Minutes of Meeting of Board of Studies for Faculty of Electrical and Electronics Engineering & Faculty of Electronics and Communication Engineering held on September 15th, 2021.

The First meeting of Board of Studies in the academic year 2021-22 for Electrical and Electronics (EE) and Electronics and Communication (EC) Engineering, was held on 15.09.2021 Wednesday through online mode with the following members.

S. No	Member	Designation
Expert nominated by the Vice-chancellor		
1	Dr.K.Selvi	Professor Department of Electrical & Electronics Engineering Thiagarajar College of Engineering, Madurai- 625015
Representative from Industry		
2	Mr.K. Sendil Vel	CEO, Malar Electronics Anna Nagar West, Chennai – 600 040.
Experts in the Subject from outside the College		
3	Dr. G.Uma	Professor, Department of Electrical and Electronics Engineering, CEG, Anna University, Chennai.
4	Dr.P.K.Jawahar	Professor/ECE, B.S.Abdur Rahman University , Chennai
Meritorious Alumni		
5	Mr.Vineeth Vijayaraghavan	Director - Research and Outreach, Solarillion Foundation, Chennai
6	Dr.Arun Janarthanan	Sr. Staff, QUALCOMM, TVH Agnito Tech Park, Thazhambur, Chennai.
Chairman-Board of Studies (EEE & ECE)		
7	Dr.KR.Santha	Professor and HOD, Department of Electrical and Electronics Engineering, SVCE.
8	Dr. S Muthukumar	Professor and HOD, Department of Electronics and Communication Engineering, SVCE.
9	Dr.NK.Mohanty	Prof./EEE
10	Dr.Sudhakar.K.Bharatan	Prof./EEE

11	Dr. G A Sathish Kumar	Prof./ECE
12	Dr.N.Kumaratharan	Prof./ECE
13	Dr. P Jothilakshmi	Prof./ECE
14	Dr.R.Karthikeyan	Asso.Prof./EEE
15	Dr.S.G.Bharathidasan	Asso.Prof./EEE
16	Dr.C.Gopinath	Asso.Prof./EEE
17	Dr.S.R.Malathi	Asso.Prof./ECE
18	Dr.R.Gayathri	Asso.Prof./ECE
19	Mrs S.Arulmozhi	Asst. Prof./ECE
20	Mrs R. Kousalya	Asst.Prof./ECE
21	Dr M.Pandiyarajan	Asst.Prof/EEE

Dr KR.Santha Chairman-Board of Studies welcomed the BoS members for the meeting and mentioned the purpose as follows.

- a) Discussion on R2022 (CBCS) EEE & ECE curriculum
- b) Approval of syllabus of First year subjects.

The following points were suggested by the members of Board of Studies for Department of Electrical and Electronics Engineering:

- HOD/EEE delivered a presentation on the R2022 (CBCS) curriculum and syllabus of First Year Subjects. The new courses for R2022 (CBCS) B.E (Electrical and Electronics Engineering) and ME (Power Electronics & Drives) Programmes in the category of Professional Core (PC), Professional Elective (PE), Industry Supported and Value added courses were proposed for approval.
- Dr K. Selvi suggested to take care of biology students while constructing the syllabus for **Programming for Problem Solving Theory & Laboratory.**
- Dr KR Santha conveyed that the R2018 (CBCS) - First year Practical Subject “Engineering Practices Laboratory” has been divided into two laboratories in R2022 (CBCS) curriculum as
 - a) **Basic Electrical and Electronics Engineering Laboratory (BEEE Laboratory)**
 - b) **Basic Civil and Mechanical Engineering Laboratory.**

Also, she explained the reason for splitting.

- She also added that EEE department is going to conduct, “**Basic Electrical and Electronics Engineering**” Theory and Laboratory respectively for nine and ten branches of SVCE in the First Year as per R2022 (CBCS).
- Dr G.Uma emphasized that Electrical Engineering Practices need to be known to the students. She was replied that BEEE Laboratory would cover the experiments of Electrical Engineering Practices as well as Basics of Electrical Engineering.
- Dr G.Uma suggested to study the subject, “**Measurement and Instrumentation** Theory Cum Laboratory” after completing “Analog Electronics”.
- Dr G.Uma also recommended to propose an open elective “**Electrical Apparatus for All**” instead of “Motor for Industries”.
- BoS members enquired about the method of conducting Laboratories during pandemic periods and HOD/EEE explained the strategy being followed at present regarding the same.
- Followingly, the syllabus of the following First Year subjects was discussed and approved by members.
 - a) **Basic Electrical and Electronics Engineering**
 - b) **Basic Electrical and Electronics Engineering laboratory**
 - c) **Electric Circuit Analysis**
 - d) **Electric Circuits Laboratory**
- BoS members suggested reducing the total credits of BE (EEE) curriculum.
- Then the meeting discussed on new professional and open electives, industry supported and value added courses, proposed for inclusion in R2022 (CBCS) curriculum.
- Dr K. Selvi enquired about the kind of support expected from an Industry and Facilities available with the department to conduct “**Smart Grid & Electric Vehicle Laboratory**”.
- Dr KR Santha replied that licensed software such as MATLAB/SIMULINK, PSCAD are available to conduct simulation experiments and Laboratory set-up would be developed for Electric vehicle soon.
- BoS members suggested adding the consultancy work/industry project in the value added Course.

- All the members of Board of studies conveyed their appreciation for the proposed modification and choice of subjects in R2022 for both UG (Electrical & Electronics Engineering) and PG (Power Electronics and Drives) programmes and approved the same.

The following points were suggested by the members of Board of Studies for Department of Electronics and communication Engineering:

- Dr.S.Muthukumar, HoD-ECE highlighted the following modifications proposed in R2022.
 - Two Industry collaborated courses: “Vehicle Infotainment and Connected Vehicles” and “Surface Mounting Technology”.
 - Two new courses “Internet of Things” and “Artificial Intelligence and Machine Learning” under Professional Core.
 - One new course “Sensors and Actuators” under Open Elective.
 - Courses offered under Theory cum Practical category.
 - Project work will be carried out in TWO phases: Phase I (2 Credit) and Phase II (8 Credit).
 - General Elective courses with 1 Credit: NCC and Fine arts.
 - Two Mandatory courses: “Indian Constitution and Society” and “Indian Traditional Knowledge”. Students shall choose any one out of two courses.
 - 4 weeks of Internship.
- Dr.S.Muthukumar briefed about the courses offered in I year curriculum.
- Dr.P.K.Jawahar queried about the details of industries identified to handle the Industry collaborated courses. Dr.S.Muthukumar briefed about the syllabus of “Principles of Surface Mounting Technology” and “Vehicle Infotainment and Connected Vehicles” before the members. Further, he requested Mr.Sendil Vel K and Mr.Arun Janarthanan to suggest their views on the same.
- Mr.Sendil Vel K and Dr.P.K.Jawahar suggested to offer “Surface Mounting Technology” under Professional Elective as it is not more specific to Engineering students. Further, Mr.Sendil Vel K suggested to include more on “Testing” in Unit V. Also, he suggested to

include the course “Electronic Manufacturing Services” in which PCB manufacturing process can be added.

- Mr.Sendil Vel K suggested to include “Battery Management” course as Value added course as it focuses more on battery charging of Electrical Vehicles. Further, he suggested to offer “Internet of Things” course as Industry collaborated course.
- In the syllabus of Vehicle Infotainment and Connected Vehicles, Mr.Sendil Vel K and Dr.P.K.Jawahar suggested to remove the repeated topics and to include the topic on “Connecting car with cloud”. Further, Mr.Vineeth Vijayaraghavan suggested to include the topics on “Car to Car communication” and Car to cloud communication” as a separate Unit.
- Mr.Sendil Vel K suggested to rename the value added course “Embedded Programming using PIC Microcontroller” as “Embedded Programming”.
- Mr.Vineeth Vijaraghaavan suggested to offer “Deep Learning and Machine Learning” courses for CSE students which will help them to handle various types of signals.

M.E (Communication Systems):

- Mr.Sendil Vel K and Mr.Vineeth Vijayaraghavan appreciated the introduction of Professional Elective course “Smart Sensors and Internet of Things” for M.E Communication Systems. Further he enquired about the course content of “Intrusion Detection”. Dr.G.A.Sathish Kumar briefed about the content of the course.
- All the members of Board of studies conveyed their appreciation for the proposed modification and choice of subjects in R2022 for both UG and PG programmes and approved the same.

K.R. Parul
17.9.21

Chairman (EE&EC Engineering Board)