



# **ERODE SENGUNTHAR ENGINEERING COLLEGE** **(An Autonomous Institution)**

(Approved by AICTE, New Delhi, Permanently Affiliated to Anna University - Chennai  
& Accredited by NAAC & National Board of Accreditation (NBA), New Delhi.)

**PERUNDURAI, ERODE 638 057**



## **DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING**



**FIRST BOARD OF STUDIES MEETING**

**13.07.2019**





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National Assessment and Accreditation Council (NAAC), Bangalore with 'A' Grade)

PERUNDURAI, ERODE – 638 057.



## Department of Electronics and Instrumentation Engineering

### 1<sup>st</sup> Board of Studies Meeting - AGENDA

ITEM	Particulars
ITEM 01	WELCOMING OF BOARD OF STUDY MEMBERS
ITEM 02	TO CONSIDER AND APPROVE THE REGULATIONS OF B.E. (ELECTRONICS AND INSTRUMENTATION ENGINEERING) PROGRAMME.
ITEM 03	TO CONSIDER AND APPROVE THE CURRICULUM OF I TO VIII SEMESTERS FOR THE B.E. (ELECTRONICS AND INSTRUMENTATION ENGINEERING) PROGRAMME TO BE OFFERED UNDER R-2019 WITH EFFECT FROM THE ACADEMIC YEAR 2019 – 2020 ONWARDS.
ITEM 04	TO CONSIDER AND APPROVE THE SYLLABI OF I TO IV SEMESTERS FOR THE B.E. (ELECTRONICS AND INSTRUMENTATION ENGINEERING) PROGRAMME TO BE OFFERED UNDER R-2019 WITH EFFECT FROM THE ACADEMIC YEAR 2019 – 2020 ONWARDS.
ITEM 05	AS PER THE INSTRUCTIONS FROM DIRECTOR / ANNA UNIVERSITY ACADEMIC COURSES, FOR III TO VIII SEMESTERS OF CURRENT 2 <sup>ND</sup> & 3 <sup>RD</sup> YEAR STUDENTS OF B.E. (ELECTRONICS AND INSTRUMENTATION ENGINEERING), THE SAME SYLLABUS UNDER ANNA UNIVERSITY 2017 REGULATIONS WILL BE FOLLOWED.
ITEM 06	AS PER THE INSTRUCTIONS FROM DIRECTOR / ANNA UNIVERSITY ACADEMIC COURSES, FOR VII & VIII SEMESTERS OF CURRENT 4 <sup>TH</sup> YEAR STUDENTS OF B.E. (ELECTRONICS AND INSTRUMENTATION ENGINEERING), THE SAME SYLLABUS UNDER ANNA UNIVERSITY 2013 REGULATIONS WILL BE FOLLOWED.



**ITEM 01 WELCOMING OF BOARD OF STUDY MEMBERS**

Dr.S.Poorani, Chairman of EIE Board of Studies welcoming the members

**ITEM 02 TO CONSIDER AND APPROVE THE REGULATIONS OF B.E. (ELECTRONICS AND INSTRUMENTATION ENGINEERING) PROGRAMME**

Regulations 2019 of B.E. Electronics and Instrumentation Engineering

This content is placed before the Board of Studies for consideration and approval.

**ITEM 03 TO CONSIDER AND APPROVE THE CURRICULUM OF I TO VIII SEMESTERS FOR THE B.E. (ELECTRONICS AND INSTRUMENTATION ENGINEERING) PROGRAMMES TO BE OFFERED UNDER R-2019 WITH EFFECT FROM THE ACADEMIC YEAR 2019 – 2020 ONWARDS.**

Curriculum 2019 of B.E. Electronics and Instrumentation Engineering

This content is placed before the Board of Studies for consideration and approval.

**ITEM 04 TO CONSIDER AND APPROVE THE SYLLABI OF I TO IV SEMESTERS FOR THE B.E. (ELECTRONICS AND INSTRUMENTATION ENGINEERING) PROGRAMMES TO BE OFFERED UNDER R-2019 WITH EFFECT FROM THE ACADEMIC YEAR 2019 – 2020 ONWARDS.**

Syllabus R – 2019 of B.E. Electronics and Instrumentation Engineering

This content is placed before the Board of Studies for consideration and approval.

**ITEM 05 AS PER THE INSTRUCTIONS FROM DIRECTOR / ANNA UNIVERSITY ACADEMIC COURSES, FOR III TO VIII SEMESTERS OF CURRENT 2<sup>nd</sup> & 3<sup>rd</sup> YEAR STUDENTS OF B.E. (ELECTRONICS AND INSTRUMENTATION ENGINEERING), THE SAME SYLLABUS UNDER ANNA UNIVERSITY 2017 REGULATIONS WILL BE FOLLOWED.**

\* For information

**ITEM 06 AS PER THE INSTRUCTIONS FROM DIRECTOR / ANNA UNIVERSITY ACADEMIC COURSES, FOR VII & VIII SEMESTERS OF CURRENT 4<sup>th</sup> YEAR STUDENTS OF B.E. (ELECTRONICS AND INSTRUMENTATION ENGINEERING), THE SAME SYLLABUS UNDER ANNA UNIVERSITY 2013 REGULATIONS WILL BE FOLLOWED.**

\* For information




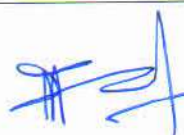
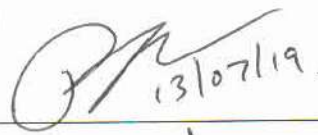
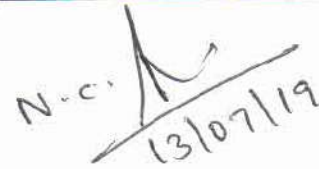


**DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING**





**ERODE SENGUNTHAR ENGINEERING COLLEGE, PERUNDURAI, ERODE - 638057**

**An Autonomous Institution Affiliated to Anna University, Chennai**

The Board of studies meeting of Electronics and Instrumentation Engineering for the B.E. (EIE) degree program from the academic year 2019 – 20 onwards was convened and held on 13<sup>th</sup> July 2019 in the IIT Remote Centre of Administrative Block, Erode Sengunthar Engineering College, Perundurai. The following members were present during the meeting.

S.No.	Members	Signature
1	<b>Dr. S.Poorani</b> , Professor, Department of Electronics and Instrumentation Engineering, Erode Sengunthar Engineering College, Perundurai.	
2	<b>Dr. V. Venkatachalam</b> Principal, Erode Sengunthar Engineering College, Perundurai.	
3	<b>Dr. R. Kalaivani</b> , Professor & Head, Department of Electronics and Communication Engineering, Erode Sengunthar Engineering College, Perundurai.	
4	<b>Dr. S. Thangavel</b> , Associate Professor, Department of Electrical and Electronics Engineering, National Institute of Technology, Puducherry	 13.7.2019.
5	<b>Dr.P.Ponnambalam</b> , Associate Professor, Department of Instrumentation Engineering, Vellore Institute of Technology, Vellore.	 13/07/19.
6	<b>Er.N.C.Lenin</b> , Managing Director, Shri Jai Sharath Automation & Engineering Solution, TS/77, 2 <sup>nd</sup> Floor, Thiru.Vi.Ka. Industrial Estate, Ekkattuthangal, Chennai – 600 032	 N.C.L. 13/07/19

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7	<b>Er. T.Jayakumar</b> , Associate Professor/EEE, Nandha Engineering College, Perundurai	
8	<b>Mr. T. Maris Murugan</b> , Associate Professor, Department of Electronics and Instrumentation Engineering, Erode Sengunthar Engineering College, Perundurai.	
9	<b>Dr. D.Sivanandakumar</b> , Assistant Professor, Department of Electronics and Instrumentation Engineering, Erode Sengunthar Engineering College, Perundurai.	
10	<b>Dr.M.N.Saravanakumar</b> , Assistant Professor, Department of Electronics and Instrumentation Engineering, Erode Sengunthar Engineering College, Perundurai.	



**Chairman**  
**(BoS – EIE)**



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**ITEM 01 WELCOMING OF BOARD OF STUDY MEMBERS**

The Chairman of EIE Board of Studies welcomed all members of Board of Studies. She presented the introduction and achievements of the department and briefed the agenda to be discussed followed by introduction of all members present.

**ITEM 02 TO CONSIDER AND APPROVE THE REGULATIONS OF B.E. (ELECTRONICS AND INSTRUMENTATION ENGINEERING) PROGRAMME**

The Chairman of EIE Board of Studies presented the Regulations 2019 of B.E. Electronics and Instrumentation Engineering programme. The Board of Studies reviewed the regulations and suggested following modifications.

- Dr. S. Thangavel suggested to reduce the total no. of credits in the range of 160 – 165 for UG Curriculum.
- Dr. K. Sundareswaran insisted to provide the benefits of doing additional credits by the students in the Regulation of B.E. Electronics and instrumentation Engineering programme.
- Dr.S.Thangavel told that vision of the department is more general in nature and also suggested that it should be more department specific.



The Board of Studies resolved to approve the regulations of B.E. Electronics and Instrumentation Engineering programme brought forward by the Chairman incorporating the above changes.

**ITEM 03**

**TO CONSIDER AND APPROVE THE CURRICULUM OF I TO VIII SEMESTERS FOR THE B.E. (ELECTRONICS AND INSTRUMENTATION ENGINEERING) PROGRAMMES TO BE OFFERED UNDER R-2019 WITH EFFECT FROM THE ACADEMIC YEAR 2019 – 2020 ONWARDS.**

The Chairman of EIE Board of Studies presented the Curriculum 2019 of I to VIII for the B.E. Electronics and Instrumentation Engineering. The Board of Studies reviewed the Curriculum and suggested following modifications.

- Dr. S. Thangavel, Professor suggested to remove the electives in the first semester and to provide Basic English as a mandatory course.
- The Chairman, EIE Board of studies briefed the importance of language electives (Japanese, French and Hindi). Er.N.C.Lenin, appreciated that, it could improve the placement as globally competent.
- Dr. S. Thangavel suggested to provide the language electives in open elective courses and insisted to modify as 1 credit course.
- Dr. S. Thangavel suggested, providing Physics for Instrumentation Engineering subject instead of elective.
- Mr. T. Jayakumar suggested combine C language and Python programming subjects. Dr. G. Sivakumar, Prof. & HoD / CSE insisted that, studying 2 languages in the same subject looks little bit tough for the students.
- Dr. S. Thangavel discussed with the Dr. G. Sivakumar, it is resolved to combine C language and Data Structure in one course and provided in 2<sup>nd</sup> semester.
- Dr. S. Thangavel suggested that, the Electric Circuits subject can be provided in the 3<sup>rd</sup> semester instead of 2<sup>nd</sup> semester.
- Dr. P. Ponnambalam enquired about the language elective – II, and it is resolved that Japanese, French and Hindi can be provided in the open elective. Dr. T. Thangavel enquired about the faculty availability for taking the language elective. The Chairman briefed that, with the



preference of students the institution will provide faculty members.

- Dr. S. Thangavel enquired that, the Basic English, Communicative English, Physics subjects in the first and second semester curriculum can be combined, and he suggested that, it may be provided in the single semester.
- Mr. T. Jayakumar suggested that, the Traditional Knowledge subject can be provided before Indian Constitution.
- Dr. S. Thangavel suggested that continuous assessment can be conducted for the Indian constitution course and certificate can be provided for the best performer.

The Board of Studies resolved to approve the Curriculum of 2019 of I to VIII for the B.E. Electronics and Instrumentation Engineering programme brought forward by the Chairman incorporating the above changes.

**ITEM 04**

**TO CONSIDER AND APPROVE THE SYLLABI OF I TO VIII SEMESTERS FOR THE B.E. (ELECTRONICS AND INSTRUMENTATION ENGINEERING) PROGRAMMES TO BE OFFERED UNDER R-2019 WITH EFFECT FROM THE ACADEMIC YEAR 2019 – 2020 ONWARDS.**

The Chairman of EIE Board of Studies presented the syllabi of I to VIII for the B.E. Electronics and Instrumentation Engineering. The Board of Studies reviewed the syllabus and suggested following modifications.

- Dr. K. Sundareswaran suggested combining Electric Circuits Laboratory and Electron Devices Laboratory syllabus and providing it as Electric Circuits and Electron Devices Laboratory in the 3<sup>rd</sup> semester. It is resolved that, the electric circuits experiments can be provided in the first cycle and electron devices experiments can be provided in the 2nd cycle.
- Dr. S. Thangavel insisted to check the Dr. S. N. Busi, Dr. B. R. Ambedkar, "Framing of Indian Constitution", 1st Edition, 2015 book edition year.
- Er.N.C.Lenin suggested to provide Dismantling and assembly of motors experiment instead of Dismantling and assembly of Centrifugal Gear Pump / Gear box and Dismantling and assembly of two-stroke and four-stroke petrol engine in 19ES106 - Workshop Practice
- Er. T. Jayakumar advised to reduce the laboratory in semester IV



- Er. N. C. Lenin proposed that Thermodynamics & Fluid Mechanics course can be included as compulsory.
- Er. T. Jayakumar advised that IoT course can be moved to open elective.
- Dr. S. Thangavel suggested that plastic related topics can be included in environmental science and engineering
- Dr. S.T hangavel advised that the department staff members should be able to handle the courses in the list of open electives
- Er. N. C. Lenin insisted that signals and systems course should be included as a core course
- Dr. S. Thangavel insisted to add signal conditioning topics in sensors and signal conditioning syllabus
- Dr. S. Thangavel advised to change the topic of unit 5 in electrical measurements syllabus
- Er. N. C. Lenin proposed to include the topics such as SPM analysis, gas detectors and advanced technologies in Analytical Instruments syllabus.
- Er. T. Jayakumar recommended to maintain common count of experiments in the laboratory course
- Er. N. C. Lenin advised to provide more details about control valves in process control syllabus

The Board of Studies resolved to approve the syllabi of I to VIII semesters for the B.E. (Electronics and Instrumentation Engineering) Programme brought forward by the Chairman incorporating the above changes.

**AS PER THE INSTRUCTIONS FROM DIRECTOR / ANNA UNIVERSITY ACADEMIC COURSES, FOR III TO VIII SEMESTERS OF CURRENT 2<sup>nd</sup> & 3<sup>rd</sup> YEAR STUDENTS OF B.E. (ELECTRONICS AND INSTRUMENTATION ENGINEERING), THE SAME SYLLABUS UNDER ANNA UNIVERSITY 2017 REGULATIONS WILL BE FOLLOWED.**

The chairman informed that, as per the instructions from Director / Anna university Academic courses, for III to VIII semesters of current 2<sup>nd</sup> & 3<sup>rd</sup> year students of B.E. (Electronics and Instrumentation Engineering), the same syllabus under Anna university 2017 regulations will be followed.



**AS PER THE INSTRUCTIONS FROM DIRECTOR / ANNA UNIVERSITY ACADEMIC COURSES, FOR VII & VIII SEMESTERS OF CURRENT 4<sup>th</sup> YEAR STUDENTS OF B.E. (ELECTRONICS AND INSTRUMENTATION ENGINEERING), THE SAME SYLLABUS UNDER ANNA UNIVERSITY 2013 REGULATIONS WILL BE FOLLOWED.**

The chairman informed that, as per the instructions from Director / Anna university Academic courses, for VII to VIII semesters of current 4<sup>th</sup> year students of B.E. (Electronics and Instrumentation Engineering), the same syllabus under Anna university 2013 regulations will be followed.