ERODE SENGUNTHAR ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai)

PERUNDURAI, ERODE - 638 057.



Department of Electronics and Instrumentation Engineering

7th BOARD OF STUDIES MEETING

21st December 2023 @ 02.30 p.m.

ZOOM ONLINE MEET

<u>Meeting Link: Zoom Meeting ID: 878 6340 7202 , Passcode: 533958</u> <u>https://us06web.zoom.us/j/87863407202?pwd=hvuzj30kj4H7BlewaPNMYFg9UJJnlt.1</u>



ERODE SENGUNTHAR ENGINEERING COLLEGE

(An Autonomous Institution) Approved by AICTE, New Delhi, Permanently Affiliated to Anna University- Chennai, Accredited by National Board of Accreditation (NBA), New Delhi & National Assessment and Accreditation Council (NAAC), Bangalore with 'A' Grade PERUNDURAI -638 057, TAMILNADU, INDIA.



DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

7th BOARD OF STUDIES MEETING

Meeting Link: Zoom Meeting ID: 878 6340 7202, Passcode: 533958 https://us06web.zoom.us/j/87863407202?pwd=hvuzj3Okj4H7BIewaPNMYFg9UJJnlt.1 Date & Time: 21.12.2023 & 02.30 p.m.

AGENDA

The 7th Board of Studies Meeting is convened on 21.12.2023 at 02.30 p.m. The agenda for the meeting is as follows.

BoS /EIE 7.1	:	Welcoming Board of Studies members and opening remarks by the Chairman, Board of Studies, Department of Electronics and Instrumentation Engineering.
BoS /EIE 7.2	:	Confirmation of the Minutes of 06 th Board of Studies Meeting and Action Taken Report of 06 th Board of Studies meeting.
BoS /EIE 7.3	:	Review of Syllabus for the Third and Fourth Semesters for the B.E. Electronics and Instrumentation Engineering programme offered under Regulations 2023.
BoS /EIE 7.4	:	Review of Vertical courses identified for the B.E. Electronics and Instrumentation Engineering programme offered under Regulations 2023.
BoS /EIE 7.5	:	Suggestions for Revisions in curriculum & syllabi needed for Regulations 2023.
BoS /EIE 7.6	:	Any other Matter

Chairman - BoS Dept. of EIE - ESEC



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DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

7th Board of Studies BOS MEMBERS

1.	Dr.T.Maris Murugan, Associate Professor & Head, Department of Electronics and Instrumentation, Erode Sengunthar Engineering College, Perundurai.	Chairman	
2.	Dr.S.Geetha Associate Professor, Department of Electrical and Electronics Engineering, Coimbatore Institute of Technology, Coimbatore.	University Nominee	
3.	Dr. P. Subha Hency Jose Associate Professor, Biomedical Engineering, Karunya University, Coimbatore.	Academic Experts	
4.	Er. S.Subbain Product Manager, Shri Jai Sharath Automation & Engineering Solution, TS/77, 2ndFloor, Thiru.Vi.Ka. Industrial Estate, Ekkattuthangal, Chennai.	Industrial Expert related to Placement	
5.	Er. Sivasai Thota, Software Development Engineer in Test (SDET), Lyric.Tech, Chennai.	Meritorious Alumnus nominated by the Principal	
6.	Dr.P.Elamurugan, Associate Professor/EIE		
7.	Mr.P.Suresh Kumar, Assistant Professor (Sr.Gr.)/ EIE		
8.	Mr.E.Sathish, Assistant Professor / EIE	Internal Members	
9.	Mr.P.Senthil Kumar, Assistant Professor / EIE		
10.	Ms.C.Jayabharathi, Assistant Professor / EIE		
11.	Ms.G. Revathy, Assistant Professor / EIE		



	:	Welcome address and opening remarks by Chairman, Board of Studies.
		The Chairman of the Board of Studies welcomed all the members to the meeting for
BoS / EIE 7.1		discussing proposed B.E Electronics and Instrumentation Engineering curriculum
	:	of all Semesters and syllabus of I, II, III & IV Semesters under the Regulations
		2023. The members presented in the Board of Studies Meeting are given in
		Annexure - I.
		Confirmation of the Minutes of 06th Board of Studies Meeting and Action
	:	Taken Report of 06th Board of Studies meeting.
		Discussion
BoS / EIE 7.2		The Chairman, presented the Minutes of 6 th Board of Studies Meeting which was
Deer Lin in	2.84	held on 16.12.2022 and Action Taken Report of the same.
	:	Resolution
		It is resolved to recommend the Minutes of 6 th Board of Studies Meeting and Action
		Taken Report of the same is submitted to the Academic Council for approval.
		Review of syllabus Third and Fourth semesters for the B.E. Electronics and
	·	Instrumentation Engineering programme offered under Regulations 2023.
	1	Discussion
		The Chairman, presented syllabus belongs to Third and Fourth semester for the
	A. Martin	B.E. Electronics and Instrumentation Engineering programme offered under
		Regulations 2023. The BoS members approved the same.
	12	Dr. P. Subha Hency Jose, AsP/BME, Karunya University, Coimbatore,
BoS /EIE 7.3		Suggested to include Advanced Processor topic in the course of "Microprocessors and
	•	Microcontrollers" Chairman agreed to include the same.
		Dr. P. Subha Hency Jose, AsP/BME, Karunya University, Coimbatore and
	ie ^d	Er. S.Subbain, Product Manager, Shri Jai Sharath Automation & Engineering
	: Jam	Solution, appreciated the syllabus formation of B.E. EIE under Regulations 2023.
	1.00	Resolution
	-	It is resolved to recommend the B.E EIE syllabus under Regulations 2023 and
		same is submitted to the Academic Council for Approval.
		Review of vertical courses identified for the B.E. Electronics and
BoS /EIE 7.4 : Instrumentation Engineering programme offered under R		



I	Т	The Chairman presented the vertical courses identified for the D.E. Electronics and
		The Chairman presented the vertical courses identified for the B.E. Electronics and
		Instrumentation Engineering programme offered under Regulations 2023. The BoS
		members approved the same.
		Dr.S.Geetha, AsP/EEE/CIT/Coimbatore, suggested to include "Building
		Automation" course in the vertical courses for B.E. EIE programme offered under
		Regulation 2023. The Chairman agreed to include the same.
		Er. Sivasai Thota, Software Development Engineer in Test (SDET), Lyric.Tech,
		Chennai, suggested to include "Deep and Reinforcement Learning" in vertical
	- Jan makes	courses under Regulations 2023. The Chairman agreed to include the same.
	10- 10	Resolution
	1	It is resolved to recommend the Vertical Courses under Regulations 2023 and same
÷ "p"		is submitted to the Academic Council for Approval.
		Suggestions for Revisions in Curriculum and Syllabi needed for
	:	Regulations 2023
BoS /EIE 7.5	I	Dr. P. Subha Hency Jose, AsP/BME, Karunya University, Coimbatore, she
		enquired about delivery method and Latest tools used for the all the course.
	:	Dr.S.Geetha, AsP/EEE/CIT/Coimbatore, suggested to more number of students
		involve and receive the online NPTEL Course Certificate for their Placement and
	a:	Higher studies.
	:	Any other Matter
		Common points suggested by the members as concluding remark
	1	Suggested to update the reference book with latest edition and include on-line
BoS /EIE 7.6.	-52-	resources.
	:	The Chairman of Board of Studies agreed and assured to incorporate the changes
	8 101	suggested by the members wherever possible.
	£,	The Chairman of Board of Studies thanked all the members for their valuable
	<u>e</u> k.	suggestions and coordination.

Chairman - BoS Dept. of EIE - ESEC

ANNEXURE – I

The following members presented in the Board of Studies Meeting

Sl. No.	Name & Designation	Category	Signature
1	Dr.T.Maris Murugan, Associate Professor & Head, Department of Electronics and Instrumentation, Erode Sengunthar Engineering College, Perundurai.	Chairman	1AA
2	Dr.S.Geetha Associate Professor, Department of Electrical and Electronics Engineering, Coimbatore Institute of Technology, Coimbatore.	University Nominee	
3	Dr. P. Subha Hency JoseAssociate Professor,Biomedical Engineering,Karunya University,Coimbator.		ON-LINE MODE
5	Er. S.Subbain Product Manager, Shri Jai Sharath Automation & Engineering Solution, TS/77, 2ndFloor, Thiru.Vi.Ka. Industrial Estate, Ekkattuthangal, Chennai.	Representative from Industry/ Corporate sector	
6	Er. Sivasai Thota, Software Development Engineer in Test(SDET), Lyric.tech, Chennai.	Meritorious Alumnus nominated by the Principal	
7	Dr.P.Elamurugan, Associate Professor/EIE		P.CS
8	Mr.P.Suresh Kumar, Assistant Professor (Sr.Gr.)/ EIE		Semesh Fumar
9	Mr.E.Sathish, Assistant Professor / EIE Internal Members		I. And
10	Mr.P.Senthil Kumar, Assistant Professor / EIE		ng
12	Ms.C.Jayabharathi, Assistant Professor / EIE		e hr
13	Ms.G.Revathy, Assistant Professor / EIE		G.R

Chairman - BoS Dept. of EIE - ESEC

ANNEXURE - II

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Screen shots of 7th Board of Studies Meeting

Name of the Department Name of the Board Date, Time & Mode Zoom Link : Electronics and Instrumentation Engineering : Electronics and Instrumentation Engineering

: 21.12.2023 - 02.30 p.m. & Online Mode

: https://us06web.zoom.us/j/87863407202?

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00		Campont 5
	Ability to design signal conditioning circuits for resistive, inductive and capacitive trans Unit 1 CIARACTERISTICS OF TRANSDUCERS	ducers.
	Units and standards – Classification of errors. Linuting error and probable error – Error analysis – Statistical methods – Odds and uncertainty – Classification of transducers – Selection of transduce	P SURESHILUMA
	Unit II SCIENCE OF MEASUREMENTS AND CLASSIFICATION OF TRANSDUCER	The second second
	Static characteristics: Accuracy, precision, resolution, sensitivity, linearity, span and range – Dyna characteristics – Mathematical model of transducer – Zero, first and second order transducers – Re to mappiles, step, ramp inputs	F FLATER-LAND APPENDE
	Unit III VARIABLE RESISTANCE TRANSDUCERS	Dr. P. Subha He
	Principle of operation, construction details, characteristics and applications of potentiometer, strain resistance thermometer. Thermustor, hot-wire anemometer, piezo-resistive sensor and humidity set	Dr. P. Subhe Henry Jose
	Unit IV VARIABLE INDUCTANCE AND VARIABLE CAPACITANCE TANSDUCERS	Dr. Gertha S
the second second	Inductive transducers - Principle of operation, construction details, characteristics and applications LVDT. Induction potentiometer - Variable reluctance transducers - Principle of operation, c details Capacitive transducers - Principle of operation, construction details and characteristics Diff & Signal Conditioning - Applications - Capacitor nucrophone. Capacitive pressure sensor.	Dr. Germa S
	Unit V OTHER TRANSDUCERS	P SENTHLIKUM
	Piezoelectric transducer – Hall Effect transducer – Magneto elastic sensor – Digital transducers – I optic sensors – Seisnic pickup transducers – Introduction to MEMS – Introduction to Smart trans- and its interface standard (IEEE 1451).	PENDICAN ALL
,	L. Lecture T. Iutonal P. Practical C. Credits Total	45 Periods

