KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY
(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**).

MINUTES OF THE MEETING OF FOURTH BOARD OF STUDIES MEETING HELD ON 17-03-2022 AT 02:15 PM IN ONLINE TOWARDS CONSIDERING THE PROPOSED R2020 UG PROGRAMME, B.E. - EIE CURRICULUM & SYLLABI (VII SEMESTER AND VIII SEMESTER)

PLATFORM: Teams App

Meeting Link: https://tinyurl.com/IVthBoS-EIE

Dr. S.Jeyadevi , HoD (Department of Electronics & Instrumentation Engineering) welcomed all the members of the Board of Studies and Faculty members of EIE department to the 4TH BOS meeting. The following members were present:

S.No	Name of the Expert	Designation	Capacity
1	Dr.N.Sivakumaran, Professor/ I & C	Professor, Department of Instrumentation and Control Engineering, NIT, Trichy	Anna University Nominee
2	Dr.G.Uma, Professor and Head / I &C	Professor, Department of Instrumentation and Control Engineering, NIT, Trichy	Academic Council nominated BoS Members
3	Dr. P. Ramesh Babu Professor	Professor, Department of Electronics and Instrumentation Engineering, Puducherry Technological University	

S.No			
4	Er.K.Murugesan Assistant General Manager	Winomechanic Private Ltd., Chennai	Industrialist
5.	Dr.G.Palani Kumar Lead Controls Engineer	Vestas Wind Technology R &D, Chennai	Alumni

FACULTY OF ELECTRONICS AND INSTRUMENTATION ENGINEERING	MEMBERS

S.No	Name of the Faculty	Designation
1	Dr.S.Jeyadevi	Chairman / HoD-EIE
2	Dr.D.Prince Winston	Dean (Research)
3	Dr. A.Rajavel	UG Programme Coordinator
4	Mrs. M.Vigneswari	Assistant Professor / EIE
5	Mrs.J.UmaMaheswari	Assistant Professor / EIE
6	Mrs.L.V.Revathi	Assistant Professor / EIE
7	Mr.S.RameshPrabhu	Assistant Professor / EIE
8	Mrs. R.Santhiya	Assistant Professor / EIE
9	Ms. S.Kavitha	Assistant Professor / EIE

After brief introduction by the Dr. S.Jeyadevi , HoD (Department of Electronics & Instrumentation Engineering) about the participants from industries, alumni, academic members and faculty members from the Departments of Electronics and Instrumentation Engineering , the agenda items were taken up for discussion. The discussion starts with R2020 UG Programme curriculum and syllabi of 7th and 8th semester of Electronics and Instrumentation Engineering and then continues with the suggestions and recommendations received from all stake holders

DISCUSSIONS:

BOS 003.01

HOD/EIE gave a brief presentation for the Approval of the Minutes of the Third BoS.

HOD/EIE pointed out the Actions Taken for the Previous BoS

BOS 003.02

HOD/EIE presented the R2020 UG Curriculum, B.E. - Electronics and Instrumentation Engineering for the following.

SEMESTER VII

S.No	Course Code	Course Title	Category	Periods / Week			Contact Period	Credit
				L	T	P		
THEORY								
1	GE1771	Principles of Management	FC	3	0	0	3	3
2	GE1471	Professional Ethics and Human Values	FC	3	0	0	3	3
3	EI1701	Logic and Distributed Control System	PC	3	0	0	3	3
5		Professional Elective –V	PE	3	0	0	3	3
6		Professional Elective -VI	PE	3	0	0	3	3
7		Open Elective –II	OE	3	0	0	3	3
PRACTICALS								
7	EI1711	Industrial Automation Laboratory	PC	0	0	4	4	2
8	EI1721	Mini Project	EEC	0	0	4	4	2
			TOTAL	18	0	8	24	22

SEMESTER VIII

S.No	Course Code	Course Title	Category	Periods / Week			Contact Period	Credit
				L	T	P		
PRACTICALS								
1	EI1821	Project Work	EEC	0	0	16	16	8
			TOTAL	0	0	16	16	8

Professional Elective V (7th Semester)								
1.	EI1731	Image Processing	PE	3	3	0	0	3
2.	EI1732	Instrumentation and Control for Power Plant	PE	3	3	0	0	3
3.	EI1733	Navigation and Guidance System	PE	3	3	0	0	3
4.	EI1734	Wireless Sensor Network	PE	3	3	0	0	3
Professional Elective VI (7th Semester)								
1.	EI1735	Automotive Instrumentation	PE	3	3	0	0	3
2.	EI1736	Medical Imaging Systems	PE	3	3	0	0	3
3.	EI1737	Nuclear Instrumentation	PE	3	3	0	0	3
4.	EI1738	Robotics and Automation	PE	3	3	0	0	3

Open Electives offered by Department of EIE

S.No.	Course Code	Course Name	Category	Contact Periods	Credits			
					L	T	P	C
Open Elective II (7th Semester)								
1.	OEI171	Introduction to Industrial Measurements	OE	3	3	0	0	3

S.No.	Course Code	Course Name	Category	Contact Periods	Credits			
					L	T	P	C
2.	OEI172	Mechanical Measurements	OE	3	3	0	0	3
3.	OEI173	PLC and SCADA	OE	3	3	0	0	3

List of Online Courses (NPTEL/Swayam)

S No	Course Name	Institute	Duration	UG/PG	Core/Elective
1.	Machine Learning For Soil And Crop Management	IITKGP	12 Weeks	UG	Elective
2.	Artificial Intelligence: Knowledge Representation And Reasoning	IITM	12 Weeks	UG/PG	Elective
3.	Foundations of Cryptography	IIIT Bangalore	12 Weeks	UG/PG	Elective
4.	Data Analytics with Python	IITR	12 Weeks	UG/PG	Elective
5.	GPU Architectures and Programming	IITKGP	12 Weeks	UG/PG	Elective
6.	Ethical Hacking	IITKGP	12 Weeks	UG/PG	Elective
7.	Compiler Design	IITKGP	12 Weeks	UG	Core
8.	Computer Architecture	IITD	12 Weeks	UG	Core
9.	Computer Networks and Internet Protocol	IITKGP	12 Weeks	UG/PG	Core

10.	Cloud computing	IITKGP	8 Weeks + 4 Weeks(New)	UG	Elective
11.	Deep Learning	IITKGP	12 Weeks	UG/PG	Elective
12.	Model Checking	CMI	12 Weeks	UG	Elective
13.	Introduction to Machine Learning	IITM	12 Weeks	UG/PG	Elective
14.	Social Networks	IIT Ropar	12 Weeks	UG	Elective
15.	The Joy of Computing using Python	IIT Ropar	12 Weeks	UG/PG	Elective
16.	Reinforcement Learning	IITM	12 Weeks	UG/PG	Elective
17.	Deep Learning - IIT Ropar	IIT Ropar	12 Weeks	UG/PG	Elective
18.	Online Privacy	IIITH	12 Weeks	UG/PG	Elective
19.	Computational Geometry	IITD	12 Weeks	UG	Elective
20.	An Introduction to Programming Through C++	IITB	12 Weeks	UG	Core
21.	Programming in Modern C++	IITKGP	12 Weeks	UG/PG	Core
22.	Blockchain and its Applications	IITKGP	12 Weeks	UG/PG	Elective
23.	Problem Solving Through Programming In C	IITKGP	12 Weeks	UG/PG	Elective

24.	Embedded Systems Design	IITKGP	12 Weeks	UG	Core
25.	Programming In Java	IITKGP	12 Weeks	UG	Elective
26.	Hardware Security	IITKGP	12 Weeks	PG	Elective
27.	Discrete Structures	IITKGP	12 Weeks	UG	Core
28.	VLSI Physical Design	IITKGP	12 Weeks	UG/PG	Elective
29.	Introduction To Industry 4.0 And Industrial Internet Of Things	IITKGP	12 Weeks	PG	Core
30.	Introduction To Internet Of Things	IITKGP	12 Weeks	UG	Elective
31.	Object Oriented System Development Using UML, Java And Patterns	IITKGP	12 Weeks	PG	Elective
32.	An Introduction to Artificial Intelligence	IITD	12 Weeks	UG	Elective
33.	Introduction to Database Systems	IITM	12 Weeks	UG	Core
34.	Getting Started with Competitive Programming	IIT Gandhinagar	12 Weeks	UG	Elective
35.	Fundamental of Power Electronics	IISc	12 Weeks	UG/PG	Core/Elective
36.	Principles of Signals and Systems	IITK	12 Weeks	UG	Core
37.	Principles of Communication Systems – I	IITK	12 Weeks	UG	Core

38.	Electrical Machines - II	IITKGP	12 Weeks	UG	Core
39.	Network Analysis	IITKGP	12 Weeks	UG	Core
40.	Fuzzy Sets, Logic and Systems & Applications	IITK	12 Weeks	UG/PG	Elective
41.	Antennas	IITB	12 Weeks	UG/PG	Elective
42.	Integrated Circuits, Mosfets, OP-Amps and their Applications	IISc	12 Weeks	UG/PG	Elective
43.	Analog Ic Design	IITM	12 Weeks	UG/PG	Elective
44.	Digital IC Design	IITM	12 Weeks	UG	Elective
45.	Digital System Design	IIT Ropar	12 Weeks	UG	Core
46.	Deep Learning for Visual Computing	IITKGP	12 Weeks	PG	Elective

a) **List of Value Added Courses**

Year	Name of the Course
II	Real Time Applications Development Using LabVIEW
III	Basic Programming in NodeMCU Microcontroller 1D and 2D signal Processing using MATLAB and GUI
IV	Internet of Things (IoT)

The following suggestions were given by the BOS Members

1.   Dr.G.Uma suggested that "Medical Imaging System" paper will be handled by faculty members who are expertise in biomedical domain or industry experts related to this area.

2.   Dr.G.Uma suggested that in Automotive Instrumentation subject update Electric Vehicles syllabus .

3.   Dr.G.Uma recommended the Swayam courses for online courses and she added certificates issued by Swayam will be considered for credits also. Bos members suggested that the Students will be allowed to do Online courses from 3rd semester to 7th semester after satisfying the pre requisites constraints of a particular course .

4.   Er.K.Murugesan and Dr.G.Palanikumar told that they are satisfied with the Syllabus of Sem VII, Sem VIII, NPTEL and Value added Courses.

BOS 003.03

HOD/EIE gave a brief presentation about the UG Syllabus Discussions which has the following.

• UG Online Courses - Students can study the NPTEL / Swayam Online courses on or before seventh semester itself since the result publication may get delayed if they do in eighth semester. (As per Regulation Guideline R2020 under R4.9)

• All members have given approval.

The meeting ended with the Vote of Thanks by Mrs.L.V.Revathi , Assistant Professor, Department of EIE, Kamaraj College of Engineering and Technology, Virudhunagar.

BoS Incharge

UG Programme Coordinator

(Dr. S.JEYADEVI)
BoS Chairman – EIE
HOD / EIE