

Department of Electronics and Instrumentation Engineering

Date: 31.08.2022

Action Taken Report on BoS

The meeting of the 9th Board of Studies for the Department of Electronics and Instrumentation Engineering Undergraduate programme was conducted on 23.08.2022 at 10.30 a.m in Online Mode through Google Meet. (Meeting Link: meet.google.com/hoj-hvay-eug)

(i) Syllabus Revision:

S. No	Subject in which revision has been done	Action taken	Percentage Syllabus Revised
1.	19EI6181- Industrial Safety Management (R2019)	Incorporated	20%

Overall Percentage of revision made in the BoS: 3.1%

(ii) Courses Introduced in R2022:

S.No.	Regulation	Course code with name	Credits
1.	2022	22MA1101 - Matrices and Calculus	4
2.	2022	22CY1151- Chemistry For Circuit Engineering	3
3.	2022	22HE1151- English for Engineers	3
4.	2022	22CS1151- Problem Solving Using C Programming	3
5.	2022	22EI1201 - Fundamentals of Electrical, Electronics and Instrumentation Engineering	3
6.	2022	22HE1071- Universal Human Values -II	2
7.	2022	22HE1072- Entrepreneurship & Innovation	1
8.	2022	22MC1091/22MC1092- அறிவியல் தமிழ்/ Indian Constitution (Common to all branches)	0
9.	2022	22MA2104- Laplace Transforms and Differential Equations	4

10.	2022	22HE2151- Effective Technical Communication	3
11.	2022	22PH2101- Basics of Material Science	2
12.	2022	22CY2101- Environmental Studies	2
13.	2022	22PH2151- Physics For Circuit Engineering	3
14.	2022	22EI2251- Electronic Devices and Circuits	3
15.	2022	22ME2001- Engineering Practices	2
16.	2022	22HE2071- Design Thinking	2
17.	2022	22HE2072- Soft Skills – I	1
18.	2022	22MC2091/22MC2092- தமிழர் மரபு /Essence of Indian Traditional Knowledge	0
19.	2022	22MC2093- NCC */NSS / YRC / Sports / Clubs / Society Service - Enrollment (Common)	0
20.	2022	22MA3102 - Complex Analysis and Transforms	4
21.	2022	22EI3201 - Electronic Instrumentation	3
22.	2022	22EE3202 - Electric Circuit Analysis	4
23.	2022	22EI3203 - Sensors and Transducers	3
24.	2022	22EI3251 - Digital Electronics	4
25.	2022	22EE3001 - Electric Circuits Laboratory	2
26.	2022	22EI3002 - Sensors and Transducers Laboratory	2
27.	2022	22HE3071 - Soft Skills -2 (Common to all)	1
28.	2022	22HE3072 - Fundamentals of JAVA Programming	2
29.	2022	22HE4101 - IPR and Start-ups	2
30.	2022	22EI4201 - Electrical Machines	3
31.	2022	22EE4202 - Integrated Circuits and Its Applications	4
32.	2022	22EI4203 - Industrial Instrumentation - I	3
33.	2022	22EI4204 - Analytical Instrumentation	3
34.	2022	22EI4251 - Electrical and Electronic Measurements	3
35.	2022	22EI4001 - Electrical Machines Laboratory	2
36.	2022	22EE4002 - Integrated Circuits Laboratory	2
37.	2022	22HE4071 - Soft Skills -3	1
38.	2022	22EI5201- Industrial Instrumentation -II	3

39.	2022	22EE5202 - Microprocessors and Microcontrollers	3
40.	2022	22EI5251- Control Systems	3
41.	2022	22EI5001 - Industrial Instrumentation Laboratory	1.5
42.	2022	22EE5002 - Microprocessors and Microcontrollers Laboratory	1.5
43.	2022	22EI5071 - Soft Skills -4/Foreign languages	1
44.	2022	22EI6201 - Process Control	3
45.	2022	22HE6101 - Professional Ethics	3
46.	2022	22EI6001 - Process Control Laboratory	2
47.	2022	22EI6002 - Virtual Instrumentation and Data Acquisition Laboratory	2
48.	2022	22HE6071 - Soft Skills - 5	2
49.	2022	22EI7201 - Programmable Logic Controller and Its Applications	3
50.	2022	22EI7251 - VLSI Design	3
51.	2022	22EI7001 - Industrial Automation Laboratory	1.5
52.	2022	22EI7002 - Instrumentation System Design Laboratory	1.5
53.	2022	22EI7701 - Internship	2
54.	2022	22EI8901- Project Work / Granted Patent	10
55.	2022	22EI5301 - Power plant Instrumentation	3
56.	2022	22EI5302 - Industrial Pollution Control	3
57.	2022	22EI5303 - Safety Instrumented Systems	3
58.	2022	22EI5304 - Bio-Medical Instrumentation	3
59.	2022	22EI5305 - Telemetry and Telecontrol	3
60.	2022	22EI5306 - Digital Image Processing	3
61.	2022	22EI5307 - Micro Electro Mechanical Systems	3
62.	2022	22EI5308 - Wireless Instrumentation	3
63.	2022	22EI5309 - Wearable Technology	3
64.	2022	22EI5310 - Embedded Systems	3
65.	2022	22EI5311- Communication Engineering	3
66.	2022	22EI5312 - Fundamentals of Nanotechnology and Nanoelectronics	3
67.	2022	22EI5313 - Plant Automation and IIOT	3

68.	2022	22EI5314 - PC based Instrumentation	3
69.	2022	22EI5315 - Introduction to Soft Computing	3
70.	2022	22EI5316 - Instrumentation and Control in paper Industries	3
71.	2022	22EI5317 -System Identification	3
72.	2022	22EI5318 - Industrial data Communication	3
73.	2022	22EI6301 - Piping and Instrumentation Diagrams	3
74.	2022	22EI6302 - Virtual Instrumentation	3
75.	2022	22EI6303 - Medical Robotics	3
76.	2022	22EI6304 - Diagnosis and Therapeutic Equipment	3
77.	2022	22EI6305 - Fiber optics and Laser Instrumentation	3
78.	2022	22EI6306 - Machine Monitoring and Control	3
79.	2022	22EI6307 - Digital Signal Processing	3
80.	2022	22EI6308 - Industrial Electronics	3
81.	2022	22EI6309 - Advanced Control Theory	3
82.	2022	22EI6310 - Robotics and Automation	3
83.	2022	22EI6311 - Project and Finance Management	3
84.	2022	22EI6312 - Instrumentation and Control in Petrochemical Industries	3
85.	2022	22EI7301 - Computer Control of Process	3
86.	2022	22EI7302 - Occupational Health and Safety Management	3
87.	2022	22EI7303 - Computer Vision and Image Processing	3
88.	2022	22EI7304 - Microcontroller Based System Design	3
89.	2022	22EI7305 - Introduction to DCS	3
90.	2022	22EI7306 - Instrumentation System design	3
91.	2022	22EI6401 - Introduction to Industrial Instrumentation and Control	3
92.	2022	22EI6402 - Graphical Programming using Virtual Instrumentation	3
93.	2022	22EI7401 - Smart Sensors for Engineering Applications	3
94.	2022	22EI5231 - Principles of Sensors	3
95.	2022	22EI6231 - Flexible and Wearable Sensors	3
96.	2022	22EI6232 - Data Acquisition Techniques	3
97.	2022	22EI7231 - Biomedical, Chemical and Automotive sensors	3
98.	2022	22EI7232 - Sensors for IoT Applications	3
99.	2022	22EI8231 - Intelligent Sensors and Instrumentation	3

100.	2022	22EI5203 - Instrumentation Practices in Industries	3
101.	2022	22EI6202 - Technological Trends in Automation	3
102.	2022	22EI6203 - Adaptive control system	3
103.	2022	22EI7203 - Advanced Process Control	3
104.	2022	22EI7204 - SCADA System and Its Applications	3
105.	2022	22EI8201 - Advanced Instrumentation Techniques	3

(iii) Additional Credit Courses Introduced: VAC

S.No.	Course Code with Name
1.	Advanced Instrumentation sensors and Applications
2.	System on Chip – Instrumentation Perspective

(iv)General Recommendations:

S.No.	Suggestion given by the BoS experts	Action taken
1	Members suggested to ensure advanced instrumentation and control subjects to be incorporated for the students who opt Honours Degree.	Considered
2	Members suggested to include application oriented topics and new era technologies and latest industrial developments while framing the syllabus.	Considered



CHAIRMAN
BoS/EIE

**Chairman - BoS
EIE - HiCET**

Date: 25. 02. 2023

ACTION TAKEN REPORT ON BoS

Name of the Department: ELECTRONICS AND INSTRUMENTATION ENGINEERING

The meeting of 10th board of studies of Regulation 2019& Regulation 2022 for the Department of Electronics and Instrumentation Engineering was conducted on 20.02.2023 at 2.30 p.m in Online Mode through Google Meet.

(I) Syllabus Revision for the Regulations 2019

S.No	Courses in which revision has been done	Action taken	Percentage Syllabus Revised
1	19EI6251-Embedded Systems	Incorporated	20%
2	19EI6303- Industrial Data Communication	Modified	20%

Overall Percentage of revision made in the BoS: 21%

(II) New Course Introduced:

S. No	Regulation	Course Code with Name	Credits
1.	2022	22EI2251 – Electronic Devices and Circuits	3
2.	2019	19EI8306 - Chemical Process Instrumentation(NPTEL)	3

(III) Mandatory Courses

S.No.	Course Code with Name
1.	22MC2091/ 22MC2092 - தமிழ்மரபு / Essence of Indian Traditional Knowledge.
2.	22MC2093 - NCC */NSS / YRC / Sports / Clubs / Society Service - Enrollment (Common)
3.	19EE6701-Internship Training
4.	19EE6071-Soft Skills - II
5.	19HE6072-Intellectual Property Rights (IPR)

(IV) Non-credit Mandatory Courses


S.No.	Course Code with Name
1.	22MC2091/ 22MC2092 - தமிழ்மரபு / Essence of Indian Traditional Knowledge.
2.	21 MC4191-Essence of Indian tradition knowledge/Value Education
3.	21HE4072- Career Guidance Level – IV Personality, Aptitude and Career Development
4.	21HE4073- Ideation Skills

(V) Additional Credit Courses Introduced:

S.No.	Course Code with Name
1.	22HE2071 - Design Thinking
2.	22HE2072 - Soft Skills -1

(VI). General Recommendations:

S. No	Suggestion Given by the BoS Experts	Action Taken
1.	Recommended to include additional subjects in the Hours degree verticals(in spite of 6 courses) so that, students can get deep knowledge on the particular stream.	Considered
2.	Suggested to include Recent editions of Text and Reference books in the syllabus also Course objectives and Course outcomes should be mapped with course contents.	Considered


Chairman
(Board of Studies)
Chairman - BoS
EIE - HICET