

## MINUTES OF BOARD OF STUDIES MEETING

**Name of the Department: ELECTRONICS AND INSTRUMENTATION ENGINEERING**

Date: 11.12.2023

The meeting of 12th Board of Studies in the Department of Electronics and Instrumentation Engineering Undergraduate programme for the academic year 2023-24 was conducted on 11.12.2023 at 10 am in Hybrid Mode.

The following members were present:

S.No.	Name of the Member	Position
1	Dr.B.Anand Professor and Head	BoS, Chairman
2	Dr.T.Aruldoss Albert Victoire, Associate Professor and Head i/c Department of Electrical and Electronics Engineering, Anna University Regional Campus Coimbatore, Coimbatore-641 046.	Anna University Nominee
3	Dr. V. Prasanna Moorthy, Professor, Department of Electrical and Electronics Engineering, Government College of Engineering, Bargur- 635104.	Subject Expert
4	Dr. C. Govindaraju, Associate Professor & HoD, Department of Electrical and Electronics Engineering, Government College of Engineering, Thanjavur-613402.	Subject Expert
5	Mr.A.Ezhilmaran, Project Manager (Control & Automation), Axis Global Automation, 33,Near Manis Theatre, Kathir Avenue Street. Lakshmipuram, Coimbatore - 641 004.	Representative from Industry

6	Dr.P.Karuppanan, Professor, Department of Electronics and Communication Engineering, Motilal Nehru National Institute of Technology, Allahabad, Uttar Pradesh – 211004.	Member from QS Rated Institution
7	Mr.D.Deivasigamani Assistant Professor	Member& Department Autonomous Coordinator
8	Mr.D.Vijayanandh Assistant Professor	Member
9	Mr.R.Vinothkumar Assistant Professor	Member
10	Mr.M.Sudagar Assistant Professor	Member
11	Mrs.N.Kavitha Assistant Professor	Member
12	Mr.B.Chandran Team Leader(Production & Testing), Ojas Automation System, S.no 20, Opp Rathinam college, Pollachi main road, Coimbatore – 641021.	Alumni
13	Mr.S.Divakarvel P/o D.Kanishk 272, SMD complex Chinna kadai veethi st, Salem – 636001.	Parent Member
14	Mr.P.Duraiarasu	Student Member
15	Mr.D.Kanishk	Student Member
16	Mr.Gowtham P.S	Student Member

The Chairman-BoS (Dr.B.Anand) welcomed all the members for the 12th Board of Studies meeting.

- Followed by Chairman presented the suggestions given by the experts and the action taken report during the Previous BoS meeting which was held on 08.06.2023 was approved.
- The feedback collected on curriculum by the stakeholders was presented by the Chairman.

- The Chairman gave an outline of the views expressed by the members of 12th Department Advisory Committee (DAC) related to the curriculum and Syllabus. The Board of Studies Members' suggestion has been sought in this regard.
- Chairman, BoS has elaborated the Regulations 2022 Curriculum, newly introduced courses and their syllabus, Minor, Honours/Honours with specialization vertical subjects to the members.
- Chairman presented the Semester VI(R2019 (admitted in 2021) &R2022) subjects with syllabus for Minor & Honours/Honours with specialization, and noted the experts suggestions.
- Chairman conveyed to the members that, the Minor & Honours/Honours with specialization scheme has been implemented in R2019 (for the students who have admitted in 2021-22 and onwards).
- The curriculum and syllabi for Fourth semester subjects discussed for 2022 Regulation.

#### **Recommendations by BoS members (Subject Related )**

The following recommendations put forth by the BoS Members,

- Dr.T.Aruldoss Albert Victoire – University nominee, appreciated the Regulation 2022 curriculum and syllabus for Minor & Honours / Honours with specialization courses (Sem VI)
- Dr.C.Govindaraju - Subject Expert, suggested to include Signal conditioning topics by replacing Flow, Temperature, displacement, level sensors in Unit IV &V in "21EI6203 - Principles of sensors and signal conditioning"
- Chairman agreed to incorporate the above suggestions.
- Dr. V. Prasanna Moorthy – Subject Expert, recommended to include Recent edition of Text books and Reference books for Sem IV, Honours & Minor course syllabus.
- Chairman agreed to incorporate the above suggestions.
- Dr.P.Karuppanan – Member from QS Rated Institution, appreciated the R2022 Curriculum, Minor & Honours / Honours with specialization vertical subjects.
- Dr. C. Govindaraju – Subject Expert, suggested to modify the Unit V in "22EI4205 - Industrial Instrumentation -I" by replacing the following topics "special techniques for high temperature measurement, thermal well"
- Chairman accepted to include the above suggestions.

- Industry Expert (Mr.V.Ezhilmaran) appreciated the R2022 curriculum and suggested to include more applications in Unit V "21EI6204 -Embedded Systems for IoT", so that students can get wide knowledge on IoT applications development.
- Chairman agreed to incorporate the above suggestions.
- Dr.T.Aruldoss Albert Victoire – University nominee, recommended to provide the standard keywords in Course Objectives & Course Outcomes for CO-PO-PSO mapping and fulfill the OBE.
- All members are accepted for the above recommendations.
- In 2<sup>nd</sup> Sem, R-2022, "22EI2251– Electronic Devices and Circuits" UNIT II is revised by including the following topics "MOSFET, MOSFET types, early effect"
- All members are accepted to incorporate the above modification.
- Members suggested the following course can be given as a Value Added Course in this semester.
  - (i) Fundamentals of LabVIEW Programming for Instrumentation Engineers.
- Skill Development courses introduced for member's approval
  - 21LSZ401 –General Studies for Competitive Examinations
  - 21LSZ402 – Human Rights, Women's Rights and Gender Equality
  - 21LSZ403 – Indian Ethos and Human Values
  - 21LSZ404 – Indian Constitution and Political System
  - 21LSZ405 – Yoga for Human Excellence
- Employability Enhancement courses introduced for member's approval.
  - 22HE4071 – Soft Skills – III (Passed by S&H board)
- The Chairman, BoS and all members are accepted to incorporate the above recommendations in the syllabus.

**The following resolution was made in the Board of Studies meeting,**

- The syllabi of IV semester of the UG Programmes (22HE4101 - IPR and Start-ups, 22HE4071 - Soft Skills -III) for the students admitted during the academic year 2022 - 2023 and onwards was passed by Mechanical Board & S&H Board and permitted to move on Academic Council.

- The syllabi of II semester of the UG Programmes for the students admitted during the academic year 2023 - 2024 and onwards was passed by S&H Board of Studies and permitted to move on Academic Council.

1. Percentage of Programmes where syllabus revision was carried out in BoS:

- Semester II: 22EI2251– Electronic Devices and Circuits (R 2022): Credit 3  
(20 % of Syllabus revisions made)

2. Introduce Course:

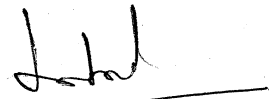
Following new courses are introduced(R2022) for the students admitted in the year 2022-23 and onwards (Semester IV)

- 22EI4201 – Electrical Machines: Credit 3
- 22EE4202 – Integrated Circuits and Its Applications: Credit 4
- 22EI4203 – Industrial Instrumentation-I: Credit 3
- 22EI4204 – Analytical Instrumentation: Credit 3
- 22EI4251 – Electrical and Electronic Measurements: Credit 3
- 22EI4001 - Electrical Machines Laboratory: Credit 2
- 22EE4002 - Integrated Circuits Laboratory: Credit 2

Following new courses are introduced(R2019)for the students admitted in the year 2021-22 and onwards (Semester VI)

- 21EI6203 – Principles of Sensors and Signal conditioning: Credit 3
- 21EI6204 – Embedded Systems for IoT: Credit 3
- 21EI6205 – Adaptive Control: Credit 3
- 21EI6206– Advanced Process Control: Credit 3
- 21EI6207 – Applied Industrial Instrumentation: Credit 3
- 21EI6208 – Instrumentation in Building Automation: Credit 3
- 21EI6231 – Measurements and Measuring Instruments: Credit 3
- 21EI6232– Industrial Instrumentation: Credit 3

The meeting came to an end at 11.30 a.m with vote of thanks.



**Chairman**

**(Board of studies / EIE)**

**Chairman - BoS**

**EIE - HiCET**

**Enclosure:**

1. Previous BoS Minutes- ATR
2. Regulation 2019 & 2022
3. Curriculum and Syllabi

**Copy:**

1. The Principal
2. Dean Academics
3. Controller of Examinations
4. All the members of BoS
5. File

**MINUTES OF BOARD OF STUDIES MEETING****Name of the Department: ELECTRONICS AND INSTRUMENTATION ENGINEERING**

Date:08.06.2023

The meeting of 11th Board of Studies in the Department of Electronics and Instrumentation Engineering Undergraduate programme for the academic year 2023-24 was conducted on 08.06.2023 at 10.30 am in Online Mode through Google Meet.  
(Meeting Link: [meet.google.com/kwj-bidq-qbq](https://meet.google.com/kwj-bidq-qbq))

The following members were present:

S.No.	Name of the Member	Position
1	Dr.B.Anand Professor and Head	BoS, Chairman
2	Dr.T.Aruldoss Albert Victoire, Associate Professor and Head i/c Department of Electrical and Electronics Engineering, Anna University Regional Campus Coimbatore, Coimbatore-641 046.	Anna University Nominee
3	Dr. V. Prasanna Moorthy, Professor, Department of Electronics and Instrumentation Engineering, Government College of Technology, Coimbatore – 641 013.	Subject Expert
4	Dr. C. Govindaraju, Associate Professor & HoD, Department of Electrical and Electronics Engineering, Government College of Engineering, Thanjavur.	Subject Expert
5	Mr.A.Ezhilmaran, Project Manager (Control & Automation), Axis Global Automation, 33,Near Manis Theatre, Kathir Avenue Street. Lakshmipuram, Coimbatore - 641 004.	Representative from Industry

6	Dr.P.Karuppanan, Professor, Department of Electronics and Communication Engineering, Motilal Nehru National Institute of Technology, Allahabad, Uttar Pradesh – 211004.	Member from QS Rated Institution
7	Dr.B.Paulchamy, Professor & Head, Department of Electronics and Communication Engineering, Hindusthan Institute of Technology, Coimbatore – 641 032	Member from HiTECH
8	Mr.D.Deivasigamani Assistant Professor	Member & Department Autonomous Coordinator
9	Mr.D.Vijayanandh Assistant Professor	Member
10	Mr.R.Vinothkumar Assistant Professor	Member
11	Mr.M.Sudagar Assistant Professor	Member
12	Mrs.N.Kavitha Assistant Professor	Member
13	Mr.B.Chandran Team Leader(Production & Testing), Ojas Automation System, S.no 20, Opp Rathinam college, Pollachi main road, Coimbatore – 641021.	Alumni
14	Mr.S.Divakarvel P/o D.Kanishk 272, SMD complex Chinna kadai veethi st, Salem – 636001.	Parent Member
15	Mr.P.Duraiarasu	Student Member
16	Mr.M.Muthumani	Student Member
17	Mr.D.Kanishk	Student Member

The Chairman-BoS (Dr.B.Anand) welcomed all the members for the 11th Board of Studies meeting.

- Followed by Chairman presented the suggestions given by the experts and the action taken report during the Previous BoS meeting which was held on 20.02.2023 was approved.
- The feedback collected on curriculum by the stakeholders was presented by the Chairman.
- The Chairman gave an outline of the views expressed by the members of 11th Department Advisory Committee (DAC) related to the curriculum and Syllabus. The Board of Studies Members' suggestion has been sought in this regard.
- Chairman, BoS has elaborated the Regulations 2022 Curriculum, newly introduced courses and their syllabus, Minor, Honours/Honours with specialization vertical subjects to the members.
- Chairman presented the Semester V (R2019 (admitted in 2021) & R2022) subjects with syllabus for Minor & Honours/Honours with specialization, and noted the experts suggestions.
- Chairman conveyed to the members that, the Minor & Honours/Honours with specialization scheme is to be implemented in R2019 (for the students who have admitted in 2021-22 and onwards).
- The curriculum and syllabi of Third semester subjects is discussed for 2022 regulation.

### Recommendations by BoS members (Subject Related)

The following recommendations put forth by the BoS Members,

- Dr.T.Aruldoss Albert Victoire – University nominee, appreciated the Regulation 2022 curriculum and syllabus for Minor & Honours / Honours with specialization courses (Sem V)
- Dr. V. Prasanna Moorthy – Subject Expert, recommended to include Recent edition of Text books and Reference books for Sem III, Honours & Minor course syllabus.
- Chairman agreed to incorporate the above suggestions.
- Dr.P.Karuppanan – Member from QS Rated Institution, appreciated the R2022 Curriculum, Minor & Honours / Honours with specialization vertical subjects.
- Dr. C. Govindaraju – Subject Expert, recommended to include additional subjects in the Honours/Honours with specialization verticals (in spite of 6 courses) so that, students can get more options to choose to enhance their basics on that corresponding stream.
- Chairman accepted and said, the suggestion is forwarded to standing committee for approval.

- Industry Expert (Mr.V.Ezhilmaran) appreciated the R2022 curriculum and suggested to include more industry oriented and latest industrial technologies in the syllabus.
- Chairman agreed to incorporate the above suggestions while syllabus framing.
- In 7<sup>th</sup> Sem, R-2019 , "19EI7201– Computer Control of Process" suggested to include Model based control algorithms like, MPC, IMC, DMC and Adaptive control.
- All members are accepted to incorporate the above modification.
- In 7<sup>th</sup> Sem, R-2019, "19EI7251– Bio-Medical Instrumentation" suggested to include some advanced topics like ICCU, robotic surgery, Nano robotics.
- All members are accepted to incorporate the above modification.
- Members suggested the following courses can be given as a Value Added Course in ODD semester.
  - (i) Graphical Programming using Virtual Instrumentation
  - (ii) Instrumentation for Industry 4.0
  - (iii) Design Thinking
- All members are accepted to incorporate the above Value Added Courses.
- Skill Development courses introduced for member's approval
  - 19 LSZ401 –General Studies for Competitive Examinations
  - 19 LSZ402 – Human Rights, Women's Rights and Gender Equality
  - 19 LSZ403 – Indian Ethos and Human Values
  - 19 LSZ404 – Indian Constitution and Political System
  - 19 LSZ405 – Yoga for Human Excellence
- Employability Enhancement courses introduced for member's approval.
  - 22HE3071 – Soft Skills – II (Passed by S&H board)
  - 22HE3072 – Fundamentals of JAVA Programming (Passed by CSE board)
- In general, the members suggested to ensure mapping of Course objectives and Course outcomes with course contents.
- The Chairman, BoS and all members accepted to incorporate the above in the curriculum.

**The following resolution was made in the Board of Studies meeting,**

- The syllabi of III semester of the UG Programmes (22MA3102 - Complex Analysis and Transforms, 22HE3071 - Soft Skills -II) for the students admitted during the academic year 2022 - 2023 and onwards was passed by S&H Board of Studies and permitted to move on Academic Council.

- o The syllabi of III semester of the UG Programmes (22HE3072 – Fundamentals of JAVA Programming) for the students admitted during the academic year 2022 - 2023 and onwards was passed by CSE Board of Studies and permitted to move on Academic Council

1. Percentage of Programmes where syllabus revision was carried out in BoS:

- o Semester VII: 19EI7201– Computer Control of Process (R 2019): Credit 3 (20 % of Syllabus revisions made)
- o Semester VII: 19EI7251- Bio-Medical Instrumentation (R 2019): Credit 3 (25 % of Syllabus revisions made)

2. Introduce Course:

Following new courses are introduced(R2022) for the students admitted in the year 2022-23 and onwards (Semester III)

- o 22EI3201 – Electronic Instrumentation: Credit 3
- o 22EE3202 - Electric Circuit Analysis: Credit 4
- o 22EI3203 - Sensors and Transducers: Credit 3
- o 22EI3251 - Digital Electronics: Credit 4

The meeting came to an end at 11.30 a.m with vote of thanks.



**Chairman**

**(Board of studies)**

**Chairman - BoS  
EIE - HiCET**

**Enclosure:**

1. Previous BoS Minutes- ATR
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