



HINDUSTHAN INSTITUTE OF TECHNOLOGY

Coimbatore-641032

(An Autonomous Institution)

(Approved By AICTE, New Delhi, Affiliated To Anna University, Chennai,
Accredited by NBA & NAAC with 'A' Grade)



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Date: 18.09.2025

Action Taken Report – Tenth Board of Studies Meeting

The Tenth Board of Studies (BoS) Meeting for the Department of Electronics & Communication Engineering was conducted on 11th September 2025 at 11.30 am at the Board Room of Hindusthan Institute of Technology, Coimbatore. Expert members provided their valuable suggestions. The following are the details of action taken in response to the suggestions and discussion carried out during the meeting.

The University Nominee - Dr. P. SEETHALAKSHMI, Associate Professor, Department of Electronics & Communication Engineering, Anna University Regional Campus, Coimbatore.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|--|---|--|
| 1. | Madam recommended including the course on "Validation and Testing" under the vertical of "Semiconductor Chip Design and Testing" | The course on "Validation and Testing" has been included under the vertical of "Semiconductor Chip Design and Testing" | To align the curriculum with current industry practices and demands, the course on "Validation and Testing" has been incorporated into the "Semiconductor Chip Design and Testing" vertical. |
| 2. | Madam suggested including the course on "Image Processing and Bio Medical Signal Processing" under the vertical of "Signal Processing" | The courses "Image Processing and Bio Medical Signal Processing" have been included under the vertical of "Signal Processing" | Since "Image Processing and Biomedical Signal Processing are advanced applications of core signal processing techniques, these courses have been incorporated under the "Signal Processing" vertical to align with industry and research trends. |

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| 3. | Mam pointed that the instead of “Sensors and Actuators course”, “the Advanced IoT, Processors and MEMS” courses to be incorporated under the Vertical of AI and Digital Twins in Industrial IoT. | The courses “Advanced IoT Processors and MEMS Design” have been incorporated under the vertical of “AI and Digital Twins in Industrial IoT” | The courses “Advanced IoT Processors and MEMS Design” have been incorporated under the vertical of “AI and Digital Twins in Industrial IoT” to provide students with advanced knowledge and skills relevant to emerging industrial applications and smart manufacturing systems. |
| 4. | Mam advised 5G and 6G latest technology courses to be included under the vertical of Communication Systems. | The latest technology course as “5G/6G Wireless Communication” have been included under the vertical of “Communication Systems” | “5G/6G Wireless Communication” course represent the future of global communication networks, which has been incorporated under “Communication Systems” to align the curriculum with industry practices and research trends. |
| 5. | Madam expressed the importance of including standard text and reference books in all courses and making sure every topic is covered. | Standard text and reference books have been included for all courses, ensuring comprehensive coverage of every topic emphasized by Madam | All courses have been updated with appropriate standard textbooks and reference materials, providing students with reliable content and comprehensive coverage of all topics prescribed in the syllabus. |

The External Expert Member I - Dr.M.G.Jibukumar, Department of Electronics and Communication Engineering, School of Engineering, Cochin University of Science and Technology, Cochin.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|--|---|---|
| 6. | He recommended the basis of OFDM to be included in the course of “MIMO | As per his recommendation, the fundamentals of OFDM have been incorporated into | Including the fundamentals of OFDM in the “MIMO Communication course” |

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| | Communication” | the “MIMO Communication course” | ensures that students gain the knowledge of techniques used in modern wireless communication systems. |
| 7. | <p>He suggested that to include the following reference books for Principle of Computer Communication and Networks</p> <p>1. Data Networks (2nd Edition) by Dimitri P. Bertsekas / Robert G. Gallager and</p> <p>2. Wireless Networking By Anurag Kumar, D. Manjunath, Joy Kuri.</p> | As per his suggestion, the prescribed reference books have been included for the course ‘Principle of Computer Communication and Networks’ | The inclusion of these reference books ensures comprehensive coverage of both fundamental and advanced concepts in computer communication and networking. Together, these references ensure that the course covers both networking theory and practical aspects of wireless networking, aligning with current industry and research requirements. |

The External Expert Member II - Dr.D.Nirmal, Department of Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Karunya Nagar, Coimbatore.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|--|--|--|
| 8. | He appreciated the well-structured Mission, Vision and PO-PSO mapping. | The appreciation has been communicated to the concerned faculty and stakeholders to encourage continued adherence to quality academic structuring. | A well-structured Mission, Vision, and PO-PSO mapping ensures a clear alignment between the institution's educational objectives and student learning outcomes. It helps in defining the academic framework, guiding |

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| | | | curriculum design, and ensuring that students acquire the necessary skills and competencies relevant to their field. |
| 9. | Sir, pointed out Quantum Communication to be included under the vertical of Communication Systems. | As per Sir's suggestion, Quantum Communication has been incorporated under the Communication Systems vertical | Incorporating Quantum Communication under the Communication Systems vertical, providing students with exposure to advanced concepts in next-generation communication systems. |
| 10. | He emphasized the importance of including standard text and reference books in all courses and making sure every topic is covered. | Provided faculty with guidelines on ensuring that all courses include standard text and reference books and verified that prescribed text books cover all the topics | Using standard text and reference books helps to maintain a high academic standard across all courses. Students are better prepared for exams and competitive assessments when they have access to recognized study materials. |

The Industry Expert – Mr.S.Prabhakaran, Senior Program Manager, Robert Bosch Engineering and Business Solutions Private Limited, CHIL-SEZ Keeranatham Village, Coimbatore.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|---|---|---|
| 11. | He pointed that the instead of "AI&ML" course to be include under the Vertical of AI and Digital Twins in Industrial IoT. | The courses "AI&ML" have been incorporated under the vertical of "AI and Digital Twins in Industrial IoT" | By aligning AI & ML with this vertical, students gain a coherent understanding of how intelligent algorithms are applied in Industrial IoT environments, bridging |

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| | | | theoretical concepts with practical, industry-relevant applications. |
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The Alumnus Member – Mr.Sijo Mathew, FPGA Design Engineer, Nokia Networks, L5, Manyatha Tech park Bengaluru.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|---|--|---|
| 12. | He is suggested to verify that all topics are covered in both the text and reference books. | Suggestion taken into consideration and verified that the text and reference books cover all the topics in a comprehensive manner. | A comprehensive textbook ensures students can prepare more efficiently for exams, knowing that all exam-relevant topics are adequately covered in the material. |


 BoS Chairperson
 Dr.B.Paulchamy
Dr. B. PAULCHAMY, M.E., Ph.D.,
 Professor & Head
 Department of ECE
 Hindusthan Institute of Technology
 Coimbatore - 641 032.



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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Date: 18.09.2025

Minutes of Meeting – Tenth Board of Studies Meeting

The Tenth Board of Studies (BoS) Meeting for the Department of Electronics & Communication Engineering was conducted on 11th September 2025 at 11.30 am at the Board Room of Hindusthan Institute of Technology, Coimbatore. Expert members provided their valuable suggestions. The following are the details of the suggestions and discussion carried out during the meeting.

The following was the agenda of the meeting.

1. To discuss UG programme B.E. Electronics & Communication Engineering Curriculum from I to VIII Semesters of Regulation 2024.
2. Action taken report of 9th BoS Meeting
3. To pass and approve the Syllabus of Vertical Courses of Regulation 2024 UG Programme B.E. Electronics & Communication Engineering.
4. To discuss the list of Vertical Courses for B.E. / B. Tech. (Honors) Degree in the ECE discipline,
5. To discuss the list of Vertical Courses for B.E. / B. Tech. (Minor) Degree and Open Electives in other-specialization.

The following Board of Studies members were present in the meeting:

| S.No. | Details of Board of Studies Members | Signature |
|-------|--|----------------------------------|
| 1 | Chairperson - BOS Dr. B. PAULCHAMY, Professor & Head, Department of Electronics & Communication Engineering Hindusthan Institute of Technology, Coimbatore. | |
| 2 | University Nominee Dr. P. SEETHALAKSHMI Associate Professor, Department of Electronics & Communication Engineering Anna University Regional Campus, Coimbatore-046. | Participated through Online mode |
| 3 | External Expert Member – I Dr M. G. JIBUKUMAR Department of Electronics and Communication Engineering, School of Engineering, Cochin University of Science and Technology, | Participated through Online mode |

| S.No. | Details of Board of Studies Members | Signature |
|-------|---|---|
| | Cochin. | |
| 4 | External Expert Member – II Dr D. NIRMAL Department of Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Karunya Nagar, Coimbatore. | Participated through Online mode |
| 5 | Industry Expert Mr PRABHAKARAN. S Senior Program Manager, Robert Bosch Engineering and Business Solutions Private Limited, CHIL-SEZ Keeranatham Village, Coimbatore. | Participated through Online mode |
| 6 | ALUMNUS Member Mr SIJO MATHEW FPGA Design Engineer, Nokia Networks, L5, Manyatha Tech park Bengaluru, Karnataka. | Participated through Online mode |
| 7 | Dr. S. KAVITHA Professor | Faculty of Department of Electronics & Communication Engineering |
| 8 | Dr. P.M. BALASUBRAMANIAM Professor | |
| 9 | Dr. A. PURUSHOTHAMAN Professor | |
| 10 | Dr. K. MAHENDRAKAN Associate Professor | |
| 11 | Mr. B. HAKKEM Assistant Professor | |
| 12 | Mr. K.R KANNAN Assistant Professor | |
| 13 | Ms. S. BRINDHA Assistant Professor | |
| 14 | Ms. A. ROOPA SREE Assistant Professor | |
| 15 | Ms. T. SIVAMANI Assistant Professor | |
| 16 | Mr. A. ABDUL HAYUM Assistant Professor | |
| 17 | Mr. A. VIDHYASEKAR Assistant Professor | |
| 18 | Mrs. S. SUGANYA Assistant Professor | |
| 19 | Mrs. K. KOWSALYA Assistant Professor | |
| 20 | Mr. R. KARUPPUSAMY Assistant Professor | |
| 21 | Ms. N. SARANYA Assistant Professor | |
| 22 | Mr.R.Ganesh Kishore Assistant Professor | |

| S.No. | Details of Board of Studies Members | | Signature |
|-------|--------------------------------------|--|---|
| 23 | Dr.D.JEYAKUMARI Professor | |  |
| 24 | Dr.C.KALAMANI Assistant Professor | |  |

Special Invitees

| S.No. | Details |
|-------|---|
| 1 | Dr C Natarajan Principal, Hindusthan Institute of Technology, Othakkalmandapam, Coimbatore. |

The following points were discussed in the BOS Meeting:

1. Chairperson of BoS, Dr.B.Paulchamy welcomed the BoS Members.
2. Special address is given by Dr. C. Natarajan, Principal, Hindusthan Institute of Technology, Coimbatore.
3. Dr.B.Paulchamy presented major features of Regulation 2024 and its Curriculum of UG (ECE) was discussed.
4. The R-2024 Syllabus of Vertical Courses of B.E. Electronics & Communication Engineering was passed.
5. The list of Vertical Courses for B.E. / B. Tech. (Honors) Degree in the ECE discipline was discussed
6. The list of Vertical Courses for B.E. / B. Tech. (Minor) Degree and Open Electives in other specialization was discussed.
7. The Courses under the following Verticals have been discussed
 - Semiconductor Chip Design and Testing
 - Signal Processing
 - Wireless Networks
 - Communications Systems
 - AI and Digital Twins Industrial IoT
 - Bio Medical Technologies

The University Nominee - Dr. P. SEETHALAKSHMI, Associate Professor, Department of Electronics & Communication Engineering, Anna University Regional Campus, Coimbatore has suggested the following points.

1. Mam, expressed appreciation for the 2024 Regulations well-organized curriculum and the excellent opportunities for students to earn Honors and Minor Degrees.

2. Mam, suggested that to include the course of Validation and Testing in the vertical of Semiconductor Chip Design and Testing.
3. Mam emphasized the importance of including standard text and reference books in all courses and making sure every topic is covered.
4. She also recommended that the courses of Image Processing and Bio Signal processing to be included in the vertical of Signal Processing.
5. Mam, emphasized that the instead of Sensors and Actuators course, the Advanced IoT, MEMS and AI&ML courses to be incorporated under the Vertical of AI and Digital Twins in Industrial IoT.
6. She pointed out 5G and 6G latest technologies to be included under the vertical of Communication Systems.

The External Expert Member I - Dr. M.G. JIBUKUMAR, Department of Electronics and Communication Engineering, School of Engineering, Cochin University of Science and Technology, Cochin has suggested the following points.

1. He recommended the basis of OFDM to be included in the course of Mimo Communication.
2. He suggested that to include the following reference books for Principle of Computer Communication and Networks
Data Networks (2nd Edition) by Dimitri P. Bertsekas / Robert G. Gallager and
Wireless Networking By Anurag Kumar, D. Manjunath, Joy Kuri.

The External Expert Member II – Dr. D. NIRMAL, Department of Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Karunya Nagar, Coimbatore has suggested the following points.

1. He appreciated the well-structured Mission, Vision and PO-PSO mapping.
2. Sir, pointed out Quantum Communication to be included under the vertical of Communication Systems.
3. He emphasized the importance of including standard text and reference books in all courses and making sure every topic is covered.

The Industry Expert – Mr. S. PRABHAKARAN, Senior Program Manager, Robert Bosch Engineering and Business Solutions Private Limited, CHIL-SEZ Keeranatham Village, Coimbatore has suggested the following points.

1. He recommended AI&ML course to be incorporated under the Vertical of AI and Digital Twins in Industrial IoT.

The Alumnus Member – Mr. SIJO MATHEW, FPGA Design Engineer, Nokia Networks, L5, Manyatha Tech park Bengaluru, Karnataka has suggested the following points.

1. He is suggested to verify that all topics are covered in both the text and reference books.
8. Meeting was concluded by the Chairperson by thanking the BoS members for their valuable suggestions for enhancing the curriculum and syllabi.



BoS Chairperson

Dr.B. Paulchamy.

Dr. B. PAULCHAMY, M.E., Ph.D.,
Professor & Head
Department of ECE
Hindusthan Institute of Technology
Coimbatore - 641 032.



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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Date: 28.03.2025

Action Taken Report – Ninth Board of Studies Meeting

The Ninth Board of Studies (BoS) Meeting for the Department of Electronics & Communication Engineering was conducted on 13th March 2025 at 11.30 am at the Board Room of Hindusthan Institute of Technology, Coimbatore. Expert members provided their valuable suggestions. The following are the details of action taken in response to the suggestions and discussion carried out during the meeting.

The University Nominee - Dr. P. SEETHALAKSHMI, Associate Professor, Department of Electronics & Communication Engineering, Anna University Regional Campus, Coimbatore.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|--|--|--|
| 1. | She expressed appreciation for the 2024 Regulations well-organized curriculum and the excellent opportunities for students to earn Honors and Minor Degrees. | The curriculum under the 2024 Regulations has been acknowledged and appreciated. The opportunities for students to earn Honors and Minor Degrees have been recognized as commendable. This continuous efforts will be made to maintain and enhance the curriculum structure to the Industry needs. | The 2024 Regulations provide a well-structured and comprehensive curriculum that enhances the quality of education. The inclusion of opportunities for students to earn Honors and Minor Degrees promotes academic flexibility, interdisciplinary learning, and skill development. |
| 2. | She suggested that to ensure the selected courses are relevant to | Necessary modifications and adjustments have been made | Relevant courses provide students, with specialized |

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| | the vertical title. | where required to enhance relevance, it may be carried out to maintain consistency with academic and industry standards. | knowledge and skills directly related to the subject area, enhancing their learning experience and career prospects. |
| 3. | She advised that each unit's content be explained in detail and starting with an introduction in the first unit. | The suggestion taken into consideration and necessary revisions have been made. The first unit has been modified to serve as an introduction. | <p>Providing a detailed explanation of each unit ensures a clear understanding of the subject matter for students.</p> <p>Beginning with an introduction in the first unit establishes a strong foundation, helping students to grasp the fundamental concepts before progressing to advanced topics.</p> |
| 4. | She also recommended that Python tool to be used for coding in Digital Signal Processing. | The recommendation has been implemented by incorporating Python tool for coding in Digital Signal Processing (DSP). The standard Python libraries for DSP, such as NumPy and Matplotlib have been introduced to enhance practical learning and application. | <p>Python's ease of use, extensive community support and compatibility with modern DSP applications make it an ideal tool for students to develop practical skills.</p> <p>Integrating theory cum Lab ensures hands-on learning, real-world application and better preparation for industry and research.</p> |

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| 5. | She recommended that the Research Methodology course to be kept as an open elective instead of a mandatory course. | In accordance with our regulations, the Research Methodology course is to be retained as a Mandatory course. | Retaining Research Methodology as a compulsory course ensures that all students develop essential skills in research design and data analysis. Making it mandatory, guarantees that every student, regardless of their specialization, gains a strong foundation in research methodologies, enabling them to conduct quality research and contribute to knowledge advancement in their respective fields. |
|----|--|--|---|

The External Expert Member I - Dr.M.G.Jibukumar, Department of Electronics and Communication Engineering, School of Engineering, Cochin University of Science and Technology, Cochin.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|--|--|---|
| 6. | He proposed ensuring clear evaluation guidelines for self-learning hours. | The criteria for assessments, including progress tracking, submission requirements, and evaluation metrics, have been defined to ensure consistency and effectiveness. | This approach also encourages students to take responsibility for their self learning while maintaining academic standards. |
| 7. | He pointed out that the content is repetitive in the courses on Wireless Sensor Networks and | Redundant topics have been identified and the syllabus syllabus has been updated. | Identify the reducdant topics will improves curriculum structure and optimizes |

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| Wireless Adhoc Networks. | | instructional time. |
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The External Expert Member II - Dr.D.Nirmal, Department of Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Karunya Nagar, Coimbatore.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|--|--|---|
| 8. | He appreciated the well-structured Mission, Vision and PO-PSO mapping. | The appreciation has been communicated to the concerned faculty and stakeholders to encourage continued adherence to quality academic structuring. | A well-structured Mission, Vision, and PO-PSO mapping ensures a clear alignment between the institution's educational objectives and student learning outcomes. It helps in defining the academic framework, guiding curriculum design, and ensuring that students acquire the necessary skills and competencies relevant to their field. |
| 9. | He emphasized the importance of including standard text and reference books in all courses and making sure every topic is covered. | Provided faculty with guidelines on ensuring that all courses include standard text and reference books and verified that prescribed text books cover all the topics | Using standard text and reference books helps to maintain a high academic standard across all courses. Students are better prepared for exams and competitive assessments when they have access to recognized study materials. |

The Industry Expert – Mr.S.Prabhakaran, Senior Program Manager, Robert Bosch Engineering and Business Solutions Private Limited, CHIL-SEZ Keeranatham Village, Coimbatore.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|--|--|--|
| 10. | He recommended changing the vertical title as "AI & Digital Twins in Industrial IoT" in place of "IoT and Embedded Systems". | The suggestions were taken into consideration, Updated the vertical title from "IoT and Embedded Systems" to "AI & Digital Twins in Industrial IoT | AI-driven Industrial IoT and Digital Twins are widely adopted in industries such as manufacturing, healthcare, and smart infrastructure, making under the courses more relevant to current trends. |

The Alumnus Member – Mr.Sijo Mathew, FPGA Design Engineer, Nokia Networks, L5, Manyatha Tech park Bengaluru.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|---|--|---|
| 11. | He is suggested to verify that all topics are covered in both the text and reference books. | Suggestion taken into consideration and verified that the text and reference books cover all the topics in a comprehensive manner. | A comprehensive textbook ensures students can prepare more efficiently for exams, knowing that all exam-relevant topics are adequately covered in the material. |


BoS Chairperson

Dr.B.Paulchamy
Dr. B. PAULCHAMY, M.E., Ph.D.,
Professor & Head
Department of ECE
Hindusthan Institute of Technology
Coimbatore - 641 032.

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Date: 19.03.2025

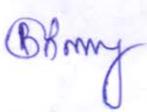
Minutes of Meeting – Ninth Board of Studies Meeting

The Ninth Board of Studies (BoS) Meeting for the Department of Electronics & Communication Engineering was conducted on 13th March 2025 at 11.30 am at the Board Room of Hindusthan Institute of Technology, Coimbatore. Expert members provided their valuable suggestions. The following are the details of the suggestions and discussion carried out during the meeting.

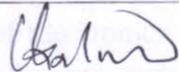
The following was the agenda of the meeting.

1. To discuss UG programme B.E. Electronics & Communication Engineering Curriculum from I to VIII Semesters of Regulation 2024.
2. To pass the Syllabus of Courses in Fifth to Eighth Semester of Regulation 2024 UG Programme B.E. Electronics & Communication Engineering.
3. To discuss the list of Verticals and eligibility for B.E. / B. Tech. (Honors) Degree in the ECE discipline & B.E. / B. Tech. (Minor) Degree in other specialization.
4. To discuss the list of Elective courses under the major domain of ECE (Verticals) in the Regulation 2024.

The following Board of Studies members were present in the meeting:

| S.No. | Details of Board of Studies Members | Signature |
|-------|---|---|
| 1 | Chairperson - BOS Dr B. PAULCHAMY, Professor & Head, Department of Electronics & Communication Engineering Hindusthan Institute of Technology, Coimbatore. |  |
| 2 | University Nominee Dr. P. SEETHALAKSHMI Associate Professor, Department of Electronics & Communication Engineering Anna University Regional Campus, Coimbatore-046. | Participated through Online mode |
| 3 | External Expert Member – I Dr M. G. JIBUKUMAR Department of Electronics and Communication Engineering, School of Engineering, Cochin University of Science and Technology, Cochin. | Participated through Online mode |

| S.No. | Details of Board of Studies Members | Signature | |
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| 4 | External Expert Member – II Dr D. NIRMAL Department of Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Karunya Nagar, Coimbatore. | Participated through Online mode | |
| 5 | Industry Expert Mr PRABHAKARAN. S Senior Program Manager, Robert Bosch Engineering and Business Solutions Private Limited, CHIL-SEZ Keeranatham Village, Coimbatore. | Participated through Online mode | |
| 6 | ALUMNUS Member Mr SIJO MATHEW FPGA Design Engineer, Nokia Networks, L5, Manyatha Tech park Bengaluru, Karnataka. | Participated through Online mode | |
| 7 | Dr. S. KAVITHA Professor | Faculty of Department of Electronics & Communication Engineering | |
| 8 | Dr. P.M. BALASUBRAMANIAM Professor | | |
| 9 | Dr. A. PURUSHOTHAMAN Professor | | |
| 10 | Dr. K. MAHENDRAKAN Associate Professor | | |
| 11 | Dr. K. KALPANA Associate Professor | | |
| 12 | Mr. B. HAKKEM Assistant Professor | | |
| 13 | Mr. K.R KANNAN Assistant Professor | | |
| 14 | Ms. S. BRINDHA Assistant Professor | | |
| 15 | Ms. A. ROOPA SREE Assistant Professor | | |
| 16 | Ms. T. SIVAMANI Assistant Professor | | |
| 17 | Mr. A. ABDUL HAYUM Assistant Professor | | Faculty of Department of Electronics & Communication Engineering |
| 18 | Mr. A. VIDHYASEKAR Assistant Professor | | |
| 19 | Mrs. S. SUGANYA Assistant Professor | | |
| 20 | Mrs. K. KOWSALYA Assistant Professor | | |
| 21 | Mr. R. KARUPPUSAMY Assistant Professor | | |
| 22 | Ms. N. SARANYA Assistant Professor | | |
| 23 | Dr.D.JEYAKUMARI Professor | | |

| S.No. | Details of Board of Studies Members | Signature |
|-------|--------------------------------------|---|
| 24 | Dr.C.KALAMANI Assistant Professor |  |

Special Invitees

| S.No. | Details |
|-------|---|
| 1 | Dr C Natarajan Principal, Hindusthan Institute of Technology, Othakkalmandapam, Coimbatore. |

The following points were discussed in the BOS Meeting:

1. Chairperson of BoS, Dr.B.Paulchamy welcomed the BoS Members.
2. Special address is given by Dr. C. Natarajan, Principal, Hindusthan Institute of Technology, Coimbatore.
3. Dr.B.Paulchamy presented major features of Regulation 2024 and its Curriculum of UG (ECE) was discussed.
4. The R-2024 Syllabus of Courses in Fifth to Eighth Semester of B.E. Electronics & Communication Engineering was passed.
5. The list of Verticals and the rules for B.E. / B. Tech. (Honors) Degree in the ECE discipline & B.E. / B. Tech. (Minor) Degree in other specialization was discussed.
6. The Elective Courses under the following Verticals have been discussed
 - Semiconductor Chip Design and Testing
 - Signal Processing
 - Wireless Networks
 - Communications Systems
 - AI and Digital Twins Industrial IoT
 - Bio medical Technologies

The University Nominee - Dr. P. SEETHALAKSHMI, Associate Professor, Department of Electronics & Communication Engineering, Anna University Regional Campus, Coimbatore has suggested the following points.

1. She expressed appreciation for the 2024 Regulations well-organized curriculum and the excellent opportunities for students to earn Honors and Minor Degrees.
2. It is suggested that she ensure the selected vertical courses are relevant to the title.
3. She advised that each unit's content be explained in detail and starting with an introduction in the first unit.
4. She also recommended that Python tool to be used for coding in Digital Signal Processing.
5. She proposed that the Research Methodology course to be kept as an open elective

instead of a mandatory course.

The External Expert Member I - Dr. M.G. JIBUKUMAR, Department of Electronics and Communication Engineering, School of Engineering, Cochin University of Science and Technology, Cochin has suggested the following points.

6. He recommended ensuring clear evaluation guidelines for self-learning hours.
7. He pointed out that the content is repetitive in the courses on Wireless Sensor Networks and Wireless Adhoc Networks.

The External Expert Member II – Dr. D. NIRMAL, Department of Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Karunya Nagar, Coimbatore has suggested the following points.

8. He appreciated the well-structured Mission, Vision and PO-PSO mapping.
9. He emphasized the importance of including standard text and reference books in all courses and making sure every topic is covered.

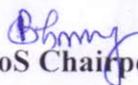
The Industry Expert – Mr. S. PRABHAKARAN, Senior Program Manager, Robert Bosch Engineering and Business Solutions Private Limited, CHIL-SEZ Keeranatham Village, Coimbatore has suggested the following points.

10. He recommended changing the vertical title as "AI & Digital Twins in Industrial IoT" in place of "IoT and Embedded Systems".

The Alumnus Member – Mr. SIJO MATHEW, FPGA Design Engineer, Nokia Networks, L5, Manyatha Tech park Bengaluru, Karnataka has suggested the following points.

11. He is suggested to verify that all topics are covered in both the text and reference books.

7. Meeting was concluded by the Chairperson by thanking the BoS members for their valuable suggestions for enhancing the curriculum and syllabi.


BoS Chairperson
Dr.B. Paulchamy.

Dr. B. PAULCHAMY. M.E., Ph.D.,
Professor & Head
Department of ECE
Hindusthan Institute of Technology
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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Date: 19.10.2024

Action Taken Report – Eighth Board of Studies Meeting

The Eighth Board of Studies (BoS) Meeting for the Department of Electronics & Communication Engineering was conducted on 16th October 2024 at 10.30 am at the Board Room of Hindusthan Institute of Technology, Coimbatore. Expert members provided their valuable suggestions. The following are the details of action taken in response to the suggestions and discussion carried out during the meeting.

The University Nominee - Dr. P. SEETHALAKSHMI, Associate Professor, Department of Electronics & Communication Engineering, Anna University Regional Campus, Coimbatore.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|--|--|---|
| 1. | The Regulations 2024 with respect to the facility given for students to earn Honors Degree and Minor Degree are appreciated. | The Regulations 2024 with respect to the facility given for students to earn Honors Degree and Minor Degree was approved | The Amendments in R-2020 & R-2022 have been proposed with Reference to Centre for Academic Courses, Anna University, Chennai (Amendment to the Regulation 2021 (CBCS) for B.E. / B. Tech. degree Programme offered in Non-Autonomous Affiliated Colleges: Annexure I) |

| | | | |
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| 2. | She is advised to ensure that the curriculum includes an equal distribution of 50% courses in the Electronics domain and 50% courses in the Communication domain | The curriculum has allocated equal weightage to both Electronics and Communication courses. | As technology converges, fields like 5G, IoT, and automation require knowledge from both electronics and communication. A balanced curriculum prepares students to work on these cutting-edge technologies. Graduates with expertise in both fields are more versatile, making them attractive to a wider range of employers in industries like telecommunications, electronics manufacturing, and IT. |
| 3. | She is recommended that all topics in the units be presented in a detailed, step-by-step manner for better student understanding. | The suggestion taken into consideration and verify the the topics in all the units are presented in a detailed, step-by-step manner. | By presenting topics in a structured manner, students can identify complex concepts more easily, breaking them down into manageable sections. |
| 4. | She is suggested changing the course title to "Digital Principles and Computer Organization" instead of "Digital Principles and Computer Architecture." | The title has been changed to "Digital Principles and Computer Organization" instead of "Digital Principles and Computer Architecture." | The revised title can attract students who are interested in both hardware and software aspects of computing, broadening the course's appeal to a wider range of learners. |

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| 5. | She is recommended that in the course on Electrical Control Systems, PLC and SCADA should be included in the fifth unit, with the topics split as follows: the first two units covering Electrical Machines, the third unit focused on Analog Control Systems, the fourth unit on Digital Control Systems, and the fifth unit on Applications. | The suggestions have been incorporated as follows: the first two units cover Electrical Machines, the third unit focuses on Analog Control Systems, the fourth unit on Digital Control Systems, and the fifth unit on Applications of PLC and SCADA. | Knowledge of how Electrical Machines and Control Systems integrate with automation platforms (like PLC/SCADA) gives students a holistic view of how large-scale systems work together, an important skill in system design and troubleshooting |
|----|--|--|--|

The External Expert Member I - Dr.M.G.Jibukumar, Department of Electronics and Communication Engineering, School of Engineering, Cochin University of Science and Technology, Cochin.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|--|--|--|
| 1. | He is proposed that the course on Electromagnetic Fields should be moved to the fourth semester for the convenience of the students. | To lighten the analytical subject load for students in the third semester, the course on Electromagnetic Fields has been shifted to the fourth semester. | With a lighter third-semester load, students may be better prepared for more challenging subjects in later semesters |

The External Expert Member II - Dr.D.Nirmal, Department of Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Karunya Nagar, Coimbatore.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|---|---|---|
| 1. | The Regulations 2024 with respect to the facility given for | The Regulations 2024 with respect to the facility given for | The Amendments in R-2020 & R-2022 have been |

| | | | |
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| | students to earn Honors Degree and Minor Degree are appreciated. | students to earn Honors Degree and Minor Degree was approved. | proposed with Reference to Centre for Academic Courses, Anna University, Chennai (Amendment to the Regulation 2021 (CBCS) for B.E. / B. Tech. degree Programme offered in Non-Autonomous Affiliated Colleges: Annexure I) |
| 2. | He is offered that, to include 5G High Frequency Amplifiers in the Electronics Circuits II course, along with a simulation experiment in the lab, as it would be beneficial for the students. | The suggestions have been implemented by including 5G High Frequency Amplifiers in the Electronics Circuits II course, along with a simulation experiment in the lab, which would greatly benefit the students. | Knowledge of high-frequency amplifiers is crucial for advanced study in fields such as wireless communications, satellite systems, and signal processing. |

The Industry Expert – Mr.S.Prabhakaran, Senior Program Manager, Robert Bosch Engineering and Business Solutions Private Limited, CHIL-SEZ Keeranatham Village, Coimbatore.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|--|--|--|
| 1. | He is recommended that, in the course on Communication Theory, the units should be divided into Analog and Digital Modulation and Noise characterization to be included instead of random process. | The suggestions were taken into consideration, and the units will be divided into Analog and Digital Modulation, with Noise Characterization included in place of Random Process, which students have already studied in their mathematics | With an emphasis on modulation techniques and noise characterization, students will be better prepared to work in industries such as telecommunications, media, and electronics, where understanding the impact of noise and signal integrity is |

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| | | course. | crucial. By removing the Random Process topic from the course, students can focus on new, relevant content rather than revisiting concepts they've already covered in mathematics, ensuring a more efficient use of time. |
|--|--|---------|--|

The Alumnus Member – Mr.Sijo Mathew, FPGA Design Engineer, Nokia Networks, L5,
Manyatha Tech park Bengaluru.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|---|---|---|
| 1. | He is suggested that, to verify that all topics are covered in both the text and reference books. | Subject experts recommended that the textbook and reference books cover all the topics in a comprehensive manner. . | A comprehensive textbook ensures students can prepare more efficiently for exams, knowing that all exam-relevant topics are adequately covered in the material. |

**BoS Chairperson
Dr. B. Paulchamy.**

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Date: 19.10.2024

Minutes of Meeting – Eighth Board of Studies Meeting

The Eighth Board of Studies (BoS) Meeting for the Department of Electronics & Communication Engineering was conducted on 16th October 2024 at 10.30 am at the Board Room of Hindusthan Institute of Technology, Coimbatore. Expert members provided their valuable suggestions. The following are the details of the suggestions and discussion carried out during the meeting.

The following was the agenda of the meeting.

1. To discuss UG programme B.E. Electronics & Communication Engineering Curriculum from I to VIII Semesters of Regulation 2024.
2. To pass the Syllabus of Courses in Third and Fourth Semester of Regulation 2024 UG Programme B.E. Electronics & Communication Engineering.
3. To discuss the list of Verticals and eligibility for B.E. / B. Tech. (Honors with Specialization) Degree, B.E. / B. Tech. (Honors) Degree in the ECE discipline & B.E. / B. Tech. (Minor) Degree in other specialization.
4. To discuss the list of Elective courses under the major domain of ECE (Verticals) in the Regulation 2024.

The following Board of Studies members were present in the meeting:

| S.No. | Details of Board of Studies Members | Signature |
|-------|--|---|
| 1 | Chairperson - BOS Dr B. PAULCHAMY, Professor & Head, Department of Electronics & Communication Engineering Hindusthan Institute of Technology, Coimbatore. |  |
| 2 | University Nominee Dr. P. SEETHALAKSHMI Associate Professor, Department of Electronics & Communication Engineering Anna University Regional Campus, Coimbatore-046. |  |
| 3 | External Expert Member – I Dr M. G. JIBUKUMAR Department of Electronics and Communication Engineering, School of Engineering, Cochin University of Science and Technology, | Participated through Online mode |

| S.No. | Details of Board of Studies Members | Signature | |
|-------|---|---|---|
| | Cochin. | | |
| 4 | External Expert Member – II Dr D. NIRMAL Department of Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Karunya Nagar, Coimbatore. | Participated through Online mode | |
| 5 | Industry Expert Mr PRABHAKARAN. S Senior Program Manager, Robert Bosch Engineering and Business Solutions Private Limited, CHIL-SEZ Keeranatham Village, Coimbatore. | Participated through Online mode | |
| 6 | ALUMNUS Member Mr SIJO MATHEW FPGA Design Engineer, Nokia Networks, L5, Manyatha Tech park Bengaluru, Karnataka. | Participated through Online mode | |
| 7 | Dr. S. KAVITHA Professor | Faculty of Department of Electronics & Communication Engineering | |
| 8 | Dr. P.M. BALASUBRAMANIAM Professor | | |
| 9 | Dr. A. PURUSHOTHAMAN Professor | | |
| 10 | Dr. K. MAHENDRAKAN Associate Professor | | |
| 11 | Dr. K. KALPANA Associate Professor | | |
| 12 | Mr. B. HAKKEM Assistant Professor | | |
| 13 | Mr. K.R KANNAN Assistant Professor | | |
| 14 | Ms. S. BRINDHA Assistant Professor | | |
| 15 | Ms. A. ROOPA SREE Assistant Professor | | |
| 16 | Ms. T. SIVAMANI Assistant Professor | | |
| 17 | Mr. A. ABDUL HAYUM Assistant Professor | | Faculty of Department of Electronics & Communication Engineering |
| 18 | Mr. A. VIDHYASEKAR Assistant Professor | | |
| 19 | Mrs. S. SUGANYA Assistant Professor | | |
| 20 | Mrs. K. KOWSALYA Assistant Professor | | |
| 21 | Ms. A.S. NARMADHA Assistant Professor | | |
| 22 | Mr. R. KARUPPUSAMY Assistant Professor | | |

| S.No. | Details of Board of Studies Members | Signature |
|-------|---------------------------------------|---|
| 23 | Ms. N. SARANYA Assistant Professor |  |

Special Invitees

| S.No. | Details |
|-------|---|
| 1 | Dr C Natarajan Principal, Hindusthan Institute of Technology, Othakkalmandapam, Coimbatore. |

The following points were discussed in the BOS Meeting:

1. Chairperson of BoS, Dr.B.Paulchamy welcomed the BoS Members.
2. Special address is given by Dr. C. Natarajan, Principal, Hindusthan Institute of Technology, Coimbatore.
3. Dr.B.Paulchamy presented major features of Regulation 2024 and its Curriculum of UG (ECE) was discussed.
4. The R-2024 Syllabus of Courses in Third and Fourth Semester of B.E. Electronics & Communication Engineering was passed.
5. The list of Verticals and the rules for B.E. / B. Tech. (Honors with Specialization) Degree, B.E. / B. Tech. (Honors) Degree in the ECE discipline & B.E. / B. Tech. (Minor) Degree in other specialization was discussed.
6. The Elective Courses under the following Verticals have been discussed
 - Semiconductor Chip Design and Testing
 - Signal Processing
 - Wireless Networks
 - High Speed Communications
 - IoT and Embedded Systems
 - Computer Communication Systems

The University Nominee - Dr. P. SEETHALAKSHMI, Associate Professor, Department of Electronics & Communication Engineering, Anna University Regional Campus, Coimbatore has suggested the following points.

1. The Regulations 2024 with respect to the facility given for students to earn Honors Degree and Minor Degree are appreciated.
2. It is recommended to ensure that the curriculum includes an equal distribution of 50% courses in the Electronics domain and 50% courses in the Communication domain.
3. She recommended that all topics in the units be presented in a detailed, step-by-step manner for better student understanding.
4. She also suggested changing the course title to "Digital Principles and Computer Organization" instead of "Digital Principles and Computer Architecture."

5. She suggested that in the course on Electrical Control Systems, PLC and SCADA should be included in the fifth unit, with the topics split as follows: the first two units covering Electrical Machines, the third unit focused on Analog Control Systems, the fourth unit on Digital Control Systems, and the fifth unit on Applications.

The External Expert Member I - Dr. M.G. JIBUKUMAR, Department of Electronics and Communication Engineering, School of Engineering, Cochin University of Science and Technology, Cochin has suggested the following points.

1. He is proposed that the course on Electromagnetic Fields should be moved to the fourth semester for the convenience of the students.

The External Expert Member II – Dr. D. NIRMAL, Department of Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Karunya Nagar, Coimbatore has suggested the following points.

1. The Regulations 2024 with respect to the facility given for students to earn Honors Degree and Minor Degree are appreciated.
2. He is offered that, to include 5G High Frequency Amplifiers in the Electronics Circuits II course, along with a simulation experiment in the lab, as it would be beneficial for the students.

The Industry Expert – Mr. S. PRABHAKARAN, Senior Program Manager, Robert Bosch Engineering and Business Solutions Private Limited, CHIL-SEZ Keeranatham Village, Coimbatore has suggested the following points.

1. He is recommended that, in the course on Communication Theory, the units should be divided into Analog and Digital Modulation and Noise characterization to be included instead of random process.

The Alumnus Member – Mr. SIJO MATHEW, FPGA Design Engineer, Nokia Networks, L5, Manyatha Tech park Bengaluru, Karnataka has suggested the following points.

1. He is suggested to verify that all topics are covered in both the text and reference books.
7. Meeting was concluded by the Chairperson by thanking the BoS members for their valuable suggestions for enhancing the curriculum and syllabi.


BoS Chairperson
Dr.B. Paulchamy.

Dr. B. PAULCHAMY, M.E., Ph.D.,
Professor & Head
Department of ECE
Hindusthan Institute of Technology
Coimbatore - 641 032.



HINDUSTHAN INSTITUTE OF TECHNOLOGY

Coimbatore-641032

(An Autonomous Institution)

(Approved By AICTE, New Delhi, Affiliated To Anna University, Chennai,
Accredited by NBA & NAAC with 'A' Grade)



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Date: 20.03.2024

Action Taken Report – Seventh Board of Studies Meeting

The Seventh Board of Studies (BoS) Meeting for the Department of Electronics & Communication Engineering was conducted on 14th March 2024 at 02.30 pm at the Board Room of Hindusthan Institute of Technology, Coimbatore. Expert members provided their valuable suggestions. The following are the details of action taken in response to the suggestions and discussion carried out during the meeting.

The University Nominee - Dr.G.UmaMaheswari, Associate Professor, Department of Electronics & Communication Engineering, PSG College of Technology, Coimbatore.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|--|--|---|
| 1. | The Regulations 2024 with respect to the facility given for students to earn Honors Degree and Minor Degree are appreciated. | The Regulations 2024 with respect to the facility given for students to earn Honors Degree and Minor Degree was approved | The Amendments in R-2020 & R-2022 have been proposed with Reference to Centre for Academic Courses, Anna University, Chennai (Amendment to the Regulation 2021 (CBCS) for B.E. / B. Tech. degree Programme offered in Non-Autonomous Affiliated Colleges: Annexure I) |
| 2. | It is suggested that to check Recent edition of Text and Reference Books in all courses. | The recent edition text and reference books can be incorporate in all courses. | The revised version of books included in all courses is helpful to update the knowledge of new topics. |

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|----|---|--|---|
| 3. | It is suggested that to verify the Text books and Reference Books covered all the topics. | The suggestion taken into consideration and verify the all the topics are covered by the text books and Reference books. | All the topics in the course are covered either Text books or by Reference books. |
|----|---|--|---|

The External Expert Member I - Dr.M.G.Jibukumar, Department of Electronics and Communication Engineering, School of Engineering, Cochin University of Science and Technology, Cochin.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|--|--|--|
| 1. | It is suggested that In the course of 22EC428 Optical Communication and Microwave Engineering Lab, to design an antennas by using simulation software. | The experiment have incorporated for Designing a Microstrip patch antenna using HFSS software. | Students can learned easily by using simulation software in the Microwave Lab. |

The External Expert Member II - Dr.D.Nirmal, Department of Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Karunya Nagar, Coimbatore.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|--|---|--|
| 1. | The Regulations 2024 with respect to the facility given for students to earn Honors Degree and Minor Degree are appreciated. | The Regulations 2024 with respect to the facility given for students to earn Honors Degree and Minor Degree was approved. | The Amendments in R-2020 & R-2022 have been proposed with Reference to Centre for Academic Courses, Anna University, Chennai (Amendment to the Regulation 2021 (CBCS) for B.E. / B. Tech. degree Programme offered in Non- |

| | | | |
|----|---|---|---|
| | | | Autonomous Affiliated Colleges: Annexure I) |
| 2. | He suggested that, In the course of 22EC424 Microwave Engineering, to add High power microwave amplifiers in the 4 th unit which is helpful to students. | The topic of high power microwave amplifiers have incorporated in the 4 th unit. | Students can studied high power microwave amplifiers which will helps in the fields of telecommunications, navigation, and food processing etc. |

The Industry Expert – Mr.S.Prabhakaran, Senior Program Manager, Robert Bosch Engineering and Business Solutions Private Limited, CHIL-SEZ Keeranatham Village, Coimbatore.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|---|--|--|
| 1. | He Suggest that In the course of 22EC426 Embedded and Real Time Systems, to add case studies and real time applications which are in the area of focus in Industry side | The suggestions was taken into consideration, the case studies and real time applications are incorporated in the 5 th unit | Students can studied the real time applications which are very heplful in their placement. |

The Alumnus Member – Mr.Sijo Mathew, FPGA Design Engineer, Nokia Networks, L5, Manyatha Tech park Bengaluru.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|---|--|---|
| 1. | He told to provide more verticals in the ECE domine as ammedments of next Board of studies which is hepful to students. | The suggestions was taken into consideration as ammedments in the next Board of Studies. | Provide more number of verticals to the students, can have more choices for opting their Electives, Major and Minor domain. |


BOS Chairperson
Dr. B. Paulchamy.

Dr. B. PAULCHAMY, M.E., Ph.D.,
Professor & Head
Department of ECE
Hindusthan Institute of Technology
Coimbatore - 641 032.



HINDUSTHAN INSTITUTE OF TECHNOLOGY
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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Date: 20.03.2024

Minutes of Meeting – Seventh Board of Studies Meeting

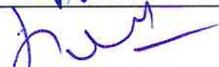
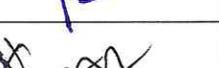
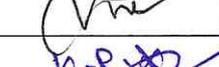
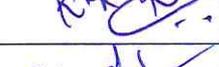
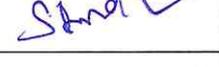
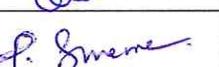
The Seventh Board of Studies (BoS) Meeting for the Department of Electronics & Communication Engineering was conducted on 14th March 2024 at 02.30 pm at the Board Room of Hindusthan Institute of Technology, Coimbatore. Expert members provided their valuable suggestions. The following are the details of the suggestions and discussion carried out during the meeting.

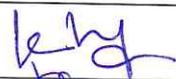
The following was the agenda of the meeting.

1. To discuss UG programme B.E. Electronics & Communication Engineering Curriculum from I to VIII Semesters of Regulation 2024.
2. To discuss PG Programme M.E. VLSI Design Curriculum from I to IV Semesters of Regulation 2024.
3. To pass the Syllabus of Courses in First and Second Semester of Regulation 2024 UG Programme B.E. Electronics & Communication Engineering.
4. To pass the Syllabus of Courses in One to Four Semesters of Regulation 2024 PG Programme M.E. VLSI Design.
5. To pass the Syllabus of Courses in Seventh and Eighth Semester of Regulation 2022 UG Programme B.E. Electronics & Communication Engineering.
6. To discuss the list of Verticals and eligibility for B.E. / B. Tech. (Honors with Specialization) Degree, B.E. / B. Tech. (Honors) Degree in the ECE discipline & B.E. / B. Tech. (Minor) Degree in other specialization.
7. To pass the Syllabi for the Courses under Verticals.

The following Board of Studies members were present in the meeting:

| S.No. | Details of Board of Studies Members | Signature |
|-------|---|-----------|
| 1 | Chairperson - BOS Dr B Paulchamy, Professor & Head, Department of Electronics & Communication Engineering Hindusthan Institute of Technology, Coimbatore. | |

| S.No. | Details of Board of Studies Members | | Signature |
|-------|---|---|---|
| 2 | University Nominee Dr Uma Maheswari G Associate Professor, Department of Electronics & Communication Engineering PSG College of Technology, Coimbatore. | | Participated through Online mode |
| 3 | External Expert Member – I Dr M G Jibukumar Department of Electronics and Communication Engineering, School of Engineering, Cochin University of Science and Technology, Cochin. | | Participated through Online mode |
| 4 | External Expert Member – II Dr D Nirmal Department of Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Karunya Nagar, Coimbatore. | | Participated through Online mode |
| 5 | Industry Expert Mr Prabhakaran S Senior Program Manager, Robert Bosch Engineering and Business Solutions Private Limited, CHIL-SEZ Keeranatham Village, Coimbatore. | | Participated through Online mode |
| 6 | ALUMNUS Member Mr Sijo Mathew FPGA Design Engineer, Nokia Networks, L5, Manyatha Tech park Bengaluru, Karnataka. | | Participated through Online mode |
| 7 | Dr. S. KAVITHA Professor | Faculty of Department of Electronics & Communication Engineering |  |
| 8 | Dr.P.M. BALASUBRAMANIAM Professor | |  |
| 9 | Dr.A.PURUSHOTHAMAN Professor | |  |
| 10 | Dr.K.MAHENDRAKAN Associate Professor | |  |
| 11 | Dr.K.KALPANA Associate Professor | |  |
| 12 | Mr.B.HAKKEM Assistant Professor | |  |
| 13 | Mr.K R KANNAN Assistant Professor | |  |
| 14 | Ms.S. BRINDHA Assistant Professor | |  |
| 15 | Ms.ROOPA SREE Assistant Professor | |  |
| 16 | Ms.T.SIVAMANI Assistant Professor | |  |
| 17 | Mr.A.ABDUL HAYUM Assistant Professor | |  |
| 18 | Mr.A.VIDHYASEKAR Assistant Professor | |  |

| S.No. | Details of Board of Studies Members | | Signature |
|-------|---|---|---|
| 19 | Mrs.S.SUGANYA Assistant Professor | Faculty of Department of Electronics & Communication Engineering |  |
| 20 | Mrs.K.KOWSALYA Assistant Professor | |  |
| 21 | Ms.A.S.NARMADHA Assistant Professor | |  |
| 22 | Mr.R.KARUPPUSAMY Assistant Professor | |  |
| 23 | Ms.RINEESHA Assistant Professor | |  |
| 24 | Ms.N.SARANYA Assistant Professor | |  |

Special Invitees

| S.No. | Details |
|-------|---|
| 1 | Dr C Natarajan Principal, Hindusthan Institute of Technology, Othakkalmandapam, Coimbatore. |

The following points were discussed in the BOS Meeting:

1. Chairperson of BoS, Dr.B.Paulchamy welcomed the BoS Members.
2. Special address is given by Dr. C. Natarajan, Principal, Hindusthan Institute of Technology, Coimbatore.
3. Dr.B.Paulchamy presented major features of Regulation 2024 and its Curriculum of both UG (ECE) and PG (VLSI Design) were discussed.
4. The R-2024 Syllabus of Courses in First and Second Semester of B.E. Electronics & Communication Engineering was passed.
5. The R-2024 Syllabus of Courses in One to Four Semesters of M.E. VLSI Design was passed.
6. The R-2022 Syllabus of Courses in Seventh and Eighth Semester of B.E. Electronics & Communication Engineering was passed.
7. The list of Verticals and the rules for B.E. / B. Tech. (Honors with Specialization) Degree, B.E. / B. Tech. (Honors) Degree in the ECE discipline & B.E. / B. Tech. (Minor) Degree in other specialization was discussed.
8. The Syllabi for the Courses under the following Verticals have been discussed
 - Semiconductor Chip Design and Testing
 - Signal Processing
 - Wireless Networks
 - High Speed Communications
 - IoT and Embedded Systems

➤ Computer Communication Systems

The University Nominee - Dr.G.UmaMaheswari, Associate Professor, Department of Electronics & Communication Engineering, PSG College of Technology, Coimbatore has suggested the following points.

1. The Regulations 2024 with respect to the facility given for students to earn Honors Degree and Minor Degree are appreciated.
2. It is suggested that to check recent edition of Text and Reference Books in all courses.
3. Also suggested that to verify the Text books and Reference Books covered all the topics.

The External Expert Member I - Dr.M.G.Jibukumar, Department of Electronics and Communication Engineering, School of Engineering, Cochin University of Science and Technology, Cochin has suggested the following points.

1. It is suggested that the In the course of 22EC428 Optical Communication and Microwave Engineering Lab, to design an antennas using simulation software.

The External Expert Member II – Dr.D.Nirmal, Department of Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Karunya Nagar, Coimbatore has suggested the following points.

1. The Regulations 2022 with respect to the facility given for students to earn Honors Degree and Minor Degree are appreciated.
2. He suggested that, In the course of 22EC424 Microwave Engineering, to add High power microwave amplifiers in the 4th unit which is helpful to students.

The Industry Expert – Mr.S.Prabhakaran, Senior Program Manager, Robert Bosch Engineering and Business Solutions Private Limited, CHIL-SEZ Keeranatham Village, Coimbatore has suggested the following points.

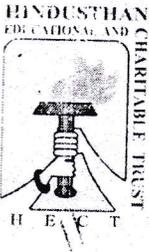
1. He Suggest that In the course of 22EC426 Embedded and Real Time Systems, to add case studies and real time applications in the fifth unit.

The Alumnus Member – Mr.Sijo Mathew, FPGA Design Engineer, Nokia Networks, L5, Manyatha Tech park Bengaluru, Karnataka has suggested the following points.

1. He suggested that the Provide more number of verticals to the students, can have more choices for opting their Electives, Major and Minor domain.
9. Meeting was concluded by the Chairperson by thanking the BoS members for their valuable suggestions for enhancing the curriculum and syllabi.


BoS Chairperson
Dr.B. Paulchamy.

Dr. B. PAULCHAMY, M.E., Ph.D.,
Professor & Head
Department of ECE
Hindusthan Institute of Technology
Coimbatore - 641 032.



HINDUSTHAN INSTITUTE OF TECHNOLOGY
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(Approved By AICTE, New Delhi, Affiliated To Anna University, Chennai,



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Date: 13.09.2023.

Minutes of Meeting – Sixth Board of Studies Meeting

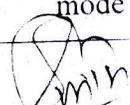
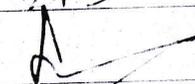
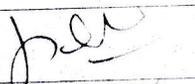
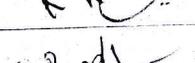
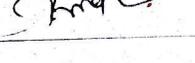
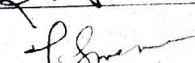
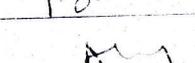
The Sixth Board of Studies (BOS) Meeting for the Department of Electronics & Communication Engineering was conducted on 08th September 2023 at 02.30 pm at the Board Room of Hindusthan Institute of Technology, Coimbatore. Expert members provided their valuable suggestions. The following are the details of the suggestions and discussion carried out during the meeting.

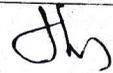
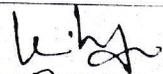
The following was the agenda of the meeting.

1. To discuss UG programme B.E. Electronics & Communication Engineering Curriculum from I to VIII Semesters of Regulation 2022.
2. To discuss PG Programme M.E. VLSI Design Curriculum from I to IV Semesters of Regulation 2022.
3. To pass the Syllabus of Courses in Fifth and Sixth Semester of UG Programme B.E. Electronics & Communication Engineering.
4. To discuss the list of Verticals and eligibility for B.E. / B. Tech. (Honors with Specialization) Degree, B.E. / B. Tech. (Honors) Degree in the ECE discipline & B.E. / B. Tech. (Minor) Degree in other specialization.
5. To pass the Syllabi for the Courses under Verticals.

The following Board of Studies members were present in the meeting:

| S.No. | Details of Board of Studies Members | Signature |
|-------|---|----------------------------------|
| 1 | Chairperson - BOS Dr B Paulchamy, Professor & Head, Department of Electronics & Communication Engineering Hindusthan Institute of Technology, Coimbatore. | |
| 2 | University Nominee Dr Uma Maheswari G Associate Professor, Department of Electronics & Communication Engineering PSG College of Technology, Coimbatore. | Participated through Online mode |

| S.No. | Details of Board of Studies Members | | Signature |
|-------|---|---|---|
| 3 | External Expert Member – I Dr M G Jibukumar Department of Electronics and Communication Engineering, School of Engineering, Cochin University of Science and Technology, Cochin. | | Participated through Online mode |
| 4 | External Expert Member – II Dr D Nirmal Department of Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Karunya Nagar, Coimbatore. | | Participated through Online mode |
| 5 | Industry Expert Mr Prabhakaran S Senior Program Manager, Robert Bosch Engineering and Business Solutions Private Limited, CHIL-SEZ Keeranatham Village, Coimbatore. | | Participated through Online mode |
| 6 | ALUMNUS Member Mr Sijo Mathew FPGA Design Engineer, Nokia Networks, L5, Manyatha Tech park Bengaluru, Karnataka. | | Participated through Online mode |
| 7 | Dr. S. KAVITHA Professor | Faculty of Department of Electronics & Communication Engineering |  |
| 8 | Dr. V. SURESH BABU Associate Professor | |  |
| 9 | Dr.K.MAHENDRAKAN Associate Professor | |  |
| 10 | Dr.A.PURUSHOTHAMAN Associate Professor | |  |
| 11 | Dr. K. KALPANA Associate Professor | |  |
| 12 | Mr.B HAKKEM Assistant Professor | |  |
| 13 | Mr.K R KANNAN Assistant Professor | |  |
| 14 | Ms.S. BRINDHA Assistant Professor | |  |
| 15 | Ms.S RAMYA Assistant Professor | |  |
| 16 | Ms.T.SIVAMANI Assistant Professor | |  |
| 17 | Mr.A.ABDUL HAYUM Assistant Professor |  | |
| 18 | Mr.VIDHYA SEKAR Assistant Professor |  | |

| S.No. | Details of Board of Studies Members | Signature |
|-------|---|---|
| 19 | Mrs.S.SUGANYA Assistant Professor |  |
| 20 | Mrs.K.KOWSALYA Assistant Professor |  |
| 21 | Ms.A.S.NARMADHA Assistant Professor |  |
| 22 | Mr.R.KARUPPUSAMY Assistant Professor |  |
| 23 | Ms.RENISHA Assistant Professor |  |

Special Invitees

| S.No. | Details |
|-------|---|
| 1 | Dr C Natarajan Principal, Hindusthan Institute of Technology, Othakkalmandapam, Coimbatore. |

The following points were discussed in the BOS Meeting:

1. Chairperson of BoS, Dr.B.Paulchamy welcomed the BoS Members.
2. Special address is given by Dr. C. Natarajan, Principal, Hindusthan Institute of Technology, Coimbatore.
3. Dr.B.Paulchamy presented major features of Regulation 2022 and its Curriculum of both UG (ECE) and PG (VLSI Design) were discussed.
4. The R-2022 Syllabus of Courses in Fifth and Sixth Semester of B.E. Electronics & Communication Engineering was passed.
5. The list of Verticals and the rules for B.E. / B. Tech. (Honors with Specialization) Degree, B.E. / B. Tech. (Honors) Degree in the ECE discipline & B.E. / B. Tech. (Minor) Degree in other specialization was discussed.
6. The Syllabi for the Courses under the following Verticals have been discussed
 - Semiconductor Chip Design and Testing.
 - Signal Processing
 - Sensor Technologies
 - High Speed Communications

The University Nominee - Dr.G.UmaMaheswari, Associate Professor, Department of Electronics & Communication Engineering, PSG College of Technology, Coimbatore has suggested the following points.

1. The Regulations 2022 with respect to the facility given for students to earn Honors Degree and Minor Degree are appreciated.
2. It is suggested that to check recent edition of Text and Reference Books in all courses.
3. Also suggested that to verify the Text books and Reference Books covered all the topics.

The External Expert Member I - Dr.M.G.Jibukumar, Department of Electronics and Communication Engineering, School of Engineering, Cochin University of Science and Technology, Cochin has suggested the following points.

1. It is suggested that the Basics of MATLAB Programming - Commands and functions are removed in V unit because the same was learned in the DSP Lab.

The External Expert Member II - Dr.D.Nirmal, Department of Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Karunya Nagar, Coimbatore has suggested the following points.

1. The Regulations 2022 with respect to the facility given for students to earn Honors Degree and Minor Degree are appreciated.
2. He suggested that to add two more verticals in the ECE domine as ammedments of next Board of studies which is helpful to students.

The Industry Expert - Mr.S.Prabhakaran, Senior Program Manager, Robert Bosch Engineering and Business Solutions Private Limited, CHIL-SEZ Keeranatham Village, Coimbatore has suggested the following points.

1. He Suggest that to add Advanced Microprocessor course for elective which is in the area of focus in Industry side

The Alumnus Member - Mr.Sijo Mathew, FPGA Design Engineer, Nokia Networks, L5, Manyat Tech park Bengaluru, Karnataka has suggested the following points.

1. He suggested that the vertical name to be change as IOT and Sensor Technologies.
7. Meeting was concluded by the Chairperson by thanking the BOS members for their valuable suggestions for enhancing the curriculum and syllabi.


BoS Chairpers
Dr.B. Paulchan

Dr. B. PAULCHAMY, M.E., Ph.D.



HINDUSTHAN INSTITUTE OF TECHNOLOGY

Coimbatore-641032

(An Autonomous Institution)

(Approved By AICTE, New Delhi, Affiliated To Anna University, Chennai,



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Date: 13.09.2023

Action Taken Report – Sixth Board of Studies Meeting

The Sixth Board of Studies (BOS) Meeting for the Department of Electronics & Communication Engineering was conducted on 08th September 2023 at 02.30 pm at the Board Room of Hindusthan Institute of Technology, Coimbatore. Expert members provided their valuable suggestions. The following are the details of action taken in response to the suggestions and discussion carried out during the meeting.

The University Nominee - Dr.G.UmaMaheswari, Associate Professor, Department of Electronics & Communication Engineering, PSG College of Technology, Coimbatore.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|--|--|---|
| 1. | The Regulations 2022 with respect to the facility given for students to earn Honors Degree and Minor Degree are appreciated. | The Regulations 2022 with respect to the facility given for students to earn Honors Degree and Minor Degree was approved | The Amendments in R-2020 & R-2022 have been proposed with Reference to Centre for Academic Courses, Anna University, Chennai (Amendment to the Regulation 2021 (CBCS) for B.E. / B. Tech. degree Programme offered in Non-Autonomous Affiliated Colleges: Annexure I) |
| 2. | It is suggested that to check Recent edition of Text and Reference Books in all courses. | The recent edition text and reference books can be incorporate in all courses. | The revised version of books included in all courses is helpful to update the knowledge of new topics. |

| | | | |
|----|---|--|---|
| 3. | It is suggested that to verify the Text books and Reference Books covered all the topics. | The suggestion taken into consideration and verify the all the topics are covered by the text books and Reference books. | All the topics in the course are covered either Text books or by Reference books. |
|----|---|--|---|

The External Expert Member I - Dr.M.G.Jibukumar, Department of Electronics and Communication Engineering, School of Engineering, Cochin University of Science and Technology, Cochin.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|--|--|---|
| 1. | It is suggested that the Basics of MATLAB Programming- Commands and functions are removed in V unit because the same was learned in the DSP Lab. | Basics of MATLAB Programming- Commands and functions can be removed in V unit. | Students can learned programming in the DSP Lab. Instead of that topic introduce architectures of digital signal processors and its features in the V Unit. |

The External Expert Member II - Dr.D.Nirmal, Department of Electronics and Communication Engineering, Karunya Institute of Technology and Sciences, Karunya Nagar, Coimbatore.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|--|---|--|
| 1. | The Regulations 2022 with respect to the facility given for students to earn Honors Degree and Minor Degree are appreciated. | The Regulations 2022 with respect to the facility given for students to earn Honors Degree and Minor Degree was approved. | The Amendments in R-2020 & R-2022 have been proposed with Reference to Centre for Academic Courses, Anna University, Chennai (Amendment to the Regulation 2021 (CBCS) for B.E. / B. Tech. degree |

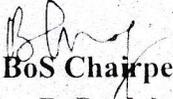
| | | | |
|----|---|---|---|
| | | | Programme offered in No Autonomous Affiliated Colleges: Annexure I) |
| 2. | He told to add two more verticals in the ECE domine as ammedments of next Board of studies which is hepful to students. | The suggestions was taken into consideration as ammendments in the next Board of Studies. | Provide more number verticals to the students, c have more choices of opting their Electives. |

The Industry Expert – Mr.S.Prabhakaran, Senior Program Manager, Robert Bosch Engineering and Business Solutions Private Limited, CHIL-SEZ Keeranatham Village, Coimbatore.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|--|--|--|
| 1. | Suggest to add Advanced Microprocessor course which is in the area of focus in Industry side | Advanced Microprocessor course will be include in the upcoming verticals | Advanced Microproces course can be added verticals in the upcoming verticals |

The Alumnus Member – Mr.Sijo Mathew, FPGA Design Engineer, Nokia Networks, L5 Manyatha Tech park Bengaluru.

| S.No. | Suggestions | Action Taken | Justifications |
|-------|--|--|---|
| 1. | He suggested that the vertical name to be change as IOT and Sensor Technologies. | The suggestion taken into consideration. | Machine Leaning courses the vertical-3, since the change as IOT and Ser Technologies. |


BoS Chairperso
Dr. B. Paulcham

Dr. B. PAULCHAMY, M.E., Ph.D.
Professor & Head
Department of ECE
Hindusthan Institute of Technolog
Coimbatore - 641 032.