



NANDHA
Engineering College, Erode -638 052

(An Autonomous Institution, Affiliated to Anna University Chennai and Approved by AICTE New Delhi)

MINUTES OF THE 3rd BOARD OF STUDIES MEETING

| | |
|--------------------------|---|
| Name of the Body | Board of Studies |
| Name of the Board | Computer Science and Engineering (Cyber Security) |
| Meeting No. | 3 |
| Date & Time | 01.06.2024, 10.00 am |
| Mode | Offline Mode (Board Room) |
| Academic year | 2023-24 |



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Minutes of 3rd Board of Studies Meeting (BoS) held on 01.06.2024

The 3rd Board of Studies (BoS) meeting was held on 01.06.2024 by 10.00 am at Board room, Nandha Engineering College. The members attended the meeting are given in **Annexure I**.

Dr. Vanathi D, Chairman CSE, CSE (CS) & CSE (IoT) and HoD / CSE, chaired the meeting, welcomed all the members to the 3rd BoS meeting followed by introduction of the members. After the brief introduction, the agenda items listed below were taken up for discussion and the following resolutions were passed.

AGENDA

| | |
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| Item3 .01 | Welcome address and Introduction of members. |
| Item 3.02 | Approval of 2 nd BoS Meeting Minutes and Action taken report (ATR) |
| Item 3.03 | Review of the PAC and DAB meeting minutes. |
| Item 3.04 | Review of Institute Vision & Mission. |
| Item 3.05 | Review of Department Vision, Mission, PEOs and PSOs. |
| Item 3.06 | Regulation-22-Curriculum & Syllabus Review/Approval and Updates - Discussion on Curriculum changes, Additions, or Deletions and Approval |
| Item 3.07 | Review of R22 ratifications. |
| Item 3.08 | Review of Value-added courses. |
| Item 3.09 | Review of Panel of Examiners. |
| Item 3.10 | Any other matter |

- TLP pedagogy to be followed
- Effectiveness of Hackathons
- NEC dept. Specific best practices followed and details of best practices followed in the experts institutions
- Suggestions to change assessment patterns?
- Flexibility provided to fast learners in the experts institutions
- Flexibility in working hours after college hours



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The proceedings of BoS started. The discussions and resolutions are recorded as follows:

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| Item 3.01 | Welcome note and introduction of members | | |
| | Dr. Vanathi D, Chairman BoS introduced the members and welcomed all followed by a brief note on functioning of BoS. | | |
| Item- 3.02 | Review and approval of the 2 nd BoS meeting minutes and ATR | | |
| Discussion | The salient decisions taken in the 2 nd BoS meeting and action taken on the following point were presented. | | |
| | SNO | Suggestions | Action taken |
| | 1 | The members suggested to check the correlation mapping between PEO and PSO | ✓ Verified |
| | 2 | <p><u>2nd Semester:</u></p> <p><u>C and Linear Data structures</u></p> <ul style="list-style-type: none"> ● Dr. Karthika Renuka D, suggested to modify the course name and recommended the title “Data Structures using C” ● Dr. Jothi K.R, suggested to combine pointers and function as one unit. He also stated that 9 hours is too long for stack and queue given as two different units. ● Mr. Santhosh Kumar AP, recommended to include Tree concept till AVL tree here. <p><u>Digital Principles and Computer Organization</u></p> <ul style="list-style-type: none"> ● Dr. Karthika Renuka. D and Dr. Jothi K.R , recommended to include some concepts related to Computer Architecture rather than having 3 units of Digital Principles. | <p>✓ Modified the topic as per the suggestion</p> <p>✓ Changed</p> <p>✓ Modified</p> <p>✓ Included</p> |



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| | 3 | <p><u>4th Semester</u></p> <p><u>Artificial Intelligence & Machine Learning</u></p> <ul style="list-style-type: none"> • Dr. Jothi K.R , suggested to reduce Unit -V: Neural Networks and include case studies <p><u>5th & 6th Semester</u></p> <p><u>Advanced Java Programming</u></p> <ul style="list-style-type: none"> • Dr.Karthika Renuka D, suggested to change the title of UNIT II as Database connectivity and to bring socket programming to UNIT I | <p>✓ Reduced</p> <p>✓ Changed</p> |
| | | <p><u>3rd Semester</u></p> <p><u>Fundamentals of Java Programming</u></p> <p>Mr. Santhosh Kumar A.P, recommended to include Swing alone and modify the unit title instead of GUI Programming and Applet.</p> | <p>✓ Included</p> |
| | 4 | Dr.Karthika Renuka D, suggested to reduce the elective buckets from 7 to atmost 4 different bucket of electives and fit in all the courses in anyone of these buckets. | ✓ Reduced and put forth to next BOS |
| | 5 | Board members recommended not to include tools for one credit and advised to offer new technologies. | ✓ Modified and the list will be put forth to SCAA |
| | The members have appreciated the efforts taken to implement the suggestions. | | |
| Resolution | Resolved to approve the Action Taken Report of 11 th BoS meeting. | | |
| Item - 3.03 | Review and approval of the PAC and DAB meeting minutes. | | |
| Discussion | <p>Along with the important suggestions given by the members.</p> <ul style="list-style-type: none"> ✓ PAC meeting-1 held on 28-7-2023 ✓ PAC meeting-2 held on 05.10.23 ✓ PAC meeting-3 held on 26.03.24 ✓ PAC meeting-4 held on 15.04.24 ✓ DAB meeting-1 held on 21.12.23 ✓ DAB meeting-2 held on 02.05.24 | | |
| Resolution | All members have noted the MoM of PAC and DAB meeting. Resolved to record the proceeding. | | |
| Item- 3.04 | Presentation of Institute Vision & Mission | | |
| Discussion | <p>Dr. D. Vanathi presented the proposed Institute Vision, Mission.</p> <p><u>VISION</u></p> <ul style="list-style-type: none"> • To be an Institute of excellence providing quality Engineering, Technology and | | |



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| | <p>Management education to meet the ever changing needs of the society.</p> <p><u>MISSION</u></p> <ul style="list-style-type: none"> ▪ To provide quality education to produce ethical and competent professionals with social Responsibility ▪ To excel in the thrust areas of Engineering, Technology and Entrepreneurship by solving real- world problems. ▪ To create a learner centric environment and improve continually to meet the changing global needs. |
| Resolution | Resolved to record. |
| Item-3.05 | Presentation of Department Vision, Mission, PEOs and PSOs. |
| Discussion | <p>Dr.D.Vanathi presented the proposed Department Vision, Mission, PEOs and PSOs statements.</p> <p><u>VISION (UG)</u></p> <ul style="list-style-type: none"> • To develop a pool of high caliber professionals, researchers and entrepreneurs in computing and cyber security to meet the ever-changing needs of a secured society. <p><u>MISSION (UG)</u></p> <ul style="list-style-type: none"> ▪ To provide quality education to produce Computer Science and Cyber Security professionals with social responsibility. ▪ To excel in the thrust areas of Computing and Cyber Security by solving real-world challenges. ▪ To create a learner centric environment and improve continually to meet the global secure computing needs. <p><u>PROGRAMME EDUCATIONAL OBJECTIVES (PEO) -UG</u></p> <p>PEO1: Core Competency: To transform the graduates as experts in the computing profession and to satisfy the needs of security in the IT industry.</p> <p>PEO2: Research, Innovation and Entrepreneurship: To empower the graduates with knowledge in computer systems and professional skills to prevent, investigate and condense attacks in cyberspace.</p> <p>PEO3: Ethics, Human values and Life-long learning: To explore new paths through research and keep abreast with the latest technology in cyber security to curtail the malicious attacks ethically.</p> <p><u>PROGRAMME SPECIFIC OUTCOMES (PSO) - UG</u></p> <p>Knowledge Proficiency: Equipped with knowledge of security in various platforms, possess computer forensic skills with secured network control and act responsibly in legal, ethical and security related issues.</p> <p>Recent Technology: Able to apply emerging appropriate technology and programming skills to find optimal solutions for complex problems by applying domain knowledge to transform innovative ideas into reality.</p> |
| Resolution | Resolved to record. |



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| <p>Item 3.06</p> | <p>Regulation-22-Curriculum & Syllabus Review/Approval and Updates - Discussion on Curriculum changes, Additions, or Deletions and Approval Syllabus –5th to 8th semesters with CO–PO / PSO Mapping.</p> <p>Semester -5</p> <ul style="list-style-type: none"> ➤ Course-1: Automata Theory and Compiler Design ➤ Course-2: Ethical Hacking (Theory + Lab) ➤ Course-3: Web Application (Theory + Lab) ➤ Course-4: Elective(PEC) ➤ Course-5: Elective(PEC) ➤ Course-6: Elective(OEC/PEC) <p>Semester -6</p> <ul style="list-style-type: none"> ➤ Course-1: Cyber Forensics (Theory + Lab) ➤ Course-2: Information Security (Theory + Lab) ➤ Course-3: Elective(PEC) ➤ Course-4: Elective(PEC) ➤ Course-5: Elective(OEC) ➤ Course-6: Elective(OEC/PEC) <p>Semester -7</p> <ul style="list-style-type: none"> ➤ Course-1: Universal Human Values ➤ Course-2: Elective (Management) ➤ Course-3: Elective(PEC) ➤ Course-4: Elective(OEC/PEC) ➤ Course-5: Elective(OEC) ➤ Course-6: Internship /Industrial Training <p>Semester -8</p> <ul style="list-style-type: none"> ➤ Course-1: Project Work |
| <p>Discussion</p> | <ul style="list-style-type: none"> ➤ Dr. Karthika Renuka D suggested <ul style="list-style-type: none"> ✓ To do internship, mini projects during 5th / 6th semester itself. ✓ To follow uniform format for text book and reference books content. ✓ To use abbreviated form for acronym while framing unit titles. ➤ Dr. Jothi K R, Dr. N. K. Karthikeyan, Dr. D. Vijendra Babu , Dr. Uma Maheswari suggested to <ul style="list-style-type: none"> ✓ To have two text books & three reference book for every course. ✓ Give web materials for case studies. ✓ Asked about the provision provided for the fast learners and action plan for slow learners. ✓ Include Deep Learning and Full Stack Development as a core course. ✓ Encourage the students to do Honors degree. ✓ Include LLM, AR/VR, XR as an elective course. ✓ Asked to refer two international and national universities for framing syllabus. ✓ Asked to include internal assessments for NPTEL courses. ➤ Mr. Santhosh Kumar A P suggested <ul style="list-style-type: none"> ✓ To include tools for every unit for better understanding of concepts. <p>Semester -5</p> <ul style="list-style-type: none"> ✓ Course-1: Automata Theory and Compiler Design ✓ Dr.KarthikaRenuka and Dr. Jothi K R suggested replacing Automata Theory and Compiler Design with Malware Analysis as a core paper, including a |



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| | <p>laboratory component.</p> <p><u>Course-2: Ethical Hacking (Theory + Lab)– No Comments</u> <u>Course-3: Web Application (Theory + Lab)</u> ✓ Dr. Karthikeyan N K recommended replacing Web Application with Web security as a core paper.</p> <p><u>Course-4: Elective(PEC)- No Comments</u> <u>Course-5: Elective(PEC)</u> ✓ Dr. Karthika Renuka and Dr. Jothi K R, Dr. Karthikeyan N K recommended adding case studies to the Biometric Security paper.</p> <p><u>Course-5: Elective(OEC)</u> ➤ Dr. Jothi K R suggested to include LLM, AR/VR, XR as an elective course.</p> <p><u>Course-6: Elective(OEC/PEC)- No Comments</u></p> <p><u>Semester -6</u> <u>Course-1: Cyber Forensics (Theory + Lab)</u> ✓ Dr. Karthika Renuka recommended combining Cyber Forensics and Cyber Law into a single course.</p> <p><u>Course-2: Information Security(Theory + Lab)</u> ✓ Dr. Karthikeyan N K suggested renaming Blockchain Technology to Wireless Security.</p> <p><u>Course-3 to 6:Elective(PEC)</u> ✓ Dr. Karthika Renuka suggested adding Deep Learning as one of the papers in the elective basket. ✓ They proposed including Web Application Security as an elective laboratory course. ✓ Dr. Karthika Renuka advised making Cloud Security a core paper, with Units 1 and 2 focused on cloud basics and the remaining units on cloud security.</p> <p><u>Semester -7</u> <u>Course-1: Universal Human Values–No Comments</u> <u>Course-2: Elective (Management) –No Comments</u> <u>Course-3 to 5: Elective(OEC/PEC)</u> ✓ Dr. Karthika Renuka and Dr. Jothi K R suggested increasing the number of Value-Added Courses. ✓ Dr. Karthikeyan proposed adding Quantum Computing as an elective paper. ✓ Dr. Karthikeyan N K advised updating the syllabus for Social Network Security using the latest edition reference book. ✓</p> <p><u>Course-6: Internship /Industrial Training</u> ➤ Dr. Jothi K R suggested to do internship, mini projects during 5th / 6th semester itself.</p> <p><u>Semester -8</u> <u>Course- 1: Project Work- No Comments</u></p> |
| Resolution | Resolved to approve the changes suggested by the members. |
| Item 3.07 | Review of R22 ratifications. |
| Discussion | ✓ <u>ADVANCED JAVA PROGRAMMING –No Comments</u> ✓ <u>ADVANCED JAVA PROGRAMMING LABORATORY–No Comments</u> |



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| Resolution | Resolved to approve. |
| Item 3.08 | Review of Value-added courses. |
| Discussion | ✓ Dr. Karthika Renuka and Dr. Jothi K R suggested increasing the number of Value-Added Courses. |
| Resolution | Resolved to approve. |
| Item 3.09 | Approval of Panel of Examiners (UG) |
| Discussion | BoS members clarified about minimum eligibility fixed for becoming a panel of examiner. Dr. D. Vanathi explained the process of preparing panel of examiner for question paper setting, valuation and laboratory examinations based on the examiner specialization. The minimum experience of 5 years is fixed for being an examiner. |
| Resolution | Resolved to approve the panel of Examiners for question paper setting, valuation and laboratory examinations |
| Item 3.10 | Any other matter – Nil |
| Discussion | ✓ Dr. Karthika Renuka and Dr. Jothi K R, Dr. Karthikeyan N K noted that Unit 1 and Unit 4 of the Data Analytics Cyber Security paper seems to be too heavy, and advised to remove the recommendation system from Unit 3 and restructure the entire syllabus. ✓ Mr. Santhosh Kumar A P suggested to include ICM Tools in the Information Systems paper. |
| Resolution | Resolved to approve. |

Summary of approvals

- 2nd BoS meeting minutes and ATR are approved
- MoM of PAC meeting-1 held on 28.07.2023, PAC meeting-2 held on 05.10.2023, PAC meeting-3 held on 26.03.2024, PAC meeting-4 held on 15.04.2024, DAB meeting-1 held on 21.12.2023 & DAB meeting-2 held on 02.05.2024 are approved
- Panel of Examiners for question paper setting, valuation and laboratory examinations are approved

Finally, Dr. Vanathi D HoD /CSE thanked all the members for their active participation.

Date: 01.06.2024


(Signature)

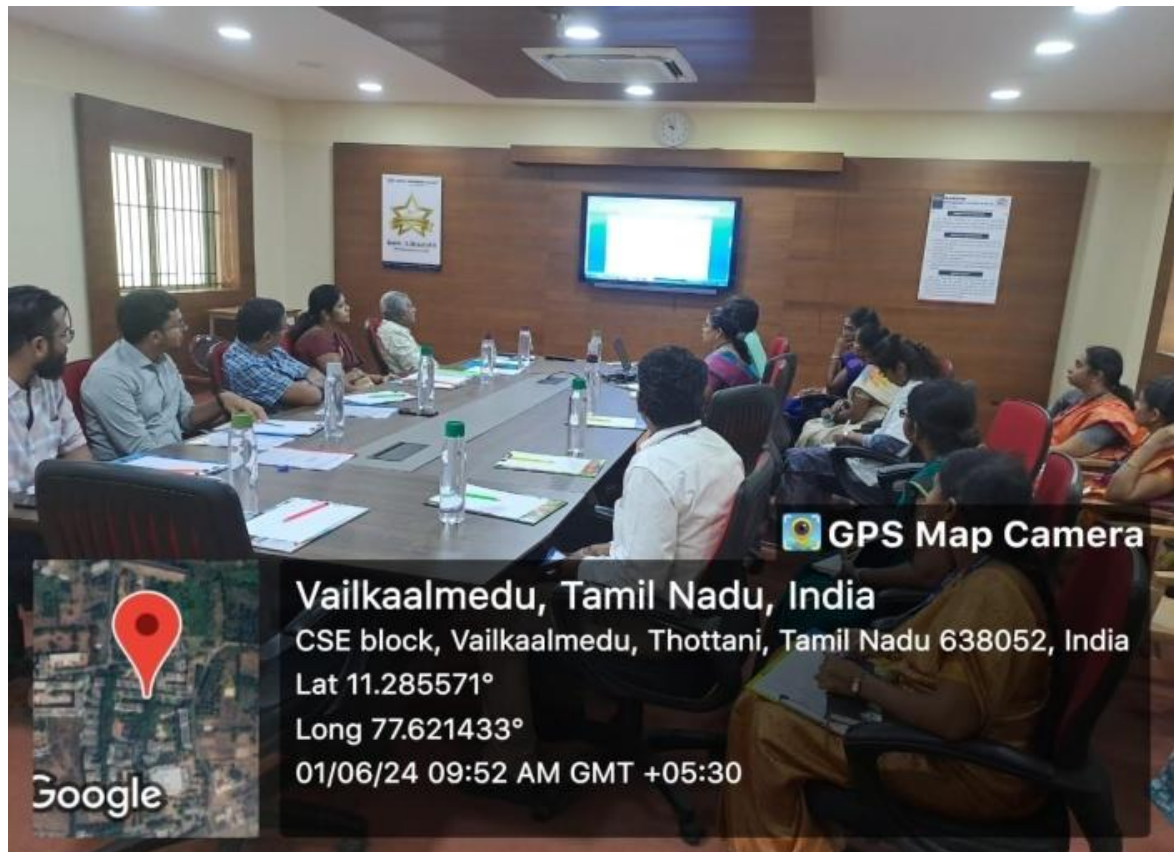
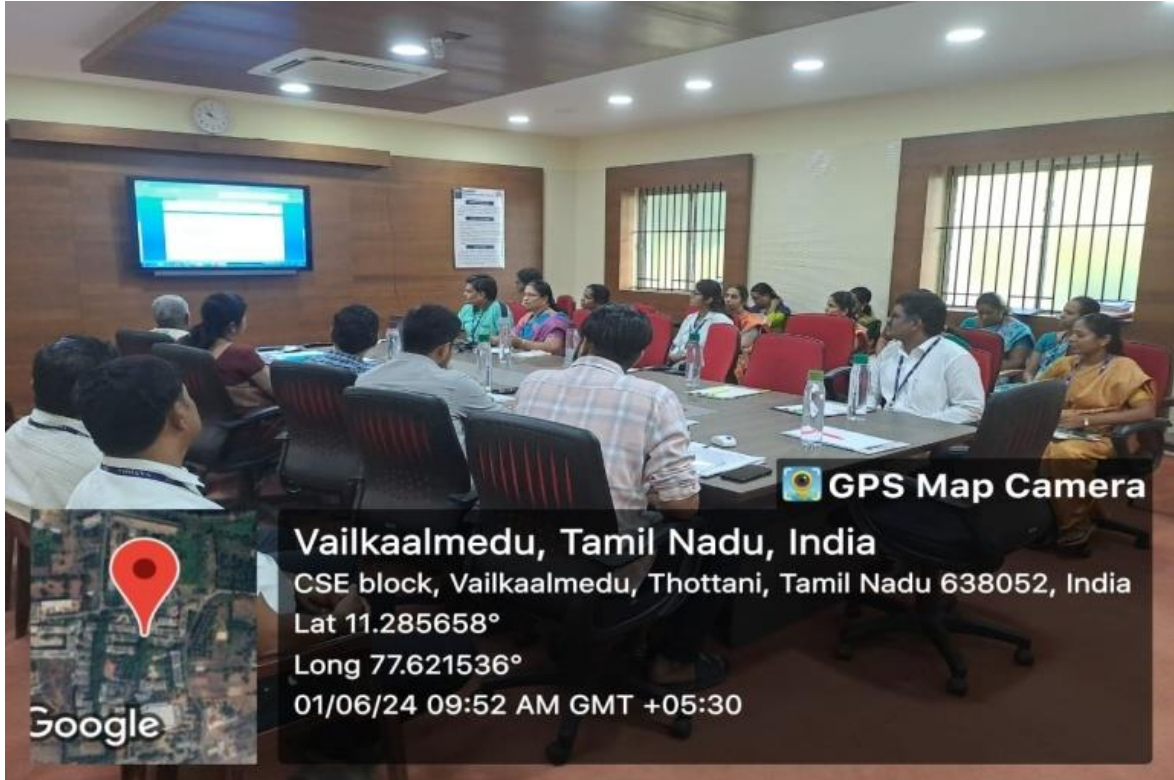
Dr. Vanathi D
(Chairman, BoS)





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| Meeting Attendance- Internal members | | | |
|--------------------------------------|--|----------------|---------------------|
| S.No | Members | Representation | Signature with date |
| 1 | Dr.Thirumorthy P Professor Computer Science and Engineering | Member | 11/6/24 |
| 2 | Dr.Sukumar P Professor Computer Science and Engineering | Member | |
| 3 | Dr.Karuppusamy S Associate Professor Computer Science and Engineering | Member | 11/6/24 |
| 4 | Dr.Prabhu S Head Computer Science and Engineering(Cyber Security) | Member | 11/6/24 |
| 5 | Ms.Maheswari S Head/Computer Science and Engineering(Internet of Things) | Member | |
| 6 | Ms.Padma E Assistant Professor Computer Science and Engineering | Member | 11/6/24 |
| 7 | Ms.Kavitha.S Assistant Professor Computer Science and Engineering | Member | 11/6/24 |
| 8 | Ms.Uma.P Assistant Professor Computer Science and Engineering | Member | 11/6/24 |
| 9 | Ms.Raja Rajeswari B Assistant Professor Computer Science and Engineering(CS) | Member | 11/6/24 |
| 10 | Ms.Manothini P Assistant Professor Computer Science and Engineering(IOT) | Member | 11/6/24 |

Chairman BOS

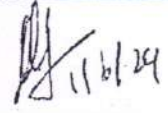
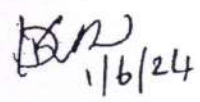

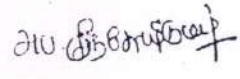
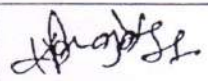
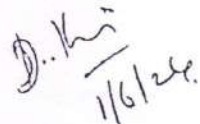
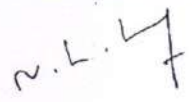


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ANNEXURE-II

| Name of the Board | Meeting No. | Academic year |
|----------------------------------|-------------|---------------|
| Computer Science and Engineering | 03 | 2023-24 |

| Meeting Attendance | | | |
|--------------------|---|--|---|
| S.No | Members | Representation | Signature with date |
| 1 | Dr. Vanathi D Professor & Head Computer Science and Engineering | Chairman |  11/6/24 |
| 2 | Dr. Karthika Renuka D Professor, Department of Information Technology, PSG College of Technology, Coimbatore- 641 004. | University Nominee |  1/6/24 |
| 3 | Dr. Jothi K R Associate Professor, Senior Department of Computational Intelligence, School of Computer Science and Engineering, Vellore Institute of Technology, Vellore. | Expert Nominee (Nominated by Academic Council) |  |
| 4 | Dr. Jayanthi G Assistant Professor Faculty of Engineering and Technology Sri Ramachandra Institute of Higher Education and Research University, Chennai. | Expert Nominee (Nominated by Academic Council) | AB |
| 5 | Mr. Santhosh Kumar A P Lead - Product Management, ZOHO Corporation Pvt Ltd, Chennai | Member (Expert from Industry) |  |
| 6 | Mr. Elangovan K P Head of Technology, Hedonova United States. | Alumni |  |
| 7 | Dr. Vijendra Babu D Assistant Professor, Sr. Grade 2, Department of Embedded Technology, School of Electronics Engineering, Vellore Institute of Technology, Vellore. | Academic Expert Special Invities(CSE/IOT) |  1/6/24 |
| 8 | Dr. Karthikeyan N K Professor & Head, Department of Information Technology, Coimbatore Institute of Technology, Coimbatore - 14 | Academic Expert Special Invities(CSE/CS) |  n.l. 7 |