ECE

NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade

BOS Mom

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

BOARD OF STUDIES MEETING

DATE	:	15th July 2026
VENUE	:	C-103, Dept. of ECE, NHCE
TIME	:	10.00 am to 1.00 pm

Chairman BOS
Department of Electronics and Communication Engineering
New Horizon College of Engineering
Bengaluru – 560 103

CONTENTS

Sl. No	PARTICULARS	Page No
1.	Agenda for the meeting	3
2.	List of Members	4-5
3.	Welcome address by Chairman of BOS and Introduction of members	6
4.	Agenda 1: Scheme of the B.E. program of 160 credits (as per NEP) for the 2025-29 batch.	6
5.	Agenda 2: Scheme of the B.E. program of 160 credits (as per NEP) for the 2024-28 batch	7
6.	Agenda 3: Syllabus of 5th and 6th semester B.E program (Batch 2024-2028; 160 credits - NEP Batch)	7
7.	Agenda 4: Syllabus of 3rd and 4th semester B.E program (Batch 2025-2029; 160 credits - NEP Batch).	8
8.	Agenda 5 : Discussion and Approval of Evaluation Metrics in CIE components	9
9.	Agenda 6: Best Practices followed in the Department	9
10.	Suggestions and Recommendations from Board Members	10
11.	Agenda 7: Concluding Remarks and Vote of Thanks by Chairman of BOS	12
12.	Snapshots	13

AGENDA FOR THE MEETING

Agenda 1: Scheme of the B.E. program of 160 credits (as per NEP) for the 2025-29 batch

Agenda 2: Scheme of the B.E. program of 160 credits (as per NEP) for the 2024-28 batch

Agenda 3: Presentation of Syllabus of 5th and 6th semester B.E program (Batch 2024-2028; 160 credits - NEP Batch)

Agenda 4: Presentation of Syllabus of 3rd and 4th semester B.E program (Batch 2025-2029; 160 credits - NEP Batch)

Agenda 5: Discussion and Approval of Evaluation Metrics in CIE components

Agenda 6: Best Practices followed in the Department of ECE

Agenda 7: Concluding Remarks

NEW HORIZON COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRONICS AND COMMUNICATION

LIST OF MEMBERS - BOARD OF STUDIES

S. No	Category	Nomination of the committee	Name of the person	Designation & Affiliation
1	**Head of the Department**	Chairperson	Dr. Aravinda K.	Professor, NHCE
2	**Special Invitees (one academician from Institution of National Eminence: IIT, NIT, IIM, IISc)**	1	Dr. Manjunatha	Principal, NHCE
		2	Dr. R. J. Anandhi	Vice Principal - Academics, NHCE
		3	Dr. Naveen Kadayinti	HoD - EECE, IIT, Dharwad
3	**Faculty members at different level with different specialization**	**Members**		
		1	Dr. Mukul M.	Professor, ECE, NHCE
		2	Dr. Gurulakshmi A. B.	Professor, ECE, NHCE
		3	Dr. Jayanthi M.	Associate Professor, ECE, NHCE
		4	Dr. Rajesh. G.	Associate Professor, ECE, NHCE
		5	Dr. Ishani Mishra	Associate Professor, ECE, NHCE
4	**Subject experts from outside the College nominated by Academic Council**	**Members**		
		1	Dr. P. N. Sudha	Dean-Academics & HoD-ECE, KSIT
		2	Dr. Vasantha Lakshmi M	Associate Professor, Department of ETCE, B M S College of Engineering

5	**Experts from outside the College nominated by VTU**	**Member**		
		1	Dr. Chandrashekar K.	Professor & Dean - Engineering, Dept. of ECE, Jyothy Institute of Technology, Bangalore-560082
6	**Representatives from Industry / Corporate sector / allied area related to placements, nominated by Academic Council**	**Members**		
		1	Mr. Amber Nilabh	Senior Director and General Manager (PESG) India, Intel Corporation
		2	Ms. Sheeba	Manager - ICD, CDC, NHEI
7	**Graduate meritorious alumni nominated by Principal**	**Member**		
		1	Sneha S.	Senior Data Scientist, Nielsen Media
8	**Co-opted members**	**Members**		
		1	Dr. Monika Gupta	Associate Professor, ECE, NHCE
		2	Dr. Ramanamma M.	Sr. Assistant Professor, ECE, NHCE

WELCOME ADDRESS BY THE CHAIRMAN OF BOS AND INTRODUCTION OF MEMBERS

Minutes

The **BOARD OF STUDIES (2026 – 27)** meeting was held on 15th July 2026 in hybrid mode using Google Meet with internal members (in person), 4 external members (in person) and 3 external members joined online.

Dr. Aravinda K, Chairman of BOS welcomed the BOS Committee members. He presented the agenda of the Board of Studies meeting to the members. He introduced the Internal and External BOS members. He expressed appreciation for their continued support and valuable contributions in shaping the academic roadmap of the department.

BOS Chairman remarked on the need for accreditation, which is predominantly outcome-based, with greater weightage given to curriculum design, execution, and measurable outcomes. BOS Chairman also mentioned about the 3 levels of expectation by the NBA namely the achievement of course outcomes, program outcomes, program specific outcomes, and then the program educational objectives. Chairman mentioned that the curriculum structure for the B.E. program was framed after considering the guidelines proposed by AICTE, leading professional societies, and VTU, particularly with respect to the number and categories of courses to be offered.

The BOS Chairman briefed the members on the implementation of the National Education Policy (NEP) and emphasized that the curriculum has been designed to promote conceptual understanding, interdisciplinary learning, skill development, and holistic development of students. He started the discussion on the Scheme and Syllabus of B.E Semester III and IV of Batch 2025–2029 (NEP – 160 Credits) and followed by semester V and VI of Batch 2024-2028, which was shared via email to all the Board Members earlier as well.

AGENDA - 1

TITLE	Agenda 1: Scheme of the B.E. program of 160 credits (as per NEP) for the 2025-29 batch

Minutes

1. Chairman of BOS, presented the scheme of semester III and IV semesters of the 2025-2029 batch.
2. The BOS Chairman outlined the inclusion of Ability Enhancement Courses (AECs), Skill-Based Courses, Professional Elective Courses (PECs) and NCMC course in the curriculum.

3. VTU nominee recommended incorporating Engineering Mathematics concepts specifically relevant to Electronics and Communication Engineering (ECE) into the mathematics syllabus to strengthen the analytical skills of students, and to support core ECE courses.
4. VTU Nominee proposed to replace Data Visualization with Scilab (25ECE363) with Data Visualization with GNU Octave.
5. The panel members recommended to shift control systems (25ECE451) from Professional Elective Course to Professional Core Course.
6. The panel members proposed to combine Digital Electronic Circuits (25ECE33) with System Design using HDL course (25ECE42)
7. After a detailed discussion, the board members approved the scheme of III and IV semester for 2025-2026 Batch.

AGENDA - 2

TITLE | Agenda 2: Scheme of the B.E. program of 160 credits (as per NEP) for the 2024-28 batch

Minutes

1. Chairman of BOS presented the scheme of semester V and VI of Batch 2024-2028.
2. The BOS Chairman outlined the inclusion of Skill-Based Courses and Open Elective Courses in the curriculum.
3. The industry expert recommended to change OOPS using Java with Python.
4. The panel members advised to add 6th vertical in the grouping of Professional Elective Course, as Networking domain, to address the growing demand for networking and communication technologies.
5. After a detailed discussion, the board members approved the scheme of V and VI semester of Batch 2024-28.

AGENDA - 3

TITLE | Agenda 3: Syllabus of 5th and 6th semester B.E program (Batch 2024-2028; 160 credits - NEP Batch)

Minutes

1. Subject experts from ECE Department, NHCE, started presenting the syllabus of 5th and 6th semester B.E Program for the batch 2024-28.
2. Panel members suggested to maintain a record of the Virtual laboratory experiments in their observation notebooks for all the Lab courses having virtual labs.
3. The industry expert suggested the inclusion of Gen AI in skill-based course of OOPS using Java.
4. VTU nominee recommended to strengthen the Embedded Systems curriculum (24ECE61) by incorporating ESP32-based development.
5. The panel member recommended to revise Module-1 of Communication Systems-II (24ECE62) by including insight of Electromagnetic Field Theory.
6. The panel member recommended to include higher-band antenna experiments and Microstrip Antenna design and characterization in Communication Systems-II Laboratory (24ECL62)
7. The panel member suggested to include error detection and error control mechanisms in the Transport Layer and Application Layer topics of the relevant networking course (24ECE63)
8. After a detailed discussion on the syllabus, the board members approved the syllabus of 5th and 6th semester for batch 2024-2028, which had incorporated the previous suggestions given by BOS.

AGENDA - 4

TITLE Agenda 4: Syllabus of 3rd and 4th semester B.E program (Batch 2025-2029; 160 credits - NEP Batch)

Minutes

1. The course coordinators started presenting the syllabus of 3rd and 4th semester B.E Program for the batch 2025-29.
2. The special invitee recommended to add 2 modules of 8086, 2 modules of 8051 and 1 module of ARM RISC processor in 25ECE44.
3. After a detailed discussion on the syllabus, the board members approved the syllabus of 3rd and 4th semester of batch 2025-2029.

AGENDA - 5

TITLE | Agenda 5: Discussion and Approval of Evaluation Metrics in CIE components

Minutes

1. BoS Chairman presented the alternate assessment tools in CIE component of various courses.
2. BOS chairman mentioned the online Global certifications that are identified for the selected courses.
3. BoS members (internal) mentioned the NPTEL courses that are mapped with 4th semester (PEC course) and 5th Semester (any one PCC).
4. The panel Members appreciated the inclusion of case studies, real-world applications, and self-study components in each course module, recognizing their role in promoting experiential learning and independent thinking.

AGENDA - 6

TITLE | Agenda 6: Best Practices

Minutes

BOS Chairman presented the following Best Practices:

1. Professional Elective Awareness and Career-Aligned Course Selection
2. Mini Project idea conversion to research papers.
3. Final year project conversion to Research paper and patent, with Start-up Initiatives
4. Innovative teaching techniques
5. CIE components mapped to Activity based learning
6. Placement assessment platform usage and Completion tracking by mentors
7. Domain based technical training

TITLE | Suggestions and Recommendations from Board Members

Minutes

The suggestions from various BOS members are presented as follows:

Dr. Chandrashekar K, VTU Nominee

1. Prof. Dr. Chandrashekar K suggested to replace Scilab with GNU Octave for the Data Visualization course to enhance accessibility and industry relevance.
2. He suggested to introduction of fundamental concepts of Electromagnetic Field Theory as part of the Applied Physics course in the first year or first module in Communication Systems-II.
3. He recommended strengthening the Embedded Systems curriculum by incorporating ESP32-based development.
4. For Virtual labs, students maintain a record of the Virtual laboratory experiments in their observation notebooks to facilitate effective monitoring and assessment of their laboratory activities.
5. He recommended Skill-Based Courses should be offered based on faculty expertise, and the faculty handling these courses should acquire relevant industry-recognized certifications to enhance the quality of instruction.
6. He recommended to add Linux in First year curriculum.

Dr. P N Sudha, Academic Technical Expert

1. Prof. Dr. P N Sudha recommended to bring Control Systems as the core course from professional elective in the 4th semester.
2. She also suggested to include higher-band antenna experiments and Microstrip Antenna design and characterization in Communication Systems-II Laboratory, to align this syllabus with contemporary wireless communication technologies.
3. Dr. P N Sudha also appreciated the inclusion of case studies, real-world applications, and self-study components in each course module.
4. She further suggested maintaining appropriate documentation and supporting evidence for their effective implementation to facilitate quality assurance and accreditation processes.

5. She suggested to include error detection and error control mechanisms in the Transport Layer and Application Layer topics of the relevant networking course to strengthen students' understanding of reliable data communication.
6. She suggested providing an introductory orientation on Electromagnetic Field Theory before students begin studying Communication Systems, enabling them to better understand wave propagation, transmission principles, and related communication concepts.

Dr. Naveen Kadayinti, Special Invitee

1. Dr Naveen K recommended the offering of Control Systems as a Core Course instead of a Professional Elective in the 4th semester.
2. To reinforce student learning, he recommended conducting three Continuous Internal Assessment (CIA) examinations during the semester.
3. He appreciated the inclusion of the Open Book Assessment and suggested that the questions be designed to assess higher-order cognitive skills (RBT L4 and L5).
4. He recommended to revise the syllabus of 25ECE44 by including two modules on the 8086 Microprocessor, two modules on the 8051 Microcontroller, and one module on the ARM RISC Processor to provide students with a balanced understanding of traditional and modern processor architectures.

Dr. Vasantha Lakshmi M, Academic Expert

1. Dr Vasantha Lakshmi suggested to combine the courses Digital Electronic Circuits and System Design using HDL into a single integrated course, to provide a seamless understanding of digital circuit fundamentals and hardware design.

2. She further recommended restructuring the laboratory component by including six experiments from Digital Electronic Circuits and six experiments from HDL, thereby creating a unified laboratory course that offers balanced practical exposure to both domains.

3. She suggested to add 6th vertical for the selection of professional elective in networking domain to address the growing demand for networking and communication technologies.

Mr. Amber Nilabh, Industry Technical Expert

1. Mr. Amber suggested the inclusion of Gen AI in skill-based course, OOPS using Java.
2. He also recommended to change OOPS using Java with Python.

Ms. Sheeba, Manager - ICD, CDC, NHEI

1. She mentioned about the project allocation process, the number of students permitted in each project group, and the project evaluation methodology. She also emphasized that a mechanism to be established to ensure originality and prevent repetition of project topics across batches.

Ms. Sneha, Alumnus from 2015-2019 Batch

1. Generative AI related topic may be included in the courses offered.

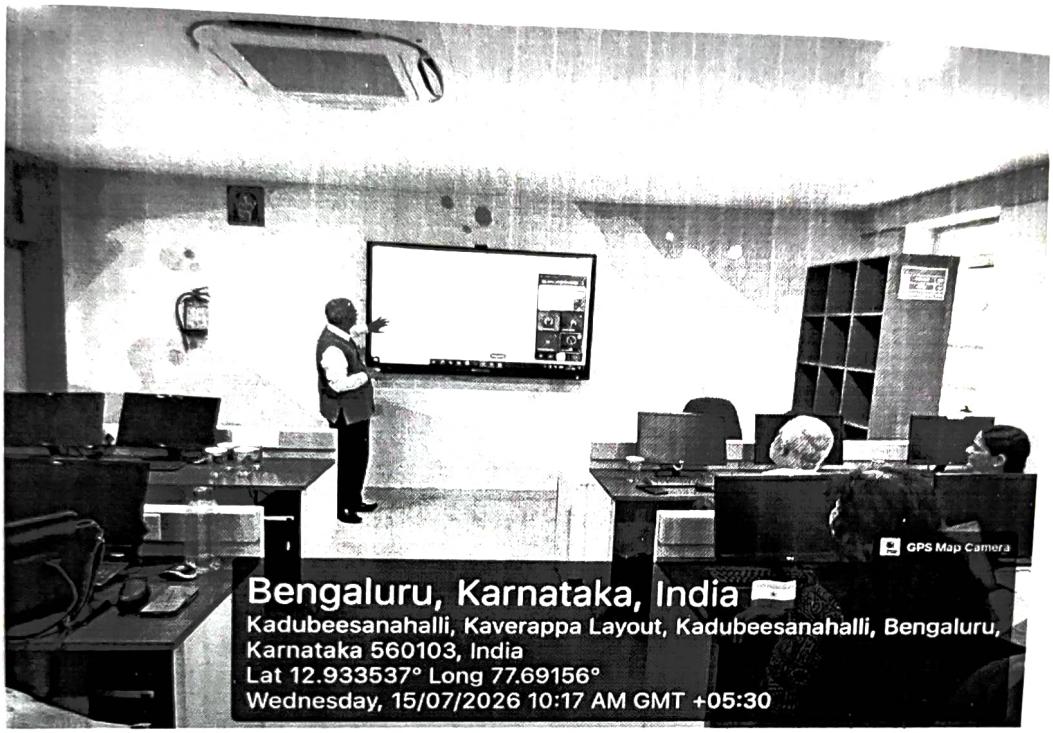
AGENDA - 7

TITLE Agenda 7: Concluding Remarks and Vote of Thanks

Minutes

BoS Chairman mentioned that all of the aforementioned suggestions and remarks are taken for the Academic Council Meeting. The meeting concluded with the Vote of Thanks by the BoS chairman (HOD - ECE Department). He appreciated the comments from all the BoS committee members for their valuable inputs and suggestions.

SNAPSHOTS


GPS Map Camera
Bengaluru, Karnataka, India
Kadubeesanahalli, Kaverappa Layout, Kadubeesanahalli, Bengaluru, Karnataka 560103, India
Lat 12.933537° Long 77.69156°
Wednesday, 15/07/2026 10:17 AM GMT +05:30

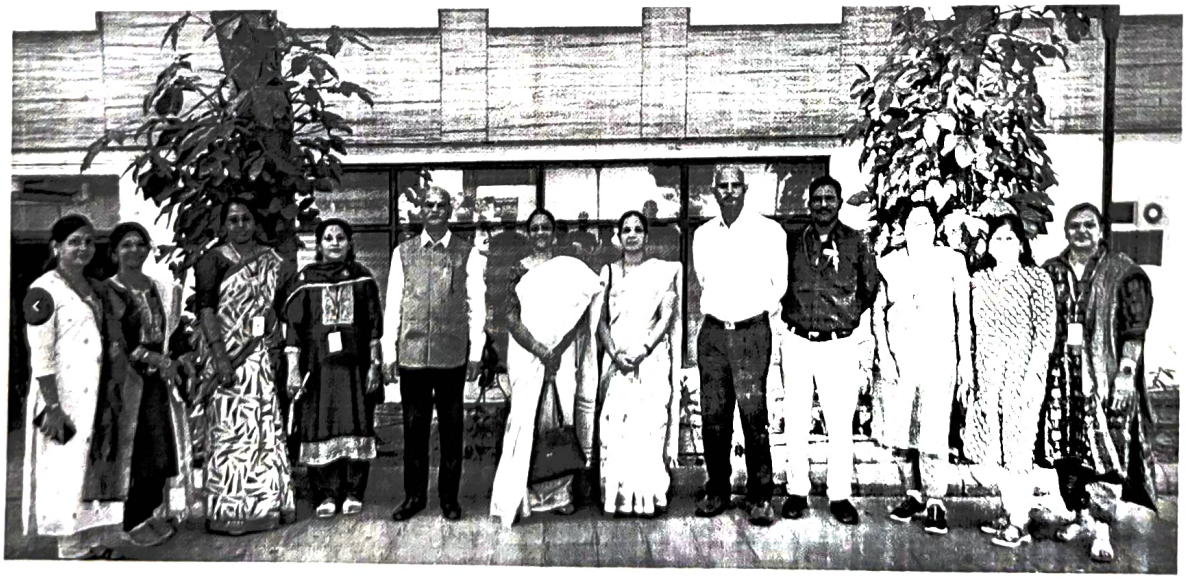

Capgemini
World leader in Engineering and R&D services.
10+
60,000+
2/3rd
GPS Map Camera
Bengaluru, Karnataka, India
Kadubeesanahalli, Kaverappa Layout, Kadubeesanahalli, Bengaluru, Karnataka 560103, India
Lat 12.933568° Long 77.691551°
Wednesday, 15/07/2026 10:18 AM GMT +05:30
Google











Aravinda L 22.07.26

HOD - ECE

Chairman-BOS
Department of Electronics and Communication Engineering
New Horizon College of Engineering
Bangalore – 560 103

VICE PRINCIPAL - ACADEMICS

PRINCIPAL

NEW HORIZON COLLEGE OF ENGINEERING, BANGALORE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Report on Incorporation of Expert Suggestions in BOS Meeting

17/07/2026

Summary of Recommendations, Status, and Actions Taken (13th BOS Meeting for the Academic Year : 2026-2027)

S. No	Suggestions/Remarks by Experts	Action Taken	Status
1	Replace Scilab with GNU Octave for Data Visualization.	Reviewed in DAB; proposal communicated to curriculum design team for curriculum revision.	Under Review
2	Introduce EMFT fundamentals in First Year or Module 1 of Communication Systems-II.	Considered for curriculum integration.	Incorporated
3	Strengthen Embedded Systems with ESP32.	Considered for practical learning.	Incorporated
4	Offer skill-based courses based on faculty expertise and encourage industry certifications.	Skill courses and certifications will be encouraged.	Expertise will be handling the skill-based courses
5	Add Linux in First Year.	Reviewed in DAB; proposal communicated to curriculum design team for curriculum revision.	Under Review
6	Move Control Systems from Professional Elective to Professional Core in 4th semester.	Reviewed in DAB; proposal communicated to curriculum design team for curriculum revision.	Under Review
7	Add higher-band antenna experiments and Microstrip Antenna design and characterization in Communication Laboratory-II.	Additional antenna experiments will be considered.	Incorporated
8	Include error detection and error control in networking topics.	Topics will be considered for inclusion.	Incorporated
9	Revise 25ECE44 into 2 modules 8086, 2 modules 8051 and 1 module ARM RISC.	The present structure provides adequate coverage of 8086 and	Under Review

		MSP430 concepts without overloading the course	
10	Combine Digital Electronics and System Design using HDL into one integrated course.	The suggestion was reviewed. It is proposed to retain the courses separately to ensure adequate coverage of the fundamental Digital Electronics concepts and HDL-based System Design. Combining both may reduce the depth of coverage and students may miss important concepts.	Not Incorporated
11	If combined, include 6 Digital Electronics and 6 HDL laboratory experiments.	Separate laboratory components are preferred to provide sufficient time for students to understand and practice both Digital Electronics and HDL-based design concepts effectively.	To be proposed.
12	Include Generative AI in skill-based OOPS using Java.	Generative AI components will be considered.	Incorpoarted
13	Change OOPS language from Java to Python.	OOPS using Java is retained as it provides comprehensive exposure to core object-oriented programming concepts and helps students develop strong programming, problem-solving and software development skills.	Not Incorporated .
14	Add a fifth vertical for Professional Elective in Networking domain.	The suggestion has been considered and will be implemented in the next academic year.	Under Review

Further, all suggested changes have been effectively incorporated into the curriculum, aligning it with modern industry standards for students. The Board of Studies will continue to seek feedback to ensure the curriculum remains relevant and effective. Following steps are initiated in the department.

- Distributed the updated curriculum to all faculty and departments.
- A follow-up meeting happened with BOS members to discuss the implementation of the changes.

Enclosed:

- Updated Curriculum Document
- Detailed Syllabus Copy

Prepared by:

Autonomous Coordinator

Verified By

(HOD/ECE)

NEW HORIZON COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRONICS AND COMMUNICATION

BOARD OF STUDIES MEETING (15.07.2026)

MEMBERS PRESENT:

Sl. No.	Name	Designation	Affiliation	Signature
1	Dr. Aravinda K.	Professor & HoD-ECE	NHCE	
2	Dr. P. N. Sudha	Dean-Academics & HoD-ECE	KSIT	
3	Dr. Vasantha Lakshmi M	Associate Professor, Dept. of ETCE	B M S College of Engineering	15/7/26.
4	Dr. Chandrashekar K.	Professor & Dean-Engineering	Jyothy Institute of Technology	15/7/26
5	Dr. Naveen Kadayinti	Associate Professor & HoD - EECE	IIT, Dharwad	Joined online
6	Mr. Amber Nilabh	Senior Director and General Manager (PESG) India	Intel Corporation	Joined online
7	Ms. Sheeba	Manager - ICD	CDC, NHEI	15/7/26
8	Ms. Sneha S.	Senior Data Scientist	Nielsen Media	Joined online
9	Dr. Mukul M.	Professor	NHCE	-Ab-
10	Dr. Gurulakshmi A. B.	Professor	NHCE	-Ab-
11	Dr. Jayanthi M.	Associate Professor	NHCE	
12	Dr. Rajesh. G.	Associate Professor	NHCE	
13	Dr. Ishani Mishra	Associate Professor	NHCE	
14	Dr. Monika Gupta	Associate Professor	NHCE	
15	Dr. Ramanamma M.	Sr. Asst. Professor	NHCE	
16	Dr. Sampa Das	SAP	NHCE	
17	Dr. Mukti Yadav	Asst. Professor	NHCE	
18	Dr. Dipsa Das	SAP	NHCE	
19	Mr. Nithin Kumar. N.R.	SAP	NHCE	
20	T.V.S. Adinarayan	Senior Assistant Prof.	NHCE	
21	Vinay R	SAP	NHCE	

22	PUVIRAJAN. T	Sr. Asst. Professor	NHCE	T. Dinesh
23	Srinivas Babu N	Sr. Asst. Prof	NHCE	
24	Shathikiran S	SR. ASST. Prof	NHCE	
25	Omkar. R Kanetkar	Asst. Professor	NHCE	
26	Mamta B. Savadatti	Sr. Asst prof	NHCE	
27	Ajay Sudhir Bali	SAP	NHCE	
28	Dr. Padmaja. K	SAP	NHCE	
29	Dr. Hamsalekha. R	SAP	NHCE	
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

NEW HORIZON COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRONICS AND COMMUNICATION

ATTENDANCE CERTIFICATE

This is to certify that **Dr. Chandrashekar K.,** Professor & Dean-Engineering, Jyothy Institute of Technology, has attended the Board-of-Studies meeting held in our department on 15.07.2026. We thank him wholeheartedly, for his presence and the suggestions provided to our team, in improvising the syllabus for the Academic Year 2026-27.

Dr. Aravinda K.
Chairman-BoS
Professor & HoD-ECE

Chairman-BOS
Department of Electronics and Communication Engineering
New Horizon College of Engineering
Bengaluru – 560 103

Department of Electronics and Communication Engineering
NHCE
Bengaluru - 560 103

NEW HORIZON COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRONICS AND COMMUNICATION

ATTENDANCE CERTIFICATE

This is to certify that, **Dr. B. Roja Reddy,** Associate Professor, Department of E&TC, RVCE, has attended the Comprehensive Viva held for the research scholar, Mr. Ajay Sudhir Bale. The event was held in our department on 16.07.2026 from 10.00 AM onwards. She is an external member in the research advisory committee, and we thank her wholeheartedly, for her presence and the suggestions provided to the candidate.

Dr. Aravinda K.

Professor & HoD-ECE

Head-Research Centre

Head-Research Centre
Department of Electronics and Communication Engineering
New Horizon College of Engineering
Bengaluru – 560 103

NEW HORIZON COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRONICS AND COMMUNICATION

ATTENDANCE CERTIFICATE

This is to certify that **Dr. Vasantha Lakshmi M.**, Associate Professor, Department of ETCE, B M S College of Engineering, has attended the Board-of-Studies meeting held in our department on 15.07.2026. We thank her wholeheartedly, for her presence and the suggestions provided to our team, in improvising the syllabus for the Academic Year 2026-27.

Dr. Aravinda K.
Chairman-BoS
Professor & HoD-ECE

Chairman-BOS
Department of Electronics and Communication Engineering
New Horizon College of Engineering
Bengaluru – 560 103

Department of Electronics and Communication Engineering
NHCE
Bengaluru - 560 103