



NEW HORIZON COLLEGE OF ENGINEERING

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

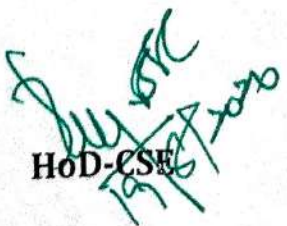
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

12th BOARD OF STUDIES MEETING

Minutes of Meeting ACADEMIC YEAR 2026-27

DATE : 17-08-2026
VENUE : A104, I Floor, Department of CSE,
Netaji Subhash Chandra Bose Block, NHCE
TIME : 2.30 PM-4:30 PM


BoS Member Secretary

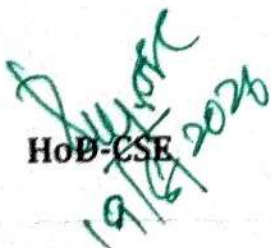

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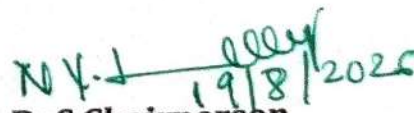

BoS Chairperson

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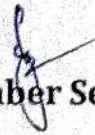

BoS Member Secretary

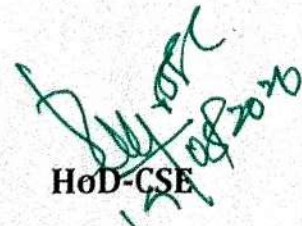

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AGENDA FOR THE MEETING

1. Welcome address by the Chairperson of BOS
2. Scheme and Syllabus for 2025- 2029 Batch and 2024-2028 Batch
3. Scheme and Syllabus for 7th and 8th semester – 2022 Scheme – Retained
4. M.Tech CSE- 2024 Scheme and Syllabus – Retained
5. Recommendations/ suggestions of BOS members
6. Implementation of recommendation of BOS members
7. Approval of scheme & syllabus of agenda 2
8. Vote of thanks by the Chairperson of BOS


BoS Member Secretary


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BoS Chairperson 18/8/26

NEW HORIZON COLLEGE OF ENGINEERING, BANGALORE
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

LIST OF MEMBERS-BOARD OF STUDIES

A.Y:2026-27

S. No	Category	Nomination of the committee	Name of the person	Designation & Affiliation
1	Dean CSE	Chairperson	Dr.N V Uma Reddy	Professor & Dean Dept of Computer Science and Engineering, NHCE Dean_cse@newhorizonindia.edu 9972047259
2	Special Invitees (one academican from Institution of National Eminence, IIT,NIT,IIM,IISC)	Principal	Dr. Manjunatha	Head of the Institution, New Horizon College of Engineering, principal@newhorizonindia.edu +91-80-662977Extn: 5002
		NITK	Dr. Annappa	Professor, Department of Computer Science and Engineering, National Institute of Technology, Surathkal annappa@nitk.ac.in
		Vice Principal- Academics	Dr.R J Anandhi	Professor & Vice Principal, Academics, New Horizon College of Engineering, dean.academics@newhorizonindia.edu 91-80-66297777Extn:2026
3	Internal Subject Experts	1	Dr Raja M	Professor & Head of the Department, Dept of CSE, NHCE hod_cseff@newhorizonindia.edu
		2	Dr. Asha Joseph	Professor & Head of the Department, Dept of CSE, NHCE hod_csesf@newhorizonindia.edu 9449123958
		3	Dr. B. Swathi	Associate Professor & Head of the Department, Dept of CSE, NHCE hod_csefg@newhorizonindia.edu

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4	Faculty members at different level with different specialization	1	Dr. Srividhya G	Sr. Assistant Professor, Dept of CSE, NHCE Srividhyag.nhce@newhorizonindia.edu 9566507553
		2	Dr. Pramila Rani K	Associate Professor, Dept of CSE, NHCE, pramilaranik@newhorizonindia.edu 8971471249
		3	Dr. Soja Rani	Associate Professor, NHCE, sojars@newhorizonindia.edu 9482598037
		4	Dr. Sunil Kumar V	Professor, Dept. of CSE, NHCE dr.sunil.kv_ds_nhce@newhorizonindia.edu 9886406414
		5	Ms. Salna Joy	Sr. Assistant Professor, Dept of CSE, NHCE salnajoy.nhce@newhorizonindia.edu 9606826996
		6	Ms. Usha Rani M	Assistant Professor, Dept of CSE, NHCE, usha.rm_cse2_nhce@newhorizonindia.edu 9494741876

5	Experts from outside the college nominated by VTU	1	Dr. B. R. Shambhavi	Professor & Head, Dept. of CSE BMS College of Engineering-Bengaluru shambhavibr.ise@bmsce.ac.in 9886784959
6	Representative from Industry/ Corporate sector / allied area related to placements, nominated by Academic Council	1	Ms. Supriya K	Senior Technical Architect-DMTS, DELL India supriya.kannery@dell.com 9845085303
		2	Mr. Dinesh Mohata	Retail Head, MEA at Tata Consultancy Services dinesh.mohata@gmail.com 9916081863
		3	Mr. Niren Pai	Director, Digital Commerce Waters GCC, Bengaluru Niren_Pai@waters.com
7	Meritorious alumni nominated by Principal	1	Vanshika Sai Ramadurgam	Software Engineer, Goldman Sachs Bengaluru 9901833434

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8	Co-opted members	1	Dr. Nirmala M	Professor, Dept of CSE, NHCE dr.nirmalam.nhce@newhorizonindia.edu 9626689838
		2	Dr. Roja Ramani D	Associate Professor, Dept. of CSE dr.rojard.nhce@newhorizonindia.edu 8870944221
		3	Dr. T Kavitha	Professor, Dept of CSE, NHCE, dr.kavithat_cse2_nhce@newhorizonindia.edu 9884591122
		4	Dr. Sonali Mahure	Professor, Dept of CSE, NHCE, dr.sonali_m_cse2_nhce@newhorizonindia.edu 8263909205
		5	Dr. J. Joshua Daniel Raj	Associate Professor, Dept of CSE(DS), joshuadr@newhorizonindia.edu +919019347627
		6	Ms. Rama dan	Sr. Assistant Professor, Department of CSE, NHCE ramabd.nhce@newhorizonindia.edu 9830618633
		7	Dr. Sivakumar Raju	Director, Career Development Center, NHCE

[Signature]
17/8/2022
BOS Member Secretary

N.V.J. *[Signature]*
17/8/2022
BOS Chairperson & Dean-CSE

[Signature]
17/8/2022
HoD-CSE

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HoD-CSE

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17/8/2022
HoD-CSE

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17/8/2022
Vice Principal- Academics

[Signature]
17/8
Principal

[Signature]
BoS Member Secretary

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17/8/2022
HoD-CSE

N.V.J. *[Signature]*
BoS Chairperson

NEW HORIZON COLLEGE OF ENGINEERING, BANGALORE
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Attendance Sheet for the BoS Meeting Held on 17 August 2026

S. No	Category	Nomination of the committee	Name of the person	Designation & Affiliation	Signature
1	Dean CSE	Chairperson	Dr.N V Uma Reddy	Professor & Dean Department of Computer science and Engineering, NHCE Dean_cse@newhorizonindia.edu 9972047259	NVU 17/8/2026
2	Special Invitees (one academican from Institution of National Eminence, IIT,NIT,IIM,IIS C)	Principal	Dr.Manjunatha	Head of the Institution, New Horizon College of Engineering, principal@newhorizonindia.edu +91-80-662977Extn: 5002	Manjunatha 17/8
		NITK	Dr.Annappa	Professor, Department of Computer Science and Engineering, National Institute of Technology, Surathkal annappa@nitk.edu.in	Annappa
		Vice Principal- Academics	Dr.R J Anandhi	Professor & Vice Principal, Academics, New Horizon College of Engineering, dean.academics@newhorizonindia.edu 91-80-66297777 Extn:2026	RJ Anandhi
3	Internal Subject Experts	1	Dr Raja M	Professor & Head of the Department, Dept of CSE, NHCE hod_cseff@newhorizonindia.edu	Raja M 17/8/2026
		2	Dr. Asha Joseph	Professor & Head of the Department, Dept of CSE, NHCE hod_csesf@newhorizonindia.edu 9449123958	Asha Joseph 17/8/2026
		3	Dr. B. Swathi	Associate Professor & Head of the Department, Dept of CSE, NHCE hod_csegf@newhorizonindia.edu	B. Swathi 17/8/2026
4	Faculty members at different level	1	Dr. Srividhya G	Sr. Assistant Professor, Dept of CSE, NHCE srividhyag.nhce@newhorizonindia.edu 9566507553	Srividhya G 17/8/2026

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with different specialization	2	Dr. Pramila Rani K	Associate Professor, Dept of CSE, NHCE, pramilaranik@newhorizonindia.edu 8971471249	17/8/26
	3	Dr. Soja Rani	Associate Professor, NHCE, sojars@newhorizonindia.edu 9482598037	17/8/26
	4	Dr. Sunil Kumar V	Professor, Dept. of CSE, NHCE dr.sunil.kv_ds_nhce@newhorizonindia.edu 9886406414	17/8/26
	5	Ms. Salna Joy	Sr. Assistant Professor, Dept of CSE, NHCE salnajoy.nhce@newhorizonindia.edu 9606826996	17/8/26
	6	Ms. Usha Rani M	Assistant Professor, Dept of CSE, NHCE, usha.rm_cse2_nhce@newhorizonindia.edu 9494741876	17/8/26

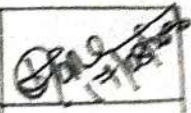
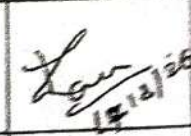
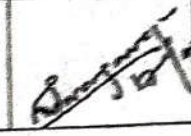
5	Experts from outside the college nominated by VTU	1	Dr. B. R. Shambhavi	Professor & Head, Dept. of CSE(DS) BMS College of Engineering-Bengaluru shambhavi.br.se@bmsce.ac.in 9886784959	17/8/26
6	Representative from Industry/ Corporate sector / allied area related to placements, nominated by Academic Council	1	Ms. Supriya K	Senior Technical Architect-DMTS, DELL India supriya.kannery@deli.com 9845085303	ONLINE
		2	Mr. Dinesh Mohata	Retail Head, MEA at Tata Consultancy Services dinesh.mohata@gmail.com 9916081863	17/8/26
		3	Mr. Niren Pal	Director, Digital Commerce at Waters GCC	17/8/26
7	Meritorious alumni nominated by Principal	1	Vanshika Sai Ramadurgam	Software Engineer, Goldman Sachs 9901833434	17/8/26
8	Co-opted members	1	Dr. Nirmala M	Professor, Dept of CSE, NHCE dr.nirmalam.nhce@newhorizonindia.edu 9626689838	17/8/26

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2	Dr. Roja Ramani D	Associate Professor, Dept. of CSE dr.rojard.nhce@newhorizonindia.edu 8870944221	
3	Dr. T Kavitha	Professor, Dept of CSE, NHCE, dr.kavithat_cse2_nhce@newhorizonindi a.edu 9884591122	
4	Dr. Sonali Mahure	Professor, Dept of CSE, NHCE, dr.sonaliym_cse2_nhce@newhorizonindi a.edu 8263909205	
5	Dr. J. Joshua Daniel Raj	Associate Professor, Dept of CSE(DS), joshuadr@newhorizonindia.edu +919019347627	
6	Ms. Rama dan	Sr. Assistant Professor, Department of CSE, NHCE ramabd.nhce@newhorizonindia.edu 9830618633	
7	Dr. Sivakumar Raju	Director, Career Development Center, NHCE	

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AGENDA -1

Welcome Address by the Chairperson of BOS

The 12th Board of Studies meeting for Department of Computer Science and Engineering was scheduled on 17th August 2026 at 2.30 PM.

At the outset, Chairperson **Dr. N.V. Uma Reddy**– Professor & Dean – Department of Computer Science and Engineering, welcomed all the members to the 12th Board of Studies meeting.

The Chairperson further expressed special thanks to **Dr.B.R.Shambhavi**, an expert, nominated by VTU and **Dr. Annappa**, subject expert from NIT Surathkal. The chairperson also expressed her gratitude to industry experts by Academic Council, **Ms. Supriya K**, Senior Technical Architect-DMTS, DELL India, Bangalore, **Mr. Dinesh Mohata**, Retail Head, MEA at TCS and **Mr. Niren Pai**, Director, Digital Commerce at Waters GCC for sparing the time from their busy schedule to share the valuable suggestions .

Internal subject experts **Dr. Asha Joseph**, Professor & Head, Department of CSE, **Dr. Raja M**, Professor & Head, Department of CSE and **Dr. B. Swathi**, Associate Professor & Head, Department of CSE also attended the meeting and gave insights.

The meeting was also attended by meritorious alumna **Ms.Vanshika Sai Ramadurgam**, Software Engineer, Goldman Sachs, Bangalore nominated by the Principal, Co-opted members **Dr. Nirmala M**, **Dr. Roja Ramani**, **Dr. T Kavitha**, **Dr. Sonali Mahure**, **Dr. J. Joshua Daniel Raj**, **Ms. Rama Bansidhar Dan**, **Dr. Sivakumar Raju**– Director, CDC, and internal faculty members **Dr. Srividhya. G** (BoS Member Secretary), **Dr. Pramila Rani K**, **Dr. Soja Rani**, **Dr. Sunil**, **Ms. Usha Rani M** and **Ms. Salna Joy** with different specialization.


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BoS Chairperson

**Presentation of proceedings of the previous BOS meeting by
Chairperson of BOS**

Chairperson of BOS Dr.N.V Uma Reddy, Professor & Dean, Department of Computer Science and Engineering, briefed the proceedings of previous BOS meeting acknowledging their contribution for betterment in framing the scheme & syllabus.

AGENDA-3

**Proposed course details of B.E 2025-2029 batch 3rd and 4th semester
and B.E 2024-2028 batch 5th and 6th semester**

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NEW HORIZON COLLEGE OF ENGINEERING
B. E. In Computer Science and Engineering
Scheme of Teaching and Examinations for 2025-2029 BATCH (2025 Scheme)

III Semester

III Semester																		
S. No	Category	Course Code	Course Name	Bos	Credit Distribution					Overall Credits	TLP Contact Hours / Sem	TW & SL / Sem	Total Hours /Sem	Exam Hrs	Marks			
					L	T	P	S	CIE						SEE	Total		
1	BSC	25MAC31	Numerical Methods, Vector Spaces And Probability Distributions	BS	3	0	0	0	3	45	45	90	3	50	50	100		
2	PCC	25CSK32	Data Structures	CS	3	0	0	0	3	45	45	90	3	50	50	100		
3	PCCL	25CSLK32	Data Structures Lab	CS	0	0	1	0	1	30	-	30	3	50	50	100		
4	PCC	25CSE33	Digital Logic and Computer Organization	CS	3	0	0	0	3	45	45	90	3	50	50	100		
5	PCCL	25CSL33	Digital Logic Lab	CS	0	0	1	0	1	30	-	30	3	50	50	100		
6	PCC	25CSE34	Optimization Techniques	CS	3	0	0	0	3	45	45	90	3	50	50	100		
7	HSMS	25CSK35	Software Engineering and Project Management	CS	3	0	0	0	3	45	45	90	3	50	50	100		
8	AEC	25CSE36 X	Ability Enhancement Course - III	CS	0	0	1	0	1	30	-	30	3	50	50	100		
9	PROJ	25CPD37	Community Project using Innovation and Design Thinking	CS	0	0	1	0	2	-	30	30	3	50	50	100		
10	NCMC	25NSS30	National Service Scheme	-														
		25PED30	Physical Education and Sports	-	0	0	0	0	0	-	30	30	-	50	-	50		
		25YOG30	Yoga	-														
		25MUS30	Music	-														
Total					20	315	285	600	27	500	450	950						
11	NCMC	24DMAT31*	Basic Applied Mathematics - I	BS	0	0	0	0	0	15	15	30	-	50	-	50		

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Bos Chairperson

19/8/25

BSC: Basic Science Course, **PCC:** Professional Core Course, **PCCL:** Professional Core Course Laboratory, **UHV:** Universal Human Value Course, **NCMC:** Non-Credit Mandatory Course, **AEC:** Ability Enhancement Course, **L:** Lecture, **T:** Tutorial, **P:** Practical **S:** SDA: Self Study for Skill Development, **K:** This letter in the course code indicates common to all the stream of engineering. **ESC:** Engineering Science Course, **ETC:** Emerging Technology Course, **PLC:** Programming Language Course, **CIE:** Continuous Internal Evaluation, **SEE:** Semester End Evaluation

24DMAT31*: This non-credit mandatory course to be offered with only CIE and no SEE to Lateral entry students.

Ability Enhancement Course - III (0-0-1-0)			
24CSE361	Exploratory Data Analysis	24CSE364	Microsoft Visio
24CSE362	Project Management with Git	24CSE365	Bio Inspired Design and Innovation (1-0-0-0)
24CSE363	Web Design Technologies		

National Service Scheme /Physical Education/Yoga/Music: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education(PE) (Sports and Athletics), Yoga (YOG) and Music with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree.

Credit Definition:	
1-hour Lecture (L) per week=1 Credit	03-Credits courses are to be designed for 40 hours in Teaching-Learning Session
2-hours Tutorial(T) per week=1 Credit	02- Credits courses are to be designed for 25 hours of Teaching-Learning Session
2-hours Practical / Drawing (P) per week=1 Credit	01-Credit courses are to be designed for 15 hours of Teaching-Learning Sessions
2-hous Self Study for Skill Development (SDA) per week = 1 Credit	

BOS Member Secretary

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BOS Chairperson

NEW HORIZON COLLEGE OF ENGINEERING
B. E. in Computer Science and Engineering
Scheme of Teaching and Examinations for 2024- 2028 BATCH (2024 Scheme)

IV Semester																
S. No	Category	Course Code	Course Name	BOS	Credit Distribution				Overall Credits	TLP Contact Hours /Sem	TW & SL / Sem	Total Hours /Sem	Exam Hrs	Marks		
					L	T	P	S						CIE	SEE	Total
1	BSC	25MAC41	Discrete Mathematics and Graph Theory	BS	3	0	0	0	3	45	45	90	3	50	50	100
2	PCC	25CSK42	Object Oriented Programming using java	CS	3	0	0	0	3	45	45	90	3	50	50	100
3	PCCL	25CSLK42	Object Oriented Programming using java LAB	CS	0	0	1	0	1	30	-	30	3	50	50	100
4	PCC	25CSE43	Operating Systems	CS	3	0	0	0	3	45	45	90	3	50	50	100
5	PCCL	25CSL43	Linux Operating System Lab	CS	0	0	1	0	1	30	-	30	3	50	50	100
6	PCC	25CSK44	Database Management Systems	CS	3	0	0	0	3	45	45	90	3	50	50	100
7	PCCL	25CSLK44	Database Management Systems Lab	CS	0	0	1	0	1	30	-	30	3	50	50	100
8	PEC	25CSE45X	Professional Elective Course-I	CS	3	0	0	0	3	45	45	90	3	50	50	100
9	AEC	25CSE46X	Ability Enhancement Course - IV	CS	0	0	1	0	1	30	-	30	3	50	50	100
10	PROJ	25EPP47	Environmental Science Project	Any Dept	0	0	2	0	2	-	60	60	3	50	50	100
11	NCMC	25NSS40	National Service Scheme	-												
		25PED40	Physical Education and Sports	-	0	0	0	0	0	-	30	30	-	50	-	50
		25YOG40	Yoga	-												
		25MUS40	Music	-												

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Bos Chairperson

14/8/24

Total									
		21	345	315	660	30	550	500	1050
12	NCMC	24DMAT4 1	Basic Applied Mathematics-II	BS	0	0	0	0	0
					15	15	30	-	50
								--	50

BSC: Basic Science Course, **PCC:** Professional Core Course, **PCCL:** Professional Core Course laboratory, **UHV:** Universal Human Value Course, **NCMC:** Non-Credit Mandatory Course, **AEC:** Ability Enhancement Course, **PROJ:** Mini Project work, **L:** Lecture, **T:** Tutorial, **P:** Practical **S:** SDA: Self Study for Skill Development, **K:** This letter in the course code indicates common to all the stream of engineering. **ESC:** Engineering Science Course, **ETC:** Emerging Technology Course, **PLC:** Programming Language Course, **CIE:** Continuous Internal Evaluation, **SEE:** Semester End Evaluation.

24DMAT41*: This non-credit mandatory course to be offered with only CIE and no SEE to Lateral entry students.

Professional Elective Course-I			
24CSE451	Knowledge Engineering	24CSE454	Computer Graphics and Animation
24CSE452	Introduction to Cloud Computing and Virtualization	24CSE455	Fundamentals of Information Security
24CSE453	Software Testing	24CSE456	Theory of Computation

Ability Enhancement Course - IV			
24CSE461	Data Visualization	24CSE464	UI / UX Design
24CSE462	IoT Programming	24CSE465	Programming in C++
24CSE463	Automated Software Testing		

Mini-project work: Mini Project is a laboratory-oriented/hands on course that will provide a platform to students to enhance their practical knowledge and skills by the development of small systems/applications etc. Based on the ability/abilities of the student/s and recommendations of the mentor. A student can do mini project as

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NYS Bos Chairperson 19/12/25

- (i) A group of 2 if mini project work is single discipline (applicable to all IT allied branches)
- (ii) A group of 2-4 if mini project work is single discipline (applicable to all Core Branches)
- (iii) A group of 2 - 4 students if the Mini Project work is a multidisciplinary (Applicable to all Branches)

CIE procedure for Mini-project:

(i) **Single discipline:** The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two faculty members of the Department, one of them being the Guide. The CIE marks awarded for the Mini-project work shall be based on the evaluation of the project report, project presentation skill, and question and answer session in the ratio of 50:25:25. The marks awarded for the project report shall be the same for all the batches mates.

(ii) **Interdisciplinary:** Continuous Internal Evaluation shall be group-wise at the college level with the participation of all the guides of the project

The CIE marks awarded for the Mini-project, shall be based on the evaluation of the project report, project presentation skill, and question and answer session in the percentage ratio of 50:25:25. The marks awarded for the project report shall be the same for all the batch mates

National Service Scheme /Physical Education/Yoga/Music: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PE) (Sports and Athletics), Yoga (YOG) and Music(MUS) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree.

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03-Credits courses are to be designed for 40 hours in Teaching-Learning Session
 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session
 01-Credit courses are to be designed for 15 hours of Teaching-Learning Sessions

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NV-4 19/8/2024

Community Project:

The Community Project using Innovation and Design Thinking shall aim to:

1. Expose the students to the living conditions and challenges faced by communities.
2. Enable students to apply engineering knowledge for community welfare and sustainable development.
3. Encourage the students to analyze social, cultural, and economic issues from a multidisciplinary perspective.
4. Students to identify innovative and sustainable solutions to societal problems.
5. Promote interdisciplinary collaboration and community participation.
6. Cultivate social awareness, leadership, responsibility, and active involvement in addressing community challenges

Environmental Science Project

1. The project shall be carried out throughout the fourth semester following the approved academic calendar.
2. Based on the selected problem statement, students shall develop an appropriate prototype, software application, system architecture, or design solution supported by proper analysis, documentation, and validation.
3. The project shall be carried out through the following stages:
 - Define the environmental problem.
 - Conduct literature review.
 - Plan field visits.
 - Collect primary and secondary data.
 - Perform surveys, audits, interviews, or environmental measurements.
 - Analyze the collected data.
 - Identify root causes.
 - Develop sustainable and technically feasible solutions.
 - Validate the proposed solution wherever applicable.

Bos Member Secretary

HOD-CSB

Bos Chairperson

NEW HORIZON COLLEGE OF ENGINEERING

B. E. in Computer Science and Engineering

Scheme of Teaching and Examinations for 2024 - 2028 BATCH (2024 Scheme)

V - Semester

S. No.	Course and Course Code		Course Title	BoS	Credit Distribution				Overall Credits	Contact Hours	Marks		
	L	T			P	S	CIE	SEE			Total		
1	IPCC	24CSE51	Fundamentals of Data Science	CS	2	0	1	0	3	4	50	50	100
2	PCC	24CSK52	Design and Analysis of Algorithms	CS	3	0	0	0	3	3	50	50	100
3	PCCL	24CSLK52	Design and Analysis of Algorithms Lab	CS	0	0	1	0	1	2	50	50	100
4	PCC	24CSE53	Computer Networks	CS	3	0	0	0	3	3	50	50	100
5	PCCL	24CSL53	Network Simulation Lab	CS	0	0	1	0	1	2	50	50	100
6	AEC*	24CSE54	Cloud Native Application Development	CS	3	0	0	0	3	3	50	50	100
7	AEC	24RMK55	Research Methodology and IPR	CS	1	0	0	0	1	1	50	50	100
8	AEC	24SDK56	Critical and Creative Thinking Skills	-	0	0	1	0	1	2	50	--	50
9	PROJ	24CSE57	Societal Based Mini Project	CS	0	0	1	0	1	2	50	50	100
10	OEC	26NHOP5X X	Industrial Open Elective Course-I	Offering Dept.	3	0	0	0	3	3	50	50	100
11	NCMC	24NSS50	National Service Scheme										
		24PED50	Physical Education and Sports										
		24YOG50	Yoga		0	0	0	0	0	2	50	--	50
Total									20	27	550	450	1000

Bos Member Secretary

HOD-CSE

Bos Chairperson

PCC: Professional Core Course, **PCCI:** Professional Core Course laboratory, **IPCC:** Integrated Professional Core Course, **NCMC:** Non-Credit Mandatory Course, **AEC*** = Skill Enhancement Course, **PROJ:** Mini Project work **L:** Lecture, **T:** Tutorial, **P:** Practical **S:** **SDA:** Self Study for Skill Development, **CIE:** Continuous Internal Evaluation, **SEE:** Semester End Evaluation

National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PE)(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree.

National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PE)(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree.

Bos Member Secretary

HOD-CSE

NX.1
Bos Chairperson

Societal Based Mini Project: Mini Project is a laboratory-oriented/hands on course that will provide a platform to students to enhance their practical knowledge and skills by the development of small systems/applications etc. Based on the ability/abilities of the student/s and recommendations of the mentor. A student can do mini project as

- A group of 2 if mini project work is single discipline (applicable to all IT allied branches)
- A group of 2-4 if mini project work is single discipline (applicable to all Core Branches)
- A group of 2-4 students if the Mini Project work is a multidisciplinary (Applicable to all Branches)

CIE procedure for Mini-project

i) **Single discipline:** The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two faculty members of the Department, one of them being the Guide. The CIE marks awarded for the Mini-project work shall be based on the evaluation of the project report, project presentation skill, and question and answer session in the ratio of 50:25:25. The marks awarded for the project report shall be the same for all the batches mates.

ii) **Interdisciplinary:** Continuous Internal Evaluation shall be group-wise at the college level with the participation of all the guides of the project. The CIE marks awarded for the Mini-project shall be based on the evaluation of the project report, project presentation skill, and question and answer session in the percentage ratio of 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

Credit Definition:

1-hour Lecture (L) per week=1Credit
2-hours Tutorial(T) per week=1Credit
2-hours Practical / Drawing (P) per week=1Credit
2-hour Self Study for Skill Development (SDA) per week = 1 Credit

03-Credits courses are to be designed for 40 hours in Teaching-Learning Session 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 15 hours of Teaching-Learning Sessions

Bos Member Secretary

HOD-CSE

Bos Chairperson

NEW HORIZON COLLEGE OF ENGINEERING

B. E. in Computer Science and Engineering Scheme of Teaching and Examinations for 2024 - 2028 BATCH (2024 Scheme)

VI - Semester

S. No.	Course and Course Code	Course Title	BoS	Credit Distribution					Overall Credit	Contact Hours	Marks		
				L	T	P	S	CIE			SEE	Total	
1	PCC 24CSE61	Full stack Technologies	CS	3	0	0	0	3	3	50	50	100	
2	PCCL 24CSL61	Full stack Technologies Lab	CS	0	0	1	0	1	2	50	50	100	
3	PCC 24CSE62	Machine Learning	CS	3	0	0	0	3	3	50	50	100	
4	PCCL 24CSL62	Machine Learning Lab	CS	0	0	1	0	1	2	50	50	100	
5	AEC* 24CSE63	Cyber Security Principles and Practices	CS	3	0	0	0	3	3	50	50	100	
6	PEC 24CSE64X	Professional Elective Course-II	CS	3	0	0	0	3	3	50	50	100	
7	AEC 24CSE65X	Ability Enhancement Course-V	CS	0	0	1	0	1	2	50	50	100	
8	NCMC 24SDK66	Problem Solving Skills	-	0	0	0	0	0	2	50	50	100	
9	PROJ 24CSE67	Cap Stone Project Phase-I	CS	0	0	2	0	2	4	50	50	100	
10	OEC 26NHOP6XX	Industrial Open Elective Course-II	Offering Dept	3	0	0	0	3	3	50	50	100	
11	NCMC 24YOG60	24NSS60	-	0	0	0	0	0	2	50	--	50	
		24PED60											
		Yoga											
Total								20	29	550	450	1000	

Bos Member Secretary

HOD-CSE

NV.J Bos Chairperson 21/ Page 19/8/2025

PCC: Professional Core Course, **PCCL**: Professional Core Course laboratory, **NCMC**: Non-Credit Mandatory Course, **AEC**: Ability Enhancement Course, **PEC**: Professional Elective Course, **OEC**: Open Elective Course, **PROJ**: Project work, **L**: Lecture, **T**: Tutorial, **P**: Practical **S**: SDA: Self Study for Skill Development, **CIE**: Continuous Internal Evaluation, **SEE**: Semester End Evaluation.

Professional Elective Course-II			
24CSE641	Soft Computing	24CSE644	Multimedia Communication
24CSE642	Introduction to Quantum Computing	24CSE645	Cryptocurrency and Blockchain Technologies
24CSE643	Advanced Java		

Ability Enhancement Course-V			
24CSE651	Devops	24CSE654	Wearable Technologies
24CSE652	Containerization Tools	24CSE655	AI with MATLAB SIMULINK
24CSE653	Mobile Application Development		

Industrial Open Elective Courses-II:

Credit for OEC is 03 (L: T: P: S) can be considered as (3: 0: 0 : 0). The teaching and learning of these Courses will be based on hands-on. The Course Assessment will be based on CIE and SEE in practical mode. These Courses will be offered by Centre of Excellence to students of all the branches. Registration to Industrial open electives shall be documented and monitored on college level.

Cap Stone Project Phase-I: Students have to discuss with the mentor/guide and with their help he/she has to complete the literature survey and prepare the report and finally define the problem statement for the project work.

Professional Elective Courses (PEC): A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering and Technology curriculum. Multidisciplinary courses can be added to supplement the latest trend and advanced technology in the selected stream of engineering.

National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PE)(Sports and Athletics) and Yoga(YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree.

Bos Member Secretary

HOD-CSE

Bos Chairperson

Mini-project work:

Mini Project is a laboratory-oriented/hands on course that will provide a platform to students to enhance their practical knowledge and skills by the development of small systems/applications etc. Based on the ability/abilities of the student/s and recommendations of the mentor. A student can do mini project as

- (i) A group of 2 if mini project work is single discipline (applicable to all IT allied branches)
- (ii) A group of 2-4 if mini project work is single discipline (applicable to all Core Branches)
- (iii) A group of 2-4 students if the Mini Project work is a multidisciplinary (Applicable to all Branches)

CIE procedure for Mini-project:

- (i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two faculty members of the Department, one of them being the Guide. The CIE marks awarded for the Mini-project work shall be based on the evaluation of the project report, project presentation skill, and question and answer session in the ratio of 50:25:25. The marks awarded for the project report shall be the same for all the batches mates.
- (ii) Interdisciplinary: Continuous Internal Evaluation shall be group-wise at the college level with the participation of all the guides of the project.

The CIE marks awarded for the Mini-project, shall be based on the evaluation of the project report, project presentation skill, and question and answer session in the percentage ratio of 50:25:25. The marks awarded for the project report shall be the same for all the batch mates

Industrial Open Elective Course (OEC):

- Credit for OEC is 03 (L: T: P: S) can be considered as (3: 0: 0: 0).
- The teaching and learning of these Courses will be based on hands-on.
- The Course Assessment will be based on CIE and SEE in practical mode.
- This Courses will be offered by Centre of Excellence to students of all the branches.
- Registration to Industrial open electives shall be documented and monitored on college level.

CIE procedure for Project Work:

(1) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work, shall be based on the evaluation of the project work Report, project presentation skill, and question and answer session in the percentage ratio of 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(2) Interdisciplinary: Continuous Internal Evaluation shall be group-wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work shall be based on the evaluation of project work Report, project presentation skill, and question and answer session in the percentage ratio of 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE procedure for Project Work:

SEE for project work will be conducted by the two examiners appointed by the University. The SEE marks awarded for the project work shall be based on the evaluation of project work Report, project presentation skill, and question and answer session in the percentage ratio of 50:25:25.

Bos Member Secretary

HOD-ESF

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Bos Chairperson

Credit Definition: 1-hour Lecture (L) per week=1 Credit 2-hours Tutorial (T) per week=1 Credit 2-hours Practical / Drawing (P) per week=1 Credit 2-hours Self Study for Skill Development (SDA) per week = 1 Credit	03-Credits courses are to be designed for 40 hours in Teaching-Learning Session 02-Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 15 hours of Teaching-Learning Sessions
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CAP Stone Project Phase 1:

The objective of the Project work is

- (i) To encourage independent learning and the innovative attitude of the students.
- (ii) To develop interactive attitude, communication skills, organization, time management, and presentation skills.
- (iii) To impart flexibility and adaptability.
- (iv) To inspire team working.
- (v) To expand intellectual capacity, credibility, judgment and intuition.
- (vi) To adhere to punctuality, setting and meeting deadlines.
- (vii) To install responsibilities to oneself and others.
- (viii) To train students to present the topic of project work in a seminar without any fear, face the audience confidently, enhance communication skills, involve in group discussion to present and exchange ideas.

Bos Member Secretary

HOD-CSB

Bos Chairperson

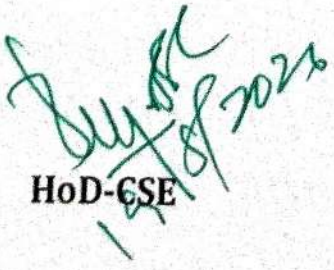
Presentation of draft of scheme & syllabus

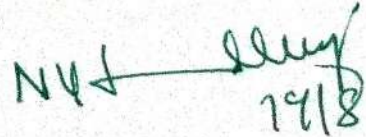
The draft of scheme and contents of syllabus were presented by Chairperson, Dr. N.V. Uma Reddy and Heads' of the Department, Dr. Raja M and Dr. B. Swathi. The details were scrutinized by the members of the Board.

The presentation for the ratification of a draft scheme and syllabus for semester courses is a crucial step in the academic process. The members formally accepted and appreciated the proposal of new courses. The objective of this presentation is to provide a comprehensive overview of the proposed courses, including their structure, content, assessment methods, and alignment with learning objectives.

In summary, the presentation session for draft scheme and syllabus ratification was very informative aimed at presenting comprehensive details about all intrinsic details of Core (Theory & Lab), PE (Professional Electives), OEC (Open Elective Courses), and AEC (Ability Enhancement courses) and Project work. After emphasizing the courses' content, structure, assessment methods, and alignment with learning outcomes, ultimately seeking approval and endorsement from panel of external experts and VTU nominee.


BoS Member Secretary


HoD-CSE


BoS Chairperson

Recommendations/ Suggestions of BOS Members

The following suggestions were given by the BoS members in the scheme and syllabi.

Dr. Shambavi

1. Bioinspired design should be a mandatory 3 credit course at per VTU
2. NHCE-CSE can think of creating their own MOOC Contents.
3. Permissible number of credits for transfer through NPTEL MOOCs

Ms. Supriya

1. Data Engineering course is good to introduce in the curriculum.
2. MLOPS can be incorporated in the curriculum.

Mr. Niran Pai

1. Courses like Design Patterns (Saga Patterns), Microservices, Solid Principles can be introduced in the 3rd Semester
2. Topics like Sequel, No Sequel, Vector Database(to correlate with Gen AI) can be introduced in DBMS
3. Project based learning can be emphasized in the courses like Design and Analysis of Algorithms.
4. Detailed categories of Non Functional requirements can be explained through real time projects as an introductory module in Software testing course.

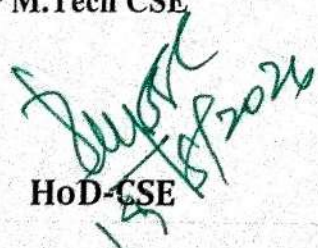
Mr. Dinesh Mohata

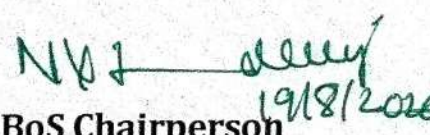
1. Customers review as case studies can be incorporated in the module for the courses like Software Engineering, Software testing to explain the realistic scenarios and open source projects.
2. Open search projects- can be incorporated and weightage can be given to assess their performance.

2022 scheme and syllabi has been retained for 7th and 8th Semester (2023-2027 batch)

2024 Scheme and Syllabi is retained for M.Tech CSE


BoS Member Secretary


HoD-CSE


BoS Chairperson

AGENDA-6

Implementation of Recommendation of BOS Members

The Chairperson constituted the following faculty members as mentioned below to review and implement the recommendations of the BOS members in the scheme and syllabus of the curriculum based on industry needs

3rd and 4th Semester Courses (2025 -2029 Batch)

1. Dr. Roja Ramani, Associate Professor, Department of CSE
2. Dr. Soja Rani, Associate Professor, Department of CSE

5th and 6th Semester Courses(2024 - 2028 Batch)

1. Dr. Nirmala M, Professor, Department of CSE
2. Dr. Rajalakshmi G, Associate Professor, Department of CSE

AGENDA-7

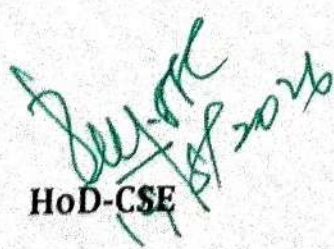
Approval of scheme & syllabus of agenda 3 & 4

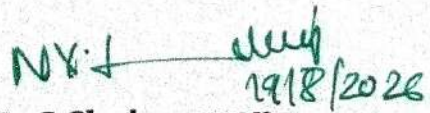
The Board of Studies members reviewed the modified draft of the scheme & syllabus with their recommendations/suggestions being incorporated appropriately for the following:

1. B.E 3rd and 4th semester for 2025-2029 batch
2. B.E 5th and 6th semester for 2024-2028 batch

Finally, the members approved the draft of the same with the modifications for final implementation.


BoS Member Secretary


HoD-CSE


BoS Chairperson

AGENDA-8

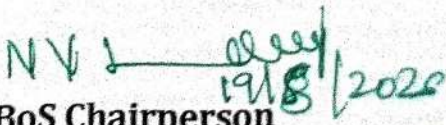
Vote Of Thanks by the Chairperson of BOS

The chairperson of BOS thanked the external members **Dr. Annappa, Dr. B. R. Shambhavi , Ms. Supriya K, Mr. Dinesh Mohata, Mr. Niren Pai and Ms. Vanshika Sai Ramadurgam** for their productive participation on behalf of the Management, Principal, Vice Principal, Heads of the Department. She also thanked all the other members of the BOS for their active participation.

Dr. N. V.Uma Reddy
BOS – Chairperson and Dean CSE
NHCE


BoS Member Secretary


HoB-CSE


BoS Chairperson