NEW HORIZON COLLEGE OF ENGINEERING

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

DEPARTMENT OF COMPUTER ENGINEERING

4th BOARD OF STUDIES MEETING

Minutes of the meeting

Academic year 2024-2025

DATE	:	**13.07.2024**
VENUE	:	**Computer Lab-I, 2nd Floor, C Block, NHCE**
TIME	:	**10:00 am – 12:00 pm**

19/7/24

19/7/24.

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AGENDA FOR THE MEETING

1. Welcome address by the chairman of BOS
2. Presentation of draft of Scheme from 5th to 8th semester
3. Proposed course details for the academic year 2024-2025
4. Presentation of Syllabus of Third and Fourth year in detail
5. Recommendations/ Suggestions of BOS members.
6. Implementation of recommendation of BOS members
7. Approval of Scheme & Syllabus of NEP 160 & Revised NEP 160 Credit
8. Vote of Thanks by the chairman of BOS

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LIST OF BOS MEMBERS

S.No	Category	Nomination of the committee	Name of the person	Designation & Affiliation
1.	Head of the Department	Chairperson	Dr.T.Kavitha	HOD/CE
2.	Special Invitees (one academician from Institution of National Eminence, IIT,NIT,IIM,IISC)	1	Dr. Manjunatha	Principal/NHCE
		2	Dr. R.J.Anandhi	Dean Academics/NHCE
		3	Dr. Sanjeev Sharma	Dean_QASDC_NHCE
		4	Dr. E.Sivasankar	Professor, NIT,Trichy
3.	Faculty member at different level with different specialization	Members		
		1	Dr. Rajalakshmi B	HOD/CSE
		2	Dr. Vandana C P	HOD/ISE
		3	Dr. C.R.Rathish	Associate Professor/CE
		4	Dr.Bhimaraya Patil	Associate Professor/CE
		5	Mr.Chandan Raj B.R	Assistant Professor/CE
		6	Ms.Mehda	Assistant Professor/CE
4.	Subject expert from outside the college nominated by Academic Council	Members		
		1	Dr. Mohana Kumar	Associate Professor, Department of CSE MSIRT, Bengaluru – 560082.
5.	Experts from outside the college nominated by VTU	Members		
		1	Dr. Cauvery N K	Professor & Asst.Director SAP,RVCE Bengaluru - 560059
6.	Representative from Industry / Corporate sector / allied area related to placements, nominated by Academic Council	Members		
		1	Dr. Kanagasundaram K	Principal Technical Specialist, NOKIA NETWORKS, Bengalur
7.	Co-opted members	Members		
		1	Mr.Anis Mirza	Director -Corporate Relations, Learning and Development, Placements & IIIC

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DEPARTMENT OF COMPUTER ENGINEERING

LIST OF BOS MEMBERS – AY 2024-25

S.No	Category	Nomination of the committee	Name of the person	Designation & Affiliation	SIGN
1.	Head of the Department	Chairperson	Dr.T. Kavitha	HOD/CE	
2.	Special Invitees (one academician from Institution of National Eminence, IIT,NIT,IIM,IISC)	1	Dr. Manjunatha	Principal/NHCE	
		2	Dr. R.J.Anandhi	Dean Academics/NHCE	
		3	Dr. Sanjeev Sharma	Dean_QA&IIE_NHCE	
		4	Dr. E. Sivasankar	Professor, NIT Trichy	— online —
3.	Faculty member at different level with different specialization	Members			
		1	Dr. Rajalakshmi B	HOD/CSE	15 jul 24
		2	Dr. Vandana C P	HOD/ISE	
		3	Dr. C.R.Rathish	Associate Professor/CE	
		4	Dr. Bhimaraya Patil	Associate Professor/CE	
		5	Mr Chandan Raj B.R	Assistant Professor/CE	
		6	Ms Mehda	Assistant Professor/CE	
4.	Subject expert from outside the college nominated by Academic Council	Members			
		1	Dr. Mohana Kumar	Associate Professor, Dept of CSE, MSIRT, Bengaluru – 560082.	
5.	Experts from outside the college nominated by VTU	Members			
		1	Dr. Cauvery N K	Professor & Asst.Director SAP, RVCE Bengaluru - 560059	— online —
6.	Representative from Industry / Corporate sector / allied area related to placements, nominated by Academic Council	Members			
		1	Dr. Kanagasundaram K	Principal Technical Specialist, NOKIA NETWORKS, Bengaluru	
7.	Co-opted members	Members			
		1	Mr.Anis Mirza	Director -Corporate Relations, Learning and Development, Placements & IIIC	

HOD-CE

Dr T.Kavitha

Dean Academics

Dr R.J.Anandhi

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AGENDA -1

WELCOME ADDRESS BY THE CHAIRMAN OF BOS

The 4th Board of Studies meeting for Department of Computer Engineering was scheduled on 13.07.2024 at Computer Lab – I , 2nd floor, NHCE.

At the outset, Chairperson Dr. Kavtiha.T Professor & Head – Department of Computer Engineering, welcomed the Members for attending the 4th Board of studies meeting held in Computer Lab-I, 2nd floor, NHCE.

The chairperson introduced Dr. R.J.Anandhi, Dean–Academics, New Horizon College of Engineering to the members of Board of Studies and welcomed him for the ensuing proceedings.

The chairperson further expressed special thanks to, an expert Dr. Sivasankar, Academician from Institution of National Eminence, NIT Trichy. Dr. Cauvery N K, nominated by VTU Dr. Mohana Kumar, expert, nominated by Academic Council for sparing the time from their busy schedule to attend the meeting.

The chairperson also expressed his gratitude to industrial nominee, Dr. K. Kanagasundaram, Principal Technical Specialist, Nokia Networks, Bengaluru.

The meeting was also attended Co-opted members Mr.Anis Mirza , Director -Corporate Relations, Learning and Development, Placements & IIIC and Internal faculty members Dr. Rajalakshmi B, Dr. Aravinda K, Dr. Uma Reddy N V, Dr. Asha V, Dr.T.Kavitha, Dr.Bhimaraya Patil, Mr.Chandanraj, Ms.Mehda

AGENDA -2

Presentation by Chairman of BOS about Department scheme & Syllabus

The Chairman of BOS **Dr. T.Kavitha**, Professor & Head, Department of Computer Engineering, presented draft of Scheme from 7th to 8th semester of NEP 160 Credit & Syllabus of 5th and 6th semester Revised NEP 160 credit in the current academic year 2024-25.

BOS MOM discussion held on 19/7/24.

✓ Mini Project to have number.

19/7/24.

19/7/24.

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AGENDA -3

Proposed course details for the academic year 2024-25, 5th to 6th Semester Scheme (Revised NEP) 160 Credit.

V SEMESTER 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	HSMS	22CEE51	Software Engineering and Product Management	CEE	3	0	0	0	3	3	50	50	100
2	PCC	22CEE52	Operating Systems	CEE	3	0	0	0	3	3	50	50	100
3	PCCL	22CEL52	Operating Systems Lab	CEE	0	0	1	0	1	2	50	50	100
4	PCC	22CEE53	Web Technology	CEE	3	0	0	0	3	3	50	50	100
5	PCCL	22CEL53	Web Technology Lab	CEE	0	0	1	0	1	2	50	50	100
6	PEC	22CEE54X	Professional Elective Course-I	CEE	3	0	0	0	3	3	50	50	100
7	AEC	22RMK55	Research Methodology and IPR	CEE	2	0	0	0	2	2	50	50	100
8	AEC	22SDK56	Critical and Creative Thinking Skills	CEE	0	0	1	0	1	2	50	--	50
9	UHV	22ESK57	Environmental Studies	Any Dept	1	0	0	0	1	1	50	50	100
10	PROJ	22CEE58	Mini Project	CEE	0	0	1	0	1	0	50	50	100
11	CMC	22NSK50	National Service Scheme (NSS)	NSS coordinator	0	0	0	0	0	2	50	--	50
		22PEK50	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		22YOK50	Yoga	Yoga Teacher									
Total									19	23	550	450	100

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Professional Elective Course-I			
2CEE541	Artificial Intelligence	22CEE544	Human Computer Interaction
2CEE542	Object Oriented Analysis and Design	22CEE545	Operation Research
2CEE543	Principles of Cloud Computing		

VI SEMESER SCHEME

VI 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	PCC	22CEE61	Computer Networks	CEE	3	0	0	0	3	3	50	50	100
2	PCCL	22CEL61	Computer Networks Lab	CEE	0	0	1	0	1	2	50	50	100
3	PCC	22CEE62	Machine Learning	CEE	3	0	0	0	3	3	50	50	100
4	PCCL	22CEL62	Machine Learning Lab	CEE	0	0	1	0	1	2	50	50	100
5	PCC	22CEE63	Cybersecurity and Its Applications	CEE	3	0	0	0	3	3	50	50	100
6	PEC	22CEE64X	Professional Elective Course-II	CEE	3	0	0	0	3	3	50	50	100
7	PROJ	22CEE65	Project Phase-I	CEE	0	0	2	0	2	0	50	50	100
8	AEC	22SDK66	Problem Solving Skills	XX	0	0	1	0	1	2	50	--	50
9	AEC	22CEE67X	Ability Enhancement Course – V	CEE	If the course is a Theory						50	50	100
					1	0	0	0	1	1			
					If the course is a laboratory								
					0	0	1	0	1	2			
10	OEC	23NHOP6XX	Industrial Open Elective Course-I	Offering Dept.	3	0	0	0	3	3	50	50	100
11	NCMC	22NSK60	National Service Scheme	NSS coordinat	0	0	0	0	0	2	50	--	50

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		22PEK60	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		22YOK60	Yoga	Yoga Teacher									
Total									21	24/25	550	450	1000

Professional Elective Course-II			
22CEE641	Fundamentals of Data Science	22CEE644	Social Network Analysis
22CEE642	Quantum Computing	22CEE645	System Modelling and Simulati
22CEE643	Natural Language Programming		

Ability Enhancement Course – V			
2CEE671	Swift Programming	22CEE673	Casandra / NoSQL
2CEE672	Data Visualization and its Applications	22CEE674	Introduction to full stack Development tool kit

AGENDA -4

Proposed course details for the academic year 2024-25, 7th to 8th Semester Scheme 160 Credit

VII SEMESTER-SCHEME

I mester

.).	Course and Course Code		Course Title	BoS	Credit Distribution				Overall Credits	Contact Hours	Marks		
					L	T	P	S			CIE	SEE	Total
	PCC	21CEE71	Full Stack Deep Learning	CEE	2	0	1	0	3	3	50	50	100
	PCC	21CEE72	Mobile Application Development	CEE	2	0	1	0	3	3	50	50	100
	PROJ	21CEE73	Project Work	CEE	0	0	12	0	12	0	100	100	200
	AEC	21CEK74	Scientific Foundations of Health	CEE	1	0	0	0	1	1	50	50	100
	OEC	23NHOP7XX	Industrial Open Elective Course-II	Offering Dept.	3	0	0	0	3	3	50	50	100
				Total					22	10	300	300	600

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VIII SEMESTER-SCHEME

II Semester

Sl. No.	Course and Course Code		Course Title	BoS	Credit Distribution				Overall Credits	Contact Hours	CIE	SEE	Total
					L	T	P	S					
	PEC	21CEE81X	Professional Elective Course-III	CEE	3	0	0	0	3	3	50	50	100
	SEM	21CEE82	Technical Seminar	CEE	0	0	1	0	1	0	50	-	50
	INT	21CEE83	Research Internship/ Industry Internship /Rural Internship	CEE	0	0	12	0	12	0	100	100	200
	NCMC	21NSS84	National Service Scheme (NSS)	NSS coordinator	0	0	0	0	0	0	50	50	100
		21PES84	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		21YOG84	Yoga	Yoga Teacher									
Total									16	3	250	200	450

Professional Elective Course-III			
21CEE811	Data Visualization	21CEE814	Wireless Adhoc Networks
21CEE812	Social Network Analysis	21CEE815	Block Chain and Its Application
21CEE813	High Performance Computing		

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Open Elective

Course Code	Course	BOS
20NHOP701	Big Data Analytics using HP Vertica- 1	CSE
20NHOP702	VM Ware Virtualization Essentials-1	ISE
20NHOP704	Big Data Analytics using HP Vertica – 2	CSE
20NHOP707	SAP	ME
20NHOP708	Schneider - Industrial Automation	EEE
20NHOP709	CISCO - Routing & Switching - 1	ECE
20NHOP712	CISCO - Routing & Switching -2	ECE
20NHOP714	Blockchain	CSE
20NHOP715	Product Life Cycle Management	ME
20NHOP720A	Robotic Process Automation	CSE
20NH0P721A	Industry 4.0	ME
20NHOP722A	Programming of Industrial Robot	ECE
20NHOP723A	5G Communication	ECE
20NHOP725A	VLSI Physical Design-I	ECE
20NHOP726A	VLSI Physical Design-2	ECE
20NHOP727A	Juniper Network Operating System	ECE
20NHOP728A	Database Administration using DB2	AI&ML

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GENDA -5

Recommendations/ Suggestions of BOS members

The agenda was already circulated among the committee members and the following discussions were made based on the agenda.

Dr. Cauvery, Assistant Director – SAP, RVCE, Dr. Mohana Kumar, Associate Professor, Department of CSE, MSRIT, Bengaluru, and Dr. Kanagasundaram K, Principal Technical Specialist, NOKIA NETWORKS, Bengaluru, attended the meeting and appreciated the curriculum and syllabi.

The following suggestions were given by the BOS members:

General Suggestions

Dr. Mohana Kumar suggested that the NCMC courses be put in the previous semesters and not in the 8th semester.
also asked to check the typo errors.

Dr. Mohana Kumar suggested including tutorial weightage as it is not given in the general scheme.

Dr. Mohana Kumar suggested mapping the PO1 to P10 for all the subjects.

Dr.Mohan Kumar suggested not to highlight any acronyms while framing the syllabus.

Subject: Full Stack Development

Dr.Sivsankar Suggested including the Miniproject type of scenario in full-stack development.

Subject: Mobile Development

Dr. Kanagasundaram. K Industry expert suggested removing the syllabus of Windows from mobile development since it is outdated.

Subject: Data Visualization

Dr.Sivasankar suggested a tutorial part for data visualization since experiments can be mapped as a part of teaching.

Subject: High-Performance Computing

Dr. Mohana Kumar suggested including the OODA concept in High-performance computing.

Subject: Software Engineering and Product Management

Dr. Kanagasundaram: K Industry expert suggested changing the outcome of the course related to product management.

Subject: OOAD

Dr. Kanagasundaram. K suggested OOAD can be used as a professional core instead of an elective.

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Subject: Operational Research

Dr. Mohana Kumar suggested removing the operational research subject and adding some other subjects for the same.

Subject: Data Science

Dr. Mohana Kumar suggested changing the subject title to Introduction to Data Science.

Subject: Approval of Scheme and Syllabi

Dr.Sivasankar, Dr. Mohana Kumar, and Dr. Kanagasundaram appreciated the contents and endorsed the views of BoS members. The BoS members unanimously approved the scheme and syllabi for the V and VI semesters for the 2022 batch (NEP) and the VII and VIII semesters for 2021 batch.

AGENDA -6

Implementation of recommendations of BOS members

The chairperson reviewed the curriculum and implemented the recommendations of the BOS members in the scheme and syllabus of the curriculum and affected the changes regarding issues raised by external BOS members.

AGENDA -7

Approval of Scheme & Syllabus of Second Year Computer Engineering Subjects

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

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

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ENDA -8

Vote of Thanks by the chairman of BOS

The Chairman thanked all the members for having participated in the meeting and contributed to framing the curriculum and syllabi (VII and VIII semester, 160 Credits) for Revised NEP and (V and VI semester 160 Credit)

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