



**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

2nd BOARD OF STUDIES MEETING

Minutes of the meeting

Academic year 2022-2023

DATE : 03.06.2022
VENUE : VM Ware Lab 5th Floor, C Block, NHCE
TIME : 11:00 am – 03:00 pm

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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 2022-2023
4. Presentation of Syllabus of Second year in detail
5. Recommendations/ Suggestions of BOS members.
6. Implementation of recommendation of BOS members
7. Approval of Scheme & Syllabus of Second Year Computer Engineering Subjects
8. Vote of Thanks by the chairman of BOS

LIST OF BOS MEMBERS

S.No	Category	Nomination of the committee	Name of the person	Designation & Affiliation
1.	Head of the Department	Chairperson	Dr.S.P. Manikandan	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. Channappa B Akki	HOD/CSE IIIT Dharwad
3.	Faculty member at different level with different specialization	Members		
		1	Dr. Rajalakshmi B	HOD/CSE
		2	Dr. Aravinda K	HOD/ECE
		3	Dr. Uma Reddy N V	HOD/AI&ML
		4	Dr. Asha V	HOD/MCA
		5	Dr. C.R.Rathish	Associate Professor/CE
		6	Mr.Rahul B	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, Bengaluru
7.	Post Graduate meritorious alumni nominated by Principal	Members		
		NIL		
8.	Co-opted members	Members		
		1	Mr. Binod Kumar Singh	HOD & CR, IIIC, NHCE

Annexure A

LIST OF MEMBERS PRESENT IN 2nd MEETING



**NEW HORIZON
COLLEGE OF ENGINEERING**

AUTONOMOUS COLLEGE Permanently Affiliated to VTU, Approved by AICTE & UGC
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Department of Computer Engineering

Attendance sheet

Academic Year: 2022-23

DATE OF BOS MEETING: 03/06/2022

LIST OF MEMBERS:

S.No	Category	Nomination of the committee	Name of the person	Designation & Affiliation	Signature
1	Head of the Department	Chairperson	Dr. S. P. Manikandan	Professor & HoD, Dept. of CE	<i>S.P. Manikandan</i>
2	Faculty member at different level with different specialization	Member			
		1	Dr. Rajalakshmi	Professor & HoD, Dept. of CSE, NHCE, Bangalore	<i>[Signature]</i>
		2	Dr. Aravinda K	Professor & HoD, Dept. of ECE, NHCE, Bangalore	<i>[Signature]</i>
		3	Dr. Uma Reddy N V	Professor & HoD, Dept. of AI&ML, NHCE, Bangalore	<i>N.V. Uma Reddy</i>
		4	Dr. Asha V	Professor & HoD, Dept. of MCA, NHCE, Bangalore	<i>[Signature]</i>
		5	Dr. C. R. Rathish	Associate Professor, Dept. of CE, NHCE, Bangalore	<i>[Signature]</i>
6	Mr. Rahul B	Assistant Professor, Dept. of CE, NHCE, Bangalore	<i>[Signature]</i>		
3	Special Invitees (one from academicians Institution of National Eminence (IIT, NIT, IIM, IISc))	External Member	Dr. Channappa B Akki	HOD, Dept. of CSE, IIIT Dharwad	Online
4	Subject expert from outside the college	External Member	Dr. Mohana Kumar S	Associate Professor, Dept. of CSE, MSRIT, Bangalore	<i>[Signature]</i> 5/6/2022 Dr. Mohana Kumar S Assoc. Prof. Dept. of CSE
5	Experts from outside the college nominated by VTU	External Member	Dr. Cauvery N K	Professor & Asst. Director, SAP, RVCE Bangalore	Online
6	Representative from Industry / Corporate sector / allied area related to placements, nominated by Academic Council	External Member	Dr. Kanagasundaram K	Principal Technical Specialist, Nokia Networks, Bangalore	Online

S.P. Manikandan
HOD-CE
Dr.S.P.Manikandan

[Signature]
15/6/2022
Dr. R. J. Anandhi
Professor and Dean Academics
DEAN ACADEMICS
New Horizon College of Engineering
Dr. R. J. Anandhi
Bangalore - 560 103

[Signature]
PRINCIPAL
Dr. Manjunatha

AGENDA -1

WELCOME ADDRESS BY THE CHAIRMAN OF BOS

The 2nd Board of Studies meeting for Department of Computer Engineering was scheduled on 03.06.2022 at VM Ware Lab 5th floor, NHCE.

At the outset, Chairperson *Dr. Manikandan S P Professor & Head – Department of Computer Engineering*, welcomed the Members for attending the 2nd Board of studies meeting held in VM Ware Lab 5th floor, NHCE.

The chairperson introduced Dr. R.J.Anandhi, Dean–Academics, Professor & HOD Information Science and Engineering , 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. Channappa B Akki, Academician from Institution of National Eminence, IIT Dhrwad. **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. Binod Kumar Singh**, TPO, NHCE and Internal faculty members **Dr. Rajalakshmi B, Dr. Aravinda K, Dr. Uma Reddy N V, Dr. Asha V, Dr. C.R.Rathish, Mr.Rahul B**

AGENDA -2

Presentation by Chairman of BOS about Department scheme & Syllabus

The Chairman of BOS **Dr. S.P. Manikandan**, Professor & Head, Department of Computer Engineering, presented draft of Scheme from 3rd to 8th semester & Syllabus of 3rd and 4th semester in the current academic year 2021-22.

AGENDA -3

Proposed course details for the academic year 2022-23, 5th to 8th Semester Scheme 175 Credit.

V Sem Scheme

Sl. No	Course Code	Course	BOS	Credit Distribution				Overall Credits	Contact Hours	Marks		
				L	T	P	S			CIE	SEE	Total
1	20CEE51A	Microcontroller and Embedded Systems	CEE	3	0	0	0	3	3	50	50	100
2	20CEE52A	Computer Networks	CEE	3	0	0	0	3	3	50	50	100
3	20CEE53A	Web Technology	CEE	3	0	0	0	3	3	50	50	100
4	20CEE54XA	Professional Elective -1	CEE	3	0	0	0	3	3	50	50	100
5	20CEE55XA	Professional Elective -2	CEE	3	0	0	0	3	3	50	50	100
6	20CEL56A	Microcontroller and Embedded Systems Lab	CEE	0	0	2	0	2	4	25	25	50
7	20CEL57A	Computer Networks Lab	CEE	0	0	2	0	2	4	25	25	50
8	20CEL58A	Web Technology Lab	CEE	0	0	2	0	2	4	25	25	50
9	20CEE59A	Mini Project-III	CEE	0	0	2	0	2	-	25	25	50
Total								23	27	350	350	700

Professional Elective Courses-1		Professional Elective Course- II	
20CEE541	High Performance Computing	20CEE551	User Interface Design
20CEE542	Artificial Intelligence	20CEE552	Data Mining and Warehousing
20CEE543	Quantum Computing	20CEE553	Communication Engineering
20CEE544	Software Engineering	20CEE554	Mobile Computing

VI Sem Scheme

Sl. No	Course Code	Course	BOS	Credit Distribution				Overall Credits	Contact Hours	Marks		
				L	T	P	S			CIE	SEE	Total
1	20CEE61A	Cyber Physical Systems	CEE	3	0	0	0	3	3	50	50	100
2	20CEE62A	Operating System	CEE	3	0	0	0	3	3	50	50	100
3	20CEE63A	Multi Core Architecture	CEE	3	0	0	0	3	3	50	50	100
4	20CEE64XA	Professional Elective-3	CEE	3	0	0	0	3	3	50	50	100
5	20CEE65XA	Professional Elective-4	CEE	3	0	0	0	3	3	50	50	100
6	20CEL66A	Cyber Physical Systems Lab	CEE	0	0	2	0	2	4	25	25	50
7	20CEL67A	Multi Core Architecture Lab	CEE	0	0	2	0	2	4	25	25	50
8	20CEE68A	Mini Project-IV	CEE	0	0	2	0	2	-	25	25	50
9	20NHOPxx	Open Elective	COE	3	0	0	0	3	3	50	50	100
Total								24	26	375	375	750

Professional Elective Courses-III		Professional Elective Course- IV	
20CEE641	Wearable Technology Using IoT	20CEE651	Object Oriented Analysis and Design
20CEE642	Cryptography and Network Security	20CEE652	Software Project Management
20CEE643	Cloud Computing	20CEE653	Data Visualization
20CEE644	Social Network Analysis	20CEE654	Natural Language Computing

VII Sem Scheme

Sl. No	Course Code	Course	BOS	Credit Distribution				Overall Credits	Contact Hours	Marks		
				L	T	P	S			CIE	SEE	Total
1	XXCEE71	IIoT and Wireless Sensor Networks	CEE	3	0	0	0	3	3	50	50	100
2	XXCEE72	Software Testing	CEE	3	0	0	0	3	3	50	50	100
3	XXCEE73x	Professional Elective 5	CEE	3	0	0	0	3	3	50	50	100
4	XXCEE74x	Professional Elective 6	CEE	3	0	0	0	3	3	50	50	100
5	XXCEL75	IIoT and Wireless Sensor Networks Lab	CEE	0	0	2	0	2	4	25	25	50
6	XXCEL76	Software Testing Lab	CEE	0	0	2	0	2	4	25	25	50
7	XXCEE77	Project Phase-1	CEE	0	0	3	0	3	-	50	50	100
8	XXNHOPxx	Open Elective	COE	3	0	0	0	3	3	50	50	100
Total								22	23	350	350	700
Professional Elective Courses-5				Professional Elective Course- 6								
XXCEE731	Distributed Computing		XXCEE741	Software Quality Assurance								
XXCEE732	Cyber Security		XXCEE742	Penetration Testing								
XXCEE733	Advanced Microcontroller		XXCEE743	Behavioral Biometrics								
XXCEE734	Data Acquisition and Productization		XXCEE744	HDL-Based Digital Systems Design								

VIII Sem Scheme

Sl. No	Course Code	Course	BOS	Credit Distribution				Overall Credits	Contact Hours	Marks		
				L	T	P	S			SEE	CIE	Total
1	XXCEE81	Computer Vision	CEE	3	0	0	0	3	3	50	50	100
2	XXCEE82	Internship Viva	CEE	0	0	4	0	4	-	50	50	100
3	XXCEE83	Project Phase -II	CEE	0	0	12	0	12	-	150	150	300
Total								19	3	250	250	500

AGENDA -4

Proposed course details for the academic year 2022-23, 3rd to 8th Semester Scheme 160 Credit

III Sem Scheme

S. No	Course Code	Course	BoS	Credit Distribution				Overall Credits	Contact Hours	Marks		
				L	T	P	S			CIE	SEE	Total
1	21CEE31A	Applied Mathematics-III	AS	2	1	0	0	3	4	50	50	100
2	21CEE322A*	Programming in C	CEE	1	0	1	0	2	2	50	50	100
3	21HSS332A/ 21HSS333A	Aadalitha Kannada / Vyavaharikha Kannada	HSS	1	0	0	0	1	1	50	50	100
4	21HSS341A	Environmental Science	HSS	1	0	0	0	1	1	50	50	100
5	21CEE35A	Digital Logic Circuits	CEE	2	1	0	0	3	4	50	50	100
6	21CEL35A	Digital Logic Circuits Lab	CEE	0	0	1	0	1	2	50	50	100
7	21CEE36A	Data Structures using C	CEE	2	1	0	0	3	4	50	50	100
8	21CEL36A	Data Structures using C Lab	CEE	0	0	1	0	1	2	50	50	100
9	21CEE37A	Data Base Management Systems	CEE	2	1	0	0	3	4	50	50	100
10	21CEL37A	Data Base Management Systems Lab	CEE	0	0	1	0	1	2	50	50	100
11	21CEE38A	Mini Project-I	CEE	0	0	2	0	2	4	50	50	100
Total								21	30	550	550	1100
Exclusively for Lateral Entry Students												
12	21DMAT31A	Basic Applied Mathematics - 1	AS	0	0	0	0	0	2	50	50	100
Total								0	2	50	50	100
* - Ability Enhancement course												

IV Sem Scheme

S. No	Course Code	Course	BOS	Credit Distribution				Overall Credits	Contact Hours	Marks		
				L	T	P	S			CIE	SEE	Total
				1	21CEE41A	Discrete Mathematics and Graph Theory	AS			2	1	0
2	21HSS421A*	Life Skills for Engineers	HSS	1	0	1	0	2	2	50	50	100
3	21HSS431A	Entrepreneurship Development -II	HSS	1	0	0	0	1	1	50	50	100
4	21HSS441A	Constitution of India & Professional Ethics	HSS	1	0	0	0	1	1	50	50	100
5	21CEE45A	Object Oriented Programming using Java	CEE	2	1	0	0	3	4	50	50	100
6	21CEL45A	Object Oriented Programming using Java Lab	CEE	0	0	1	0	1	2	50	50	100
7	21CEE46A	Microprocessor and Microcontroller	CEE	2	1	0	0	3	4	50	50	100
8	21CEL46A	Microprocessor and Microcontroller Lab	CEE	0	0	1	0	1	2	50	50	100
9	21CEE47A	Design and Analysis of Algorithm Using C	CEE	2	1	0	0	3	4	50	50	100
10	21CEL47A	Design and Analysis of Algorithm using C Lab	CEE	0	0	1	0	1	2	50	50	100
11	21CEE48A	Summer Internship-I	CEE	0	0	0	2	2	0	50	50	100
Total								21	26	550	550	1100
Exclusively for Lateral Entry Students												
12	21DAEC40A	Communicative English	HSS	0	0	0	0	0	2	50	50	100
13	21DMAT41A	Basic Applied Mathematics - 2	AS	0	0	0	0	0	2	50	50	100
Total								0	4	100	100	200
* - Ability Enhancement course												

V Sem Scheme

S. No	Course Code	Course	BOS	Credit Distribution				Overall Credits	Contact Hours	Marks		
				L	T	P	S			CIE	SEE	Total
1	21AEC51A	Research Methodology and Intellectual Property Rights	CEE	2	0	0	0	2	2	50	50	100
2	21CEE52A*	Computer Organization	CEE	1	0	1	0	2	2	50	50	100
3	21CEE53A	Multi Core Architecture	CEE	2	1	0	0	3	4	50	50	100
4	21CEL53A	Multi Core Architecture Lab	CEE	0	0	1	0	1	2	50	50	100
5	21CEE54A	Software Testing	CEE	2	1	0	0	3	4	50	50	100
6	21CEL54A	Software Testing Lab	CEE	0	0	1	0	1	2	50	50	100
7	21CEE55xA	Professional Elective -1	CEE	2	1	0	0	3	4	50	50	100
8	21CEE56xA	Professional Elective -2	CEE	2	1	0	0	3	4	50	50	100
9	21AEC57A/ 21AEC67A	Physical Education	HSS	0	0	0	0	0	2	50	50	100
10	21CEE58A	Mini Project-II	CEE	0	0	2	0	2	4	50	50	100
Total								20	30	500	500	1000

NOTE: 21CEE52A - DAEC

Professional Elective Courses-1		Professional Elective Course- II	
21CEE551A	High Performance Computing	21CEE561A	User Interface Design
21CEE552A	Artificial Intelligence	21CEE562A	Data Mining and Warehousing
21CEE553A	Quantum Computing	21CEE563A	Embedded Systems
21CEE554A	Software Engineering	21CEE564A	Mobile Computing

VI Sem Scheme

S. No	Course Code	Course	BOS	Credit Distribution				Overall Credits	Contact Hours	Marks		
				L	T	P	S			CIE	SEE	TOTAL
1	21CEE61A	Operating System	CEE	2	1	0	0	3	4	50	50	100
2	21CEL61A	Operating System Lab	CEE	0	0	1	0	1	2	50	50	100
3	21CEE62A	Web Technology	CEE	2	1	0	0	3	4	50	50	100
4	21CEL62A	Web Technology Lab	CEE	0	0	1	0	1	2	50	50	100
5	21CEE63xA	Professional Elective-3	CEE	2	1	0	0	3	4	50	50	100
6	21CEE64xA	Professional Elective-4	CEE	2	1	0	0	3	4	50	50	100
7	21NHOP65A	Open Elective – 1	COE	2	0	1	0	3	4	50	50	100
8	21CEE66A	Summer Internship-II	CEE	0	0	0	3	3	0	50	50	100
9	21AEC57A/ 21AEC67A	Physical Education	HSS	0	0	0	0	0	2	50	50	100
Total								20	26	450	450	900

Professional Elective Courses-3		Professional Elective Course- 4	
21CEE631A	Wearable Computing	21CEE641A	Object Oriented Analysis and Design
21CEE632A	Cryptography and Network Security	21CEE642A	Software Project Management
21CEE633A	Grid and Cloud Computing	21CEE643A	Data Visualization
21CEE634A	Social Network Analysis	21CEE644A	Natural Language Computing

VII Sem Scheme

S. No	Course Code	Course	BOS	Credit Distribution				Overall Credits	Contact Hours	Marks		
				L	T	P	S			CIE	SEE	TOTAL
				1	21CEE71xA	Professional Elective Course-5	CEE			2	1	0
2	21CEE72xA	Professional Elective Course-6	CEE	2	1	0	0	3	4	50	50	100
3	21NHOP73A	Open Elective-2	COE	2	0	1	0	3	4	50	50	100
4	21NHOP74A	Open Elective-3	COE	2	0	1	0	3	4	50	50	100
5	21CEE75A	Project Work	CEE	0	0	10	0	10	20	200	200	400
Total								22	36	400	400	800

Professional Elective Courses-5		Professional Elective Course- 6	
21CEE711A	Distributed Computing	21CEE721A	Software Quality Assurance
21CEE712A	Cyber Security	21CEE722A	Penetration Testing
21CEE713A	Advanced Microcontroller	21CEE723A	Behavioral Biometrics
21CEE714A	Data Acquisition and Productization	21CEE724A	HDL-Based Digital Systems Design

VIII Sem Scheme

S. No	Course Code	Course	BOS	Credit Distribution				Overall Credits	Contact Hours	Marks		
				L	T	P	S			SEE	CIE	Total
1	21CEE81A	Technical Seminar	CEE	0	1	0	0	1	2	50	50	100
2	21CEE82A	Research/Industry Internship	CEE	0	0	0	15	15	0	200	200	400
Total								16	2	250	250	500

*Research/ Industry Internship: To be evaluated on a regular basis
 Attendance certificate Mandatory for (24 weeks) Research/ Industry Internship

AGENDA -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:

Subject 1: 21CEE322A –Programming in C

Dr. Channappa B Akki, suggested to remove concepts of Dynamic memory allocations in to the subject, Same concepts students will be having in Data Structures. Also Suggested to reduce the concepts in Module 3. It is informed that as per the recommendation, the suggestions where considered and are incorporated.

Subject 2: 21CEL36A- Data Structures using C Lab

Dr. Mohan Kumar S, suggested to rename this subject title as Data Structures Lab. It is informed that as per the suggestion the changes are incorporated.

Subject 3: 21CEE47A- Design and Analysis of Algorithm Using C

Dr. Mohan Kumar S, suggested to rename this subject title as Design and Analysis of Algorithm Lab. It is informed that as per the suggestion the changes are incorporated.

Subject 4: 21CEE533A - Quantum Computing (160)

Dr. Channappa B Akki and Dr. Mohana Kumar S suggested to include system software Subject before learning Quantum Computing. It is informed that as per the suggestion the changes shall be incorporated and updated accordingly.

Subject 5: 20CEE533A - Quantum Computing (175)

Dr. Channappa B Akki and Dr. Mohana Kumar S suggested to include system software Subject before learning Quantum Computing. It is informed that as per the suggestion the changes shall be incorporated and updated accordingly.

Subject 6: 20CEE51A - Microcontroller and Embedded Systems

Dr. Channappa B Akki suggested to reframe the concepts starting with Module 3 to Module 5. It is informed that as per the suggestion the changes shall be incorporated and updated accordingly.

Subject 7: 20CEE53A - ARM Processor

Dr. Kanagasundaram suggested to rename this subject title as Multi-Processor. It is informed that as per the suggestion the changes are incorporated.

Subject 8: Mini Project

Dr. Mohana Kumar and Dr. Kanagasundaram suggested to include Python Programming in early semester to facilitate students for better understanding in the areas like data science, data analytics and machine learning etc., which are to be learnt in higher semesters. It is informed that we plan to encourage our students to do this subject through MOOC courses for mini project implementation.

Subject 9:CO-PO Mapping-Revisit

Dr. Channappa B Akki and Dr. Mohana Kumar S, suggested to revisit the CO-PO mapping of all the courses and could be reviewed properly. He opined that the subject teachers have to give proper justification for their course CO-PO mapping. This observation is acknowledged and informed that it would be discussed in the appropriate forum (DAB – Department Advisory Board).

Subject 10: Approval of Scheme and Syllabi

Dr. Channappa B Akki, 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 III and IV semesters for 2020 batch (NEP) and V and VI semester for 2018 batch.

AGENDA -6

Implementation of recommendation 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.

Third semester Computer Engineering Subjects: -

SL NO	SUBJECT CODE	SUBJECT	% Additions / Deletions in Modules	Proposed Experiential Learning in the Modules	Percentage change in the syllabus for AY 2021-22
1	21CEE322A	Programming in C	10%	Dynamic Memory Concepts	10%

AGENDA -8

Vote of Thanks by the chairman of BOS

The Chairman thanked all the members for having participated in the meeting and contributed in framing the curriculum and syllabi (III and IV semester, 160 Credit) for NEP and (V and VI semester, 175 Credit) for 2018 Scheme

