



**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**

8th BOARD OF STUDIES MEETING

**Minutes of Meeting
ACADEMIC YEAR 2022-23**

DATE : 25-05-2022
VENUE : Online via ZOOM
TIME : 10.30 AM-1:30 PM

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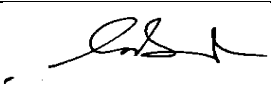
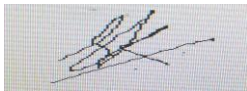
AGENDA FOR THE MEETING

- 1. Welcome address by the chairman of BOS**
- 2. Presentation by chairman of BOS about department achievements**
- 3. Presentation of proceedings of the previous BOS meeting by chairman of BOS**
- 4. Proposed course details of 3rd & 4th BE (CSE) scheme & syllabus for the academic year 2022-23 and 5th to 8th BE (CSE) NEP schemes**
- 5. Presentation of draft of scheme & syllabus for the aforementioned (agenda-4) semester courses ratification**
- 6. Recommendations/ suggestions of BOS members**
- 7. Implementation of recommendation of BOS members**
- 8. Approval of scheme & syllabus of agenda 4,5**
- 9. Proposed course details of 1st & 2nd M.Tech (CSE) scheme & syllabus for the academic year 2022-23 and new 3rd & 4th M.Tech (CSE) schemes**
- 10. Presentation of draft of scheme & syllabus for the aforementioned (agenda-9) semester courses ratification.**
- 11. Recommendations/ suggestions of BOS members.**
- 12. Implementation of recommendation of BOS members**
- 13. Approval of scheme & syllabus of agenda 9, 10**
- 14. Vote of thanks by the chairman of BOS**

LIST OF MEMBERS

Sl. No	Category	Nomination of the committee	Name of the person	Email ID & Mobile No
1	Head of the Department	Chairperson	Dr. B Rajalakshmi	hod_cse@newhorizonindia.edu 9841711347
2	Special Invitees (one academician from Institution of National Eminence, IIT, NIT, IIM, IISC)	Member		
		1	Dr. S.R Sudarshan	sudarshan@jiitrpr.ac.in 9023978851
3	Faculty member at different level with different specialization	Member		
		1	Dr. Amarjeet Singh	amarjeetsingh.iaf@gmail.com 9315432675
		2	Dr.B.Meenakshi Sundaram	bmsundaram@gmail.com 9943460520
		3	Dr. R. Senthilkumar	senkr.raj@gmail.com 9789591714
		4	Dr. S. Subhashini	drsjsnhce@gmail.com 7868863909
		5	Dr. Rachana P	2000.rachana@gmail.com 8075817202
4	Subject expert from outside the college nominated by Academic Council	Member		
		1	Dr.Jagdish S Kallimani Professor & Head, Dept of AI&ML, MSRIT, Bangalore.	jagdish.k@msrit.edu hod_aiml@msrit.edu 9844094962
5	Experts from outside the college nominated by VTU	Member		
		1	Dr. Thippeswamy Professor, Dept. of CSE BMSITM – Bengaluru	gt_swamy@bmsit.in 9448864856
6	Representative from Industry / Corporate sector / allied area related to placements, nominated by Academic Council	Member		
		1	Mr. Sasikumar Kondalraj Testing Project Manager, Vertuesa Technologies, Chennai.	skondalraj@yahoo.com 9003024226
7	Post Graduate meritorious alumni nominated by Principal	Member		
		1	Ms. Archana Udayashankar Business Systems Analyst, VMware, Bangalore	udayashankararchana@gmail.com 8197999685
8	Co-opted members	Member		
		1	Ms. AshaRaniBorah	nhce.asha.borah@gmail.com 9986010118
		2	Mr. Sivabalan	sivabn@newhorizonindia.edu 9886368137
		3	Ms.Soja Rani S	sojars@newhorizonindia.edu 9482598037
		4	Ms. Shanmuga Priya	priya.soundararajan@gmail.com 8095100018
		5	Mr. N. Binod Kumar	palcementofficer@newhorizonindia.edu 9663928931

LIST OF MEMBERS PRESENT

Sl. No	Category	Nomination of the committee	Name of the person	Signature
1	Head of the Department	Chairperson	Dr. B Rajalakshmi	
2	Special Invitees (one academician from Institution of National Eminence, IIT,NIT,IIM,IISC)	Member		
		1	Dr. S.R Sudarshan, Associate Professor, IIT Ropar, Ropar	
3	Faculty member at different level with different specialization	Member		
		1	Dr. Amarjeet Singh	
		2	Dr.B.Meenakshi Sundaram	
		3	Dr. R. Senthilkumar	
		4	Dr. S. Subhashini	
		5	Dr. Rachana P	
4	Subject expert from outside the college nominated by Academic Council	Member		
		1	Dr.Jagdish S Kallimani Professor & Head, Department of AI&ML, MSRIT, Bangalore.	
5	Experts from outside the college nominated by VTU	Member		
		1	Dr. Thippeswamy Professor, Dept. of CSE BMSITM - Bengaluru	
6	Representative from Industry / Corporate sector / allied area related to placements, nominated by Academic Council	Member		
		1	Mr. Sasikumar Kondalraj Testing Project Manager, Vertuesia Technologies, Chennai.	
7	Post Graduate meritorious alumni nominated by Principal	Member		
		1	Ms. Archana Udayashankar Business Systems Analyst VMware - Bengaluru	
8	Co-opted members	Member		
		1	Ms. AshaRaniBorah	
		2	Mr. Sivabalan	
		3	Ms.Soja Rani S	
		4	Ms. Shanmuga Priya	
		5	Mr. N. Binod Kumar	

AGENDA -1

Welcome Address by the Chairman of BOS

The 8th Board of Studies meeting for Department of Computer Science and Engineering was scheduled on 25th May 2022 at 10.30 AM. Due to the prevailing Covid-19 conditions, the BOS meeting was conducted online using ZOOM.

At the outset, Chairperson **Dr. B. Rajalakshmi**– Professor & Head – Department of Computer Science and Engineering, welcomed all the members to the 8th Board of Studies meeting.

The Chairperson introduced **Dr. R. J. Anandhi**, Prof & Dean–Academics & HoD - CSE, New Horizon College of Engineering to the members of Board of Studies and welcomed her for the ensuing proceedings.

The Chairperson further expressed special thanks to **Dr. Thippeswamy**, an expert, nominated by VTU, Special Invitees from IIT Ropar, **Dr. S.R Sudarshan** and a subject expert from outside the college nominated by Academic Council **Dr.Jagdish S Kallimani**, Professor & Head, Department of AI &ML, MSRIT, Bangalore.

The chairperson also expressed her gratitude to industrial nominee by Academic Council, **Mr. Sasikumar Kondalraj**, Testing Project Manager, Virtues Technology, Chennai for sparing the time from his busy schedule to attend the meeting.

The meeting was also attended by meritorious alumnus **Ms. Archana Udayashankar**, Business Systems Analyst, VMware – Bengaluru, nominated by the Principal, Co-opted members **Ms. Asha Rani Borah**, **Mr. Sivabalan**, **Ms. Soja Rani S**, **Ms. Shanmuga Priya**, **Mr. N. Binod Kumar** and internal faculty members **Dr. Amarjeet Singh**, **Dr. B. Meenakshi Sundaram**, **Dr. Senthilkumar**, **Dr. Rachana**, **Dr. Subhashini** with different specialization.

AGENDA -2

Presentation by chairman of BOS about department achievements

Chairperson of BOS Dr. B. Rajalakshmi, Professor & Head, Department of Computer Science and Engineering, presented the achievements of the department in the current academic year 2021-22.

AGENDA -3

Presentation of proceedings of the previous BOS meeting by chairman of BOS

Chairperson of BOS Dr. B. Rajalakshmi, Professor & Head, Department of Computer Science and Engineering, briefed the proceedings of previous BOS meeting acknowledging their contribution for betterment in framing the scheme & syllabus.

AGENDA -4

**Proposed course details of 3rd & 4th BE (CSE) scheme &
syllabus for the academic year 2022-23 and 5th to 8th BE (CSE)
NEP schemes**

III - Semester (2021 Scheme - 160 Credits)

Sl. No	Course Code	Course Name	Credits distribution				Total Credits	Marks		Remark (LAB/ Hands on Programs)
			L	T	P	S		CIE	SEE	
1.	21CSE31A	Applied Mathematics-III	2	1	0	0	3	50	50	100
2.	21HSS321A*	Life Skills for Engineers	1	0	1	0	2	50	50	100
3.	21HSS331A	Entrepreneurship Development –II	1	0	0	0	1	50	50	100
4.	21HSS341A	Constitution of India & Professional Ethics	1	0	0	0	1	50	50	100
5.	21CSE35A	Linux System Programming	2	1	0	0	3	50	50	100
6.	21CSL35A	Linux System Programming Lab	0	0	1	0	1	50	50	100
7.	21CSE36A	Data Structures and Applications	2	1	0	0	3	50	50	100
8.	21CSL36A	Data Structures and Applications Lab	0	0	1	0	1	50	50	100
9.	21CSE37A	Digital Electronics	2	1	0	0	3	50	50	100
10.	21CSL37A	Digital Electronics Lab	0	0	1	0	1	50	50	100
11.	21CSE38A	Mini Project-I	0	0	2	0	2	50	50	100
Total Credits							21	550	550	1100

IV - Semester (2021 Scheme - 160 Credits)

Sl. No	Course Code	Course Name	Credits distribution				Total Credits	Marks		Remark (LAB/ Hands on Programs)
			L	T	P	S		CIE	SEE	
1.	21CSE41A	Applied Mathematics-IV	2	1	0	0	3	50	50	100
2.	21CSE422A*	Web Design Technologies	1	0	1	0	2	50	50	100
3.	21HSS432A/ 21HSS433A	Aadalitha Kannada / Vyavaharikha Kannada	1	0	0	0	1	50	50	100
4.	21HSS442A	Environmental Science	1	0	0	0	1	50	50	100
5.	21CSE45A	Computer Architecture and ARM	2	1	0	0	3	50	50	100
6.	21CSL45A	ARM Processor Lab	0	0	1	0	1	50	50	100
7.	21CSE46A	Object Oriented Programming	2	1	0	0	3	50	50	100
8.	21CSL46A	Object Oriented Programming Lab	0	0	1	0	1	50	50	100
9.	21CSE47A	Operating System	2	1	0	0	3	50	50	100
10.	21CSL47A	Operating System Lab	0	0	1	0	1	50	50	100
11.	21CSE48A	Summer Internship - I	0	0	0	2	2	50	50	100
Total Credits							21	550	550	1100

IV - Semester (2021 Scheme - 160 Credits)

LATERAL ENTRY ADDITIONAL COURSES

Sl. No	Course Code	Course Name	Credits distribution				Total Credits	Marks		Remark (LAB/ Hands on Programs)
			L	T	P	S		CIE	SEE	
1.	21DMAT31A	Basic Applied Mathematics – 1	0	0	0	0	0	50	50	100
2.	21DAEC40A	Communicative English	0	0	0	0	0	50	50	100
3.	21DMAT41A	Basic Applied Mathematics - 2	0	0	0	0	0	50	50	100

V - Semester (2021 Scheme – 160 Credits)

Sl. No	Course Code	Course Name	Credits distribution				Total Credits	Marks		Remark (LAB/ Hands on Programs)
			L	T	P	S		CIE	SEE	
1.	21AEC51A	Research Methodology and Intellectual Property Rights	2	0	0	0	2	50	50	100
2.	21CSE52A	Analysis and Design of Algorithms	2	1	0	0	3	50	50	100
3.	21CSL52A	Analysis and Design of Algorithms Lab	0	0	1	0	1	50	50	100
4.	21CSE53A	Database Management Systems	2	1	0	0	3	50	50	100
5.	21CSL53A	Database Management Systems Lab	0	0	1	0	1	50	50	100
6.	21CSE54XA	Professional Elective-1	2	1	0	0	3	50	50	100
7.	21CSE55XA	Professional Elective-2	2	1	0	0	3	50	50	100
8.	21CSE56A*	Mobile Application Development	1	0	1	0	2	50	50	100
9.	21PEN57A*/67A*	Physical Education	0	0	0	0	0	50	50	100
10.	21CSE58A	Mini Project-II	0	0	2	0	2	50	50	100
Total Credits							20	500	500	1000

Professional Elective-1		
SNO	COURSE CODE	COURSE NAME
1	21CSE541A	Software Engineering & Object Oriented Analysis and Design
2	21CSE542A	Software Testing
3	21CSE543A	Advanced Data Structures
4	21CSE544A	Web of Things
5	21CSE545A	Embedded Programming

Professional Elective-2		
SNO	COURSE CODE	COURSE NAME
1	21CSE551A	Data Mining & Machine Learning
2	21CSE552A	Pattern Recognition
3	21CSE553A	Digital Image Processing
4	21CSE554A	Soft Computing
5	21CSE555A	Robotics

VI - Semester (2021 Scheme - 160 Credits)

Sl. No	Course Code	Course Name	Credits distribution				Total Credits	Marks		Remark (LAB/ Hands on Programs)
			L	T	P	S		CIE	SEE	
1.	21CSE61A	Finite Automata and Compiler Design	2	1	0	0	3	50	50	100
2.	21CSL61A	Compiler Design Lab	0	0	1	0	1	50	50	100
3.	21CSE62A	Computer Networks	2	1	0	0	3	50	50	100
4.	21CSL62A	Computer Networks Lab	0	0	1	0	1	50	50	100
5.	21CSE63XA	Professional Elective-3	2	1	0	0	3	50	50	100
6.	21CSE64XA	Professional Elective-4	2	1	0	0	3	50	50	100
7.	21NHOP6XXA	Open Elective -1	2	0	1	0	3	50	50	100
8.	21CSE66A	Summer Internship - II	0	0	0	3	3	50	50	100
9.	21PEN57A*/ 67A*	Physical Education	0	0	0	0	0	50	50	100
Total Credits							20	450	450	900

Professional Elective-3		
SNO	COURSE CODE	COURSE NAME
1	21CSE631A	Advanced Java Programming
2	21CSE632A	Mobile Computing
3	21CSE633A	Parallel Processing
4	21CSE634A	Computational Intelligence
5	21CSE635A	Advanced Databases

Professional Elective-4		
SNO	COURSE CODE	COURSE NAME
1	21CSE641A	Cloud Computing
2	21CSE642A	Internet of Things
3	21CSE643A	Quantum Computing
4	21CSE644A	Green Computing
5	21CSE645A	Human Computer Interaction

VII - Semester (2021 Scheme - 160 Credits)

Sl. No	Course Code	Course Name	Credits distribution				Total Credits	Marks		Remark (LAB/ Hands on Programs)
			L	T	P	S		CIE	SEE	
1.	21CSE71XA	Professional Elective-5	2	1	0	0	3	50	50	100
2.	21CSE72XA	Professional Elective-6	2	1	0	0	3	50	50	100
3.	21NHOP7XXA	Open Elective-2	2	0	1	0	3	50	50	100
4.	21NHOP7XXA	Open Elective-3	2	0	1	0	3	50	50	100
5.	21CSE75A	Project Work	0	0	10	0	10	200	200	400
Total Credits							22	400	400	800

Professional Elective-5		
SNO	COURSE CODE	COURSE NAME
1	21CSE711A	Deep Learning
2	21CSE712A	Artificial Intelligence
3	21CSE713A	Natural Language Processing
4	21CSE714A	Social Network Analysis
5	21CSE715A	Business Intelligence & Analytics

Professional Elective-6		
SNO	COURSE CODE	COURSE NAME
1	21CSE721A	Fundamentals of Data Science
2	21CSE722A	Computer Vision
3	21CSE723A	Cyber Security, Forensics and Law
4	21CSE724A	Ethical Hacking
5	21CSE725A	Agile Methodologies

VIII - Semester (2021 Scheme - 160 Credits)

Sl. No	Course Code	Course Name	Credits distribution				Total Credits	Marks		Remark (LAB/ Hands on Programs)
			L	T	P	S		CIE	SEE	
1.	21CSE81A	Technical Seminar	0	1	0	0	1	50	50	100
2.	21CSE82A	Research/ Industry Internship	0	0	0	15	15	200	200	400
Total Credits							16	250	250	500

AGENDA -5

Presentation of draft of scheme & syllabus for the aforementioned (agenda-4) semester courses ratification

- ✓ The Chairperson presented the draft of scheme and contents of syllabus in each subject for THIRD and FOURTH semester for scrutiny. The details were scrutinized by the members of the Board.

❖ THIRD semester Computer Science and Engineering Subjects :-

SL NO	SUBJECT CODE	SUBJECT
1	21CSE35A	Linux System Programming
2	21CSL35A	Linux System Programming Lab
3	21CSE36A	Data Structures and Applications
4	21CSL36A	Data Structures and Applications Lab
5	21CSE37A	Digital Electronics
6	21CSL37A	Digital Electronics Lab
7	21CSE38A	Mini Project-I

❖ FOURTH semester Computer Science and Engineering Subjects :-

1	21CSE422A*	Web Design Technologies
2	21CSE45A	Computer Architecture and ARM
3	21CSL45A	ARM Processor Lab
4	21CSE46A	Object Oriented Programming
5	21CSL46A	Object Oriented Programming Lab
6	21CSE47A	Operating System
7	21CSL47A	Operating System Lab
8	21CSE48A	Summer Internship - I

AGENDA -6

Recommendations/ Suggestions of BOS Members

- ✓ Board members appreciated the incorporation of advanced courses as electives in the UG curriculum

About Core (Theory & Lab)

- ✓ Data structure and Algorithm course requires mathematics especially Discrete Mathematics
- ✓ Not to mention the programming languages in the course title, let it be generic.
- ✓ In all labs, Part-B is added as project, which was appreciated by the BoS members
- ✓ Detailed optimization, courses can be offered
- ✓ Linux lab contents can include Linux programs and kernel commands
- ✓ Java programming kept in basic and advanced levels, which was appreciated
- ✓ Mathematical foundation for data science is must and need to be included.

About Professional Elective(s)

- ✓ Professional elective such as software testing need to be included in mini-project kind of courses (JUnit – can be used for unit testing)
- ✓ The elective grouping was appreciated
- ✓ Microservices architecture should be added as an elective

About Mathematics Course – requirements

- ✓ Instead of Applied Mathematics -1, 2, 3, 4 (Name courses as linear algebra, optimization, probability and statistics, calculus & advanced calculus like this....)
- ✓ Foundation of mathematical structures for computing need to be included
- ✓ Mathematics courses needs to be customized for CSE students

About Academic Discipline Violation

- ✓ For plagiarized contents submission, as a violation of academic discipline, strong rules need to be defined

About Best Practices Adoption

- ✓ Industry-oriented teaching should be practiced

About Stakeholder Feedbacks

- ✓ Stakeholder feedback was discussed and incorporated into the curriculum

AGENDA -7

Implementation of Recommendation of BOS Members

The chairperson constituted the following groups to review and implement the recommendations of the BOS members in the scheme and syllabus of the curriculum based on industry needs

SI No	Course Code	Course Name	Faculty	Action to be Taken
1.	21CSE35A	Linux System Programming	Ms. Pramila Rani	Theory & lab need to be unified
2.	21CSL35A	Linux System Programming Lab	Ms. Soja Rani	Kernel commands need to be added
3.	21CSE36A	Data Structures and Applications	Dr. Rachana	“Algorithm/Anlysis” need to be removed in title
4.	21CSL36A	Data Structures and Applications Lab	Dr. Rachana	Part-B Project is appreciated
5.	21CSE37A	Digital Electronics	Ms. Asha Rani Borah	The courses can be integrated with CO
6.	21CSL37A	Digital Electronics Lab	Ms. Asha Rani Borah	The courses can be integrated with CO
7.	21CSE38A	Mini Project-I	Ms. Soja Rani	Nil
8.	21CSE422A*	Web Design Technologies	Ms. Pramila Rani	Appreciated
9.	21CSE45A	Computer Architecture and ARM	Mr. Santhosh Kumar B	Computer Architecture and Organization can be combined
10.	21CSL45A	ARM Processor Lab	Mr. Santhosh Kumar B	Can be combined with digital lab
11.	21CSE46A	Object Oriented Programming	Dr. Senthil Kumar	Language name should be removed in title
12.	21CSL46A	Object Oriented Programming Lab	Dr. Senthil Kumar	Part-B Project is appreciated
13.	21CSE47A	Operating System	Ms. Shanmuga Priya	Course contents are appreciated

14.	21CSL47A	Operating System Lab	Ms. Shanmuga Priya	Course contents are appreciated
15.	21CSE48A	Summer Internship - I	Ms. Soja Rani	More emphasize to be given for industry oriented internships

AGENDA -8

Approval of scheme & syllabus

Scheme-21: 3rd & 4th BE (CSE) scheme & syllabus for the academic year 2022-23

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 Science And Engineering Subjects :-

SL NO	SUBJECT CODE	SUBJECT	% Addition/ Deletion in Modules	Proposed Experiential Learning in the Modules	Industrial inputs in the Modules	Percentage change in the syllabus from(AY 2021-2022 to AY 2022-23)
1.	21CSE35A	Linux System Programming	1 – Module (20%)	Network commands and programs are added	Kernel commands needs to be added	20%
2.	21CSL35A	Linux System Programming Lab	1 – Module (20%)	Network commands and programs are added	Kernel commands needs to be added	20%
3.	21CSE36A	Data Structures and Applications	Programming in C is introduced in Unit-1 & 2 (40%)	Programming for logic building along with data structure implementation	Contents were appreciated and asked to remove the programming language name in the course title	40%
4.	21CSL36A	Data Structures and Applications Lab				
5.	21CSE37A	Digital Electronics	Analog	DE Lab – new	Removal of redundant	20%

6.	21CSL37A	Digital Electronics Lab	electronics portions are removed	programs are added	topics w.r.to basic electronics courses	
7.	21CSE38A	Mini Project-I	Nil	Project – Hands on exposure	Best Practices appreciated	No change

❖ **Fourth Semester Computer Science And Engineering Subjects :-**

SL NO	SUBJECT CODE	SUBJECT	% Additions / Deletion in Modules	Proposed Experiential Learning in the Modules	Industrial inputs in the Modules	Percentage change in the syllabus for (AY 2021-2022 to AY 2022-23)
1.	21CSE422A*	Web Design Technologies	100% modules are fully hands-on	Transformed to practical course	Contents were appreciated	100%
2.	21CSE45A	Computer Architecture and ARM	50% of CO and 50% of ARM modules are combined	ARM processor experiments are improvised	Contents were appreciated	100%
3.	21CSL45A	ARM Processor Lab				
4.	21CSE46A	Object Oriented Programming	20% - Java framework is included	Core Java program lists are improvised	Java – Basic & Advanced levels were appreciated	20%
5.	21CSL46A	Object Oriented Programming Lab				
6.	21CSE47A	Operating System	20% - topics removed from existing	New Lab course is introduced	Contents were appreciated	20%
7.	21CSL47A	Operating System Lab				100%
8.	21CSE48A	Summer Internship - I	100% - All rubrics are newly defined	Industry exposure – A kind of sandwich course	Appreciated the component	100%

AGENDA -9**Proposed course details of 1st & 2nd M.Tech (CSE) scheme & syllabus for the academic year 2022-23 and new 3rd & 4th M.Tech (CSE) schemes****I - Semester (2022 Scheme - 88 Credits)**

Sl. No	Course Code	Course Name	Credits distribution				Total Credits	Marks		Remark (LAB/ Hands on Programs)
			L	T	P	S		CIE	SEE	
1.	22SCS11A	ADVANCED COMPUTER ARCHITECTURE	3	0	0	0	3	50	50	100
2.	22SCS12A	CONCURRENT PROGRAMMING TECHNIQUES	3	0	0	0	3	50	50	100
3.	22SCS13A	MACHINE LEARNING	3	0	0	0	3	50	50	100
4.	22SCS14A	UX/UI DESIGN PRINCIPLES	3	0	0	0	3	50	50	100
5.	22SCS15A	RESEARCH METHODOLOGY & IPR	2	0	0	0	2	50	50	100
6.	22SCS16XA	SPECIALIZATION ELECTIVE-1	4	0	0	0	4	50	50	100
7.	22SCS17A	MINI PROJECT-1	0	0	2	0	2	50	50	100
8.	22SCL18A	MACHINE LEARNING USING PYTHON LAB	0	0	2	0	2	50	50	100
Total Credits							22	400	400	800

SPECIALIZATION ELECTIVE-1		
SNO	COURSE CODE	COURSE NAME
1	22SCS161A	OBJECT ORIENTED ANALYSIS AND DESIGN PATTERNS
2	22SCS162A	MICRO SERVICES DESIGN PATTERN
3	22SCS163A	SOFT COMPUTING
4	22SCS164A	COMPUTER VISION
5	22SCS165A	ARTIFICIAL INTELLIGENCE

II - Semester (2022 Scheme - 88 Credits)

Sl. No	Course Code	Course Name	Credits distribution				Total Credits	Marks		Remark (LAB/ Hands on Programs)
			L	T	P	S		CIE	SEE	
1.	22SCS21A	ADVANCED ALGORITHMS	3	0	0	0	3	50	50	100
2.	22SCS22A	CLOUD COMPUTING & VIRTUALIZATION	3	0	0	0	3	50	50	100
3.	22SCS23A	BIG DATA ANALYTICS	4	0	0	0	4	50	50	100
4.	22SCS24A	ADVANCED COMPUTER NETWORK & SECURITY	4	0	0	0	4	50	50	100
5.	22SCS25xA	SPECIALIZATION ELECTIVE-2	4	0	0	0	4	50	50	100
6.	22SCS26A	MINI PROJECT-2	0	0	2	0	2	50	50	100
7.	22SCL27A	ADVANCED ALGORITHMS LAB	0	0	2	0	2	50	50	100
Total Credits							22	350	350	700

SPECIALIZATION ELECTIVE-2		
SNO	COURSE CODE	COURSE NAME
1	22SCS251A	SOFTWARE TESTING AUTOMATION
2	22SCS252A	SOFTWARE PROJECT MANAGEMENT
3	22SCS253A	ROBOTIC PROCESS AUTOMATION
4	22SCS254A	INFORMATION SECURITY AND ETHICAL HACKING PRACTICES
5	22SCS255A	NATURAL LANGUAGE PROCESSING

III - Semester (2022 Scheme - 88 Credits)

Sl. No	Course Code	Course Name	Credits distribution				Total Credits	Marks		Remark (LAB/ Hands on Programs)
			L	T	P	S		CIE	SEE	
1.	22SCS31xA	INTERDISCIPLINARY ELECTIVE-3	4	0	0	0	4	50	50	100
2.	22SCS32A	INTERNSHIP-1	0	0	2	0	2	50	50	100
3.	22SCS33A	SEMINAR-1	0	0	2	0	2	50	50	100
4.	22SCS34A	PROJECT PHASE-1	0	0	14	0	14	50	50	100
Total Credits							22	200	200	400

Interdisciplinary Elective – 3		
SNO	COURSE CODE	COURSE NAME
1	22SCS311A	INDUSTRIAL & OCCUPATIONAL HEALTH AND SAFETY
2	22SCS312A	DESIGN THINKING
3	22SCS313A	ENTREPRENEURSHIP & INNOVATION MANAGEMENT
4	22SCS314A	GEOGRAPHIC INFORMATION SYSTEMS
5	22SCS315A	BIOINFORMATICS

IV - Semester (2022 Scheme – 88 Credits)

Sl. No	Course Code	Course Name	Credits distribution				Total Credits	Marks		Remark (LAB/ Hands on Programs)
			L	T	P	S		CIE	SEE	
1.	22SCS41xA	SPECIALIZATION ELECTIVE-4	4	0	0	0	4	50	50	100
2.	22SCS42A	INTERNSHIP-2	0	0	2	0	2	50	50	100
3.	22SCS43A	SEMINAR-2	0	0	2	0	2	50	50	100
4.	22SCS44A	PROJECT PHASE-2	0	0	14	0	14	50	50	100
Total Credits							22	200	200	400

SPECIALIZATION ELECTIVE-4		
SNO	COURSE CODE	COURSE NAME
1	22SCS411A	IOT APPLICATIONS
2	22SCS412A	AUGMENTED REALITY & VIRTUAL REALITY
3	22SCS413A	SOCIAL MEDIA ANALYTICS & DIGITAL MARKETING
4	22SCS414A	DEEP LEARNING
5	22SCS415A	BUSINESS INTELLIGENCE & VISUALIZATION

AGENDA -10

Presentation of draft of scheme & syllabus for the aforementioned semester courses ratification.

- ✓ The Chairperson presented the draft of scheme and Contents of syllabus in each subject for FIRST and SECOND semester M.Tech (CSE) for scrutiny. The details were scrutinized by the members of the Board.

❖ FIRST semester M.Tech (Computer Science and Engineering) :-

SL NO	SUBJECT CODE	SUBJECT
1	22SCS11A	ADVANCED COMPUTER ARCHITECTURE
2	22SCS12A	CONCURRENT PROGRAMMING TECHNIQUES
3	22SCS13A	MACHINE LEARNING
4	22SCS14A	UX/UI DESIGN PRINCIPLES
5	22SCS15A	RESEARCH METHODOLOGY & IPR
6	22SCS16XA	SPECIALIZATION ELECTIVE-1
7	22SCS17A	MINI PROJECT-1
8	22SCL18A	MACHINE LEARNING USING PYTHON LAB

❖ SECOND semester M.Tech (Computer Science and Engineering) :-

SL NO	SUBJECT CODE	SUBJECT
1	22SCS21A	ADVANCED ALGORITHMS
2	22SCS22A	CLOUD COMPUTING & VIRTUALIZATION
3	22SCS23A	BIG DATA ANALYTICS
4	22SCS24A	ADVANCED COMPUTER NETWORK & SECURITY
5	22SCS25xA	SPECIALIZATION ELECTIVE-2
6	22SCS26A	MINI PROJECT-2
7	22SCL27A	ADVANCED ALGORITHMS LAB

AGENDA -11

Recommendations/ suggestions of BOS members

- ✓ Board members appreciated the incorporation of advanced courses as electives in the PG curriculum

About Core (Theory & Lab)

- ✓ Not to mention the programming languages in the course title, let it be generic
- ✓ Detailed optimization, courses can be offered

About Specialization Elective(s)

- ✓ The elective grouping was appreciated
- ✓ Parallel Programming techniques course need to be renamed

About Mathematics Course – requirements

- ✓ Mathematics courses needs to be added in M.Tech (CSE) programme

About Academic Discipline Violation

- ✓ For plagiarized contents submission, as a violation of academic discipline, strong rules need to be defined

About Best Practices Adoption

- ✓ Industry-oriented teaching should be practiced

About Stakeholder Feedbacks

- ✓ Stakeholder feedback was discussed and incorporated into the curriculum

AGENDA -12

Implementation of recommendation of BOS members

The chairperson constituted the following groups to review and implement the recommendations of the BOS members in the scheme and syllabus of the curriculum based on industry needs

Sl No	Course Code	Course Name	Faculty	Action to be Taken
1.	22SCS11A	ADVANCED COMPUTER ARCHITECTURE	Ms. Shanmuga Priya	Contents are appreciated
2.	22SCS12A	CONCURRENT PROGRAMMING TECHNIQUES	Ms. Subhashree Rath	
3.	22SCS13A	MACHINE LEARNING	Ms. Soja Rani	More hands-on program needs to be added
4.	22SCS14A	UX/UI DESIGN PRINCIPLES	Ms. Jeevitha	*New course contents
5.	22SCS15A	RESEARCH METHODOLOGY & IPR	Ms. Subhashini	Latest Reference books needs to be added
6.	22SCS17A	MINI PROJECT-1	Ms. Soja Rani	Good Practices appreciated
7.	22SCL18A	MACHINE LEARNING USING PYTHON LAB	Ms. Subhashini	More hands-on program needs to be added
8.	22SCS161A	OBJECT ORIENTED ANALYSIS AND DESIGN	Ms. Chempavathy	More use cases need to be adopted
9.	22SCS162A	MICRO SERVICES DESIGN PATTERN	Dr. B.Meenakshi Sundaram	*New course contents
10.	22SCS163A	SOFT COMPUTING	Dr. Senthil Kumar R	*New course contents
11.	22SCS164A	COMPUTER VISION	Ms. Srividhya	*New course contents
12.	22SCS165A	ARTIFICIAL INTELLIGENCE	Ms. Manjula A K	Updated contents are appreciated

13.	22SCS21A	ADVANCED ALGORITHMS	Dr. Rachana	Need to fine-tune the contents
14.	22SCS22A	CLOUD COMPUTING & VIRTUALIZATION	Ms. Salangai Nayagi	* New course contents
15.	22SCS23A	BIG DATA ANALYTICS	Ms. Suganya	Fine tune with more update
16.	22SCS24A	ADVANCED COMPUTER NETWORK & SECURITY	Ms. Uma	Course contents are very vast
17.	22SCS26A	MINI PROJECT-2	Ms. Soja Rani	Nil
18.	22SCL27A	ADVANCED ALGORITHMS LAB	Dr. Rachana	Need to fine-tune the contents
19.	22SCS251A	SOFTWARE TESTING AUTOMATION	Ms. Chempavathy	Need to fine-tune the contents
20.	22SCS252A	SOFTWARE PROJECT MANAGEMENT	Dr. B.Meenakshi Sundaram	* New course contents
21.	22SCS253A	ROBOTIC PROCESS AUTOMATION	Dr.B.Meenakshi Sundaram	* New course contents
22.	22SCS254A	INFORMATION SECURITY AND ETHICAL HACKING PRACTICES	Ms. Shruthi K C	* New course contents
23.	22SCS255A	NATURAL LANGUAGE PROCESSING	Mr. Manikanda Kumar	* New course contents

AGENDA -13

Approval of scheme & syllabus

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 Science And Engineering Subjects :-**

SL NO	SUBJECT CODE	SUBJECT	% Addition/ Deletion in Modules	Proposed Experiential Learning in the Modules	Industrial inputs in the Modules	Percentage change in the syllabus from (AY 2021-2022 to AY 2022-23)
1.	22SCS11A	ADVANCED COMPUTER ARCHITECTURE	100% New modules are defined	Hands-on experiments are included in all modules	Contents are appreciated	100%
2.	22SCS12A	CONCURRENT PROGRAMMING TECHNIQUES	100% New modules are defined	Hands-on experiments are included in all modules	Contents are appreciated	100%
3.	22SCS13A	MACHINE LEARNING	In all modules hands-on programs are included	Labs are included	Standard datasets can be used	50%
4.	22SCS14A	UX/UI DESIGN PRINCIPLES	100% New modules are defined	Hands-on experiments are included in all modules	Contents are appreciated	100%
5.	22SCS15A	RESEARCH METHODOLOGY & IPR	100% New modules are defined	Innovative Evaluation Practices are included	Journal – article writing can be added	100%
6.	22SCS17A	MINI PROJECT-1	Project – Hands on exposure	Best Practices appreciated	No change	Project – Hands on exposure
7.	22SCL18A	MACHINE LEARNING USING PYTHON LAB	New Lab added	Labs are included	Standard datasets can be used	100%
8.	22SCS161A	OBJECT	40% - Design	Hands-on experiments are	Contents are appreciated	40%

		ORIENTED ANALYSIS AND DESIGN PATTERNS	patterns contents are added	included in all modules		
9.	22SCS162A	MICRO SERVICES DESIGN PATTERN	100% New modules are defined	Hands-on experiments are included in all modules	Contents are appreciated	100%
10.	22SCS163A	SOFT COMPUTING	100% New modules are defined	Hands-on experiments are included in all modules	Contents are appreciated	100%
11.	22SCS164A	COMPUTER VISION	100% New modules are defined	Hands-on experiments are included in all modules	Contents are appreciated	100%
12.	22SCS165A	ARTIFICIAL INTELLIGENCE	40% - contents are modified	Hands-on experiments are included in all modules	Contents are appreciated	40%

❖ **Fourth Semester Computer Science And Engineering Subjects :-**

SL NO	SUBJECT CODE	SUBJECT	% Additions / Deletion in Modules	Proposed Experiential Learning in the Modules	Industrial inputs in the Modules	Percentage change in the syllabus for (AY 2021-2022 to AY 2022-23)
1.	22SCS21A	ADVANCED ALGORITHMS	Nil	Hands-on experiments are included in all modules	Standard datasets can be used	-
2.	22SCS22A	CLOUD COMPUTING & VIRTUALIZATION	100% New modules are defined	Hands-on experiments are included in all modules	Contents are appreciated	100%
3.	22SCS23A	BIG DATA ANALYTICS	20% - contents are modified	Hands-on experiments are included in all modules	Contents are appreciated	20%
4.	22SCS24A	ADVANCED COMPUTER NETWORK & SECURITY	100% New modules are defined	Hands-on experiments are included in all modules	Contents are appreciated	100%
5.	22SCS26A	MINI PROJECT-2	Project – Hands on exposure	Best Practices appreciated	No change	Project – Hands on exposure
6.	22SCL27A	ADVANCED ALGORITHMS	Nil	Hands-on	Standard datasets can	-

		LAB		experiments are included in all modules	be used	
7.	22SCS251A	SOFTWARE TESTING AUTOMATION	20% - contents are modified	Hands-on experiments are included in all modules	Contents are appreciated	20%
8.	22SCS252A	SOFTWARE PROJECT MANAGEMENT	100% New modules are defined	Hands-on experiments are included in all modules	Contents are appreciated	100%
9.	22SCS253A	ROBOTIC PROCESS AUTOMATION	100% New modules are defined	Hands-on experiments are included in all modules	Contents are appreciated	100%
10.	22SCS254A	INFORMATION SECURITY AND ETHICAL HACKING PRACTICES	100% New modules are defined	Hands-on experiments are included in all modules	Contents are appreciated	100%
11.	22SCS255A	NATURAL LANGUAGE PROCESSING	100% New modules are defined	Hands-on experiments are included in all modules	Contents are appreciated	100%

AGENDA -14

Vote Of Thanks by the Chairman of BOS

The chairman of BOS thanked the external members for their fruitful participation on behalf of the Principal and the Management. She also thanked Dr. S R Sudarshan, Dr. Jagdeesh S Kallimani, Dr. Thippeswamy, Mr. Sasikumar Kondalraj and all the other members of the BOS for their active participation.

Dr.B Rajalakshmi

Chairman

Board of Studies

Department of Computer Science and Engineering

B. Rajalakshmi

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22 Jun 2022



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 & Engineering

Board of Studies Academic Year: 2022-23

Date of BOS conducted: 25-05-2022

Annexure-I

Percentage of Syllabus Change Recommended & Approved

UG Program: BE (CSE)

Year	Semester	Current Subject Code (Before BOS)	Proposed Subject Code (After BOS)	Percentage change of syllabus from (AY 2020-2021 to AY 2021-22)	Remarks if any
II	III	19CSE35	21CSE35A	Network commands and programs, Kernel commands are added (20%)	Linux System Programming
		19CSL38	21CSL35A		Linux System Programming Lab
		19CSE34	21CSE36A	Programming for logic building along with data structure implementation is added (40%)	Data Structures and Applications
		19CSL37	21CSL36A		Data Structures and Applications Lab
		19CSE33	21CSE37A	Removal of redundant topics w.r.to basic electronics courses and DE Lab - new programs are added. (20%)	Digital Electronics
		19CSL36	21CSL37A		Digital Electronics Lab
		19CSE39	21CSE38A	Project - Hands on exposure	Mini Project-I
II	IV	20CSE61/ 20CSL66	21CSE422A*	Transformed to practical course with hands-on (100%)	Web Design Technologies
		19CSE44	21CSE45A	50% of CO and 50% of ARM modules are combined. ARM processor experiments are improvised. (100%)	Computer Architecture and ARM
		19CSL47	21CSL45A		ARM Processor Lab
		19CSE43	21CSE46A	Java framework is included: Core Java program lists are improvised. (20%)	Object Oriented Programming
		19CSL46	21CSL46A		Object Oriented Programming Lab
		20CSE52	21CSE47A	Topics are removed which are overlapping with CO course. New Lab course is introduced	Operating System
		----	21CSL47A		Operating System Lab
		----	21CSE48A	Industry exposure - A kind of sandwich course	Summer Internship - I

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22 Jun. 2022

Percentage of Syllabus Change Recommended & Approved

PG Program: M.Tech (CSE)

Year	Semester	Current Subject Code (Before BOS)	Proposed Subject Code (After BOS)	Percentage change of syllabus from (AY 2020-2021 to AY 2021-22)	Remarks if any
1	1	---	22SCS11A	New core course Introduced (100%)	ADVANCED COMPUTER ARCHITECTURE
		---	22SCS12A	New core course Introduced (100%)	CONCURRENT PROGRAMMING TECHNIQUES
		19SCS25	22SCS13A	In all modules hands-on programs are added (50%)	MACHINE LEARNING
		---	22SCS14A	New core course Introduced (100%)	UX/UI DESIGN PRINCIPLES
		19SCS16	22SCS15A	All modules are redefined, innovative evaluation practices are introduced and Journal article writing made mandatory. (100%)	RESEARCH METHODOLOGY & IPR
		19SCS17	22SCS17A	Project - Hands on exposure	MINI PROJECT-1
		---	22SCL18A	New lab course introduced (100%)	MACHINE LEARNING USING PYTHON LAB
		---	22SCS161A	New Specialization course Introduced (100%)	OBJECT ORIENTED ANALYSIS AND DESIGN
		---	22SCS162A	New Specialization course Introduced (100%)	MICRO SERVICES DESIGN PATTERN
		---	22SCS163A	New Specialization course Introduced (100%)	SOFT COMPUTING
		---	22SCS164A	New Specialization course Introduced (100%)	COMPUTER VISION
		19SCS12	22SCS165A	Hands-on experiments are included in all modules (40%)	ARTIFICIAL INTELLIGENCE

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I	II	19SCS21	22SCS21A	Hands-on experiments are included in all modules	ADVANCED ALGORITHMS
		19SCS22	22SCS22A	100% New modules are defined	CLOUD COMPUTING & VIRTUALIZATION
		19SCS23	22SCS23A	20% - contents are modified	BIG DATA ANALYTICS
		19SCS13	22SCS24A	100% New modules are defined	ADVANCED COMPUTER NETWORK & SECURITY
		-----	22SCS26A	Project - Hands on exposure	MINI PROJECT-2
		19SCL27	22SCL27A	Hands-on experiments are included in all modules	ADVANCED ALGORITHMS LAB
		19SCS241	22SCS251A	20% - contents are modified	SOFTWARE TESTING AUTOMATION
		----	22SCS252A	100% New modules are defined	SOFTWARE PROJECT MANAGEMENT
		----	22SCS253A	100% New modules are defined	ROBOTIC PROCESS AUTOMATION
		----	22SCS254A	100% New modules are defined	INFORMATION SECURITY AND ETHICAL HACKING PRACTICES
		----	22SCS255A	100% New modules are defined	NATURAL LANGUAGE PROCESSING

BOS-Chairman

Dated: 22 Jun 2022

Dean-Academics

Dr R J Anandhi
 Professor and Dean-Academics
 New Horizon College of Engineering
 Ring Road Bellandur Post,
 Bengaluru - 560 103

Principal

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Accredited by NAAC with 'A' Grade, Accredited by NBA

Department of Computer Science & Engineering

Board of Studies Academic Year: 2022-23

Date of BOS conducted: 25.05.2022

Annexure-II

BOS: Minutes of Meeting Report

Topic: Subject/name and code whose syllabus has not been changed in BOS meeting (unchanged subject).

UG Program: BE (CSE)

Year	Semester	Current Subject Code (Before BOS)	Current Subject Name (Before BOS)	Justification for not Changing
II	III	---	-----	-----
II	IV	---	-----	-----

Note: Due to reduced credits scheme and new NEP adoption, almost all courses have undergone for the revision with their contents with relevant hands-on experiments. Thereby none of the previous courses are kept as it is.

PG Program: M.Tech (CSE)

Year	Semester	Current Subject Code (Before BOS)	Current Subject Name (Before BOS)	Justification for not Changing
I	I	22SCS13A	MACHINE LEARNING	All essential contents are incorporated already
		22SCS17A	MINI PROJECT-1	Project - Hands on exposure
	II	22SCS21A	ADVANCED ALGORITHMS	All essential contents are incorporated already.

BOS-Chairman

Dean-Academics

Principal

Dated: 22 Jun 2022

Dr R J Anandhi
Professor and Dean-Academics
New Horizon College of Engineering
Ring Road Bellandur Post,
Bengaluru 560 103



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Department of Computer Science & Engineering

Board of Studies Academic Year: 2022-23

Date of BOS conducted: 25.05.2022

Annexure-III

Topic: UG - Proposed subject name and new subject code (After BOS) whose subject topics changed

Year	Semester	Proposed Subject Name	Proposed Subject Code	Module No	List of Subject Topics Changed	%of change of syllabus
II	III	Linux System Programming	21CSE35A	Module-1	Network commands and programs, Kernel commands are added	20%
				Module-2		
		Linux System Programming Lab	21CSL35A	Module-3		
				Module-4		
				Module-5		
		Data Structures and Applications	21CSE36A	Module-1	Programming for logic building along with data structure implementation is added	40%
				Module-2		
		Data Structures and Applications Lab	21CSL36A	Module-3		
				Module-4		
				Module-5		
		Digital Electronics	21CSE37A	Module-1	Removal of redundant topics w.r.to basic electronics courses and DE Lab - new programs are added.	20%
				Module-2		
Digital Electronics Lab	21CSL37A	Module-3				
		Module-4				
		Module-5				
Mini Project-I	21CSE38A		Project - Hands on exposure	---		

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22 Jun 2022

Year	Semester	Proposed Subject Name	Proposed Subject Code	Module No	List of Subject Topics Changed	%of change of syllabus		
II	IV	Web Design Technologies	21CSE422A*	Module-1	Transformed to practical course with hands-on	100%		
				Module-2				
				Module-3				
				Module-4				
				Module-5				
		Computer Architecture and ARM	21CSE45A	ARM Processor Lab	21CSL45A	Module-1	50% of CO and 50% of ARM modules are combined. ARM processor experiments are improvised.	100%
						Module-2		
		Module-3						
		Module-4						
		Module-5						
		Object Oriented Programming	21CSE46A	Object Oriented Programming Lab	21CSL46A	Module-1	Java framework is included. Core Java program lists are improvised.	20%
						Module-2		
		Module-3						
		Module-4						
		Module-5						
		Operating System	21CSE47A	Operating System Lab	21CSL47A	Module-1	Topics are removed which are overlapping with CO course. New Lab course is introduced	Lab 100% new
						Module-2		
		Module-3						
		Module-4						
		Module-5						
		Summer Internship - I	21CSE48A		Industry exposure - A kind of sandwich course	100%		

As per SSF

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Topic: PG - Proposed subject name and new subject code (After BOS) whose subject topics changed

Year	Semester	Proposed Subject Name	Proposed Subject Code	Module No	List of Subject Topics Changed	%of change of syllabus
II	III	ADVANCED COMPUTER ARCHITECTURE	22SCS11A	Module-1	New core course Introduced	100%
				Module-2		
				Module-3		
				Module-4		
				Module-5		
		CONCURRENT PROGRAMMING TECHNIQUES	22SCS12A	Module-1	New core course Introduced	100%
				Module-2		
				Module-3		
				Module-4		
				Module-5		
		MACHINE LEARNING	22SCS13A	Module-1	In all modules hands-on programs are added	50%
				Module-2		
				Module-3		
				Module-4		
				Module-5		
		UX/UI DESIGN PRINCIPLES	22SCS14A	Module-1	New core course Introduced	100%
				Module-2		
				Module-3		
				Module-4		
				Module-5		
RESEARCH METHODOLOGY & IPR	22SCS15A	Module-1	All modules are redefined, innovative evaluation practices are introduced and Journal article	100%		
		Module-2				
		Module-3				
		Module-4				

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22 Jun 2022

				Module-5	writing made mandatory.	
		MINI PROJECT-1	22SCS17A	Module-1	Project - Hands on exposure	100%
				Module-2		
				Module-3		
				Module-4		
				Module-5		
		MACHINE LEARNING USING PYTHON LAB	22SCL18A	Module-1	New lab course introduced	100%
				Module-2		
				Module-3		
				Module-4		
				Module-5		
		OBJECT ORIENTED ANALYSIS AND DESIGN	22SCS161A	Module-1	New Specialization course Introduced	100%
				Module-2		
				Module-3		
				Module-4		
				Module-5		
		MICRO SERVICES DESIGN PATTERN	22SCS162A	Module-1	New Specialization course Introduced	100%
				Module-2		
				Module-3		
				Module-4		
				Module-5		
		SOFT COMPUTING	22SCS163A	Module-1	New Specialization course Introduced	100%
				Module-2		
				Module-3		
				Module-4		
				Module-5		
		COMPUTER VISION	22SCS164A	Module-1	New Specialization course Introduced	100%
				Module-2		
				Module-3		

Refer to F.

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22 Jun 2022

				Module-4		
				Module-5		
		ARTIFICIAL INTELLIGENCE	22SCS165A	Module-1	Hands-on experiments are included in all modules	40%
				Module-2		
				Module-3		
				Module-4		
				Module-5		

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22 Jun 2022
 BOS-Chairman

Anandhi
 Dean-Academics

Mayappa
 Principal

Dated: *22 Jun 2022*

Dr R J Anandhi
 Professor and Dean-Academic
 New Horizon College of Engineer
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 Bengaluru 560 103



NEW HORIZON COLLEGE OF ENGINEERING

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

8th BOARD OF STUDIES MEETING

(2nd Round - Exclusively for First Year Core Computing Courses)

Minutes of Meeting ACADEMIC YEAR 2022-23

DATE : 29th Nov 2022
VENUE : Online via ZOOM
TIME : 11.30 AM-12:30 PM

B. Venkatesh Reddy
29/11/22

V. L.
29.11.2022

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B. J. Ganesh
29/11/22

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29.11.2022

AGENDA FOR THE MEETING

1. Welcome address by the chairman of BOS
2. Proposed course scheme details for all engineering branches
3. Presentation of syllabus for the proposed course (Theory & Lab) ratification
4. Recommendations/ suggestions of BOS members.
5. Approval of scheme & syllabus of agenda 2 & 3
6. Vote of thanks by the chairman of BOS

B. J. Jeyaraj
29/11/22

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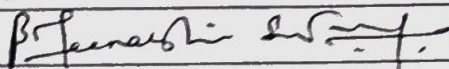
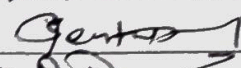




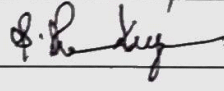
LIST OF MEMBERS


Sl. No	Category	Nomination of the committee	Name of the person	Email ID & Mobile No
1	Head of the Department	Chairperson	Dr. B Rajalakshmi	hod_cse@newhorizonindia.edu 9841711347
2	Special Invitees (one academician from Institution of National Eminence, IIT, NIT, IIM, IISC)	Member		
		---	-----	-----
3	Faculty member at different level with different specialization	Member		
		1	Dr.B.Meenakshi Sundaram	bmsundaram@gmail.com 9943460520
		2	Dr. R. Senthilkumar	senkr.raj@gmail.com 9789591714
		3	Dr. Rachana P	2000.rachana@gmail.com 8075817202
4	Subject expert from outside the college nominated by Academic Council	Member		
		-----	-----	-----
5	Experts from outside the college nominated by VTU	Member		
		1	Dr. Thippeswamy Professor, Dept. of CSE BMSITM - Bengaluru	gt_swamy@bmsit.in 9448864856
6	Representative from Industry / Corporate sector / allied area related to placements, nominated by Academic Council	Member		
		-----	-----	-----
7	Post Graduate meritorious alumni nominated by Principal	Member		
		-----	-----	-----
8	Co-opted members	Member		
		1	Ms. Asha Rani Borah	nhce.asha.borah@gmail.com 9986010118
		2	Ms. Soja Rani S	sojars@newhorizonindia.edu 9482598037
		3	Ms. Shanmuga Priya	priya.soundararajan@gmail.com 8095100018
		4	Mr. N. Binod Kumar	palcementofficer@newhorizonindia.edu 9663928931

B. P. ...
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29.11.2022

LIST OF MEMBERS PRESENT

Sl. No	Category	Nomination of the committee	Name of the person	Signature
1	Head of the Department	Chairperson	Dr. B Rajalakshmi	 29.11.2022
2	Special Invitees (one academician from Institution of National Eminence, IIT, NIT, IIM, IISC)	Member	-----	-----
3	Faculty member at different level with different specialization	Member	-----	-----
		1	Dr. B. Meenakshi Sundaram	
		2	Dr. R. Senthilkumar	
		3	Dr. Rachana P	
4	Subject expert from outside the college nominated by Academic Council	Member	-----	-----
5	Experts from outside the college nominated by VTU	Member	1 Dr. Thippeswamy Professor, Dept. of CSE BMSITM - Bengaluru	
6	Representative from Industry / Corporate sector / allied area related to placements, nominated by Academic Council	Member	-----	-----
7	Post Graduate meritorious alumni nominated by Principal	Member	-----	-----
8	Co-opted members	Member	-----	-----
		1	Ms. Asha Rani Borah	
		2	Ms. Soja Rani S	
		3	Ms. Shanmuga Priya	
		4	Mr. N. Binod Kumar	-----


29/11/22


29.11.2022

AGENDA -1

Welcome Address by the Chairman of BOS

The 8th Board of Studies meeting (2nd Round) for Department of Computer Science and Engineering, exclusively for 1st Year new core course inclusion was scheduled on 29th Nov 2022, 11:30 AM - 12:30 PM. Due to the prevailing Covid-19 conditions, the BOS meeting was conducted online using ZOOM.

At the outset, Chairperson **Dr. B. Rajalakshmi**– Professor & Head – Department of Computer Science and Engineering, welcomed all the members to the 8th Board of Studies meeting (2nd Round)

The Chairperson introduced **Dr. R. J. Anandhi**, Prof & Dean–Academics, New Horizon College of Engineering to the members of Board of Studies and welcomed her for the ensuing proceedings.

The Chairperson further expressed special thanks to **Dr. Thippeswamy**, an expert, nominated by VTU, Belagavi.

The meeting was also attended by the Co-opted members **Ms. Asha Rani Borah**, **Ms. Soja Rani S**, **Ms. Shanmuga Priya**, **Mr. N. Binod Kumar** and internal faculty members **Dr. B. Meenakshi Sundaram**, **Dr. Senthilkumar**, **Dr. Rachana** with different specialization.

B. Rajalakshmi
29/11/22

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29.11.2022

AGENDA -2:

Proposed course scheme details for all engineering branches

Sl. No	Course Code	Course Name	Credits distribution				Total Credits	Marks		Remark (LAB/ Hands on Programs)
			L	T	P	S		CIE	SEE	
1.	22CSE13/ 23	Data Structures using C	2	0	0	0	2	50	50	100
2.	22CSL13/ 23	Data Structures Using C Lab	0	0	1	0	1	50	50	100

AGENDA -3

Presentation of syllabus for the proposed course (Theory & Lab) ratification

- ✓ The Chairperson presented the draft of scheme and contents of theory and lab syllabus for scrutiny. The course contents were scrutinized by the members of the Board.
 - Course Outcomes
 - CO - PO Mapping
 - The course contents were nicely blend with programming essentials with linear data structures
 - Lab programs were articulated
 - Text books and reference books
 - CIE and SEE evaluation pattern

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29. nov. 2022

AGENDA -4

Recommendations/ Suggestions of BOS Members

- ✓ Board members appreciated the incorporation of programming basics with essential data structures
- ✓ Lab programs are very well aligned with module contents
- ✓ Course outcomes are appropriate

AGENDA -5

Approval of scheme & syllabus of agenda 2 & 3

The Board of Studies members reviewed the updated draft of the scheme & syllabus with expert's recommendations.

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

AGENDA -6

Vote Of Thanks by the Chairman of BOS

The chairman of BOS thanked the external members for their fruitful participation on behalf of the Principal and the Management. She also thanked Dr. Thippeswamy, VTU Nominee and all the other members of the BOS for their active participation.

Dr.B Rajalakshmi

Chairman

Board of Studies

Department of Computer Science and Engineering

B. Rajalakshmi
29/11/22



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29.11.2022

