



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

7th BOARD OF STUDIES MEETING

Minutes of Meeting ACADEMIC YEAR 2021-22

DATE : 08-05-2021
VENUE : Online via ZOOM
TIME : 10.30 AM

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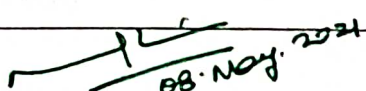
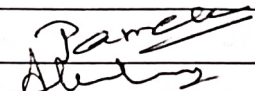
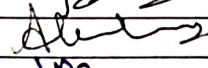
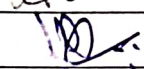
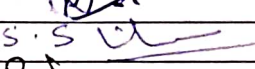

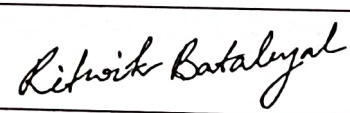
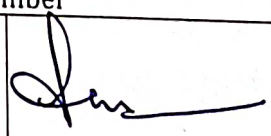

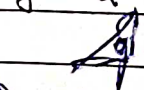
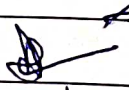
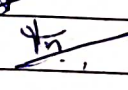
AGENDA FOR THE MEETING

- 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 UG for the academic year 2021-22**
- 5. Presentation of draft of scheme & syllabus of final year Computer Science and Engineering subjects of 2018-2022 batch for ratification.**
- 6. Recommendations/ suggestions of BOS members.**
- 7. Implementation of recommendation of BOS members**
- 8. Approval of scheme & syllabus of final year Computer Science and Engineering subjects for 2018-2022 batch**
- 9. Approval of modifications in syllabus of two courses of sixth semester Computer Science and Engineering of 2019-2023 batch**
- 10. Proposed course details of PG for the academic year 2021-22**
- 11. Presentation of draft of scheme & syllabus of interdisciplinary elective courses for third semester MTech Computer Science and Engineering of 2020-2022 batch for ratification**
- 12. Approval of scheme & syllabus for third semester MTech Computer Science and Engineering subjects of 2020-2022 batch**
- 13. Recommendation and approval of syllabus of the course Blockchain Technology to be introduced as specialisation elective for MTech 4th semester of 2020-22 batch**
- 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	Faculty member at different level with different specialization	Member		
		1	Dr. Amarjeet Singh	amarjeetsingh.iaf@gmail.com 9315432675
		2	Dr. Pamela Vinitha	dr.pamelave@newhorizonindia.edu 9663371149
		3	Dr. Clara Kanmani A	claraka@newhorizonindia.edu 9986058272
		4	Dr. Thirukkumaran R	dr.thirukkumaranr@newhorizonindia.edu 9789697169
		5	Dr. Sridevi S	dr.sridevis@newhorizonindia.edu 7502348695
		6	Dr. Jaya R	jayar@newhorizonindia.edu 9632011983
3	Subject expert from outside the college nominated by Academic Council	Member		
		1	Dr. T. K. Sateesh Chairman, DSUniversity - Bengaluru	chairman-ct@dsu.edu.in 9845129890
		2	Dr. Mallikarjuna M Deputy Director, SCIT, REVA University- Bengaluru	Mmkodabagi@gmail.com Ph: 7022244613
4	Experts from outside the college nominated by Vice Chancellor	Member		
		1	Dr. Thippeswamy Professor, Dept. of CSE BMSITM - Bengaluru	gt_swamy@bmsit.in 9448864856
5	Representative from Industry / Corporate sector / allied area related to placements, nominated by Academic Council	Member		
		1	Mr. Ritwik Batabyal Global Delivery Head, L&T Technology Service	ritwik.batabyal@gmail.com 7019985731
		2	Mr. Venkatesh Software Development Manager, Amazon India Ltd	venkateshchannal@gmail.com 9448182790
6	Post Graduate meritorious alumni nominated by Principal	Member		
		1	Ms. Archana Udayashankar Business Systems Analyst VMware - Bengaluru	udayashankararchana@gmail.com 8197999685
7	Co-opted members	Member		
		1	Mr. Siva Balan N	sivabn@newhorizonindia.edu 9886368137
		2	Ms. Soja Rani S	sojars@newhorizonindia.edu 9482598037
		3	Ms. Deepti Rai	deeptiraj@newhorizonindia.edu 9880649211
		4	Ms. Uma N	numa@newhorizonindia.edu 9986905934
		5	Mr. Binod Singh	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	 08. Nov. 2021
2	Faculty member at different level with different specialization	Member		
		1	Dr. Amarjeet Singh	
		2	Dr. Pamela Vinitha	
		3	Dr. Clara Kanmani A	
		4	Dr. Thirukkumaran R	
		5	Dr. Sridevi S	
3	Subject expert from outside the college nominated by Academic Council	Member		
		1	Dr. T. K. Sateesh Chairman, DSUniversity - Bengaluru	Unavailable due to Official Work
		2	Dr. Mallikarjuna M Deputy Director, SCIT, REVA University- Bengaluru	Emergency
4	Experts from outside the college nominated by Vice Chancellor	Member		
		1	Dr. Thippeswamy Professor, Dept. of CSE BMSITM - Bengaluru	
5	Representative from Industry / Corporate sector / allied area related to placements, nominated by Academic Council	Member		
		1	Mr. Ritwik Batabyal Global Delivery Head, L&T Technology Service	
		2	Mr. Venkatesh Software Development Manager, Amazon India Ltd	Unavailable due to Official Work
6	Post Graduate meritorious alumni nominated by Principal	Member		
		1	Ms. Archana Udayashankar Business Systems Analyst VMware - Bengaluru	
7	Co-opted members	Member		
		1	Mr. Siva Balan N	
		2	Ms. Soja Rani S	
		3	Ms. Deepti Rai	
		4	Ms. Uma N	
		5	Binod Singh	

AGENDA -1

Welcome Address by the Chairman of BOS

The 7th Board of Studies meeting for Department of Computer Science and Engineering was scheduled on 8th of May'2021 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 7th Board of Studies meeting.

The Chairperson introduced **Dr. Amarjeet Singh**, Prof & 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 **Dr. Thippeswamy**, an expert, nominated by VTU. The chairperson also expressed her gratitude to industrial nominee by Academic Council, **Mr. Ritwik Batabyal**, Global Delivery Head, L&T Technology Service, 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 **Mr. Siva Balan N**, **Ms. Soja Rani S**, **Ms. Deepti Rai**, **Ms. Uma N** and internal faculty members **Dr. Pamela Vinitha**, **Dr. Clara Kanmani A**, **Dr. Thirukkumaran R**, **Dr. Sridevi S** and **Dr. Jaya R** 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 2020-21.

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 UG for the academic year 2021-22

I/II 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	21CSE13/23	Problem Solving Using Python	3	0	0	0	3	50	50	Theory
2	21CSL18/28	Problem Solving Using Python Lab	0	0	2	0	2	50	50	Lab
Total Credits							5			

III Semester (2018 Scheme - 175 Credits)

Sl. No	Course Code	Course	BOS	Credit Distribution				Overall Credits	Marks			Remarks (LAB/ Hands on Programs).
				L	T	P	S		CIE	SEE	Total	
1	20CSE31A	Applied Mathematics-III	BS	2	1	0	0	3	50	50	100	Theory
2	19HSS322	Life skills for Engineers	HSS	3	0	0	0	3	50	50	100	Theory
3	19HSS323	Environmental Science and Awareness	HSS	Mandatory Course				0	25	25	50	Theory
4	19CSE33	Digital Electronics	CSE	3	0	0	0	3	50	50	100	Theory
5	19CSE34	Data Structures using C	CSE	3	0	0	0	3	50	50	100	Theory
6	19CSE35	UNIX System Programming	CSE	3	0	0	0	3	50	50	100	Theory
7	19CSL36	Digital Electronics Lab	CSE	0	0	2	0	2	25	25	50	Lab
8	19CSL37	Data Structures using C Lab	CSE	0	0	2	0	2	25	25	50	Lab
9	19CSL38	UNIX System Programming Lab	CSE	0	0	2	0	2	25	25	50	Lab
10	19CSE39	Mini Project in C	CSE	-	-	2	0	2	25	25	50	Experiential Learning
11	18HSS171	Essential English	HSS	Mandatory Course				0	25	25	50	Theory
12	20DMAT31A	Basic Applied Mathematics-I	BS	Mandatory Course				0	25	25	50	Theory
Total								23	350	350	700	

IV Semester (2018 Scheme - 175 Credits)

S. No	Course Code	Course	BOS	Credit Distribution				Overall Credits	Marks			Remarks
				L	T	P	S		CIE	SEE	TOTAL	(LAB/ Hands on Programs)
1	20CSE41A	Discrete Mathematics and Graph Theory	BS	2	1	0	0	3	50	50	100	Theory
2	20HSS421	Economics For Engineers	HSS	2	0	0	0	2	25	25	50	Theory
3	20HSS424/ 20HSS425	Aadalitha Kannada/ Vyavaharika Kannada	HSS	1	0	0	0	1	25	25	50	Theory
4	19CSE43	Object Oriented Programming with Java	CSE	3	1	0	0	4	50	50	100	Theory
5	19CSE44	ARM Processor	CSE	3	0	0	0	3	50	50	100	Theory
6	19CSE45	Computer Organization	CSE	4	0	0	0	4	50	50	100	Theory
7	19CSL46	Object Oriented Programming with Java Lab	CSE	0	0	2	0	2	25	25	50	Lab
8	19CSL47	ARM Processor Lab	CSE	0	0	2	0	2	25	25	50	Lab
9	19CSE48	Mini Project in Java	CSE	-	-	2	0	2	25	25	50	Experiential Learning
10	18HSS272	Constitution of India and Professional Ethics	HSS	Mandatory Course				0	25	25	50	Theory
11	20DMAT41A	Basic Applied Mathematics-II	BS	Mandatory Course				0	25	25	50	Theory
Total								23	325	325	650	

V Semester (2018 Scheme - 175 Credits)

Sl. No	Course Code	Course	BOS	Credit Distribution				Overall Credits	Marks			Remarks (LAB/ Hands on Programs)
				L	T	P	S		CIE	SEE	Total	
1	20CSE51	Analysis and Design of Algorithms	CSE	3	0	0	0	3	50	50	100	Theory
2	20CSE52	Operating System	CSE	3	0	0	0	3	50	50	100	Theory
3	20CSE53	Database Management System	CSE	3	0	0	0	3	50	50	100	Theory
4	20CSE54	Finite Automata and Compiler Design	CSE	3	0	0	0	3	50	50	100	Theory
5	20CSE55x	Professional Elective-I	CSE	3	0	0	0	3	50	50	100	Theory
6	20CSL56	Python Programming Lab	CSE	0	0	2	0	2	25	25	50	Lab
7	20CSL57	Analysis and Design of Algorithms Lab	CSE	0	0	2	0	2	25	25	50	Lab
8	20CSL58	Database Management System Lab	CSE	0	0	2	0	2	25	25	50	Lab
9	20CSE59	Mini Project using Python	CSE	-	-	2	0	2	25	25	50	Experiential Learning
TOTAL								23	350	350	700	

S. NO	COURSE CODE	PROFESSIONAL ELECTIVE-I
1	20CSE551	Parallel Processing
2	20CSE552	Advanced Data Structures
3	20CSE553	Digital Image and Video Processing
4	20CSE554	Computational Intelligence

VI Semester (2018 Scheme - 175 Credits)

S. No	Course Code	Course	BOS	Credit Distribution				Overall Credits	Marks			Remarks (LAB/ Hands on Programs)
				L	T	P	S		CIE	SEE	Total	
1	20CSE61	Web Frameworks and Technologies	CSE	3	0	0	0	3	50	50	100	Theory
2	20CSE62	Computer Networks	CSE	3	0	0	0	3	50	50	100	Theory
3	20CSE63	Data Mining and Machine Learning	CSE	3	0	0	0	3	50	50	100	Theory
4	20CSE64x	Professional Elective-II	CSE	3	0	0	0	3	50	50	100	Theory
5	20CSE65x	Professional Elective-III	CSE	3	0	0	0	3	50	50	100	Theory
6	20NHOPxx	Open Elective-I	-	3	0	0	0	3	50	50	100	Hands on Program
7	20CSL66	Web Frameworks and Technologies Lab	CSE	0	0	1.5	0	1.5	25	25	50	LAB
8	20CSL67	Computer Networks Lab	CSE	0	0	1.5	0	1.5	25	25	50	LAB
9	20CSE68	Mini Project in Web Frame Works or Operating System	CSE	-	-	2	0	2	25	25	50	Experiential Learning
TOTAL								23	375	375	750	

Professional Elective - II		Professional Elective - III	
Course Code	Course	Course Code	Course
20CSE641	Social Network Analysis	20CSE651	Semantic Web
20CSE642	Soft Computing	20CSE652	Web of Things
20CSE643	Agile Methodologies	20CSE653	Quantum Cryptography
20CSE644	Cloud Computing	20CSE654	Software Agents
		20CSE655	Advanced Java

VII Semester (2018 Scheme - 175 Credits)

S. No	Course Code	Course	BOS	Credit Distribution				Overall Credits	Marks			Remarks (LAB/ Hands on Programs)
				L	T	P	S		CIE	SEE	Total	
1	20CSE71A	Software Testing	CSE	3	0	0	0	3	50	50	100	Theory
2	20CSE72A	Mobile Application Development	CSE	3	0	0	0	3	50	50	100	Theory
3	20CSE73XA	Professional Elective-IV	CSE	3	0	0	0	3	50	50	100	Theory
4	20CSE74XA	Professional Elective-V	CSE	3	0	0	0	3	50	50	100	Theory
5	20NHOPxx	Open Elective -II	-	3	0	0	0	3	50	50	100	Hands on Program
6	20CSL75A	Software Testing Lab	CSE	0	0	2	0	2	25	25	50	Lab
7	20CSL76A	Mobile Application Development Lab	CSE	0	0	2	0	2	25	25	50	Lab
8	20CSE77A	Mini Project in Mobile Application Development	CSE	-	-	2	0	2	25	25	50	Experiential Learning
9	20CSE78A	Project Phase-I	CSE	-	-	2	0	2	25	25	50	Experiential Learning
TOTAL								23	350	350	700	

PROFESSIONAL ELECTIVE-IV		PROFESSIONAL ELECTIVE-V	
COURSE CODE	COURSE NAME	COURSE CODE	COURSE NAME
20CSE731A	Fundamentals of Data Science	20CSE741A	Natural Language Processing
20CSE732A	Artificial Intelligence	20CSE742A	Deep Learning
20CSE733A	Cyber Security, Forensics and Law	20CSE743A	Robotics
20CSE734A	Internet of Things	20CSE744A	Computer Vision
20CSE735A	Embedded Systems	20CSE745A	Service Oriented Architecture

VIII Semester (2018 Scheme - 175 Credits)

S. No	Course Code	Course	BOS	Credit Distribution				Overall Credits	Marks			Remarks (LAB/ Hands on Programs)
				L	T	P	S		CIE	SEE	Total	
1	20CSE81xA	Professional Elective-VI	CSE	3	0	0	0	3	50	50	100	Theory
2	20CSE82xA	Professional Elective-VII	CSE	3	0	0	0	3	50	50	100	Theory
3	20CSE83A	Internship Viva	CSE	-	-	4	0	4	50	50	100	Experiential Learning
4	20CSE84A	Project Phase-II	CSE	-	-	10	0	10	100	100	200	Experiential Learning
TOTAL								20	250	250	500	

PROFESSIONAL ELECTIVE-VI		PROFESSIONAL ELECTIVE-VII	
COURSE CODE	COURSE NAME	COURSE CODE	COURSE NAME
20CSE811A	Pattern Recognition	20CSE821A	Ethical Hacking & Prevention
20CSE812A	Advanced Databases	20CSE822A	Green Computing
20CSE813A	Mobile Computing	20CSE823A	Data Compression
20CSE814A	Multi-core Architecture	20CSE824A	Cognitive and Learning Science

AGENDA -5

Presentation of draft of scheme & syllabus of final year Computer Science and Engineering subjects of 2018-2022 batch for ratification

✓ The Chairperson presented the draft of scheme and Contents of syllabus in each subject for seventh and eighth semester for scrutiny. The details were scrutinized by the members of the Board.

❖ Seventh semester Computer Science and Engineering Subjects :-

SL NO	SUBJECT CODE	SUBJECT
1	20CSE71A	Software Testing
2	20CSE72A	Mobile Application Development
3	20CSE73XA	Professional Elective-IV
A	20CSE731A	Fundamentals of Data Science
B	20CSE732A	Artificial Intelligence
C	20CSE733A	Cyber Security, Forensics and Law
D	20CSE734A	Internet of Things
E	20CSE735A	Embedded Systems
4	20CSE74XA	Professional Elective-V
A	20CSE741A	Natural Language Processing
B	20CSE742A	Deep Learning
C	20CSE743A	Robotics
D	20CSE744A	Computer Vision
E	20CSE745A	Service Oriented Architecture
5	20NHOPxx	Open Elective -II
A	20NHOP01	Big Data Analytics using HP Vertica-I
B	20NHOP02	VM Ware Virtualization Essentials-I
C	20NHOP04	Big Data Analytics using HP Vertica-II
D	20NHOP05	VM Ware Virtualization Essentials-II
E	20NHOP07	SAP

F	20NHOP08	Schneider-Industrial Automation
G	20NHOP09	Cisco-Routing and Switching-I
H	20NHOP10	Data Analytics
I	20NHOP11	Machine learning
J	20NHOP12	CISCO-Routing and switching -II
K	20NHOP13	IIOT Embedded Systems
L	20NHOP14	Block chain
M	20NHOP15	Product Life Cycle Management
N	20NHOP17A	Network Security & Cryptography
O	20NHOP18A	Physical Design
p	20NHOP19A	AI Data Analysis with Python
6	20CSL75A	Software Testing Lab
7	20CSL76A	Mobile Application Development Lab
8	20CSE77A	Mini Project in Mobile Application Development
9	20CSE78A	Project Phase-I

❖ **Eighth Semester Computer Science and Engineering Subjects :-**

SL NO	SUBJECT CODE	SUBJECT
1	20CSE81xA	Professional Elective-VI
A	20CSE811A	Pattern Recognition
B	20CSE812A	Advanced Databases
C	20CSE813A	Mobile Computing
D	20CSE814A	Multi-core Architecture
2	20CSE82xA	Professional Elective-VII
A	20CSE821A	Ethical Hacking & Prevention
B	20CSE822A	Green Computing
C	20CSE823A	Data Compression
D	20CSE824A	Cognitive and Learning Science
3	20CSE83A	Internship Viva
4	20CSE84A	Project Phase II

AGENDA -6

Recommendations/ Suggestions of BOS Members

- ✓ Board members appreciated the incorporation of advanced courses as electives in the UG curriculum.
- ✓ Board members suggested to try and include connectedness in the syllabus of related courses like Service Oriented Architecture, Artificial Intelligence, Internet of Things and Embedded Systems.
- ✓ Board members suggested to use recent editions of text books and reference books mentioned in syllabus.
- ✓ Board members suggested to include courses like Computational Biology, ERP in the UG curriculum.
- ✓ Board members suggested to incorporate hands on training in the elective courses offered for PG as this would ensure a thorough understanding of the concepts covered.
- ✓ Board members suggested to incorporate NEP into the curriculum. In this regard the course code of 7th and 8th semester of 2018-22 batch was changed to 20CSE71A, 20CSE72A and so on. Also the course code of open electives incorporated into the syllabus in the academic year 2017-18 as NHOPxx will henceforth be 20NHOPxx.
- ✓ 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.	20CSE735A	Embedded Systems	Dr. Thirukkumaran R Ms. Shanmuga Priya S Mr. Santosh Kumar B Ms. Subhashree Rath	Try and include connectedness among these courses
2.	20CSE745A	Service Oriented Architecture		
3.	20CSE554	Computational Intelligence	Dr. Jaya R Dr. Vaishali M Deshmukh Ms. Pramilarani K Ms. Alpha Vijayan	Try and include connectedness among these courses
4.	20CSE642	Soft Computing		
5.	20CSE732A	Artificial Intelligence		
6.	20CSE53	Database Management System	Dr. Senthil Kumar R Ms. Uma N Ms. Tinu N S	Try and include connectedness among these courses
7.	20CSE812A	Advanced Databases		
8.	20CSE63	Data Mining and Machine Learning	Dr. S J Subhashini Mr. Siva Balan N Ms. Soja Rani S	Try and include connectedness among these courses
9.	20CSE731A	Fundamentals of Data Science		
10.	20CSE733A	Cyber Security, Forensics and Law	Dr. Anidha Arulanandham Ms. Suganya.R Ms. Chempavathy	Try and include connectedness among these courses
11.	20CSE821A	Ethical Hacking & Prevention		

12.	20CSE551	Parallel Processing	<p>Dr. Pamela Vinitha Eric</p> <p>Dr. Rachana P</p> <p>Dr.S Nagendra Prabhu</p> <p>Dr. A Suresh</p> <p>Ms. Asha Rani Borah</p> <p>Mr. Manjunatha Swamy C</p> <p>Mr.Dinesh G</p> <p>Ms. Yogitha</p> <p>Mr. Bhaskar S V</p> <p>Ms. Lakshmi S Hanne</p>	<p>Introduce recent editions of text books and reference books in syllabus</p>
13.	20CSE554	Computational Intelligence		
14.	20CSE63	Data Mining and Machine Learning		
15.	20CSE641	Social Network Analysis		
16.	20CSE643	Agile Methodologies		
17.	20CSE644	Cloud Computing		
18.	20CSE651	Semantic Web		
19.	20CSE653	Quantum Cryptography		
20.	20CSE71A	Software Testing		
21.	20CSE72A	Mobile Application Development		
22.	20CSE741A	Natural Language Processing		
23.	20CSE743A	Robotics		
24.	20CSE744A	Computer Vision		
25.	20CSE745A	Service Oriented Architecture		
26.	20CSE813A	Mobile Computing		
27.	20CSE814A	Multi-core Architecture		

AGENDA -8

Approval of scheme & syllabus of final year Computer Science and Engineering subjects for 2018-2022 batch

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.

❖ Seventh 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 for (AY 2020-2021 to AY 2021-22)
1.	20CSE71A	Software Testing	10%	Separate lab component included	Inclusion of recent Automation Tools	10%
2.	20CSE72A	Mobile Application Development	10%	Separate lab component included	Demo using various simulators.	10%
20CSE73XA Professional Elective-IV						
3.	20CSE731A	Fundamentals of Data Science	50%	Hands on session	Demonstration with Jupyter tool	50%
4.	20CSE732A	Artificial Intelligence	20%	Study of real time AI applications	Concepts of Game Playing	20%
5.	20CSE734A	Internet of Things	20%	Hands on session with raspberry PI kit.	Demonstration of various sensors	20%
6.	20CSE735A	Embedded Systems	100%	Case Studies	Analysis of various microcontrollers	100%
20CSE74XA Professional Elective-V						
7.	20CSE741A	Natural Language Processing	100%	Study of NLP applications	Working and applications of Sentiment analysis	100%

8.	20CSE742A	Deep Learning	100%	Case studies	Significance of Auto encoders	100%
9.	20CSE743A	Robotics	100%	Study on Robot drive systems and end effectors	Inclusion of Robot programming	100%
10	20CSE744A	Computer Vision	100%	Review of image processing techniques	Importance of Motion detection in real time scenarios	100%
11	20CSE745A	Service Oriented Architecture	100%	Case studies on REST and RESTful service	Deployment using JAX	100%
12	20CSL75A	Software Testing Lab	0%	Demonstration of various testing tools	Included Selenium automation tool	0%
13	20CSL76A	Mobile Application Development Lab	0%	Developing android applications for various systems	Integrating databases and location based services	0%
14	20CSE77A	Mini Project in Mobile Application Development	NA	Individual mini projects are to be carried out	Rubrics are mentioned.	NA
15	20CSE78A	Project Phase-I	NA	The entire work has to be carried out by the batch (Max.4 members) of students.	Rubrics are mentioned.	NA

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

SL NO	SUBJECT CODE	SUBJECT	% Additions / Deletions in Modules	Proposed Experiential Learning in the Modules	Industrial inputs in the Modules	Percentage change in the syllabus for (AY 2020-2021 to AY 2021-22)
20CSE81XA Professional Elective-VI						
1	20CSE811A	Pattern Recognition	100%	Case study on areas where Pattern recognition used.	Analysis of usage of linear and non linear classifiers	100%

2	20CSE812A	Advanced Databases	100%	Hands on various indexing operations	Inclusions of recent applications of Databases	100%
3	20CSE813A	Mobile Computing	100%	Study on generations of telecommunication systems	Inclusion of various mobile platforms and its application	100%
4	20CSE814A	Multi-core Architecture	100%	Case study on serial processors and programming for parallel processors	Included Programs using OpenMP and MPI	100%
20CSE82XA Professional Elective-VII						
5	20CSE821A	Ethical Hacking & Prevention	100%	Review on different hacking techniques for real time scenarios.	Included recent attacks	100%
6	20CSE822A	Green Computing	100%	Study on various key sustainability and green IT trends.	Included Role of IT in green computing	100%
7	20CSE823A	Data Compression	100%	Case studies on various types of compression techniques	Included Video compression techniques	100%
8	20CSE824A	Cognitive and Learning Science	100%	Review study on the advanced memory models in the field of cognitive science	Included role of robots in intelligent agents.	100%

AGENDA -9

Approval of modifications in syllabus of two courses of sixth semester Computer Science and Engineering of 2019-2023 batch

SL NO	SUBJECT CODE	SUBJECT	% Additions / Deletions in Modules	Proposed Experiential Learning in the Modules	Industrial inputs in the Modules	Percentage change in the syllabus for (AY 2020-2021 to AY 2021-22)
1.	20CSE63	DMML	30%	Experiments in ML introduced as value added	Included more ML concepts	30%
2.	20CSE642	Soft Computing	60%	Case studies	Included more advanced topics	60%

AGENDA -10

Proposed course details Of PG for the academic year 2021-22

FIRST SEMESTER (2021-2023) – 88 Credits

S. No	Course code	Course	BOS	Credit distribution			Overall credits	Marks		Remark (LAB/ Hands on Programs)
				L	T	P		CIE	SEE	
1	19SCS11	ADVANCED OPERATING SYSTEMS	CSE	3	0	0	3	50	50	Theory
2	19SCS12	ARTIFICIAL INTELLIGENCE	CSE	3	0	0	3	50	50	Theory
3	19SCS13	ADVANCED COMPUTER NETWORKS&SECURITY	CSE	3	0	0	3	50	50	Theory
4	19SCS14x	SPECIALIZATION ELECTIVE-1	CSE	4	0	0	4	50	50	Theory

5	19SCS15	HUMAN COMPUTER INTERACTION	CSE	3	0	0	3	50	50	Theory	
6	19SCS16	RESEARCH METHODOLOGY & IPR	CSE	2	0	0	2	25	25	Theory	
7	19SCS17	MINI PROJECT IN ACN	CSE				2	25	25	Experiential Learning	
8	19SCL18	ADVANCED OPERATING SYSTEMS LAB	CSE	0	0	2	2	25	25	Lab	
Total							22				

Specialization Elective-I	
Course code	Course
19SCS141	OBJECT ORIENTED SOFTWARE ENGINEERING
19SCS142	MULTI CORE ARCHITECTURE AND PROGRAMMING
19SCS143	DATAWAREHOUSING AND DATAMINING
19SCS144	PATTERN RECOGNITION AND IMAGE PROCESSING

SECOND SEMESTER (2021-2023) – 88 Credits

S. No	Course code	Course	BOS	Credit distribution			Overall credits	Contact Hours	Marks		Remark (LAB/ Hands on Programs)
				L	T	P			CIE	SEE	
1	19SCS21	ADVANCED ALGORITHMS	CSE	3	0	0	3	3	50	50	Theory
2	19SCS22	CLOUD COMPUTING	CSE	3	0	0	3	3	50	50	Theory
3	19SCS23	BIG DATA ANALYTICS	CSE	4	0	0	4	4	50	50	Theory
4	19SCS24x	SPECIALIZATION ELECTIVE-2	CSE	4	0	0	4	4	50	50	Theory
5	19SCS25	MACHINE LEARNING	CSE	4	0	0	4	4	50	50	Theory
6	19SCS26	MINI PROJECT ON CLOUD COMPUTING	CSE				2	4	25	25	Experiential Learning
7	19SCL27	ADVANCED ALGORITHMS LAB	CSE	0	0	2	2	4	25	25	LAB
Total							22				

Specialization Elective-2	
Course code	Course
19SCS241	SOFTWARE TESTING AUTOMATION
19SCS242	MIDDLEWARE TECHNOLOGIES IN WEB AND MOBILE DOMAIN
19SCS243	SERVICE ORIENTED ARCHITECTURE
19SCS244	PARALLEL ALGORITHMS

THIRD SEMESTER (2020-2022) – 88 Credits

S. No	Course code	Course	BOS	Credit distribution			Overall credits	Contact Hours	Marks		Remark
				L	T	P			CIE	SEE	
1	20SCS31x	Interdisciplinary Elective	CSE	4	0	0	4	4	50	50	(LAB/ Hands on Programs) Theory
2	20SCS32	INTERNSHIP	CSE	-	-	-	2	-	25	25	Experiential Learning
3	20SCS33	SEMINAR	CSE	-	-	-	2	-	25	25	Experiential Learning
4	20SCS34	PROJECT PHASE-1	CSE	-	-	-	14	-	100	100	Experiential Learning
Total							22				

INTERDISCIPLINARY ELECTIVE	
COURSE CODE	COURSE
200CS315	INDUSTRIAL IOT
20SCS316	DIGITAL IMAGE AND VIDEO PROCESSING
20SCS317	GAMING AND VIRTUAL REALITY
20SCS318	ROBOTICS AND AUTOMATION
20SCS319	BIO COMPUTATION / BIOINFORMATICS

FOURTH SEMESTER (2020-2022) – 88 Credits

S. No	Course code	course	BOS	Credit distribution			Overall credits	Contact Hours	Marks		Remarks
				L	T	P			CIE	SEE	
1	20SCS41x	SPECIALIZATION ELECTIVE -4	CSE	4	0	0	4	4	50	50	(LAB/ Hands on Programs) Theory
2	20SCS42	INTERNSHIP	CSE	-	-	-	2	-	25	25	Experiential Learning
3	20SCS43	SEMINAR	CSE	-	-	-	2	-	25	25	Experiential Learning
4	20SCS44	PROJECT PHASE-2	CSE	-	-	-	14	-	10	10	Experiential Learning
Total							22		0	0	

Specialization Elective -4	
Course code	course
20SCS411	AGILE TECHNOLOGIES
20SCS412	WEB INTELLIGENCE
20SCS413	ADVANCES IN COMPUTATIONAL SECURITY
20SCS414	HIGH PERFORMANCE COMPUTING
20SCS415	BLOCKCHAIN TECHNOLOGY

AGENDA -11

Presentation of draft of scheme & syllabus of interdisciplinary elective courses for third semester MTech Computer Science and Engineering of 2020-2022 batch for ratification

- ✓ The Chairperson presented the draft of scheme and Contents of syllabus in each course of third semester for scrutiny. The details were scrutinized by the members of the Board.

SL NO	COURSE CODE	COURSE NAME
1.	20SCS31x	Interdisciplinary Elective
2.	20SCS315	INDUSTRIAL IOT
3.	20SCS316	DIGITAL IMAGE AND VIDEO PROCESSING
4.	20SCS317	GAMING AND VIRTUAL REALITY
5.	20SCS318	ROBOTICS AND AUTOMATION
6.	20SCS319	BIO COMPUTATION / BIOINFORMATICS
7.	20SCS32	INTERNSHIP
8.	20SCS33	SEMINAR
9.	20SCS34	PROJECT PHASE-1

AGENDA -12

Approval of scheme & syllabus for third semester MTech Computer Science and Engineering subjects of 2020-2022 batch

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.

SL NO	SUBJECT CODE	SUBJECT	% Additions / Deletions In Modules	Proposed Experiential Learning In the Modules	Industrial Inputs in the Modules	Percentage change in the syllabus for (AY 2020-2021 to AY 2021-22)
20SCS31x Interdisciplinary Elective						
1.	200CS315	Industrial IoT	100%	Case Study	Included security in IIOT systems	100%
2.	20SCS316	Digital Image And Video Processing	100%	Case Study	Included recent techniques in compressing digital image	100%
3.	20SCS317	Gaming And Virtual Reality	100%	Case Study	Included the concept of player centric game	100%
4.	20SCS318	Robotics And Automation	100%	Case Study	Included screen recorder an web recorder with database automation	100%
5.	20SCS319	Bio Computation / Bioinformatics	100%	Case Study	Included swarm intelligence algorithms	100%
6.	20SCS32	Internship	NA	Individual Work	Rubrics have to be mentioned.	NA
7.	20SCS33	Seminar	NA	Individual Work	Rubrics have to be mentioned.	NA
8.	20SCS34	Project Phase-1	NA	The entire work has to be carried out by the batch (Max.4 members) of students.	Rubrics have to be mentioned.	NA

AGENDA -13

**Recommendation and approval of syllabus of the course
Blockchain Technology to be introduced as specialisation elective
for MTech 4th semester of 2020-22 batch**

SL NO	COURSE CODE	COURSE NAME
1.	20SCS41x	SPECIALIZATION ELECTIVE -4
2.	20SCS411	AGILE TECHNOLOGIES
3.	20SCS412	WEB INTELLIGENCE
4.	20SCS413	ADVANCES IN COMPUTATIONAL SECURITY
5.	20SCS414	HIGH PERFORMANCE COMPUTING
6.	20SCS415	BLOCKCHAIN TECHNOLOGY
7.	20SCS42	INTERNSHIP
8.	20SCS43	SEMINAR
9.	20SCS44	PROJECT PHASE-2

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. He also thanked Dr. Amarjeet Singh, Prof & Dean – Academic 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



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: 2021-22

Date of BOS conducted: 08.05.2021

Annexure-I

Percentage of Syllabus Change Recommended & Approved

UG Program: BE

Year	Semester	Current Subject Code (Before BOS)	Proposed Subject Code (After BOS)	Percentage change of syllabus for (AY 2020-2021 to AY 2021-22)	Remarks if any
I	I & II	19CSE13/23	21CSE13/23	100%	Python Programming Introduced for NEP
II	III & IV	No Change			
III	V	No Change			
	VI	20CSE63	20CSE63	30%	DMML - Included more ML concepts
		20CSE642	20CSE642	60%	20CSE642- Soft Computing Syllabus revised to avoid similarity to 20CSE554- Computational Intelligence
IV	VII	xxCSE71	20CSE71A	100%	Course framed for 175 credits
		xxCSE72	20CSE72A	100%	Course framed for 175 credits
		xxCSE731	20CSE731A	100%	PE* Course framed for 175 credits
		xxCSE732	20CSE732A	100%	PE* Course framed for 175 credits
		xxCSE734	20CSE734A	100%	PE* Course framed for 175 credits

VIII	xxCSE735	20CSE735A	100%	New PE* Course Introduced for 175 credits
	xxCSE741	20CSE741A	100%	New PE* Course Introduced for 175 credits
	xxCSE742	20CSE742A	100%	New PE* Course Introduced for 175 credits
	xxCSE743	20CSE743A	100%	New PE* Course Introduced for 175 credits
	xxCSE744	20CSE744A	100%	New PE* Course Introduced for 175 credits
	xxCSE745	20CSE745A	100%	New PE* Course Introduced for 175 credits
	xxCSE811	20CSE811A	100%	New PE* Course Introduced for 175 credits
	xxCSE812	20CSE812A	100%	New PE* Course Introduced for 175 credits
	xxCSE813	20CSE813A	100%	New PE* Course Introduced for 175 credits
	xxCSE814	20CSE814A	100%	New PE* Course Introduced for 175 credits
	xxCSE821	20CSE821A	100%	New PE* Course Introduced for 175 credits
	xxCSE822	20CSE822A	100%	New PE* Course Introduced for 175 credits
	xxCSE823	20CSE823A	100%	New PE* Course Introduced for 175 credits
	xxCSE824	20CSE824A	100%	New PE* Course Introduced for 175 credits

Percentage of Syllabus Change Recommended & Approved

PG Program: MTech

ar	Semester	Current Subject Code (Before BOS)	Proposed Subject Code (After BOS)	Percentage change of syllabus for (AY 2020-2021 to AY 2021-22)	Remarks if any
	I & II	No Change			
	III	19SCS311	20SCS315	100%	New Interdisciplinary Elective Introduced
		19SCS312	20SCS316	100%	New Interdisciplinary Elective Introduced
		19SCS313	20SCS317	100%	New Interdisciplinary Elective Introduced
		19SCS314	20SCS318	100%	New Interdisciplinary Elective Introduced
		xxx	20SCS319	100%	New Interdisciplinary Elective Introduced
	IV	xxx	20SCS415	100%	New Professional Elective Introduced


BOS-Chairman
13. May. 2021


Dean-Academics


Principal

Dated: 13. May. 2021





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Department of Computer Science & Engineering

Board of Studies Academic Year: 2021-22

Date of BOS conducted: 08.05.2021

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

Year	Semester	Current Subject Code (Before BOS)	Current Subject Name (Before BOS)	Justification for not Changing
II	III	19HSS322	Life skills for Engineers	Basic Fundamental Subject
		19HSS323	Environmental Science and Awareness	Basic Fundamental Subject
		19CSE34	Data Structures using C	Basic Fundamental Subject
		19CSE35	UNIX System Programming	Basic Fundamental Subject
		19CSL36	Digital Electronics Lab	Basic Fundamental Subject
		19CSL37	Data Structures using C Lab	Basic Fundamental Subject
		19CSL38	UNIX System Programming Lab	Basic Fundamental Subject

	19CSE39	Mini Project in C	Basic Fundamental Subject		
IV	20CSE41A	Discrete Mathematics and Graph Theory	Basic Fundamental Subject		
	20HSS421A	Economics For Engineers	Basic Fundamental Subject		
	20HSS424/ 20HSS425	Aadalitha Kannada/ Vyavaharika Kannada	Basic Fundamental Subject		
	19CSE43	Object Oriented Programming with Java	Basic Fundamental Subject		
	19CSE44	ARM Processor	Basic Fundamental Subject		
	19CSE45	Computer Organization	Basic Fundamental Subject		
	19CSL46	Object Oriented Programming with Java Lab	Basic Fundamental Subject		
	19CSL47	ARM Processor Lab	Basic Fundamental Subject		
	19CSE48	Mini Project in Java	Basic Fundamental Subject		
	III	V	20CSE51	Analysis and Design of Algorithms	Basic Fundamental Subject
20CSE52			Operating System	Basic Fundamental Subject	
20CSE53			Database Management System	Basic Fundamental Subject	
20CSE54			Finite Automata and Compiler Design	Basic Fundamental Subject	
20CSE55x Professional Elective-I					
20CSE551			Parallel Processing	Discussed in BOS 2020-21	

		20CSE552	Advanced Data Structures	Discussed in BOS 2020-21
		20CSE553	Digital Image and Video Processing	Discussed in BOS 2020-21
		20CSE554	Computational Intelligence	Discussed in BOS 2020-21
		20CSL56	Python Programming Lab	Basic Fundamental Subject
		20CSL57	Analysis and Design of Algorithms Lab	Basic Fundamental Subject
		20CSL58	Database Management System Lab	Basic Fundamental Subject
		20CSE59	Mini Project using Python	Basic Fundamental Subject
		20CSE61	Web Frameworks and Technologies	Discussed in BOS 2020-21
		20CSE62	Computer Networks	Basic Fundamental Subject
		20CSE63	Data Mining and Machine Learning	Discussed in BOS 2020-21
		20CSE64x Professional Elective-II		
		20CSE641	Social Network Analysis	Discussed in BOS 2020-21
		20CSE642	Soft Computing	Discussed in BOS 2020-21
		20CSE643	Agile Methodologies	Discussed in BOS 2020-21
		20CSE644	Cloud Computing	Discussed in BOS 2020-21
		20CSE65x Professional Elective-III		
II	VI			

	20CSE651	Semantic Web	Discussed in BOS 2020-21
	20CSE652	Web of Things	Discussed in BOS 2020-21
	20CSE653	Quantum Cryptography	Discussed in BOS 2020-21
	20CSE654	Software Agents	Discussed in BOS 2020-21
	20CSE655	Advanced Java	Discussed in BOS 2020-21
	20CSL66	Web Frameworks and Technologies Lab	Discussed in BOS 2020-21
	20CSL67	Computer Networks Lab	Basic Fundamental Subject
	20CSE68	Mini Project in Web Frame Works or Operating System	Discussed in BOS 2020-21

PL
13 May 2021
BOS-Chairman

Dated: 13 May 2021

[Signature]
Dean-Academics

[Signature]
Principal





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(Subject Syllabus /Code Unchanged)

Department of Computer Science & Engineering

Board of Studies Academic Year: 2021-22

Date of BOS conducted: 08.05.2021

Annexure-III

Topic: 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	
1	I/II	Problem Solving Using Python	21CSE13/23	Module-1	All concepts of Python introduced	100%	
				Module-2			
				Module-3			
				Module-4			
				Module-5			
		Software Testing	20CSE71A	Module-1	No Change	0%	
				Module-2			
				Module-3			
				Module-4			
				Module-5			
		Mobile Application Development	20CSE72A		Module-1	No Change	0%
					Module-2		
					Module-3		
					Module-4		
					Module-5		
20CSE73XA Professional Elective-IV							

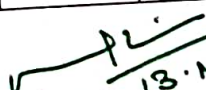
IV	VII	Fundamentals of Data Science	20CSE731A	Module-1	Tableau Linear Algebra Advanced Algorithms	50%
				Module-2		
				Module-3		
				Module-4		
				Module-5		
		Artificial Intelligence	20CSE732A	Module-1	No Change	0%
				Module-2		
				Module-3		
				Module-4		
				Module-5		
Cyber Security, Forensics and Law	20CSE733A	Module-1	No Change	0%		
		Module-2				
		Module-3				
		Module-4				
		Module-5				
Internet of Things	20CSE734A	Module-1	No Change	0%		
		Module-2				
		Module-3				
		Module-4				
		Module-5				
Embedded Systems	20CSE735A	Module-1	New Course introduced in 2021-22 as per BOS recommendation in 2020-21	100%		
		Module-2				
		Module-3				
		Module-4				
		Module-5				
20CSE74xA PROFESSIONAL ELECTIVE-V						
	20CSE741A	Module-1	Newly introduced course	100%		
		Module-2				

	Natural Language Processing		Module-3		
			Module-4		
			Module-5		
	Deep Learning	20CSE742A	Module-1	Newly introduced course	100%
			Module-2		
			Module-3		
			Module-4		
			Module-5		
	Robotics	20CSE743A	Module-1	Newly introduced course	100%
			Module-2		
			Module-3		
			Module-4		
			Module-5		
	Computer Vision	20CSE744A	Module-1	Newly introduced course	100%
			Module-2		
			Module-3		
			Module-4		
			Module-5		
	Service Oriented Architecture	20CSE745A	Module-1	Newly introduced course	100%
			Module-2		
Module-3					
Module-4					
Module-5					
20CSE81xA Professional Elective-VI					
Pattern Recognition	20CSE811A	Module-1	Newly introduced course	100%	
		Module-2			
		Module-3			
		Module-4			
		Module-5			

VIII

Advanced Databases	20CSE812A	Module-1	Newly introduced course	100%
		Module-2		
		Module-3		
		Module-4		
		Module-5		
Mobile Computing	20CSE813A	Module-1	Newly introduced course	100%
		Module-2		
		Module-3		
		Module-4		
		Module-5		
Multi-core Architecture	20CSE814A	Module-1	Newly introduced course	100%
		Module-2		
		Module-3		
		Module-4		
		Module-5		
20CSE82xA Professional Elective-VII				
Ethical Hacking & Prevention	20CSE821A	Module-1	Newly introduced course	100%
		Module-2		
		Module-3		
		Module-4		
		Module-5		
Green Computing	20CSE822A	Module-1	Newly introduced course	100%
		Module-2		
		Module-3		
		Module-4		
		Module-5		
Data Compression	20CSE823A	Module-1	Newly introduced course	100%
		Module-2		
		Module-3		

				Module-4		
				Module-5		
		Cognitive and Learning Science	20CSE824A	Module-1	Newly introduced course	100%
				Module-2		
				Module-3		
				Module-4		
				Module-5		


 BOS-Chairman 13. May. 2021


 Dean-Academics


 Principal

Dated: 13. May. 2021

