


Chaitanya Bharathi Institute of Technology (Autonomous)
Gandipet, Hyderabad – 500075
Department of Computer Science and Engineering

Consolidated Action taken report on the Feedback obtained from Stake Holders
AY : 2022-2023

S.No	Suggestions received	Feedback obtained from	Stake Holder Details	Action Taken	Remarks
1	Professional Electives need to be adjusted	Faculty	Dr. G.Vanitha	Proposed to adjust in R22	BOS 2023 Schema R22 Regulations
2	Curriculum should be designed with Industry Standards	Faculty	Dr. K Morarjee	Proposed to adjust in R22	BOS 2023 Syllabus R22 (I to IV Sem) Schema R22 Regulations
3	The following topics are added in Computer Organization and Architecture syllabus - Programmable Logic Arrays, PDA and FPGA	Student	Jahnavi 160120733067	Proposed to remove in R22A	BOS 2023 Syllabus R22 (I to IV Sem) Schema R22 Regulations
4	New Courses need to be introduced	Alumnus (2023)	Sruthi P	Introduced in R22 Regulations	BOS 2023 Syllabus R22 (I to IV Sem) Schema R22 Regulations


Professor and Head Department
Department of Computer Science & Engineering
Chaitanya Bharathi Institute of Technology (A)
Gandipet, Hyderabad-500 075,(T.S.)



Department of Computer Science and Engineering
Minutes of 12th CSE Department Board of Studies (BoS) Meeting

CSE Dept., 12th BoS(Hybrid mode) meeting was conducted on 12-05-2023 at 10:00 AM.

Agenda

1. Welcome address and opening remarks by Chairman, CSE Dept.
2. Confirmation of the minutes of the 11th CSE BoS meeting held on 06-04-2022.
3. Approval for UG-R22-Scheme and PG-R23-Scheme along with value added courses.
4. Approval of Syllabus for BE CSE – III and IV Semesters.
5. Approval of Scheme for Honors and Minors Degree.
6. Any other item with permission of the Chair.

The following members were present:

S.No	Name	Organization	Designation
1.	Dr. M.Swanidas	Head, CSE Dept., CBIT	Chairperson
2.	Dr.Raman Dugyala	Professor, CSE Dept, CBIT	Member
3.	Dr.R.Ravinder Reddy	Professor, CSE Dept, CBIT	Member
4.	Dr. K.Shyamala	Head, CSE Dept., OUCE	Nominee from OU
5.	Dr. Praveen Tammana	Asst Prof., IIT Hyderabad	Expert from University
6.	Dr.Nagender Kumar S	Assoc. Professor, SCIS, University of Hyderabad.	Expert from University
7.	Mr.M.Nagarjuna Reddy	Team Manager, SAP Labs	Alumni Expert
8.	Mr.Venkat Rao	Associate Vice President, Sunsoft solutions	Member from Industry
9.	Mr. Akash Sinha	Head, Learning and Development L4G; Hyderabad.	Member from Industry
10.	Dr.Y. Rama Devi	Professor, CSE-AI&ML Dept, CBIT	Invitee member Staff
11.	Dr.Sangeetha Gupta	Associate Professor, CSE Dept, CBIT	Member
12.	Dr.V.Padamavathi	Associate Professor, CSE Dept, CBIT	Invitee member Staff
13.	Dr.E.Padmalatha	Associate Professor, CSE Dept, CBIT	Invitee member Staff
14.	Dr. Kolla Morarjee	Associate Professor, CSE Dept, CBIT	Invitee member Staff
15.	Dr. G Kiran Kumar	Associate Professor, CSE Dept, CBIT	Invitee member Staff
16.	Dr. Ravi Uyyala	Associate Professor, CSE Dept, CBIT	Invitee member Staff
17.	Dr.V.Uma Maheshwari	Associate Professor, CSE Dept, CBIT	Invitee member Staff
18.	Dr.Premkumar Chithaluru	Associate Professor, CSE Dept, CBIT	Invitee member Staff
19.	Smt.I.Srujana	Assistant Professor, CSE Dept, CBIT	Member
20.	Smt. E. Kalpana	Assistant Professor, CSE Dept, CBIT	Member
21.	Dr .G.Vanitha	Assistant Professor, CSE Dept, CBIT	Invitee member Staff

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S.No	Name	Organization	Designation
22.	Smt.T.Suvarna Kumari	Assistant Professor, CSE Dept, CBIT	Invitee member Staff
23.	Smt. K. Spandana	Assistant Professor, CSE Dept, CBIT	Invitee member Staff
24.	Smt. Ch.Madhavi Sudhu	Assistant Professor, CSE Dept, CBIT	Invitee member Staff
25.	Smt. G.Kavitha	Assistant Professor, CSE Dept, CBIT	Invitee member Staff
26.	Smt. KavithaAgarwal	Assistant Professor, CSE Dept, CBIT	Invitee member Staff
27.	Smt. S. Durga Devi	Assistant Professor, CSE Dept, CBIT	Invitee member Staff
28.	Smt.E.Swathi	Assistant Professor, CSE Dept, CBIT	Invitee member Staff
29.	Smt. Isha Padhy	Assistant Professor, CSE Dept, CBIT	Invitee member Staff
30.	Smt.Shanmukhi Rama	Assistant Professor, CSE Dept, CBIT	Invitee member Staff
31.	Mr.M.Venkata Krishna Reddy	Assistant Professor, CSE Dept, CBIT	Invitee member Staff
32.	Mr.K.Karthik	Assistant Professor, CSE Dept, CBIT	Invitee member Staff
33.	Smt. M.Madhu Latha	Assistant Professor, CSE Dept, CBIT	Invitee member Staff

The following members couldn't attend the meeting due to their prior commitments and unavoidable reasons:

S.No	Name	Organization	Designation
1.	Mr. Srikanth Srinivasan	Sr.Director & Head ,OutReach	Industry Expert
2.	Mr. Vihar Kurama	Co-Founder, Canavel AI	Industry Expert
3.	Mr. Thatte Vishram	AWS Academy, Technical Program Manager	Industry Expert
4.	Mrs. Ch. Vijaya Lakshmi	Assistant Professor, CSE Dept, CBIT	Member
5.	Mrs. A. Sangeetha	Assistant Professor, CSE Dept, CBIT	Member

- The Chairman CSE Board of Studies welcomed and introduced the Board of Studies members of 12th and thanked each one of them for sparing their valuable time. Also briefed about the Institute Vision, Mission and Department Vision and Mission.
- Introduced the new internal members of the CSE BoS as it was reconstituted after department bifurcation.
- **Presented the Program specific PEOs, PO, PSO**

The Committee has resolved for following modifications

1. **PEOs, PO, PSO**

Members suggested to include social, sustainability and engineering ethics.

2. **Confirmation of the 11th CSE BoS minutes (online) held on 06-04-2022 at 10.00 AM.** Minutes of 11th CSE BOS meeting held on 06-04-2022 were confirmed.
3. **Scheme and Structure of R22 for III Semester to VIII Semester an value added courses**

- Chairman, CSE BoS presented the Scheme & Structure of R22 from III to VIII Semesters including the program electives, Open Electives, value added courses. The members opined that some electives can be included based on Industry needs.
- Experts suggested including 5G communication as one of the elective course.
- Prof. K. Shymala mentioned to change the open electives.

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4. Approval of R22 Syllabus for III and IV semester

- a. Industry experts (Mr.Venkata Rao, Mr. Nagarjun Reddy and Mr.Akash Sinha) suggested to include Design Thinking and Idea Lab and also suggested to rename Basic electronics and sensors as Sensors, peripherals and electronics.
- b. Prof. K. Shymala suggested including Verilog programming by Samir Palnitkar as suggested Text book and give assignments on Verilog.
- c. Members opined that Computer Organization and Architecture syllabus need to include Programmable Logic Arrays, PDA and FPGA.
- d. Experts suggested including advanced topics in DBMS course by following AICTE R22 Model Curriculum. Also suggested to add NoSql database concepts and ARD Open source tool to be included in Lab syllabus.
- e. File handling and self-referential structures topic should be included in C & Data Structures syllabus.
- f. Members suggested to follow the order of concepts viz. HTML, CSS, JAVA script and Bootstrap in Web Technologies course syllabus and also suggested to include JQuery concept after Angular.
- g. In Computer Networks syllabus, security concepts need to be added in Unit-V
- h. Members suggested including latest edition Text books for DAA course as well as other courses.

5. Presented the Common Courses and Open Electives syllabus.

The same was approved by the members.

6. R23 MTech(CSE) - PG Scheme and Syllabus

Dr. R Ravinder Reddy, CSE PG Coordinator, presented the R23 PG scheme and Syllabus. Members suggested to add courses related to industry.

7. Any other item with permission of the Chair

- Additional Minor Engineering and Honors degree courses were to be categorized in tracks and equivalent MOOCs/ Coursera etc. to be identified.
- Members from Industry expressed their willingness to extend their cooperation and coordination for providing Internship opportunities, Placements Assistance and Career Guidance for the benefit of the students.
- They expressed to extend their support in organizing Faculty Development Programs, Workshops Conferences on Latest emerging Technologies, to carry out Research Activities and Consultancy.


Chairperson,
BOS, CSE Dept.



**Scheme of Instruction
of
I - VIII SEMESTERS**

of

FOUR YEAR DEGREE COURSE

in

BE-COMPUTER SCIENCE AND ENGINEERING

(AICTE Model Curriculum with effect from AY 2022-23)

R-22 Regulation



CHAITANYABHARATHIINSTITUTEOFTECHNOLOGY
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CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A)
SCHEME OF INSTRUCTIONS AND EXAMINATION
Model Curriculum - R22 (with effect from the A.Y. 2022-23)

B.E. (Computer Science and Engineering)

SEMESTER – I

S. No	Course Code	Title of the Course	Scheme of Instruction			Scheme of Examination			Credits
			Hours per Week			Duration of SEE in Hours	Maximum Marks		
			L	T	P/D		CIE	SEE	
THEORY									
1	22MTC01	Linear Algebra & Calculus	3	1	-	3	40	60	4
2	22PYC01	Optics and Semiconductor Physics	3	-	-	3	40	60	3
3	22CSC01	Problem Solving and Programming	2	1	-	3	40	60	3
4	22EGC01	English	2	-	-	3	40	60	2
PRACTICAL									
5	22PYC03	Optics and Semiconductor Physics Lab	-	-	3	3	50	50	1.5
6	22EGC02	English lab	-	-	2	3	50	50	1
7	22CSC02	Problem Solving and Programming Lab	-	-	3	3	50	50	1.5
8	22MEC01	CAD and Drafting	-	1	3	3	50	50	2.5
9	22MEC38	Digital Fabrication Lab	-	-	3	3	50	50	1.5
TOTAL			10	3	14	-	410	490	20

L: Lecture T: Tutorial P: Practical CIE: Continuous Internal Evaluation SEE-Semester End Examination



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Model Curriculum - R22 (with effect from the A.Y. 2022-23)

B.E. (Computer Science and Engineering)

SEMESTER-II

S. No	Course Code	Title of the Course	Scheme of Instruction			Scheme of Examination			Credits
			Hours per Week			Duration of SEE in Hours	Maximum Marks		
			L	T	P/D		CIE	SEE	
THEORY									
1	22MTC04	Differential Equations & Numerical Methods	3	1	-	3	40	60	4
2	22CYC01	Chemistry	3	0	-	3	40	60	3
3	22EEC01	Basic Electrical Engineering	2	1	-	3	40	60	3
4	22CSC03	Object Oriented Programming	2	1	-	3	40	60	3
PRACTICAL									
5	22CYC02	Chemistry Lab	-	-	3	3	50	50	1.5
6	22MBC02	Community Engagement	-	-	3	-	50	-	1.5
7	22CSC04	Object Oriented Programming Lab	-	-	2	3	50	50	1
8	22MEC37	Robotics and Drones Lab	-	2	2	-	100	-	3
9	22EEC02	Basic Electrical Engineering Lab	-	-	2	3	50	50	1
TOTAL			10	5	12	-	460	390	21

L: Lecture T: Tutorial P: Practical CIE: Continuous Internal Evaluation SEE-Semester End Examination



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A)
SCHEME OF INSTRUCTIONS AND EXAMINATION
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B.E. (Computer Science and Engineering)

SEMESTER – III

S. No	Course Code	Title of the Course	Scheme of Instruction			Scheme of Examination			Credits
			Hours per Week			Duration of SEE in Hours	Maximum Marks		
			L	T	P/D		CIE	SEE	
THEORY									
1.	22CSC05	Data Structures	3	-	-	3	40	60	3
2.	22CSC06	Discrete Structures	3	1	-	3	40	60	4
3.	22CSC07	Digital Logic Design	2	1	-	3	40	60	3
4.	22ECC36	Basic Electronics and Sensors(BES)	3	0	-	3	40	60	3
5.	22EGM01	Indian Constitution And Fundamental Principles	2	-	-	2	-	50	No Credit
PRACTICAL									
6.	22CSC08	Data Structures and Algorithms Lab	-	-	3	3	50	50	1.5
7.	22ECC37	Basic Electronics and Sensors Lab	-	-	2	3	50	50	1
8.	22CSC09	Latex Lab	-	-	2	3	50	50	1
9.	22CSV01	Engineering Leadership(MOOCs)	-	1	0	-	50	-	1
10.	22INT01	Internship – I	-	-	0	-	50	-	2
11.		Extra Academic Activities (EEA) -3	-	-	3	-	*APts	-	0
		TOTAL	13	3	10	-	410	440	19.5
Clock Hours Per Week: 26									

L: Lecture T: Tutorial P: Practical CIE: Continuous Internal Evaluation SEE-Semester End Examination

*** Activity points as per institutional guidelines**



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A)
SCHEME OF INSTRUCTIONS AND EXAMINATION
Model Curriculum - R22 (with effect from the A.Y. 2023-24)

B.E. (Computer Science and Engineering)

SEMESTER – IV

S. No	Course Code	Title of the Course	Scheme of Instruction			Scheme of Examination			Credits
			Hours per Week			Duration of SEE in Hours	Maximum Marks		
			L	T	P/D		CIE	SEE	
THEORY									
1.	22CSC10	Computer Organization and Architecture	3	1	-	3	40	60	4
2.	22CSC11	Database Management Systems	3	0	-	3	40	60	3
3.	22CSC12	Formal Language and Automata Theory	2	1	-	3	40	60	3
4.	22MTC12	Probability and Statistics	3	1	-	3	40	60	4
5.	22ITC17	Web Technologies	2	1	-	3	40	60	3
6.	22ECC39	Systems and Signal Processing	2	1	-	3	40	60	3
PRACTICAL									
7.	22ITC18	Web Technologies Lab	-	-	3	3	50	50	1.5
8.	22CSC13	Database Systems Lab	-	-	3	3	50	50	1.5
9.		Extra Academic Activities (EEA) -4	-	-	3	-	*APts	-	-
		TOTAL	15	5	9	-	340	460	23

Clock Hours Per Week: 29

**L: Lecture T: Tutorial P: Practical CIE: Continuous Internal Evaluation SEE-Semester
End Examination**

- * Activity points as per institutional guidelines



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A)
SCHEME OF INSTRUCTIONS AND EXAMINATION
Model Curriculum - R22 (with effect from the A.Y. 2024-25)

B.E. (Computer Science and Engineering)

SEMESTER - V

S. No	Course Code	Title of the Course	Scheme of Instruction			Scheme of Examination			Credits
			Hours per Week			Duration of SEE in Hours	Maximum Marks		
			L	T	P/D		CIE	SEE	
THEORY									
1.	22CSC14	Design and Analysis of Algorithms	3	1	-	3	40	60	4
2.	22CSC15	Operating Systems	3	-	-	3	40	60	3
3.	22CSC16	Artificial Intelligence & Machine Learning	3	1	-	3	40	60	4
4.	22xxxxx	Design Thinking	2	-	-	3	40	60	2
5.	22CSEX	Professional Elective Course-I	3	1	-	3	40	60	4
		Game Theory Data Analysis and Visualization Computer Graphics & Multimedia Microprocessors and Microcontrollers Optimization Techniques							
6.	22XXXXX	Open Elective Course - I	3	-	-	3	40	60	3
		Disaster Risk Reduction & Management Principles of Entrepreneurship Principles of Embedded Systems Biology For Engineers Environmental and Sustainable Development							
PRACTICAL									
7.	22CSC17	Design and Analysis of Algorithms Lab	-	-	2	3	50	50	1
8.	22CSC18	Operating Systems Lab	-	-	2	3	50	50	1
9.	22CSC19	Artificial Intelligence & Machine Learning Lab	-	-	2	3	50	50	1
10.	22xxxxx	Internship-II (Industrial / Rural Internship)	3 to 4 weeks / 90 Hours			-	50	-	2

Total	17	3	6	-	440	510	25
L: Lecture	T: Tutorial	P: Practical	CIE: Continuous Internal Evaluation	SEE: Semester End Examination			



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A)
SCHEME OF INSTRUCTIONS AND EXAMINATION
Model Curriculum - R22 (with effect from the A.Y. 2024-25)

B.E. (Computer Science and Engineering)

SEMESTER – VI

S. No	Course Code	Title of the Course	Scheme of Instruction			Scheme of Examination			Credits
			Hours per Week			Duration of SEE in Hours	Maximum Marks		
			L	T	P/D		CIE	SEE	
THEORY									
1.	22CSC20	Computer Networks	3	-	-	3	40	60	3
2.	22CSC21	Software Engineering	3	0	-	3	40	60	3
3.	22XXXXX	Universal Human Values 2.0	1	-	-	3	40	60	1
4.	22CSEXX	Professional Elective Course-II	3	1	-	3	40	60	4
		Deep Learning Big Data Analytics Image Modeling & Interpretation Internet of Things Nature Inspired Algorithms							
5.	22CSEXX	Professional Elective Course-III	3	-	-	3	40	60	3
		Federated Machine Learning Graph Databases Mobile Application Development Augmented Reality and Virtual Reality High Performance Computing							
6.	22MBCXX	Engineering Economics and Accountancy	3	-	-	3	40	60	3
PRACTICAL									
7.	22CSC22	Computer Networks Lab	-	-	2	3	50	50	1
8.	22CSC23	Case Tools Lab	-	-	2	3	50	50	1
9.	22CSEXX	Mini Project	-	-	4	-	50	-	2

10.	MOOCS	Product Management Essentials	-	1	-	-	50	-	0.5
TOTAL			16	2	8	-	440	460	21.5

L:Lecture T:Tutorial P:Practical CIE: Continuous Internal Evaluation SEE-Semester End Examination



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)
SCHEME OF INSTRUCTIONS AND EXAMINATION
Model Curriculum - R22 (with effect from the A.Y. 2026-27)

B.E. (Computer Science and Engineering)

SEMESTER - VII

S. No	Course Code	Title of the Course	Scheme of Instruction			Scheme of Examination			Credits
			Hours per Week			Duration of SEE in Hours	Maximum Marks		
			L	T	P/D		CIE	SEE	
THEORY									
1.	22CSC24	Compiler Design	3	-	-	3	40	60	3
2.	22CSCXX	Cyber Security and Information Systems	3	-	-	3	40	60	3
3.	22CSEXX	Professional Elective Course - IV	3	-	-	3	40	60	3
		ML for Engineering Applications User Interface & Design Concurrent Programming Cloud Computing Social Networks Analytics							
4.	22CSEXX	Professional Elective Course - V	2	1	-	3	40	60	3
		Natural Language Processing React JS Blockchain Technology Devops Tools Cryptography & Network Security							
5.	22XXXXX	Open Elective Course-II	3	-	-	3	40	60	3
		Remote Sensing and GIS Intellectual Property Rights Energy Auditing Bioinformatics Water Conservation Management							
PRACTICAL									
6.	22CSC25	Compiler Design Lab	-	-	2	3	50	50	1
7.	22CSEXX	Professional Elective - V Lab	-	-	2	3	50	50	1

		Natural Language Processing Lab Cyber Security and Information Systems Lab Blockchain Technology Lab Devops Tools Lab Cryptography & Network Security Lab							
8.	22CSEX	Project Part -I	-	-	6	-	50	-	3
9.	22XXXXX	Employability Skills	-	-	2	-	50	-	1
		TOTAL	14	1	12	-	400	400	21

L: Lecture T: Tutorial P:Practical CIE: Continuous Internal Evaluation SEE-Semester End Examination



**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)
SCHEME OF INSTRUCTIONS AND EXAMINATION
Model Curriculum - R22 (with effect from the A.Y. 2026-27)**

B.E. (Computer Science and Engineering)

SEMESTER –VIII

S. No	Course Code	Title of the Course	Scheme of Instruction			Scheme of Examination			Credits
			Hours per Week			Duration of SEE in Hours	Maximum Marks		
			L	T	P/D		CIE	SEE	
THEORY									
1.	22XXXXX	Environmental Science	2	-	-	2	-	50	-
2.	22XXXXX	Open Elective Course-III	2	1	-	3	40	60	3
		Infrastructure for Smart Cities Waste Management Bioterrorism And National Security Fundamentals of Nano Science and Nano Technology							
3.	22XXXXX	Climate Change and Computation	2	-	-	2	-	50	-
PRACTICAL									
4.	22CSC27	Technical Seminar	-	-	2	-	-	-	1

5.	22CSC28	Project Part II	-	-	8	-	100	100	4
		TOTAL	6	1	10	-	140	260	8

L: Lecture T: Tutorial P:Practical CIE: Continuous Internal Evaluation SEE-Semester End Examination

Winter Up-Skilling: 1 Credit

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