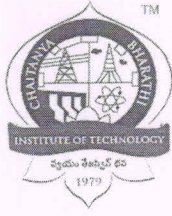


Chaitanya Bharathi Institute of Technology (Autonomous)
Gandipet, Hyderabad – 500075
Department of Computer Science and Engineering

Consolidated Action taken report on the Feedback obtained from Stake Holders
AY : 2023-2024

S.No	Suggestions received	Feedback obtained from	Stake Holder Details	Action Taken	Remarks
1	Curriculum should be designed with Industry Standards	Faculty	Dr. K Morarjee	Proposed to adjust in R22	BOS 2024 Syllabus R22
2	Weightage and Distribution of the syllabus content should be even for all units	Faculty	Dr. V. Padmavathi	Proposed to change in R22	BOS 2024 Syllabus R22
3	The curriculum is absolutely good, one drawback is there are various courses like Basic electronic and Sensors in third semester and Signals and signal processing in fourth semester which are a little bit irrelevant to the course that the students are pursuing. These courses can probably be replaced by the latest emerging technologies in the computer	Parent	N.N.S. Satyanarayana Raju	Proposed to remove in R22A	BOS 2024 Syllabus R22

	science field.				
4	Concurrent Technologies	Alumnus (2023)	Adnan	Introduced in R22 Regulations	BOS 2024 Syllabus R22
5	AI . ML and NLP courses electives are accommodated in same semester	Faculty	Ms. I.Srujana	Proposed to change in R22	BOS 2024 Syllabus R22



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EDUCATION

45
years

Department of Computer Science and Engineering

MINUTES OF BOS(CSE) MEETING

The CSE Department BOS meeting was conducted in Hybrid mode on 06-05-2024 at 10:00 AM.

Agenda

1. Welcome Address and Opening Remarks of Chairperson, BOS, CSE Dept.
2. Confirmation of the minutes of the BOS meeting held on 12-05-2023.
3. Approval for UG-R22-Scheme and UG-R22A-Scheme.
4. Approval of Syllabus for BE CSE R22 – V to VIII Semesters.
5. Approval of Syllabus for BE CSE R22A – I to IV Semesters
6. Any other item with the permission of the Chair.

The following members were present:

S.No	Name	Organization	Designation
1.	Dr.Raman Dugyala	Head, CSE Dept., CBIT	Chairperson
2.	Dr. M.Swamy Das	Professor, CSE Dept, CBIT	Member
3.	Dr. S. China Ramu	Professor, CSE Dept, CBIT	Member
4.	Dr. Sangeeta Gupta	Professor, CSE Dept, CBIT	Member
5.	Dr.R.Ravinder Reddy	Professor, CSE Dept, CBIT	Member
6.	Prof. M Venkat Dass	Chairperson, BOS, OUCE	Nominee from OU
7.	Dr. Suresh Kumar Lokhande	Associate Professor, CSE Dept., OUCE	Invitee Member from OU
8.	Dr.Nagender Kumar S	Associate Professor, SCIS, University of Hyderabad.	Subject Expert
9.	Mr. Srikanth Srinivasan,	Sr. Director & Head - Membership & Outreach	Member from Industry
10.	Mr. M.Nagarjuna Reddy	Team Manager, SAP Labs India Pvt. Ltd., Hyderabad.	Member – College Alumni
11.	Mr. Rahul Katikineni,	Lead Software Engineer, Freshworks, Hyderabad, 500081	Member – College Alumni
12.	Mr.M. Venkat Rao	Associate Vice President, Sunsoft Solutions	Member from Industry
13.	Mr. Vihar Kurama	Co-Founder, Plane.so	Member from Industry
14.	Mr. Srinadh Bodepudi	Senior Project Manager, DXC Technology, Hyderabad	Member from Industry
15.	Mr. Akash Sinha	Head, Learning and Development L4G; Hyderabad.	Member from Industry

S.No	Name	Organization	Designation
16.	Dr.V.Padamavathi	Associate Professor, CSE Dept, CBIT	Member
17.	Mr.M.Venkata Krishna Reddy	Assistant Professor, CSE Dept, CBIT	Member
18.	Dr.E.Padmalatha	Associate Professor, CSE Dept, CBIT	Invitee Member Staff
19.	Dr. Ravi Uyyala	Associate Professor, CSE Dept, CBIT	Invitee Member Staff
20.	Dr .G.Vanitha	Associate Professor, CSE Dept, CBIT	Invitee Member Staff
21.	Dr. G Kiran Kumar .	Associate Professor, CSE Dept, CBIT	Invitee Member Staff
22.	Dr. K. Spandana	Assistant Professor, CSE Dept, CBIT	Invitee Member Staff
23.	Smt. Ch.Madhavi Sudha	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.	Dr. Praveen Tammana	Assistant Professor, Dept. of CSE, IIT Hyderabad	Subject Expert

Minutes:

1. The Chairperson welcomed the BoS members and briefed them about the Institute Vision, Mission, Department Vision and Mission, PSO, and PEOs of the program. Introduced the new members of the BOS as it was reconstituted.

The Committee has resolved the following modifications.

2. **Confirmation of the minutes of the BOS meeting held on 12-05-2023.**

Minutes of the BOS meeting held on **12-05-2023** were confirmed.

3. **Approval for UG-R22-Scheme and UG-R22A-Scheme.**

Chairperson, BOS presented the Schema of UG-R22-V to VIII Semesters and UG-R22A-I to IV Semesters. Members approved the same.

4. **Approval of Syllabus for BE CSE R22 – V to VIII Semesters.**

Chairperson, BOS presented the Syllabus of UG-R22-V to VIII Semesters.

- a. Industry Expert, Sri. M. Venkata Rao suggested to introduce programs on Project Configuration Management Tools and AWS Azure in Case Tools Lab. He opined that students from CBIT are attending Internships in these areas.
- b. Sri. Akash Sinha enquired whether the Units, in theory, are mapped to the Lab experiments. The Chairperson informed that the mapping is done as per the Units.

- c. Dr. S. Nagender Kumar, Expert from Academics, advised to include the concepts of Pertnets and other methodologies/ metrics. He also opined to include test cases as part of the Case Tools Lab.
- d. Sri. M. Venkata Rao advised to give different case studies as part of the case study lab. The Chairperson informed that problem statements are collected through the Community Engagement course and from Industry Professionals. The same will be given to students as case studies. Mr. Venkata Rao suggested to get real-time problems from Start-Ups.
- e. Prof. China Ramu presented the structure for the V Semester and informed that the structure has 5 theory and 3 Labs courses. Prof. M. Venkat Dass opined to include Lab for the DAA course.
- f. Prof. Suresh Lokhande advised to include the latest editions of the suggested books for the DAA course.
- g. Mr. Akash Sinha suggested including dynamic programming concepts like String Matching and Brute Force Techniques in the DAA course.
- h. Dr. S. Nagender Kumar enquired about the weightage distribution for CG and Multimedia. Dr. K. Spandana, CEG Convener informed that three units are prepared for CG and two for Multimedia. He further advised to include the concepts of AR and VR. Members were informed that the AR & VR course is offered as a Professional Elective.
- i. Sri. Akash Sinha enquired about the Lab for CG & Multimedia.
- j. Industry Experts, Sri. Srikanth Srinivasan and Sri. M. Venkata Rao suggested to have a semester-long internship. The chairperson informed that two internships are included in the curriculum.
- k. Prof. China Ramu presented VI Semester and informed that Artificial Intelligence & Machine Learning theory and Lab are introduced.
- l. Dr. S. Nagender Kumar advised to have the latest edition of textbooks for the Nature Inspired Algorithm course.
- m. Dr. S. Nagender Kumar suggested to add the designing concepts in Unit IV, and also include concepts of AR & VR in the User Interface & User Design Experience course.
- n. Dr. S. Nagender Kumar advised to change the title of the course Front End Technologies as the syllabus contributes to both front-end and back-end concepts. He further suggested to include hands-on Google Cloud functions and Serverless functions in the Lab.

- o. Prof. Suresh Lokhande suggested to reduce the content in Unit V of the course Information and Network Security, as it was huge.
- p. Dr. S. Nagender Kumar suggested to include hands-on the concepts of Kali Linux, and Cybersecurity tools in the Information and Network Security Lab course.
- q. Prof. Suresh Lokhande advised to include Network Security related experiments in the Information and Network Security Lab course. And also enquired about the conduction of experiments.

5. Approval of Syllabus for BE CSE R22A – I to IV Semesters.

- a. The Chairperson presented the syllabus for R22A and informed that the Problem Solving and Programming using C is included in the structure in the I Semester as per the recommendation of the Career Development Cell. He also informed the members of the inclusion of Data Structures with C++ in the II Semester and Java Programming course in the III Semester.
- b. Prof. M. Venkat Dass opined to change the title of the course Python Programming Lab to Python Programming Workshop. He suggested including the concepts of DAA as hands-on in the lab.
- c. Prof. M. Venkat Dass opined to change the title of the course Latex Lab to Latex Workshop.

6. Presented Open Electives and Common Courses Syllabus

- a. Dr. S. Nagender Kumar suggested to include Jason Content in Unit II of the open elective course, Introduction to Web Technologies.
- b. Sri M. Nagarjuna Reddy, Sri Rahul Katikineni, and Sri Srinadh Bodepudi suggested to include React JS and Type Script Basics in the open elective course, Introduction to Web Technologies.
- c. Dr. S. Nagender Kumar suggested removing Normalization concepts and adding Unstructured Database concepts in the open elective course, Introduction to Database Management Systems. \
- d. Dr. S. Nagender Kumar suggested having programs on File handling functions in the C Programming Lab.

7. Any other item with the permission of the Chair

As there were no other items to discuss, the meeting was concluded with a vote of thanks by the Chairperson.


Chairperson, BOS, CSE Dept.



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45
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**Scheme of Instruction
of
I - VIII SEMESTERS
of
FOUR YEAR DEGREE COURSE
in
BE-COMPUTER SCIENCE AND ENGINEERING
(Inline with AICTE Model Curriculum with effect from AY 2022-23)**

R-22 Regulation



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 (Inline with AICTE Model Curriculum with effect from AY 2022-23)
(R22 Regulation)
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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(R22 Regulation)
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	-	-	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	-	-	2	-	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	11	-	460	390	21

L: Lecture T: Tutorial P: Practical CIE: Continuous Internal Evaluation SEE-Semester End 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	2	1	-	3	40	60	3
5.	22EGM01	Indian Constitution And Fundamental Principles	2	-	-	2	-	50	Non Credit
PRACTICALS									
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	-	3	50	50	1
10.	22CSI01	Internship – I	-	-	-	-	50	50	2
11.		Extra Academic Activities (EEA) -3	-	-	3	-	-	-	Non Credit
Total			12	4	10	-	410	540	19.5

L: Lecture
T: Tutorial

D: Drawing
P: Practical / Project Seminar / Dissertation

CIE: Continuous Internal Evaluation
SEE: Semester End Examination



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)
SCHEME OF INSTRUCTIONS AND EXAMINATION

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(R22A Regulation)

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	2	1	-	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
PRACTICALS									
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	-	-	-	-
10.	22CSU01	Upskill Certification Course-II	-	-	-	-	25	-	0.5
Total			14	6	9	-	365	460	23.5

L: Lecture
T: Tutorial

D: Drawing
P: Practical / Project Seminar / Dissertation

CIE: Continuous Internal Evaluation
SEE: Semester End Examination



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)
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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.	22ITC10	Computer Networks	3	-	-	3	40	60	3
2.	22CSC15N	Operating Systems	3	-	-	3	40	60	3
3.	22CSC21	Software Engineering	3	-	-	3	40	60	3
4.	22CSC14N	Design and Analysis of Algorithms	3	-	-	3	40	60	3
5.	22CSEXX	Professional Elective Course-I	3	-	-	3	40	60	3
6.	22XXXXX	Open Elective Course - I	3	-	-	3	40	60	3
PRACTICAL									
7.	22ITC11	Computer Networks Lab	-	-	2	3	50	50	1
8.	22CSC18N	Operating Systems Lab	-	-	2	3	50	50	1
9.	22CSC23	Case Tools Lab	-	-	2	3	50	50	1
10.	22CSI02	Industrial / Rural Internship	3 to 4 weeks / 90 Hours			-	50	-	2
Total			18	-	6	-	440	510	23

L: Lecture

T: Tutorial

P: Practical

CIE: Continuous Internal Evaluation

SEE: Semester End Examination

Professional Elective – I	
22ADE12	Big Data Analytics
22CAE17	Image Processing
22CSE01	Computer Graphics and Multimedia
22CSE02	Microprocessors and Microcontrollers
22CSE03	Optimization Techniques

Open Elective - I	
22CEO02	Disaster Risk Reduction and Management
22MEO06	Principles of Entrepreneurship and Startups
22ECO05	Principles of Embedded Systems
22BTO01	Biology For Engineers
22CHO04	Environmental and Sustainable Development



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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.	22CSC24	Compiler Design	3	-	-	3	40	60	3
2.	22CAC13	Artificial Intelligence & Machine Learning	3	1	-	3	40	60	4
3.	22MEC36	Fundamentals of Design Thinking	2	-	-	3	40	60	2
4.	22CSEXX	Professional Elective Course-II	3	-	-	3	40	60	3
5.	22CSEXX	Professional Elective Course-III	3	-	-	3	40	60	3
6.	22MBC01	Engineering Economics and Accountancy	3	-	-	3	40	60	3
PRACTICAL									
7.	22CSC25	Compiler Design Lab	-	-	2	3	50	50	1
8.	22CAC14	Artificial Intelligence & Machine Learning Lab	-	-	2	3	50	50	1
9.	22CSC26	Mini Project	-	-	4	-	50	-	2
10.	22CSV02	Product Management Essentials	-	1	-	-	50	-	0.5
11.	22CSU02	Upskill Certification Course-II	-			-	25	-	0.5
TOTAL			17	2	8	-	465	460	23

L: Lecture

T: Tutorial

P: Practical

CIE: Continuous Internal Evaluation

SEE: Semester End Examination

Professional Elective-II	
22CSE04	Concurrent Programming
22CSE05	Advanced Database Management Systems
22CSE06	Algorithmic Game Theory
22CIE51	Industrial Internet of Things Systems
22CSE07	Nature Inspired Algorithms

Professional Elective-III	
22ADE06	Explanatory Data Analysis and Visualization
22ITE04	Mobile Application Development
22CSE08	User Interface and User Experience Design
22CIE15	Extended Reality
22CSE09	High Performance Computing



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)
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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.	22CAC04	Deep Learning	3	-	-	3	40	60	3
2.	22CSC27	Information and Network Security	3	1	-	3	40	60	4
3.	22EEM01	Universal Human Values-II: Understanding Harmony	-	1	-	-	50	-	1
4.	22CSEXX	Professional Elective Course - IV	3	-	-	3	40	60	3
5.	22CSEXX	Professional Elective Course -V	3	-	-	3	40	60	3
6.	22XXXXX	Open Elective Course-II	3	-	-	3	40	60	3
PRACTICAL									
7.	22CSC28	Information and Network Security Lab	-	-	2	3	50	50	1
8.	22CSEXX	Professional Elective - V Lab	-	-	2	3	50	50	1
9.	22CSC37	Project Part-I	-	-	4	-	50	-	2
TOTAL			15	2	8	-	400	400	21

L: Lecture

T: Tutorial

P: Practical

CIE: Continuous Internal Evaluation

SEE-Semester End Examination

Professional Elective -IV	
22CAE08	Reinforcement Learning
22CSE10	Software Project Management
22CIE55	Cyber Security
22ITE07	Cloud Computing
22ADE32	Social Network Analytics

Open Elective - II	
22EEO01	Energy Management System
22MEO02	3D Printing
22EGO02	Gender Sensitization
22BTO04	Bioinformatics
22CAO02	Ethical Intelligence

Professional Elective -V	
22CAE19	Natural Language Processing
22CSE11	Client End Technologies
22CIE53	Blockchain Technology
22ITE11	Devops Tools
22ADE14	Generative AI

Professional Elective -V Lab	
22CAE20	Natural Language Processing Lab
22CSE12	Client End Technologies Lab
22CIE54	Blockchain Technology Lab
22ITE12	Devops Tools Lab
22ADE15	Generative AI Lab



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)
SCHEME OF INSTRUCTIONS AND EXAMINATION

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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.	22EGC03	Employability Skills	-	-	2	3	50	50	1
2.	22CEM01	Environmental Science	2	-	-	2	-	50	Non Credit
3.	22XXXXX	Open Elective Course-III	3	-	-	3	40	60	3
PRACTICAL									
4.	22CSC38	Technical Seminar	-	-	2	-	50	-	1
5.	22CSC39	Project Part-II	-	-	8	-	100	100	4
TOTAL			5	-	12	-	240	260	9

L: Lecture

T: Tutorial

P: Practical

CIE: Continuous Internal Evaluation

SEE-Semester End Examination

Open Elective -III	
22CEO01	Infrastructure for Smart Cities
22EEO06	Waste Management
22EGO01	Technical Writing Skills
22CHO02	Fundamentals of Nano Science and Nano Technology
22ADO01	Industry 5.0: Applications of AI