

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)
DEPARTMENT OF COMPUTER ENGINEERING AND TECHNOLOGY

MINUTES OF BOS MEETING

Department of CET has conducted BoS meeting (online mode) on 12-05-2023 at 6:30 PM.

Agenda:

1. Introduction of BoS members.
2. R22 Scheme for III, IV, V, VI, VII and VIII semesters.
3. Approval of R22 scheme and syllabus of III and IV semesters.

The following members were present:

S.No.	Name	Organization	Designation
1.	Prof. M. Subramaniam	Head, CET Dept., CBIT	Chairperson
2.	Mr. Kannan Srinathan	Assistant Professor, IIIT Hyderabad	Expert from University
3.	Dr. K. Shyamala	Prof. & Head, CSE Dept., OU	Expert from University
4.	Mr. Ravi Gottipatti	Data Solution Architect and Principal Data Scientist, SARAS Analytics	Alumni
5.	Mr. Akash Sinha	Head, Leading and Development, L4G, Hyderabad	Expert from Industry
6.	Prof. N. Ramadevi	Professor, CET Dept., CBIT	Member
7.	Dr. Sangeeta Gupta	Associate Professor, CSE Dept., CBIT	Member
8.	Ms. P. Vimala Manohara Ruth	Assistant Professor, CET Dept., CBIT	Member
9.	Prof. Y. Ramadevi	Professor, CSE(AIML) Dept., CBIT	Member
10.	Ms. Kavita Agrawal	Assistant Professor, CET Dept., CBIT	Member
11.	Ms. G. Mamatha	Assistant Professor, CET Dept., CBIT	Member
12.	Dr. G. Jaya Rao	Assistant Professor, CET Dept., CBIT	Member
13.	Mr. P. Narasimhulu	Assistant Professor, CET Dept., CBIT	Member
14.	Mr. M.V. Krishna Reddy	Assistant Professor, CSE Dept., CBIT	Member

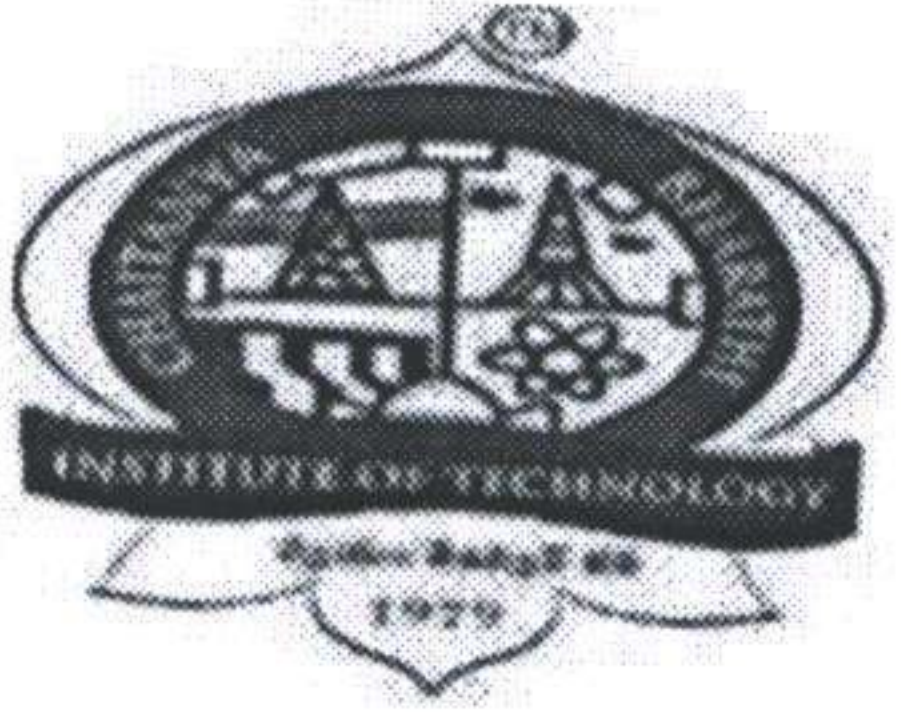
1. The Chairperson welcomed BoS members.
2. R22 Scheme for III, IV, V, VI, VII and VIII semesters were presented.
3. R22 syllabus of III and IV semesters were discussed. The committee has suggested the following modifications:
 1. Include computer vision subject in track-3 professional electives.
 2. They suggested to have Data Structures course and Design and Analysis of Algorithms course along with lab separately.
 3. BoS Chairperson agreed for the same, and said that when we combine Data structures and DAA subjects, we will have a space to accommodate core course related to the program, hence Fundamentals of IoT system design and development has been introduced in IV semester, in the place of separate course of DAA, Finally BoS committee agreed for the same and after discussing the syllabus they approve the same.
 4. Include the problems mentioned in the 5th unit of fundamentals of IoT-design and development into basic electronics and sensors lab.
 5. Include machine learning, cloud platform and edge computing in IoT in 5th unit of fundamentals of IoT-design and development syllabus.
 6. Use either python or Java programming for implementing data structures and algorithms lab.
 7. Add algorithms for storage-based solutions, communications using stack and trees, etc. into IIoT development and Practices syllabus.
 8. Include categorization of tools such as security management, security monitoring, incident response, auditing, vulnerability, etc. into fundamentals of cyber security and tools syllabus.



(Prof. M. Subramaniam)

Chairperson

Head of the Department
Dept. of Computer Engineering and Technology.
CBIT (A), Gandipet, Hyderabad-500 075.



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

(AUTONOMOUS)

Department of Computer Engineering and Technology
Scheme of Instructions B.E. –CSE (IoT & Cyber Security including Block Chain Technology) As per AICTE Model Curriculum 2022-23

Model Curriculum(R-22) 2022-23

SEMESTER – I

S. No	Course Code	Title of the Course	Scheme of Instruction			Scheme of Examination			Credits
			Hours per Week			Duration of SEE in Hrs	Maximum Marks		
			L	T	P/D		CIE	SEE	
THEORY									
1	22MTC01	Linear Algebra and Calculus	3	1	-	3	40	60	4
2	22PYC01	Optics and Semiconductor Physics	3	0	-	3	40	60	3
3	22CSC01	Problem Solving and Programming	2	1	-	3	40	60	3
4	22EGC01	English	2	0	-	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 D: Drawing
P: Practical CIE - Continuous Internal Evaluation SEE - Semester End Exam

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Model Curriculum(R-22) 2022-23

SEMESTER -II

S. No	Course Code	Title of the Course	Scheme of Instruction			Scheme of Examination			Credits
			Hours per Week			Duration of SEE in Hrs	Maximum Marks		
			L	T	P/D		CIE	SEE	
THEORY									
1	22MTC04	Differential Equations and 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 & Drones Lab	-	2	2	-	100	-	3
9	22EEC02	Basic Electrical Engineering Lab	-	-	2	3	50	50	1
TOTAL			10	5	12	-	460	390	21

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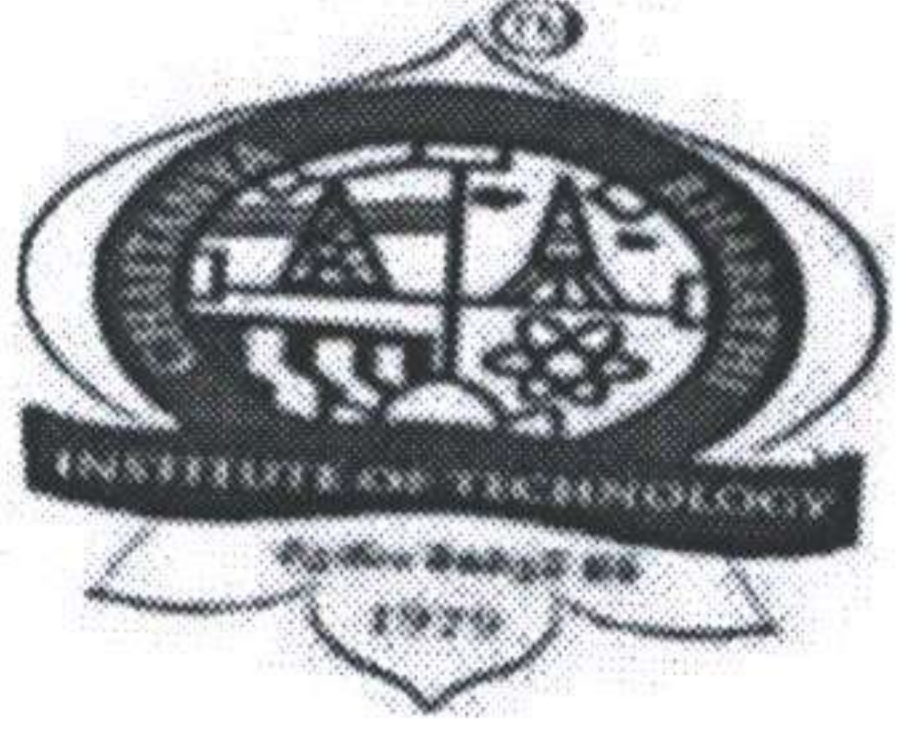
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Model Curriculum(R-22) 2023-24
SEMESTER -III

S. No	Course Code	Title of the Course	Scheme of Instruction			Scheme of Examination			Credits
			Hours per Week			Duration of SEE in Hrs	Maximum Marks		
			L	T	P/D		CIE	SEE	
THEORY									
1	22CSC11	Data Base Management Systems	3	-	-	3	40	60	3
2	22CSC20	Computer Networks	3	-	-	3	40	60	3
3	22CSC05	Data Structures	3	-	-	3	40	60	3
4	22CSC32	Discrete Mathematics	3	-	-	3	40	60	3
5	22ITC01	Digital Logic and Computer Architecture	3	-	-	3	40	60	3
6	22CIC01	Fundamentals of Cyber Security and Tools	2	-	-	3	40	60	2
PRACTICAL									
7	22CSC33	Data Base Management Systems Lab	-	-	2	3	50	50	1
8	22CSC37	Networks Lab	-	-	2	3	50	50	1
9	22CSC31	Data Structures Lab	-	-	2	3	50	50	1
10	22CIC02	Fundamentals of Cyber Security and Tools Lab	-	-	2	3	50	50	1
11	22INT01	MOOCs / Training / Internship	-	-	3-4 Weeks 90 Hours		50	-	2
12	22ACT	Activity Points	-	-	-	-	-	-	-
TOTAL			17	-	8	-	490	560	23

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SEE - Semester End Exam


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Model Curriculum(R-22) 2023-24

SEMESTER -IV

S. No	Course Code	Title of the Course	Scheme of Instruction			Scheme of Examination			Credits
			Hours per Week			Duration of SEE in Hrs	Maximum Marks		
			L	T	P/D		CIE	SEE	
THEORY									
1	22MTC13	Mathematical Foundation for Data Science and Security	3	-	-	3	40	60	3
2	22CSC14	Design and Analysis of Algorithms	3	-	-	3	40	60	3
3	22ECC36	Basic Electronics and Sensors	3	-	-	3	40	60	3
4	22ITC17	Web Technologies	3	-	-	3	40	60	3
5	22CIC03	AI Tools, Techniques and Applications	2	1	-	3	40	60	3
6	22MBC01	Engineering Economics and Accountancy	3	-	-	3	40	60	3
PRACTICAL									
7	22CIC04	AI Tools, Techniques and Applications Lab	-	-	2	3	50	50	1
8	22CSC34	Design and Analysis of Algorithms Lab	-	-	2	3	50	50	1
9	22ITC19	Internet Technologies Lab	-	-	2	3	50	50	1
10	22ECC37	Basic Electronics and Sensors Lab	-	-	2	3	50	50	1
11	22CICU01	Upskill Certification course – I	-	-	-	-	25	-	0.5
12	22ACT	Activity Points	-	-	-	-	-	-	-
TOTAL			17	1	8	30	465	560	22.5

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Model Curriculum(R-22) 2024-25

SEMESTER -V

S. No	Course Code	Title of the Course	Scheme of Instruction			Scheme of Examination			Credits
			Hours per Week			Duration of SEE in Hrs	Maximum Marks		
			L	T	P/D		CIE	SEE	
THEORY									
1	22CIC05	Blockchain Technology	3	-	-	3	40	60	3
2	22CIC06	Cyber Threat Intelligence	3	-	-	3	40	60	3
3	22CIC07	Industrial Internet of Things Systems	3	-	-	3	40	60	3
4	22CIC09	Cryptography and Network Security	3	-	-	3	40	60	3
5	22CSC15N	Operating Systems	3	-	-	3	40	60	3
6		Professional Elective – I	3	-	-	3	40	60	3
PRACTICAL									
7	22CSC18N	Operating Systems Lab	-	-	2	3	50	50	1
8	22CIC08	Industrial Internet of Things Systems Lab	-	-	2	3	50	50	1
9	22CIC10	Cryptography and Network Security Lab	-	-	2	3	50	50	1
10		Professional Elective – I			2	3	50	50	1
	22CII02	Internship-II (Industrial/ Rural Internship)	3-4 weeks / 90 hours			-	50	-	2
TOTAL			18	-	8	-	490	560	24

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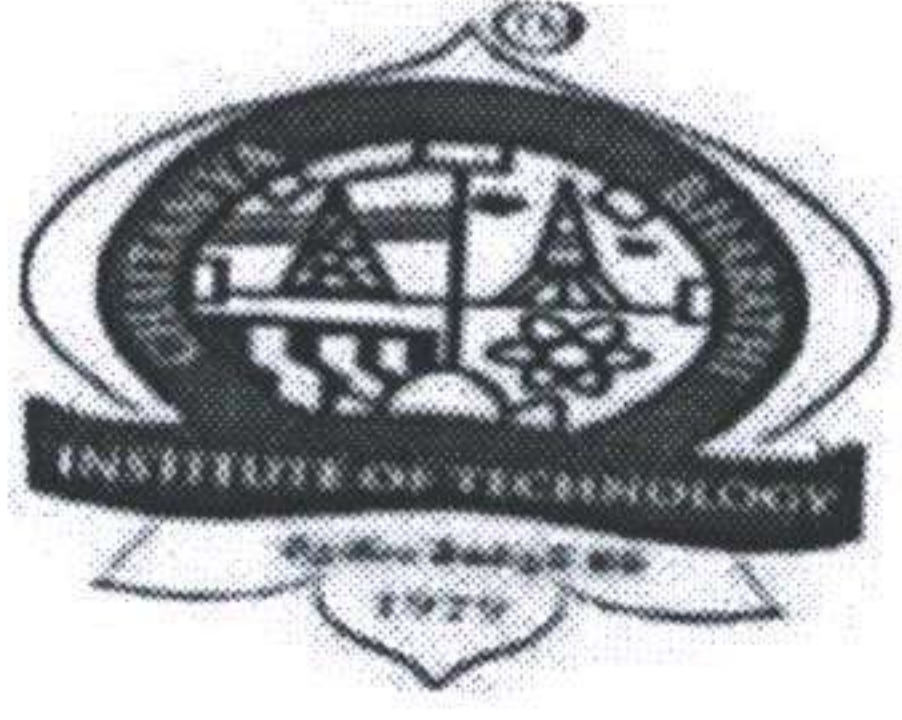
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Professional Elective - I

S.NO	THEORY	
	Course Code	Course
1	22CIE01	OOPS through Java
2	22CIE03	Digital Forensics
3	22CAE12	Artificial Intelligence and Machine Learning
4	22ITE04	Mobile Application Development
5	22CIE05	Distributed Systems
	LAB	
	Course Code	Course
1	22CIE02	OOPS through Java Lab
2	22CIE04	Digital Forensics Lab
3	22CAE13	Artificial Intelligence and Machine Learning Lab
4	22ITE21	Mobile Application Development Lab
5	22CIE06	Distributed Systems Lab


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Model Curriculum(R-22) 2024-25

SEMESTER -VI

S. No	Course Code	Title of the Course	Scheme of Instruction			Scheme of Examination			Credits
			Hours per Week			Duration of SEE in Hrs	Maximum Marks		
			L	T	P/D		CIE	SEE	
THEORY									
1	22CIC11	Mobile Security	3	-	-	3	40	60	3
2	22CSE21	Software Engineering	3	-	-	3	40	60	3
3	22CIC13	Design and Development of Blockchain Applications	3	-	-	3	40	60	3
4		Professional Elective – II	3	-	-	3	40	60	3
5		Open Elective-I	3	-	-	3	40	60	3
6	22EEM01	Universal Human Values-II : Understanding Harmony	2	-	-	3	40	60	1
PRACTICAL									
7	22CIC12	Mobile Security Lab	-	-	2	3	50	50	1
8	22CIC14	Design and Development of Blockchain Applications Lab	-	-	2	3	50	50	1
9		Professional Elective – II Lab	-	-	2	3	50	50	1
10	22EGC03	Employability Skills	-	-	2	2	50	50	1
11	22CICU02	Upskill Certification course – II	-	-	-	-	25	-	0.5
TOTAL			17	00	08	-	465	560	20.5

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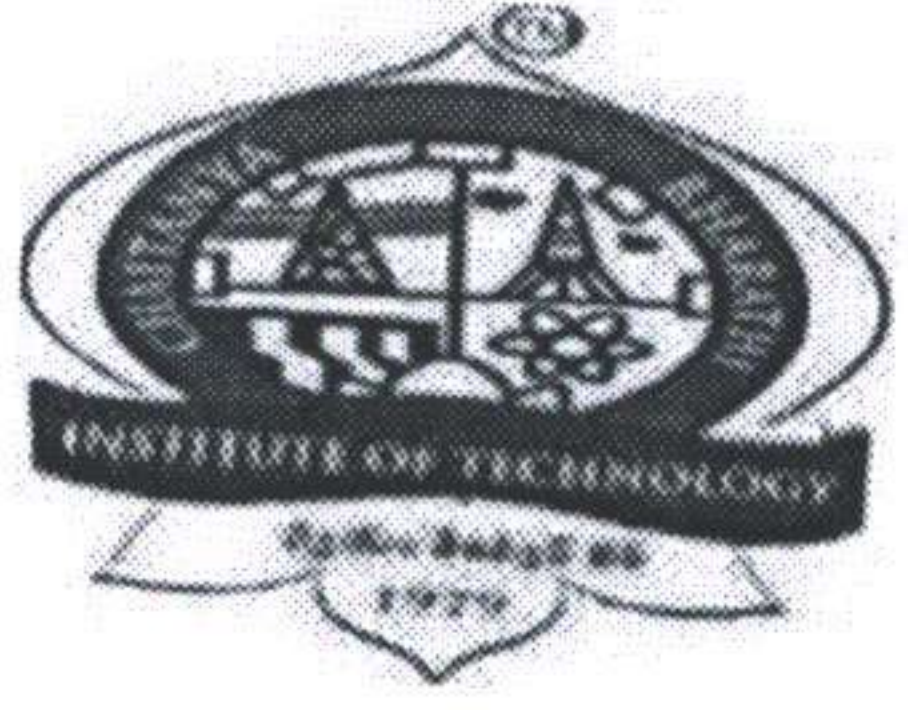
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Professional Elective – II

S.NO	THEORY	
	Course Code	Course
1	22ITE18	Enterprise application Development
2	22CIE07	Ethical Hacking
3	22CAE16	Deep Learning
4	22CIE09	Sensor Technology and Applications
5	22ITE07	Cloud computing
LAB		
	Course Code	Course
1	22ITE19	Enterprise application Development Lab
2	22CIE08	Ethical Hacking Lab
3	22CAE23	Deep Learning Lab
4	22CIE10	Sensor Technology and Applications Lab
5	22ITE08	Cloud computing Lab

List of Open Electives

Course Code	Course Name	
22ECO02	Remote Sensing and GIS	ODD/EVEN
22ECO03	Fundamentals of Wireless Communications	ODD/EVEN
22ECO05	Principles of Embedded Systems	ODD/EVEN
22EGO01	Technical Writing Skills	ODD/EVEN
22CEO01	Infrastructure for Smart Cities	ODD
22CEO02	Disaster Risk Reduction and Management	ODD
22EEO01	Energy Management System	ODD/EVEN
22EEO06	Waste Management	ODD/EVEN
22BTO05	Cognitive Neuroscience	ODD/EVEN
22CHO02	Fundamentals of Nano Science and Nano Technology	ODD/EVEN
22CHO03	Industrial Pollution Control	ODD/EVEN
22CHO04	Environmental and Sustainable Development	EVEN
22MEO02	3D Printing	ODD/EVEN
22MEO03	Corporate Organizational Behavior	ODD/EVEN
22MEO05	Research Methodologies and Innovation	ODD/EVEN
22MEO06	Principles of Entrepreneurships and Startups	ODD/EVEN



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Model Curriculum(R-22) 2025-26

SEMESTER -VII

S. No	Course Code	Title of the Course	Scheme of Instruction			Scheme of Examination			Credits
			Hours per Week			Duration of SEE in Hrs	Maximum Marks		
			L	T	P/D		CIE	SEE	
THEORY									
1	22CIC15	Cyber Security	3	-	-	3	40	60	3
2		Professional Elective-III	3	-	-	3	40	60	3
3		Professional Elective-IV	3	-	-	3	40	60	3
4		Open Elective-II	3	-	-	3	40	60	3
5	22EGM01	Indian Constitution and Fundamental Principles	2	-	-	2	-	50	No Credit
PRACTICAL									
7	22CIC16	Cyber Security Lab	-	-	2	3	50	50	1
8		Professional Elective-III Lab	-	-	2	3	50	50	1
9	22CIC17	Technical Seminar	-	-	2	-	50	-	1
10	22CIC18	Project Part - 1	-	-	4	-	50	-	2
11	22CIC19	Internship - III	3-4 weeks / 90 hours			-	50	-	2
TOTAL			14	-	10	-	410	390	19

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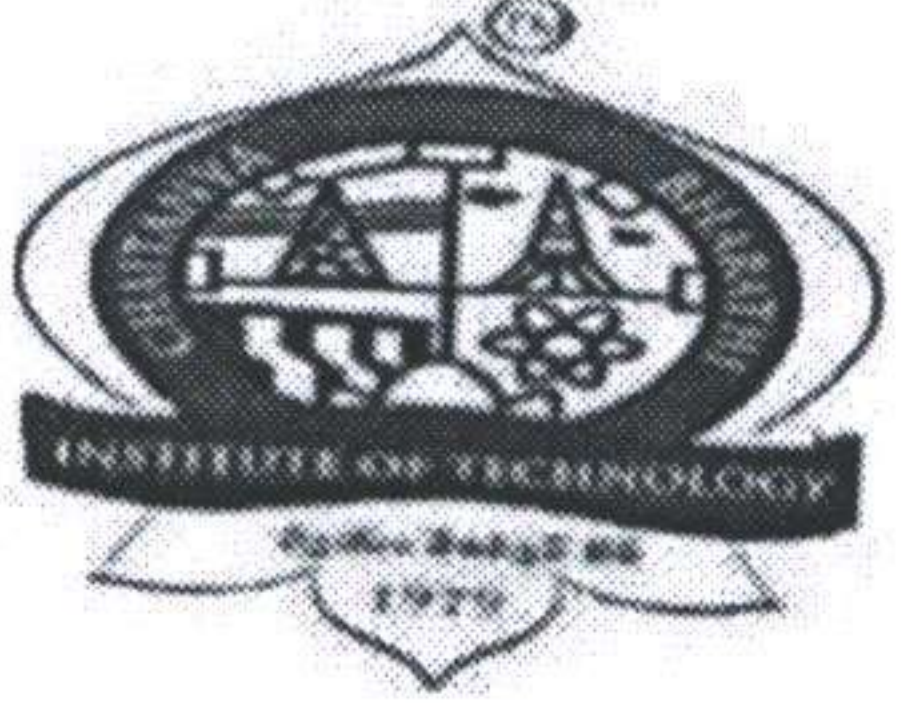
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S.NO	Professional Elective - III		Professional Elective - IV	
	THEORY		THEORY	
	Course Code	Course Name	Course Code	Course Name
1	22CIE11	Writing Secure Code	22CIE13	3D Modelling and Animation
2	22ADE32	Social Network Analytics	22CIE18	Social Engineering
3	22ADE14	Generative AI	22CAE19	Natural Language Processing
4	22CAE17	Image Processing	22CIE14	Robotic process and Automation
5	22ADE06	Exploratory Data Analytics and Visualization	22CSE14	Software Defined Networks
	LAB			
	Course Code	Course Name		
1	22CIE12	Writing Secure Code Lab		
2	22ADE34	Social Network Analytics Lab		
3	22ADE15	Generative AI Lab		
4	22CAE18	Image Processing Lab		
5	22ADE07	Exploratory Data Analytics and Visualization Lab		

List of Open Electives

Course Code	Course Name	
22ECO02	Remote Sensing and GIS	
22ECO03	Fundamentals of Wireless Communications	ODD/EVEN
22ECO05	Principles of Embedded Systems	ODD/EVEN
22EGO01	Technical Writing Skills	ODD/EVEN
22CEO01	Infrastructure for Smart Cities	ODD/EVEN
22CEO02	Disaster Risk Reduction and Management	ODD
22EEO01	Energy Management System	ODD
22EEO06	Waste Management	ODD/EVEN
22BTO05	Cognitive Neuroscience	ODD/EVEN
22CHO02	Fundamentals of Nano Science and Nano Technology	ODD/EVEN
22CHO03	Industrial Pollution Control	ODD/EVEN
22CHO04	Environmental and Sustainable Development	ODD/EVEN
22MEO02	3D Printing	EVEN
22MEO03	Corporate Organizational Behavior	ODD/EVEN
22MEO05	Research Methodologies and Innovation	ODD/EVEN
22MEO06	Principles of Entrepreneurships and Startups	ODD/EVEN



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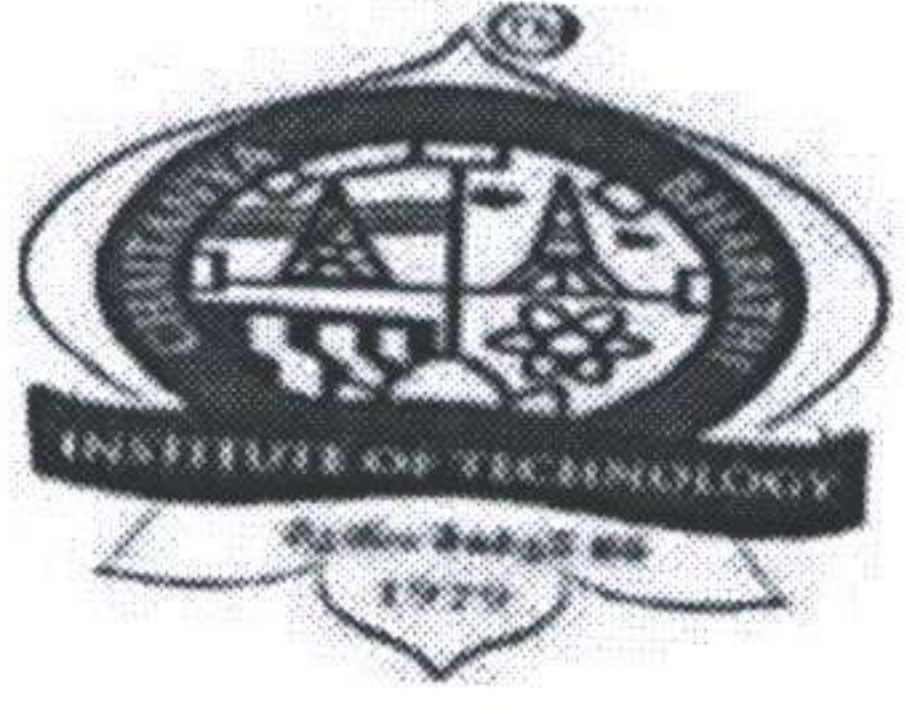
Model Curriculum(R-22) 2025-26

SEMESTER -VIII

S. No	Course Code	Title of the Course	Scheme of Instruction			Scheme of Examination			Credits
			Hours per Week			Duration of SEE in Hrs	Maximum Marks		
			L	T	P/D		CIE	SEE	
THEORY									
1		Professional Elective-V	3	-	-	3	40	60	3
2		Open Elective-III	3	-	-	3	40	60	3
3	22CEM01	Environmental Science	2	-	-	2	-	50	No Credits
PRACTICAL									
4	22CIC20	Project Part – 2	0	0	8	-	100	100	4
TOTAL			8	-	8	-	180	270	10

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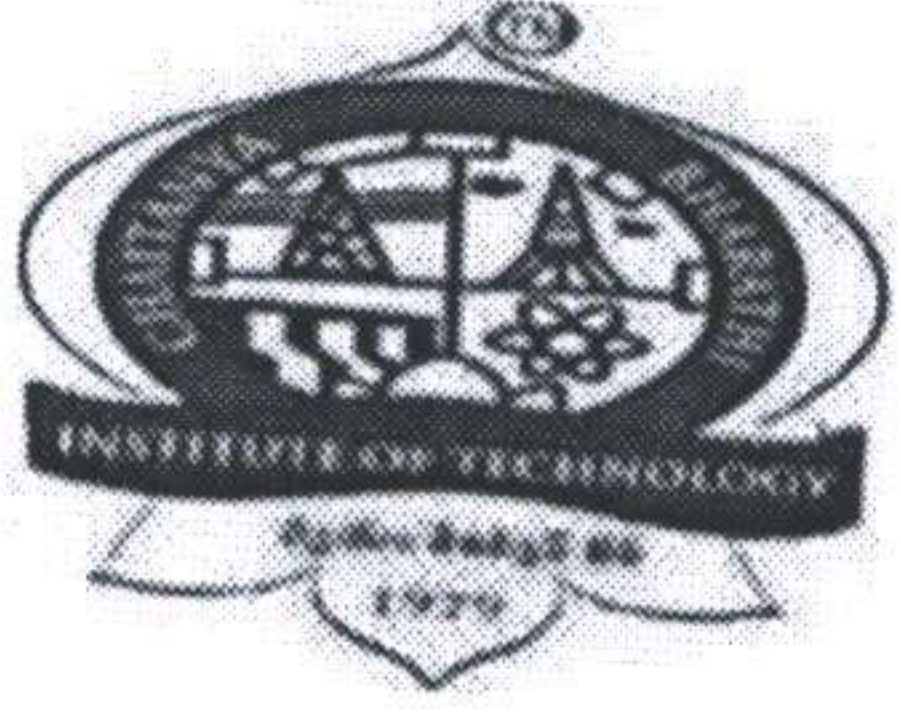
Professional Elective – V

S.NO	THEORY	
	Course Code	Course
1	22CIE15	Extended Reality
2	22CIE16	Emerging Threats and Defenses
3	22ADE29	Computer vision
4	22CSE13	Human Computer Interaction
5	22CSE08	User Interface and User Experience Design

List of Open Electives

Course Code	Course Name	
22ECO02	Remote Sensing and GIS	ODD/EVEN
22ECO03	Fundamentals of Wireless Communications	ODD/EVEN
22ECO05	Principles of Embedded Systems	ODD/EVEN
22EGO01	Technical Writing Skills	ODD/EVEN
22CEO01	Infrastructure for Smart Cities	ODD
22CEO02	Disaster Risk Reduction and Management	ODD
22EEO01	Energy Management System	ODD/EVEN
22EEO06	Waste Management	ODD/EVEN
22BTO05	Cognitive Neuroscience	ODD/EVEN
22CHO02	Fundamentals of Nano Science and Nano Technology	ODD/EVEN
22CHO03	Industrial Pollution Control	ODD/EVEN
22CHO04	Environmental and Sustainable Development	EVEN
22MEO02	3D Printing	ODD/EVEN
22MEO03	Corporate Organizational Behavior	ODD/EVEN
22MEO05	Research Methodologies and Innovation	ODD/EVEN
22MEO06	Principles of Entrepreneurships and Startups	ODD/EVEN


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List of Open Electives offered to other departments

S.NO	ODD SEMESTER		EVEN SEMESTER	
	THEORY		THEORY	
	Course Code	Course Name	Course Code	Course Name
1	22CIO01	Fundamentals of Internet of Things	22CIO02	Fundamentals of Blockchain Technology
2	22CIO03	Basics of Cybersecurity	22CIO04	Fundamentals of AR and VR

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