



TKR COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

(Sponsored by TKR Educational Society, Approved by AICTE, Affiliated by JNTUH,
Accredited by NBA & NAAC with 'A' Grade)



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

MINUTES OF BOS MEETING

The 7th Meeting of the **Board of Studies (BoS)** of the department of Computer Science and Engineering was held on **23-06-2022 at 10:00 A.M.**

MEMBERS OF BOS:

S. No	Member	Designation	Position in the BOS	Signature
1	Dr M Narendra	Professor, Dept. of CSE, TKRCET	Chairman, BOS	
2	Dr.A Suresh Rao	Professor, Dean Academics & Vice Principal, TKRCET	HOD-CSE	23/6/22
3	Dr. G Venkata Rami Reddy	Professor, SIT JNTUH, Hyderabad	JNTUH Nominee	
4	Prof.R.B.V. Subramaanyam	Professor, Dept. of CSE, NIT Warangal	External Subject Expert-I	
5	Dr.M.A. Hameed	Professor, Dept. of CSE, OU Hyderabad	External Subject Expert-II	
6	Dr.V. Sree Kumar	Principal Investigator Infosys Pvt. Ltd.	Industry Expert	
7	Dr V Krishna	Professor, Dept. of CSE, TKRCET	Internal Subject Expert-I	
8	Dr KSR Radhika	Professor, Dept. of CSE, TKRCET	Internal Subject Expert-II	
9	Dr. Ch B N Lakshmi	Professor, Dept. of CSE, TKRCET	Internal Subject Expert-III	

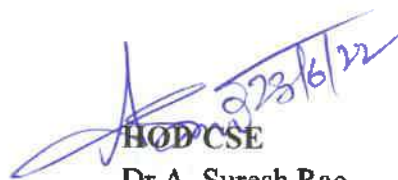
Agenda Points:

- 1) Revision of Course Structure / Reason for change in Course structure
- 2) Approval of I, II, III, IV of R22 Course Structure
- 3) Approval of Mandatory courses
- 4) Syllabus changes from R20 to R22.
- 5) Approval of Continuous Internal Evaluation and External Evaluation
- 6) Ratification of VISION, MISSION, PEOs, PSOs
- 7) Substituted subjects for Readmitted students
- 8) Identification of Value Added Courses
- 9) Action Taken Report and Approval of DAB and PAC Minutes
- 10) Identification of Workshops and guest lectures
- 11) Approval of teaching methods
- 12) Approval of tools used in teaching and learning process to assess course outcomes
- 13) Justification of PEOs with Mission of the Department (R22 Regulation)
- 14) Approval of M. Tech Course Structure and Detailing of Syllabus - R22
- 15) Other points if any

Chairman BOS

Dr M Narendar

Signature: 


HOD/CSE

Dr A. Suresh Rao

Signature:

University Nominee

Dr. G Venkata Rami Reddy

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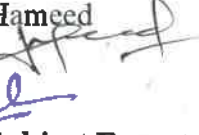
External Subject Expert-I

Prof. R. B.V Subramanyam

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Dr V. Sree Kumar

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Internal Subject Expert-I

Dr V Krishna

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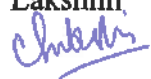
Internal Subject Expert-II

Dr KSR Radhika

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Internal Subject Expert-III

Dr. Ch B N Lakshmi

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Agenda 1: Revision of Course Structure / Reason for change in Course structure:

Resolution:

The Board reviewed the proposed revision of the course structure from R20 to R22 regulations and discussed the rationale for the change, which included updating curriculum content, aligning with emerging industry trends, improving student employability, and incorporating advanced technologies. After careful consideration, the Board unanimously approved the revised course structure under R22 regulations and recommended its implementation from the forthcoming academic year.

Discussion:

The BOS Chairman highlighted the necessity for revising the course structure, explaining that the updates are aimed at aligning the curriculum with current industry trends, emerging technologies, and academic advancements. The revision also seeks to enhance student employability, ensure relevance of course content, and incorporate feedback from stakeholders to improve overall learning outcomes.

Agenda 2: Approval of R22 course structure

Resolution:

The Board reviewed the **proposed R22 course structure** for all B.Tech programs, considering the updated curriculum, academic requirements, and industry relevance. After detailed discussion and examination, the Board unanimously **approved the proposed R22 course structure** for implementation from the upcoming academic year.

Discussion:

The proposed course structure has been derived from the regulations framed by AICTE, UGC and the affiliating University (JNTUH) guidelines. The Course structure is framed to cater the

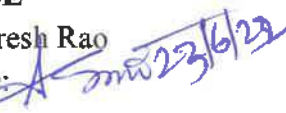
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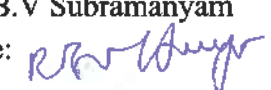
University Nominee

Dr. G Venkata Rami Reddy

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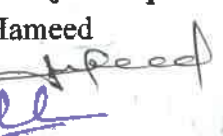
External Subject Expert-I

Prof. R. B.V Subramanyam

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needs of the industry and to prepare the engineering graduates to get globally competent to meet the requirements. The total courses of the program are categorised and distributed across eight semesters, is classified based on the following composition:

HSC	Humanities and Sciences Courses
BSC	Basic Sciences Courses
ESC	Engineering Science Courses
PCC	Professional Core Courses
PW	Project Work
PEC	Professional Elective Courses
OEC	Open Elective Courses

Weightage of HSC, BSC, ESC, PCC, PEC, OEC & PW

S.No.	Classification		Course Work-Subject Area	AICTE Range of Credits		Adopted by KRC ET
	AICTE/UGC codes			Min	Max	
1	HS		Humanities and Social Sciences Courses	5	10	11
2	BS		Basic Sciences Courses (BSC) including Mathematics, Physics, Chemistry, Biology;	15	20	22
3	ES		Engineering Sciences Courses (ES),including Materials, Workshop, Drawing, Basics of Electrical/ Electronics/Mechanical/Computer Engineering	15	20	23
4	PC	Core Courses	Professional Core Courses(PCC),relevant to the Chosen specialization/branch;(May be split into Hard(no choice) and Soft(with choice),if required	30	40	59
5	PW		Project Work, Seminar and/or Internship in Industry or elsewhere.	10	15	15
6	PE	Elective	Professional Electives Courses(PEC) relevant to The chosen specialization/branch;	10	15	18
7	OE	Courses	Open Electives Courses(OEC),from other technical and/or emerging areas	5	10	12

Chairman BOS

Dr M Narendra

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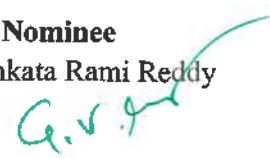
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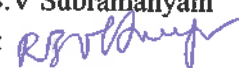
University Nominee

Dr. G Venkata Rami Reddy

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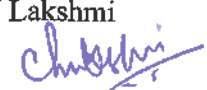
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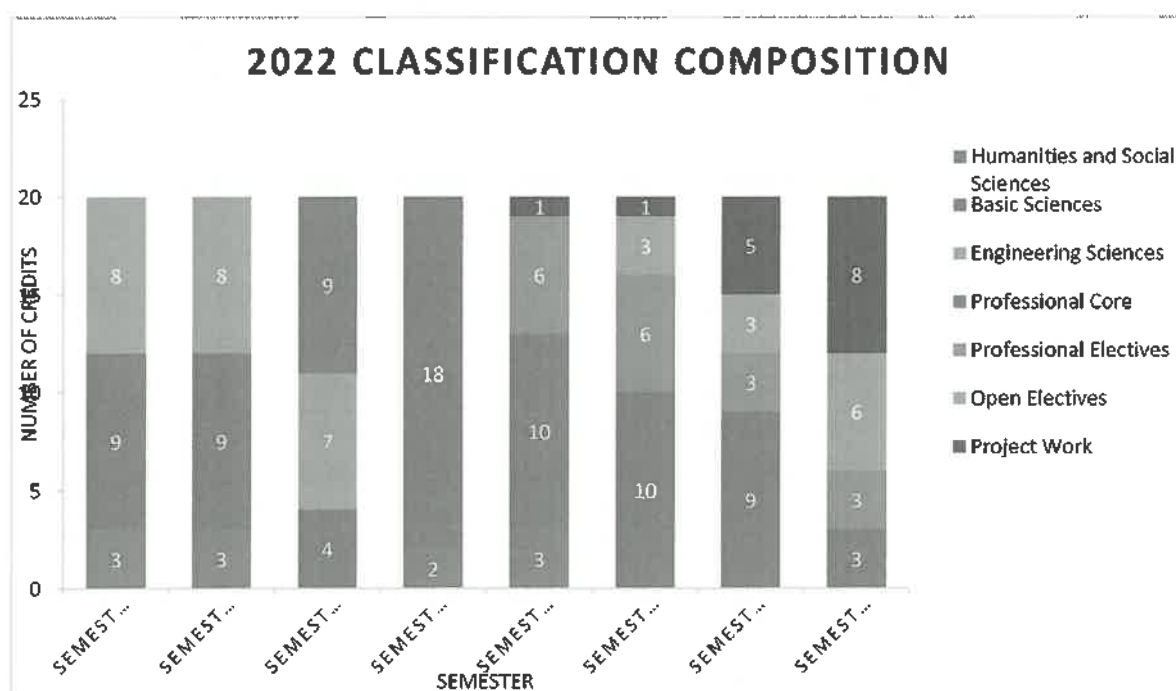
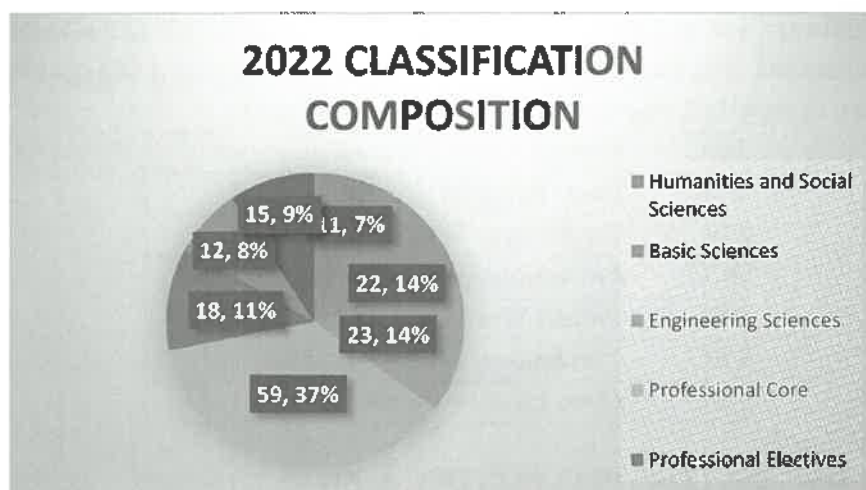
Dr KSR Radhika

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Internal Subject Expert-III

Dr. Ch B N Lakshmi

Signature: 



Pie chart for course structure based on classification composition.

Chairman BOS

Dr M Narender

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Dr. Ch B N Lakshmi

Signature:

SEMESTER I

S.No.	Course Classification	Course Code	Name of the subject	L	T	P	C	I	E	Total
01	HS	D1HSE1	English for skill Enhancement	2	0	0	2	40	60	100
02	BS	D1BSM1	Linear Algebra and Ordinary Differential Equations	3	1	0	4	40	60	100
03	BS	D1BSEC1	Engineering Chemistry	3	1	0	4	40	60	100
04	ES	D1ESCP1	C Programming for Problem Solving	3	0	0	3	40	60	100
05	ES	D1ESITW1	IT Workshop and Elements of Computer Engineering	0	0	2	1	40	60	100
06	ES	D1ESCEG	Computer Aided Engineering Graphics	1	0	4	3	40	60	100
07	HS	D1HSE2	English Language and Communication Skills Lab	0	0	2	1	40	60	100
08	BS	D1BSEC2	Engineering Chemistry Lab	0	0	2	1	40	60	100
09	ES	D1ESCP2	C Programming for Problem Solving Lab	0	0	2	1	40	60	100
Total Credits				12	02	12	20	360	540	900

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External Subject Expert-I

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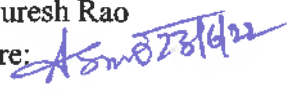
Internal Subject Expert-I

Dr V Krishna

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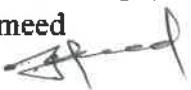
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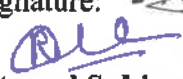
External Subject Expert-II

Dr M.A. Hameed

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Internal Subject Expert-II

Dr KSR Radhika

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University Nominee

Dr. G Venkata Rami Reddy

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Industry Expert

Dr V. Sree Kumar

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Internal Subject Expert-III

Dr. Ch B N Lakshmi

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SEMESTER II

S.No.	Course Classification	Course Code	Name of the subject	L	T	P	C	I	E	Total
01	BS	D3BSPS1	Probability and Statistics	3	1	0	4	40	60	100
02	ES	D3ESSD1	Semiconductor Devices and Circuits	3	0	0	3	40	60	100
03	ES	D3ESPP2	Python Programming	2	0	0	2	40	60	100
04	PC	D53PC1	Mathematical Foundations of Computer Science	3	0	0	3	40	60	100
05	PC	D53PC2	Computer Architecture and Organization	3	0	0	3	40	60	100
06	PC	D53PC3	Computer Networks	3	0	0	3	40	60	100
07	ES	D3ESPP3	Python Programming Lab	0	0	2	1	40	60	100
08	ES	D3ESSD4	Semiconductor Devices and Circuits Lab	0	0	2	1	40	60	100
Total Credits				17	01	04	20	320	480	800

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Dr M Narendra

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Dr A. Suresh Rao

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University Nominee

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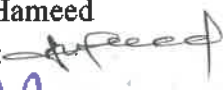
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Prof. R. B.V Subramanyam

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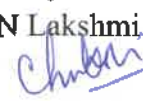
Internal Subject Expert-II

Dr KSR Radhika

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Internal Subject Expert-III

Dr. Ch B N Lakshmi

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SEMESTER III

S.No.	Course Classification	Course Code	Name of the subject	L	T	P	C	I	E	Total
01	HS	D2HSBF	Business Economics and Financial Analysis	3	0	0	3	40	60	100
02	BS	D2BSM5	Statistical Methods and Vector Calculus	3	1	0	4	40	60	100
03	BS	D2BSAP1	Applied Physics	3	1	0	4	40	60	100
04	ES	D2ESBEE	Basic Electrical Engineering	3	0	0	3	40	60	100
05	ES	D2ESDS	Data Structures	3	0	0	3	40	60	100
06	BS	D2BSAP2	Applied Physics Lab	0	0	2	1	40	60	100
07	ES	D2ESBES	Basic Electrical and Simulation Lab	0	0	2	1	40	60	100
08	ES	D2ESDSL	Data Structures Lab	0	0	2	1	40	60	100
Total Credits				15	02	06	20	320	480	800

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Dr M Narendra

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External Subject Expert-I

Prof. R. B.V Subramanyam

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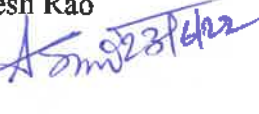
Internal Subject Expert-I

Dr V Krishna

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HOD CSE

Dr A. Suresh Rao

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Dr M.A. Hameed

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Dr KSR Radhika

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Dr. G Venkata Rami Reddy

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Industry Expert

Dr V. Sree Kumar

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Internal Subject Expert-III

Dr. Ch B N Lakshmi

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SEMESTER IV

S.No.	Course Classification	Course Code	Name of the subject	L	T	P	C	I	E	Total
01	PC	D54PC4	Object Oriented Programming through Java	3	0	0	3	40	60	100
02	PC	D54PC5	Design and Analysis of Algorithms	3	1	0	4	40	60	100
03	PC	D54PC6	Database Management Systems	3	0	0	3	40	60	100
04	PC	D54PC7	Software Engineering	3	0	0	3	40	60	100
05	PC	D54PC8	Web Technologies	2	0	0	2	40	60	100
06	PC	D54PC9	Database Management Systems Lab	0	0	2	1	40	60	100
07	PC	D54PC10	Object Oriented Programming through Java Lab	0	0	2	1	40	60	100
08	HS	D4HSE3	Advanced English Communication Skills Lab	0	1	2	2	40	60	100
09	PC	D54PC11	Web Technologies Lab	0	0	2	1	40	60	100
10	MC	MC001	Constitution of India*	3	0	0	0	0	0	S
Total Credits				17	02	08	20	360	540	900

***Mandatory Course: Constitution of India**

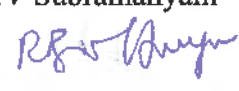
Chairman BOS

Dr M Narendra

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External Subject Expert-I

Prof. R. B.V Subramanyam

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Dr V Krishna

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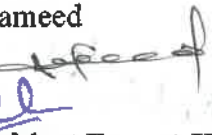
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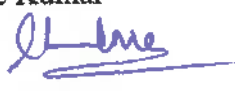
University Nominee

Dr. G Venkata Rami Reddy

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Dr V. Sree Kumar

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Dr. Ch B N Lakshmi

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Consideration of List of Professional Electives:

Professional Elective – I

1. Advanced Computer Architecture (D55PE1A)
2. Software Testing Methodologies (D55PE1B)
3. Fundamentals of Data Science (D55PE1C)
4. Agile Methodologies (D55PE1D)

Professional Elective – II

1. Information Retrieval Systems (D55PE2A)
2. Data Wrangling and Visualization (D55PE2B)
3. Artificial Intelligence (D55PE2C)
4. Design Patterns (D55PE2D)

Professional Elective – III

1. Full Stack Development (D56PE3A)
2. Big Data Analytics (D56PE3B)
3. Mobile Ad hoc Networks (D56PE3C))
4. Service Oriented Architecture (D56PE3D)

Professional Elective -IV

1. Internet of Things (D56PE4A)
2. Mobile Computing (D56PE4B)
3. Augmented Reality and Virtual Reality (D56PE4C)
4. Software Project Management (D56PE4D)

Professional Elective -V

1. Robotic Process Automation (D57PE5A)
2. Quantum Computing (D57PE5B)
3. Reinforcement Learning (D57PE5C)
4. Medical Image Processing (D57PE5D)

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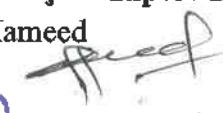
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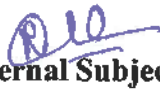
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Professional Elective – VI

1. Web and Social Media Analytics (D58PE6A)
2. Video Analytics (D58PE6B)
3. Natural Language Processing (D58PE6C)
4. Cyber Forensics (D58PE8D)

Consideration of List of Open Electives:

1. Object Oriented Programming through Java.
2. Python Programming.
3. R Programming.
4. Database Management Systems.
5. Operating Systems.
6. Computer Networks.
7. Artificial Intelligence.
8. IOT
9. Cyber Security
10. Cloud computing.
11. Fundamentals of Information Technology
12. Computer Architecture

Agenda 3: Approval of Mandatory Course

Resolution:

The Board reviewed the proposal to include "Constitution of India" as a mandatory course under the R22 regulations. After discussion on its relevance for fostering civic awareness, ethical understanding, and holistic development, the Board unanimously approved the inclusion and implementation of "Constitution of India" as a mandatory course for 4th sem B.Tech students, effective from the forthcoming academic year.

Discussion:

The following courses are proposed which are non-credit courses.

For these courses, the student should participate in activities and submit the proof of attendance, or satisfactory report of participation. For all non-credit courses and mandatory courses, no marks or letter grade is allotted.

Chairman BOS

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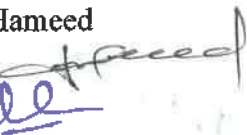
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1. Syllabus for Mandatory Course Constitution of India

Course Objectives:

- Understand the premises informing the twin themes of liberty and freedom from a civil Rights perspective.
- To address the growth of Indian opinion regarding modern Indian intellectuals' Constitutional role and entitlement to civil and economic rights as well as the emergence Of nationhood in the early years of Indian nationalism.
- To address the role of socialism in India after the commencement of the Bolshevik Revolution in 1917 and its impact on the initial drafting of the Indian Constitution.

Course Outcomes:

Students will be able to:

1. Discuss the growth of the demand for civil rights in India for the bulk of Indians Before the arrival of Gandhi in Indian politics.
2. Discuss the intellectual origins of the framework of argument that Informed the conceptualization of social reforms leading to revolution in India.
3. Discuss the circumstances surrounding the foundation of the Congress Socialist Party [CSP] under the leadership of Jawaharlal Nehru and the eventual failure of the Proposal of direct elections through adult suffrage in the Indian Constitution
4. Discuss the passage of the Hindu Code Bill of 1956.

Unit - 1 History of Making of the Indian Constitution - History of Drafting Committee.

Unit - 2 Philosophy of the Indian Constitution - Preamble Salient Features

Unit - 3 Contours of Constitutional Rights & Duties - Fundamental Rights

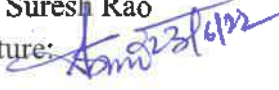
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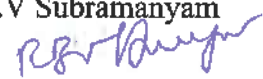
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- Right to Equality
- Right to Freedom
- Right against Exploitation
- Right to Freedom of Religion
- Cultural and Educational Rights
- Right to Constitutional Remedies
- Directive Principles of State Policy
- Fundamental Duties.

Unit - 4

Organs of Governance:

Parliament, Composition, Qualifications and

Disqualifications, Powers and Functions, Executive, President, Governor, Council of Ministers, Judiciary, Appointment and Transfer of Judges, Qualifications, Powers and Functions

Unit - 5

Local Administration:

District's Administration head: Role and Importance, Municipalities: Introduction, Mayor and role of Elected Representative, CEO of Municipal Corporation. Panchayat raj: Introduction, PRI: Zila Panchayat. Elected officials and their roles, CEO Zila Panchayat: Position and role. Block level: Organizational Hierarchy (Different departments), Village level: Role of Elected and Appointed officials, Importance of grass root democracy

Unit - 6

Election Commission:

Election Commission: Role and Functioning. Chief Election

Commissioner and Election Commissioners. State Election Commission: Role and Functioning. Institute and Bodies for the welfare of SC/ST/OBC and women.

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Dr V Krishna

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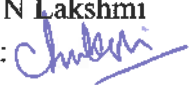
Internal Subject Expert-II

Dr KSR Radhika

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Internal Subject Expert-III

Dr. Ch B N Lakshmi

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Suggested Reading:

1. The Constitution of India, 1950 (Bare Act), Government Publication.
2. Dr. S. N. Busi, Dr. B. R. Ambedkar framing of Indian Constitution, 1st Edition, 2015.
3. M. P. Jain, Indian Constitution Law, 7th Edn., Lexis Nexis, 2014.
4. D.D. Basu, Introduction to the Constitution of India, Lexis Nexis, 2015.

Agenda 4: Syllabus changes from R20 to R22:**Resolution:**

The Board reviewed the proposed syllabus changes from R20 to R22 regulations

Discussion:

- In R22 4th sem (second year 2nd sem), introducing a **mandatory course on the Constitution of India** to students that promotes civic education, legal literacy, ethical leadership, and a Deeper understanding of India's democratic principles and governance framework. This course Equips students with the knowledge and skills necessary to be responsible citizens and ethical professionals in a diverse and dynamic society.
- **Change in Titles and Revision of Syllabus:**
Computer Organization and Architecture is renamed as Computer Architecture and Organization without changing the contents.

Agenda 5: Internal and external Evaluation - Distribution and Weightage of Marks**Resolution:**

The Board unanimously approved the following evaluation scheme under R22:

1. Theory Subjects:

- o Total marks: 100 (CIE: 40, SEE: 60)
- o CIE consists of:

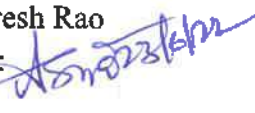
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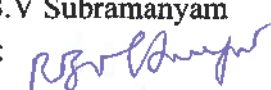
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Dr. G Venkata Rami Reddy

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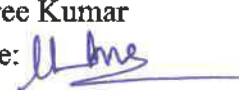
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Dr M.A. Hameed

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Industry Expert

Dr V. Sree Kumar

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Internal Subject Expert-I

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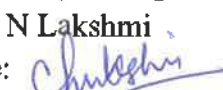
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- **Two Mid-Term Examinations:** Each mid-term has Part A (Objective/Quiz – 10 marks) and Part B (Descriptive – 20 marks). The average of the two mid-terms shall be considered as the Final mid-term marks.
- **Assignments:** Two assignments (average marks = 5).
- **Subject Viva-Voce / PPT / Poster Presentation / Case Study:** 5 marks.
- For drawing-oriented subjects, evaluation will be 15 marks based on day-to-day performance Without assignments.

2. Project Stage-1:

- Full 100 marks evaluated internally.

3. Mid-Term Examinations:

- First mid-term: 50% of the syllabus.
- Second mid-term: Remaining 50% of the syllabus.
- **Part A:** Objective/Quiz (10 marks).
- **Part B:** Descriptive (20 marks), six questions in total; students answer any three questions.

4. Assignments:

- First assignment submitted before the first mid-term; second before the second mid-term. Average marks considered.

5. Viva-Voce / Presentation / Case Study:

- Conducted before the second mid-term examination for all theory subjects except drawing-oriented subjects.

The Board approved the implementation of this evaluation scheme for all subjects under R22 regulations, ensuring a balanced and continuous assessment of student learning outcomes.

Discussion:

Compared to R20, the marks assigned for internal evaluation is increased from 30M to 40M for assessing the students due to the following:

- To provide timely feedback to students

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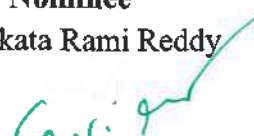
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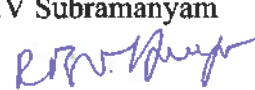
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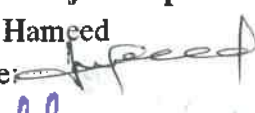
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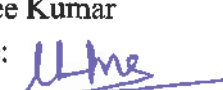
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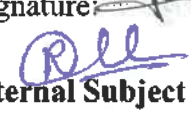
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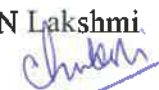
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Dr. Ch B N Lakshmi

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- To observe students' growth over time, rather than relying on a single exam or assessment.
- To provide timely feedback to students
- To adapt the teaching strategies to better meet the needs of their students.

In R22, every subject/course (other than specified project work) will be evaluated for 100 marks each, with 40 marks allotted for CIE (Continuous Internal Evaluation) and 60 marks for SEE (Semester End-Examination). The Project under stage-1 will be evaluated for full 100 marks internally.

In CIE, for theory subjects, during a semester, there shall be two mid-term examinations. Each Mid-Term examination consists of two parts i) Part – A for 10 marks, ii) Part – B for 20 marks with a total duration of 2 hours as follows: 1. Mid-term Examination for 30 marks: a.

Part - A: Objective/quiz paper for 10 marks. b. Part – B: Descriptive paper for 20 marks.

1. Assignment for 5 marks. (Average of 2 Assignments each for 5 marks)
2. Subject Viva-Voce/PPT/Poster Presentation/ Case Study on a topic in the concerned subject For 5 marks.
3. For subjects like drawing the evaluation should be, carried for 15 marks directly without Assignment, will be, awarded based on day-to-day performance.

Part - A: Objective/quiz paper for 10 marks: Objective/quiz paper is set with multiple choice And fill-in the blanks type of questions for a total of 10 marks.

Part – B: Descriptive paper for 20 marks: The descriptive paper shall contain six (6) questions Full or each question compromising of two parts as a and b, out of which, the student Has to answer three (4) questions, each carrying 5 marks.

The average of the two Mid Term Examinations shall be taken as the final marks for Mid Term Examinations. The first mid- term examination shall be, conducted on 50% of the syllabus; the second mid-term examination shall be, conducted on the remaining 50% of the syllabus.

Assignment for 5 (five) marks: Five (5) marks is allocated for assignments (as specified by the

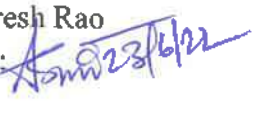
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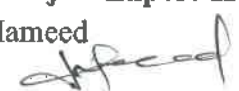
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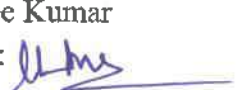
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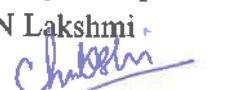
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subject teacher concerned). The first assignment should be, submitted before the conduct of the first mid-term examination, and the second assignment should be, submitted before the conduct of the second mid-term examination. The average of the two assignments shall be taken as the final marks for assignment (for five (5) marks).

Subject Viva-Voce/PPT/Poster Presentation/ Case Study on a topic in the concerned subject **for 5 marks:** Subject Viva-Voce/PPT/Poster Presentation/ Case Study on a topic in the subject concerned for 5 marks before II Mid-Term Examination for all subjects other than drawing oriented subjects.

Agenda 6: Ratification of VISION, MISSION, PEOs, PSOs

Resolution:

The Board of Studies (BOS) reviewed the Vision, Mission, Program Educational Objectives (PEOs), and Program Specific Outcomes (PSOs) of the Department of Computer Science and Engineering. After examining the documents for alignment with institutional goals, industry requirements, emerging trends in Computer Science and Engineering, and the Outcome-Based Education (OBE) framework for NBA/NAAC accreditation, the Board appreciated the clarity, relevance, and comprehensiveness of the statements. Minor suggestions for wording improvements were considered to ensure consistency with institutional objectives.

The Board unanimously **ratified the Vision, Mission, PEOs, and PSOs** of the department. The Board recommended that these statements guide student learning, departmental growth, and continuous improvement of the program. These will be formally adopted and implemented in departmental activities, curriculum planning, and student evaluation.

Discussion:

VISION:

The department aims to mould the students into ethically responsible professionals having computational thinking, entrepreneurial traits and technical knowledge to conceive, design and deploy reliable computing systems for modern industry and to offer self-reliant services in research, academic arenas of science, society and technology.

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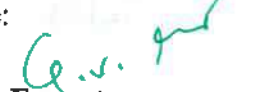
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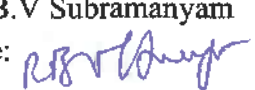
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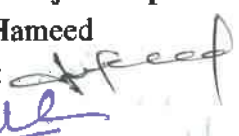
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Prof. R. B.V Subramanyam

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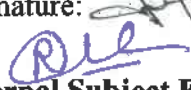
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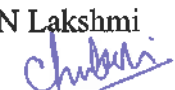
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MISSION:

- M1:** Strengthening the core competence in Computer Science and Engineering through Analytical learning and Industry – Institute interaction.
- M2:** Providing exposure to latest tools and technologies in the core area to design solutions and Conduct investigations.
- M3:** Promoting innovative research-based projects / activities in the emerging areas of Technology convergence.
- M4:** Inculcating professional behavior, strong ethical values, leadership abilities, Entrepreneurship skills and commitment to lifelong learning.

PSOs:

- PSO1:** Developing software applications with key focus on privacy, cost and utility.
- PSO2:** Storing, processing, analysing, communicating the data for effective decision-making While finding solutions for problems.

PEOs:

PEO1-Preparation:

Develop professional skills for a successful professional career as an engineer, scientist, technocrat, administrator or an entrepreneur.

PEO2-Core Competence:

Design and implement practical systems consisting of software and/or hardware components through the key principles and practices of computation, mathematics and basic principles of engineering.

PEO3-Multidisciplinary:

Design and apply new ideas and technologies as the field evolves, to solve real world problems in related interdisciplinary areas.

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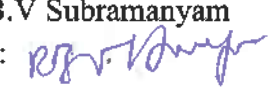
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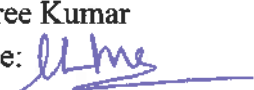
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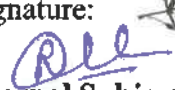
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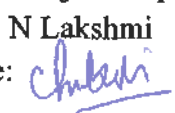
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PEO4-Professional Environment:

Demonstrate professional attitude and ethics, effective communication, team work and managerial skills for societal, environmental and global context.

Agenda 7: Substituted subjects for Readmitted students

Resolution:

The Board reviewed the academic records of students readmitted from R18 and R20 regulations into R22. After carefully mapping previously completed subjects to the revised R22 curriculum, the Board unanimously approved the list of substituted subjects for these students. It was resolved that students whose completed subjects align with the R22 curriculum will continue without substitutions, while those with curriculum gaps will follow the approved substitute subjects to ensure smooth academic progression and curriculum equivalence.

Discussion:

The BOS discussed the framework and policies regarding **substitute subjects** for students readmitted from one regulation to another. Members reviewed the guidelines to ensure that:

- Students are provided with appropriate substitute subjects when curriculum changes occur Between regulations.
- Substitute subjects align with the **learning objectives** of the original course.
- Substitutions maintain academic fairness and allow students to progress without losing credits.

The Board emphasized the importance of maintaining a **record of substitute subjects** for accreditation and reporting purposes, even if no students currently require substitutions.

Agenda 8: Identification of Value Added Courses

Resolution:

The BOS approved the above-listed Value-Added Courses for offering in the upcoming academic sessions. The department will periodically review and update these courses to keep them aligned with industry trends and technological advancements.

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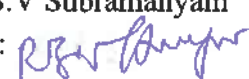
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Dr. G Venkata Rami Reddy

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External Subject Expert-I

Prof. R. B.V Subramanyam

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Dr M.A. Hameed

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Industry Expert

Dr V. Sree Kumar

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Internal Subject Expert-I

Dr V Krishna

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Internal Subject Expert-II

Dr KSR Radhika

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Dr. Ch B N Lakshmi

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Discussion:

The BOS deliberated on the identification of **Value-Added Courses (VACs)** to enhance students' **technical skills, practical knowledge, and industry-readiness**. The courses aim to bridge the gap between academic learning and real-world applications, improve employability, and provide hands-on experience in emerging technologies.

The following VACs were identified:

1. **Business Intelligence in OLAP** – Developing analytical skills for multidimensional data interpretation and business decision-making.
2. **Reinforcement Learning with Python** – Practical implementation of AI and RL algorithms for real-world applications.
3. **Basics of Cloud Computing** – Understanding cloud models, services, and deployment for modern computing needs.

Agenda 9: Action Taken Report and Approval of DAB and PAC Minutes

Resolution:

The Board reviewed the Action Taken Report (ATR) on the decisions of previous meetings and noted satisfactory progress on all points. The Board also examined the minutes of the Department Advisory Board (DAB) and Program Assessment Committee (PAC) meetings. After thorough discussion, the Board unanimously approved the Action Taken Report and ratified the minutes of the DAB and PAC meetings, acknowledging the efforts made towards continuous improvement in academic processes, curriculum implementation, and quality assurance

Discussion:

The Board of Studies reviewed the Action Taken Report (ATR) on the resolutions from the previous BOS meeting. The ATR highlighted the successful implementation of decisions, including curriculum enhancements, value-added courses, and academic process improvements.

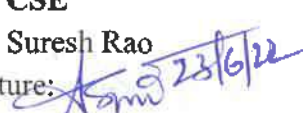
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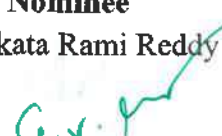
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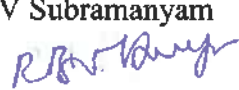
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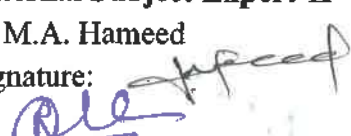
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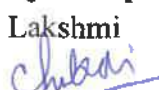
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Dr. Ch B N Lakshmi

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Additionally, the Department Advisory Board (DAB) and Program Assessment Committee (PAC) minutes were presented to the members for discussion. The Board found the recommendations of the DAB, PAC to be aligned with departmental goals and institutional vision.

Agenda 10: Identification of Workshops and guest lectures

Resolution:

The BOS approved the organization of department-level workshops and guest lectures each semester. The department shall prepare a schedule of topics and resource persons in consultation with industry and academic experts.

Discussion:

The BOS members discussed the need for conducting workshops and guest lectures to strengthen students' practical knowledge, industry exposure, and overall professional development. Emphasis was placed on inviting industry experts, academicians, and researchers to bridge the gap between theoretical concepts and real-world applications. Suggestions were made to include sessions on emerging technologies, programming skills, career development, research trends, and entrepreneurship, ensuring students are well-prepared for placements and higher studies.

Agenda 11: Approval of teaching methods

Resolution:

The BOS approved the proposed teaching methods and recommended their systematic implementation to ensure quality education, better student engagement, and improved Program Outcome (PO) attainment.

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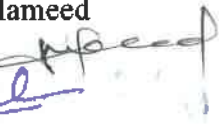
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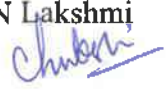
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Discussion:

The BOS discussed various **innovative teaching and learning methods** to enhance student engagement, improve learning outcomes, and align with Outcome-Based Education (OBE) practices.

Members emphasized incorporating:

- **ICT-enabled teaching tools** (smart classrooms, virtual labs, and simulation tools).
- **Active learning strategies** (flipped classrooms, group discussions, peer learning).
- **Industry-oriented teaching approaches** (case studies, mini-projects, real-time problem-solving).
- **Assessment innovations** (formative assessments, quizzes, project-based evaluations).

The committee also highlighted the importance of continuous improvement in pedagogy through faculty development programs.

Agenda 12: Approval of tools used in teaching and learning process to assess course Outcomes

Resolution:

The BOS approved the **proposed tools** for assessing Course Outcomes. Faculty members are encouraged to integrate these tools into their teaching plans and submit outcome attainment reports for each course at the end of every semester.

Discussion:

The BOS deliberated on the importance of systematically using **assessment and evaluation tools** to measure **Course Outcome (CO) attainment** in line with Outcome-Based Education (OBE). The members reviewed various tools and techniques to ensure transparency, fairness, and accuracy in evaluating student performance.

The following assessment tools were discussed:

Direct Assessment Tools:

Internal assessments, quizzes, assignments, lab performance, mini-projects, semester exams.

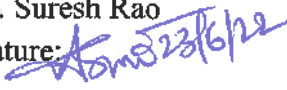
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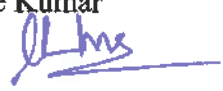
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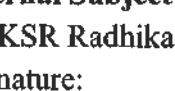
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Indirect Assessment Tools:

Student feedback, exit surveys, alumni feedback, employer feedback.

The following assessment tools and calculation were discussed:

Direct Assessment Tools:

Internal assessments, quizzes, assignments, lab performance, mini-projects, and semester exams.

Indirect Assessment Tools:

Student feedback, exit surveys, alumni feedback, employer feedback.

Direct CO attainment calculation:

Direct attainment of CO = $(0.2 * \text{mid-term} + 0.1 * \text{assignment}) * 0.8 + (0.7 * \text{semester End Examinations}) * 0.2$

Indirect CO attainment calculation:

Indirect attainment of CO = Average of Course end Survey given by all the students for all the

Course Outcomes of each course.

Overall CO attainment = $0.9 * \text{Direct attainment of CO} + 0.1 * \text{Indirect attainment of CO}$.

Continuous Improvement Assessment Methodology:

In view of Change in classification composition of Course structure and change in Academic Regulations of R22, the Continuous Improvement assessment methodology fixes targets across the course outcomes are as follows, Target: Minimum is 40% of marks (i.e., minimum pass mark)

Course Outcome Attainment is given with 3 levels

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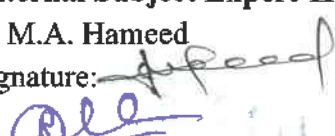
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Prof. R. B.V Subramanyam

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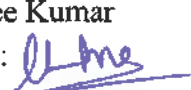
External Subject Expert-II

Dr M.A. Hameed

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Industry Expert

Dr V. Sree Kumar

Signature: 

Internal Subject Expert-I

Dr V Krishna

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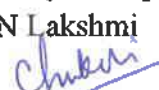
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Dr KSR Radhika

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Internal Subject Expert-III

Dr. Ch B N Lakshmi

Signature: 

R22 (22 Batch) (level3 $\geq 60\%$, level2 $\geq 50\%$ and level 1 $< 50\%$).

For the overall Programme the PO attainment target should be as follows:

80% of Programme Articulation Matrix.

Agenda 13: Justification of PEOs with Mission of the Department (R22 Regulation)

Resolution:

After detailed deliberation, the Board of Studies approved the justification of the revised Programme Educational Objectives (PEOs) with the Department Mission.

It was further resolved that:

1. The approved justification matrix and alignment will be documented for NBA compliance as part of the departmental OBE framework.
2. The PEO–Mission alignment shall be reviewed once every three years (or earlier if required) during BOS/DAB meetings to ensure continued relevance with institutional goals, industry requirements, and emerging technologies.

Discussion:

Department PEOs:

PEO1: Develop professional skills for a successful professional career as an engineer, Scientist, technocrat, administrator or an entrepreneur.

PEO2: Design and implement practical systems consisting of software and/or hardware Components through the key principles and practices of computation, mathematics And basic principles of engineering.

PEO3: Design and apply new ideas and technologies as the field evolves, to solve real world Problems in related interdisciplinary areas.

Chairman BOS

Dr M Narendra

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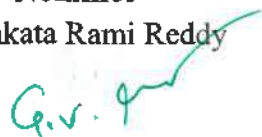
HOD CSE

Dr A. Suresh Rao

Signature: 

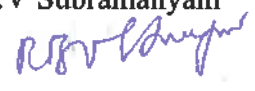
University Nominee

Dr. G Venkata Rami Reddy

Signature: 

External Subject Expert-I

Prof. R. B.V Subramanyam

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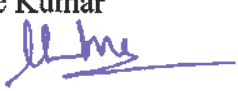
External Subject Expert-II

Dr M.A. Hameed

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Industry Expert

Dr V. Sree Kumar

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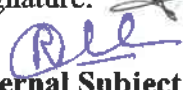
Internal Subject Expert-I

Dr V Krishna

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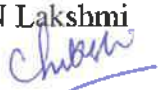
Internal Subject Expert-II

Dr KSR Radhika

Signature: 

Internal Subject Expert-III

Dr. Ch B N Lakshmi

Signature: 

PEO4: Demonstrate professional attitude and ethics, effective communication, team work
And managerial skills for societal, environmental and global context.

Department MISSION:

M1: Strengthening the core competence in Computer Science and Engineering through
Analytical learning and Industry – Institute interaction.

M2: Providing exposure to latest tools and technologies in the core area to design solutions
And conduct investigations.

M3: Promoting innovative research-based projects / activities in the emerging areas of
Technology convergence.

M4: Inculcating professional behavior, strong ethical values, leadership abilities,
Entrepreneurship skills and commitment to lifelong learning.

PEOs \ Ms	M1	M2	M3	M4
PEO1	3	3	2	2
PEO2	3	3	2	2
PEO3	3	3	2	2
PEO4	3	2	2	3

3 - Strong Correlation 2 -Moderate Correlation 1 - Weak Correlation

The Board of Studies (BOS) reviewed the alignment of the Programme Educational Objectives (PEOs) with the Department Mission under R22 Regulation. Each PEO was mapped against the Mission statements to ensure that the objectives support the vision and goals of the department:

Chairman BOS

Dr M Narendra

Signature: 

HOD CSE

Dr A. Suresh Rao

Signature: 

University Nominee

Dr. G Venkata Rami Reddy

Signature: 

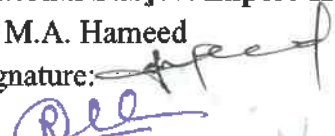
External Subject Expert-I

Prof. R. B.V Subramanyam

Signature: 

External Subject Expert-II

Dr M.A. Hameed

Signature: 

Industry Expert

Dr V. Sree Kumar

Signature: 

Internal Subject Expert-I

Dr V Krishna

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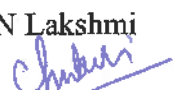
Internal Subject Expert-II

Dr KSR Radhika

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Internal Subject Expert-III

Dr. Ch B N Lakshmi

Signature: 

- **PEO 1**

(Develop professional skills for a successful professional career) aligns strongly with M1, which emphasizes strengthening core competence through analytical learning and industry-institute interaction, and with M4, which emphasizes professional behavior, ethics, leadership, and entrepreneurship.

- **PEO 2**

(Design and implement practical systems) is supported by M1 and M2, which focus on core competence and exposure to latest tools and technologies for designing solutions.

- **PEO 3**

(Design and apply new ideas and technologies to solve real-world problems) is aligned with M2 and M3, emphasizing practical investigations and innovative research projects in emerging areas.

- **PEO 4**

(Demonstrate professional attitude, ethics, communication, teamwork, and managerial skills) is strongly supported by M4, which promotes professional behavior, ethics, leadership, teamwork, entrepreneurship, and lifelong learning.

The members noted that this mapping demonstrates that the PEOs are comprehensive, covering academic, professional, research, entrepreneurial, and societal aspects. The alignment also satisfies NBA accreditation requirements for Outcome-Based Education (OBE).

Agenda 14: Approval of M.Tech Detailing of Syllabus - R22

Resolution:

After thorough deliberation, the Board of Studies unanimously approved the M.Tech (CSE) course structure and detailed syllabus with the following provisions:

Chairman BOS

Dr M Narendra

Signature: 

External Subject Expert-I

Prof. R. B.V Subramanyam

Signature: 

Internal Subject Expert-I

Dr V Krishna

Signature: 

HOD CSE

Dr A. Suresh Rao

Signature: 

External Subject Expert-II

Dr M.A. Hameed

Signature: 

Internal Subject Expert-II

Dr KSR Radhika

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University Nominee

Dr. G Venkata Rami Reddy

Signature: 

Industry Expert

Dr V. Sree Kumar

Signature: 

Internal Subject Expert-III

Dr. Ch B N Lakshmi

Signature: 

1. The syllabus and course structure shall be implemented from the upcoming academic session.
2. Minor modifications suggested during the meeting shall be incorporated by the Department Academic Committee (DAC) before final publication.
3. The department shall ensure continuous review and update of the syllabus every two years to Incorporate emerging trends and industry requirements.

Discussion:

The Board of Studies (BOS) reviewed the proposed M.Tech (CSE) course structure and detailed syllabus for all semesters. Key points discussed included:

Course Structure:

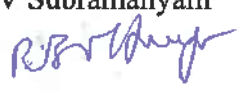
Chairman BOS

Dr M Narendra

Signature: 

External Subject Expert-I

Prof. R. B.V Subramanyam

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Internal Subject Expert-I

Dr V Krishna

Signature: 

HOD CSE

Dr A. Suresh Rao

Signature: 

External Subject Expert-II

Dr M.A. Hameed

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Internal Subject Expert-II

Dr KSR Radhika

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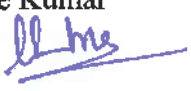
University Nominee

Dr. G Venkata Rami Reddy

Signature: 

Industry Expert

Dr V. Sree Kumar

Signature: 

Internal Subject Expert-III

Dr. Ch B N Lakshmi

Signature: 

I YEAR I – SEMESTER

Course Code	Course Title	L	T	P	Credits
D581PC1	Mathematical Foundations of Computer Science	3	0	0	3
D581PC2	Advanced Data Structures	3	0	0	3
D581PE1	1. Database Programming with PL/SQL 2. Deep Learning 3. Natural Language Processing	3	0	0	3
D581PC2	1. Applied Cryptography 2. Software Quality Engineering 3. Mining Massive Datasets	3	0	0	3
D581PCL1	Advanced Data Structures Lab	0	0	4	2
D581PEL1	Professional Elective - I Lab	0	0	4	2
	Research Methodology & IPR	2	0	0	2
D581PC1	Audit Course- I	2	0	0	0
	Total	16	0	8	18

Professional Elective- I and Professional Elective- I Lab must be of same course.

Chairman BOS

Dr M Narendar

Signature: 

External Subject Expert-I

Prof. R. B.V Subramanyam

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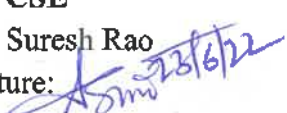
Internal Subject Expert-I

Dr V Krishna

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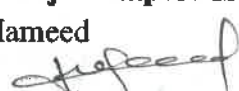
HOD CSE

Dr A. Suresh Rao

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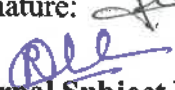
External Subject Expert-II

Dr M.A. Hameed

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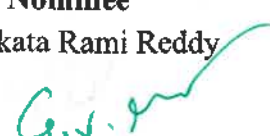
Internal Subject Expert-II

Dr KSR Radhika

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University Nominee

Dr. G Venkata Rami Reddy

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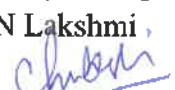
Industry Expert

Dr V. Sree Kumar

Signature: 

Internal Subject Expert-III

Dr. Ch B N Lakshmi

Signature: 

I YEAR II – SEMESTER

Course Code	Course Title	L	T	P	Credits
D582PC3	Advanced Algorithms	3	0	0	3
D582PC4	Advanced Computer Architecture	3	0	0	3
D582PE3	1. Enterprise Cloud Concepts 2. Advanced Computer Networks 3. Edge Analytics	3	0	0	3
D582PE4	1. Bioinformatics 2. Nature Inspired Computing 3. Robotic Process Automation	3	0	0	3
D582PCL2	Advanced Algorithms Lab	0	0	4	2
D582PEL2	Professional Elective - III Lab	0	0	4	2
D582PW1	Mini Project with Seminar	0	0	4	2
D582PC2	Audit Course- II	2	0	0	0
	Total	14	0	12	18

Professional Elective- III and Professional Elective- III Lab must be of same course.

Chairman BOS

Dr M Narendra

Signature: 

External Subject Expert-I

Prof. R. B.V Subramanyam

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Internal Subject Expert-I

Dr V Krishna

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Internal Subject Expert-III

Dr. Ch B N Lakshmi

Signature: 

II YEAR I – SEMESTER

Course Code	Course Title	L	T	P	Credits
D583PE5	1. Digital Forensics 2. High Performance Computing 3. Quantum Computing	3	0	0	3
D583OE1	Open Elective	3	0	0	3
D583PW2	Dissertation Work Review - II	0	0	12	6
	Total	6	0	12	12

II YEAR II – SEMESTER

Course Code	Course Title	L	T	P	Credits
D584PW3	Dissertation Work Review - III	0	0	12	6
D584PW4	Dissertation Viva-Voce	0	0	28	14
	Total	0	0	40	20

Note: For Dissertation Work Review - I, please refer 7.10 in R19 Academic Regulations. Audit

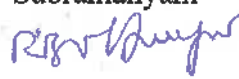
Chairman BOS

Dr M Narendra

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External Subject Expert-I

Prof. R. B.V Subramanyam

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Internal Subject Expert-I

Dr V Krishna

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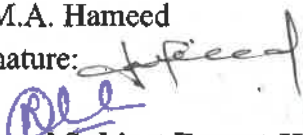
HOD CSE

Dr A. Suresh Rao

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External Subject Expert-II

Dr M.A. Hameed

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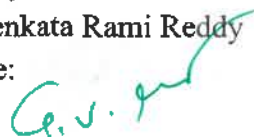
Internal Subject Expert-II

Dr KSR Radhika

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University Nominee

Dr. G Venkata Rami Reddy

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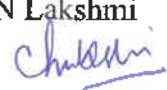
Industry Expert

Dr V. Sree Kumar

Signature: 

Internal Subject Expert-III

Dr. Ch B N Lakshmi

Signature: 

Course I & II:

1. English for Research Paper Writing
2. Disaster Management
3. Sanskrit for Technical Knowledge
4. Value Education
5. Constitution of India
6. Pedagogy Studies
7. Stress Management by yoga
8. Personality Development Through Life Enlightenment Skills

Open Electives for other Departments:

1. IPR
2. Fault Tolerance Systems
3. Intrusion Detection Systems
4. Digital Forensics
5. Optimization Techniques
6. Cyber Physical Systems

- The course structure was examined for compliance with the institute's academic regulations, Credit distribution, and AICTE guidelines.
- The syllabus content was reviewed to ensure it covers advanced topics in Computer Science, Promotes research and innovation, and is aligned with current industry requirements.

Chairman BOS

Dr M Narender

Signature: 

HOD CSE

Dr A. Suresh Rao

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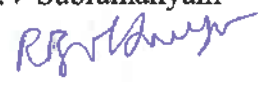
University Nominee

Dr. G Venkata Rami Reddy

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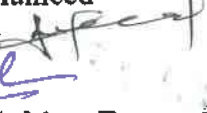
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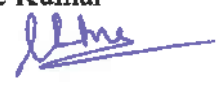
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Industry Expert

Dr V. Sree Kumar

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Internal Subject Expert-I

Dr V Krishna

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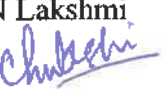
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Dr KSR Radhika

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Internal Subject Expert-III

Dr. Ch B N Lakshmi

Signature: 

- The Board analyzed the balance between core subjects, electives, and research/project work, ensuring students gain both theoretical knowledge and practical exposure.
- Emphasis was placed on integration of emerging technologies, hands-on lab work, and fostering analytical, problem-solving, and research skills.
- Suggestions were made for minor modifications in certain electives to improve clarity, learning outcomes, and alignment with Program Outcomes (POs) and Program Educational Objectives (PEOs).

Agenda 15: Other Points (if any)

Resolution:

The Board invited suggestions from members under "Other Points." After discussion, it was resolved that the suggestions and recommendations made during the meeting shall be noted for consideration and suitable action by the Department/College.

HOD

Department of CSE

Copy To:

1. All the members of BOS
2. Principal
3. Dean (Academics)

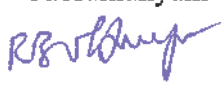
Chairman BOS

Dr M Narendra

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External Subject Expert-I

Prof. R. B.V Subramanyam

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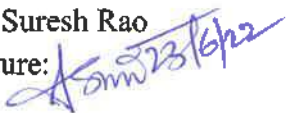
Internal Subject Expert-I

Dr V Krishna

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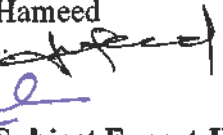
HOD CSE

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Internal Subject Expert-II

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Dr V. Sree Kumar

Signature: 

Internal Subject Expert-III

Dr. Ch B N Lakshmi

Signature: 