VAAGDEVI COLLEGE OF ENGINEERING
Autonomous
Bollikunta, Khila Warangal (Mandal), Warangal Urban-506 005 (T.S), www.vaagdevi.edu.in

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BOARD OF STUDIES MEETING

Minutes of meeting of Board of studies in Computer Science and Engineering held on 10-Nov-2022 at 02:30 pm.

Members Present:

S.No	Name and Address	Designation	Signature
1	Dr. N.Satyavathi Associate Professor & Head ,CSE VCE.	Chairman	
2	Dr. A. Kavitha, Associate Professor of CSE & Additional Controller of Examinations, JNTU, Hyderabad.	Member (Univ. Nominee)	
3	Prof. R.B.V. Subramaanyam Professor, NITW.	Member (Subject Expert)	
4	Prof. G. Narsimha Professor (CSE) & Principal, JNTUH College of Engineering, Sulthanpur, Telangana.	Member (Subject Expert)	
5	Dr.K.Rajesh khanna Associate Professor, CSE, VCE.	Member (Subject Expert)	
6	Gurrapu Venkata Krishna Ramanujam Senior Software Engineer Nagaroo	Member (Alumni Member)	
7	Mr. Sarath. J Director, Innominds India pvt. ltd.	Member (Industry Representative)	

The following decisions are taken:

1. Approved the course structure and syllabi of B. Tech CSE, (R22) Regulations for I Year (I and II Semesters).

2. Approved the course structure and syllabi of M.Tech CSE, (R22) Regulations for I Year (I and II Semesters) and II Year (III and IV Semesters).

3. Approved the course structure and syllabi of M.Tech Cyber Security, (R22) Regulations for I Year (I and II Semesters) and II Year (III and IV Semesters).

4. Approved the course structure and syllabi of M.Tech Artificial Intelligence, (R22) Regulations for I Year (I and II Semesters) and II Year (III and IV Semesters).

5. The syllabi of following courses offered to other departments in I Year I Semester are approved.

    i.   Electronics and Communication Engineering: Programming for Engineers, C Programming for Engineers Laboratory.

    ii.   Civil Engineering, Electrical and Electronics Engineering and Mechanical Engineering: C Programming & Data Structures, C Programming & Data Structures Laboratory.

6. The syllabi of following courses offered to other departments in I Year II Semester are approved.

    i.   Civil Engineering and Mechanical Engineering :Python Programming Laboratory

    ii.   Electrical and Electronics Engineering: Applied Python Programming Laboratory.

7. All the laboratory experiments can be done using licensed **OR** equivalent Open Source Software.

CHAIRMAN
Board of studies
Dr. N.Satyavathi

Department of CSE

VAAGDEVI COLLEGE OF ENGINEERING
(AUTONOMOUS)

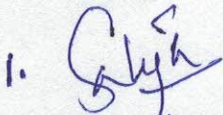## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
COURSE STRUCTURE
(R22 Regulations applicable for the batches admitted from Academic Year 2022-2023)

I Year –I Semester

S. No.	Course Code	Course	L	T	P	Credits
1.	B22MA01	Matrices and Calculus	3	1	0	4
2.	B22CH01	Engineering Chemistry	3	1	0	4
3.	B22CS01	Programming for Problem Solving	3	0	0	3
4.	B22EE03	Basic Electrical Engineering	2	0	0	2
5.	B22ME03	Computer Aided Engineering Graphics	1	0	4	3
6.	B22CS02	Elements of Computer Science & Engineering	0	0	2	1
7.	B22CH02	Engineering Chemistry Laboratory	0	0	2	1
8.	B22CS03	Programming for Problem Solving Laboratory	0	0	2	1
9.	B22EE04	Basic Electrical Engineering Laboratory	0	0	2	1
		Total	**12**	**2**	**12**	**20**
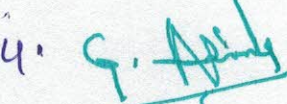
I Year-II Semester

S. No.	Course Code	Course	L	T	P	Credits
1.	B22MA02	Ordinary Differential Equations and Vector Calculus	3	1	0	4
2.	B22PH01	Applied Physics	3	1	0	4
3.	B22ME01	Engineering Workshop	0	1	3	2.5
4.	B22EN01	English for Skill Enhancement	2	0	0	2
5.	B22EC02	Electronic Devices and Circuits	2	0	0	2
6.	B22PH02	Applied Physics Laboratory	0	0	3	1.5
7.	B22CS04	Python Programming Laboratory	0	1	2	2
8.	B22EN02	English Language and Communication Skills Laboratory	0	0	2	1
9.	B22CS05	IT Workshop	0	0	2	1
		Total	**10**	**4**	**12**	**20**

1. (Dr. N. Satyavathi)
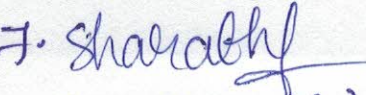
2.

3. RBVPanyn

4. G.

5. (Dr. K. Rajesh Khanna)

6. (G. V. K. Ramanujam)

7. Sharath (J. Sharath)

VAAGDEVI COLLEGE OF ENGINEERING
AUTONOMOUS
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
M.Tech (COMPUTER SCIENCE AND ENGINEERING)
COURSE STRUCTURE
(R22 Regulations applicable for the batches admitted from Academic Year 2022-23 onwards)

I YEAR I – SEMESTER

Course Code	Course Title	L	T	P	Credits
Professional Core - I	Mathematical Foundations of Computer Science	3	0	0	3
Professional Core - II	Advanced Data Structures	3	0	0	3
Professional Elective - I	1. Database Programming with PL/SQL 2. Deep Learning 3. Python Programming	3	0	0	3
Professional Elective - II	1. Applied Cryptography 2. Software Quality Engineering 3. Artificial Intelligence	3	0	0	3
Lab - I	Advanced Data Structures Lab	0	0	4	2
Lab - II	Professional Elective - I Lab	0	0	4	2
	Research Methodology &IPR	2	0	0	2
Audit - I	Audit Course- I	2	0	0	0
	Total	16	0	8	18

I YEAR II – SEMESTER

Course Code	Course Title	L	T	P	Credits
Professional Core - III	Advanced Algorithms	3	0	0	3
Professional Core - IV	Advanced Computer Architecture	3	0	0	3
Professional Elective - III	1. Enterprise Cloud Concepts 2. Advanced Computer Networks 3. Edge Analytics	3	0	0	3
Professional Elective - IV	1. Bio Informatics 2. Block Chain Technology 3. Robotic Process Automation	3	0	0	3
Lab - III	Advanced Algorithms Lab	0	0	4	2
Lab - IV	Professional Elective - III Lab	0	0	4	2
	Mini Project with Seminar	0	0	4	2
Audit - II	Audit Course- II	2	0	0	0
	Total	14	0	12	18

II YEAR I – SEMESTER

Course Code	Course Title	L	T	P	Credits
Professional Elective - V	1. Digital Forensics 2. High Performance Computing 3. Quantum Computing	3	0	0	3
Open Elective	Open Elective	3	0	0	3
Dissertation	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
Dissertation	Dissertation Work Review - III	0	0	12	6
Dissertation	Dissertation Viva-Voce	0	0	28	14
	Total	0	0	40	20

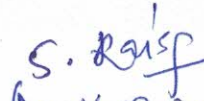*For Dissertation Work Review - I, Please refer 7.8 in R19 Academic Regulations.

Audit 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

1. (Dr. N. Satyavathi)

2.

3.

4. G. Akhila

5. (Dr. K. Rajesh Khanna)

6. (G. V. K. Ramanujam)

7. (J. Sharath)

VAAGDEVI COLLEGE OF ENGINEERING
AUTONOMOUS
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
M.Tech (CYBER SECURITY)
COURSE STRUCTURE
(R22 Regulations applicable for the batches admitted from Academic Year 2022-23 onwards)

I YEAR I – SEMESTER

Course Code	Course Title	L	T	P	Credits
Professional Core - I	Advanced Computer Networks	3	0	0	3
Professional Core - II	Advanced Data Structures	3	0	0	3
Professional Elective - I	1. Information Security 2. Vulnerability Assessment & Penetration Testing 3. Operating Systems Security	3	0	0	3
Professional Elective - II	1. Artificial Intelligence 2. Advanced Wireless Networks 3. Digital Forensics	3	0	0	3
Lab - I	Advanced Data Structures Lab	0	0	4	2
Lab - II	Professional Elective - I Lab	0	0	4	2
	Research Methodology &IPR	2	0	0	2
Audit - I	Audit Course- I	2	0	0	0
	Total	**16**	**0**	**8**	**18**

I YEAR II – SEMESTER

Course Code	Course Title	L	T	P	Credits
Professional Core - III	Distributed Systems	3	0	0	3
Professional Core - IV	Web & Database Security	3	0	0	3
Professional Elective - III	1. Intrusion Detection & Prevention Systems 2. Cloud Security 3. Block chain Technology	3	0	0	3
Professional Elective - IV	1. Digital Payment Systems 2. Secure Software Design and Development 3. Data Analytics for Fraud Detection	3	0	0	3
Lab - III	Web & Database Security Lab	0	0	4	2
Lab - IV	Professional Elective - III Lab	0	0	4	2
	Mini Project with Seminar	0	0	4	2
Audit - II	Audit Course- II	2	0	0	0
	Total	**14**	**0**	**12**	**18**

II YEAR I – SEMESTER

Course Code	Course Title	L	T	P	Credits
Professional Elective - V	1. Cyber Security 2. Network Management Systems and Operations 3. Vehicular Ad-Hoc Networks	3	0	0	3
Open Elective	Open Elective	3	0	0	3
Dissertation	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
Dissertation	Dissertation Work Review - III	0	0	12	6
Dissertation	Dissertation Viva-Voce	0	0	28	14
	Total	0	0	40	20

*For Dissertation Work Review - I, Please refer 7.8 in R19 Academic Regulations.
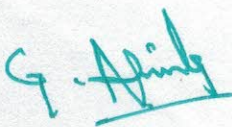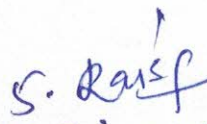
Audit Course I&II:
1. English for Research Paper Writing
2. Disaster Management
3. Sanskrit for Technical Knowledge
4. Value Education
5. Constitution of India
6. Pedagogy Studies
7. Stress Management by yoga
8. Personality Development Through Life Enlightenment Skills

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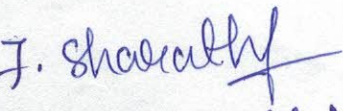(Dr. N. Satyavathi)

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(Dr. K. Rajesh Khanna)

6. *(signature)*
(G.V.K. Ramanujam)

7. *(signature)*
(J. Sharath)

VAAGDEVI COLLEGE OF ENGINEERING
AUTONOMOUS
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
M.Tech (ARTIFICIAL INTELLIGENCE)
COURSE STRUCTURE

(R22 Regulations applicable for the batches admitted from Academic Year 2022-23 onwards)

I YEAR ISEMESTER

Course Code	Course Title	L	T	P	Credits
Professional Core – I	Artificial Intelligence and Intelligent Systems	3	0	0	3
Professional Core – II	Statistical Foundations for Artificial Intelligence	3	0	0	3
Professional Elective – I	1. Advanced Data Structures 2. Machine Learning 3. Database Programming with PL/SQL	3	0	0	3
Professional Elective – II	1. Cognitive Systems 2. Genetic Algorithms and Applications 3. Computer Vision and Robotics	3	0	0	3
Lab – I	Artificial Intelligence and Intelligent Systems Lab	0	0	4	2
Lab – II	*Professional Elective- I Lab	0	0	4	2
	Research Methodology &IPR	2	0	0	2
Audit – I	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.

I YEAR IISEMESTER

Course Code	Course Title	L	T	P	Credits
Professional Core – III	Deep Learning	3	0	0	3
Professional Core – IV	Speech Information Processing	3	0	0	3
Professional Elective – III	1. Big Data Analytics 2. Functional Programming 3. Enterprise Cloud Concepts	3	0	0	3
Professional Elective – IV	1. Reinforcement Learning 2. Computer Vision 3. Cyber Security	3	0	0	3
Lab – III	Deep Learning Lab	0	0	4	2
Lab – IV	*Professional Elective-III Lab	0	0	4	2
	Mini Project with Seminar	0	0	4	2
Audit – II	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.

II YEAR I SEMESTER

Course Code	Course Title	L	T	P	Credits
Professional Elective – V	1. Block chain Technology 2. Nature Inspired Computing 3. Conversational AI	3	0	0	3
Open Elective	Open Elective	3	0	0	3
Dissertation	Dissertation Work Review – II	0	0	12	6
	Total	**6**	**0**	**12**	**12**

II YEAR II SEMESTER

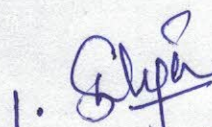| Course Code	Course Title	L	T	P	Credits
Dissertation	Dissertation Work Review – III	0	0	12	6
Dissertation	Dissertation Viva-Voce	0	0	28	14
	Total	**0**	**0**	**40**	**20**

Note: For Dissertation Work Review - I, Please refer 7.8 in R19 Academic Regulations.

Audit 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
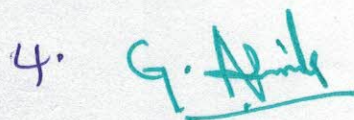8. Personality Development Through Life Enlightenment Skills

Open Electives:
1. IPR in Artificial Intelligence
2. Fault Tolerance Systems
3. Intrusion Detection Systems
4. Digital Forensics
5. Optimization Techniques
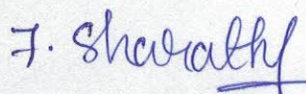6. Cyber Physical Systems
7. Graph Analytics

1. (Dr. N. Satyavathi)

2.

3.

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5. (Dr. K. Rajesh Khanna)

6. (G. V. K. Ramanujam)

7. Sharath (J. Sharath)