



VAAGDEVICOLLEGE OF ENGINEERING

Autonomous
Bollikunta, Khila Warangal (Mandal), Warangal Urban-506005 (T.S), www.vaagdevi.edu.in

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (Artificial Intelligence and Machine Learning)

BOARD OF STUDIES MEETING

Minutes of meeting of Board of studies in Computer Science and Engineering (Artificial Intelligence and Machine Learning) held on 23-Jan-2024 at 02:00 pm.

Members Present:

S.No	Name and Address	Designation	Signature
1	Dr. Thanveer Jahan Associate Professor & Head, CSE (AI&ML) VCE.	Chairman	<i>Thanveer Jahan</i>
2	Dr. A. Kavitha Associate Professor of CSE & Additional Controller of Examinations, JNTU, Hyderabad.	Member (Univ. Nominee)	<i>A. Kavitha</i> 27/1/24
3	Prof. R. B. V. Subramaanyam, Professor, NITW.	Member (Subject Expert)	<i>RBV Subramaanyam</i>
4	Prof. G. Narsimha Professor (CSE) & Principal, JNTUH College of Engineering, Sulthanpur, Telangana.	Member (Subject Expert)	<i>G. Narsimha</i>
5	Dr. B. Sravan Kumar Assistant Professor, CSE (AI&ML), VCE.	Member (Subject Expert)	<i>B. Sravan Kumar</i>
6	Gurrapu Venkata Krishna Ramanujam Senior Software Engineer, Nagaroo	Member (Alumni Member)	<i>Gurrapu Venkata Krishna Ramanujam</i>
7	Mr. Sarath J Director, Innominds India Pvt. Ltd.	Member (Industry Representative)	<i>Sarath J</i>

The following decisions are taken:

1. Approved the course structure of B. Tech CSE (AI&ML), R22 Regulations for III Year (I and II Semesters) and IV year (I and II Semesters).
2. Approved the course syllabi of B. Tech CSE (AI&ML), R22 Regulations for III Year (I and II Semesters) and IV year (I and II Semesters).
3. Approved the list of open electives offered to other branches.

*All Open Elective are
4. In line with JNTUH B.Tech CSE (AI&ML)
R22 course structure and syllabi.*

Thanveer Jahan
CHAIRMAN

Board of Studies
Dr. Thanveer Jahan

Department of CSE (AI&ML)

Thanveer Jahan

**COURSE STRUCTURE
AND
DETAILED SYLLABUS**

**COMPUTER SCIENCE AND ENGINEERING
(ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)**

**For
B.TECH FOUR YEAR DEGREE PROGRAMME
(Applicable for the batches admitted from 2022-2023)**



**VAAGDEVI COLLEGE OF ENGINEERING
(Autonomous)
Bollikunta, Warangal, 506005
Telangana State, India.**

**VAAGDEVI COLLEGE OF ENGINEERING
(AUTONOMOUS)
COMPUTER SCIENCE AND ENGINEERING
(ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)**

COURSE STRUCTURE

(R22Regulations applicable for the batches admitted from Academic Year 2022-2023)

III YEAR-I SEMESTER

S.No.	Course Code	Course Title	L	T	P	Credits
1	B22CS27	Design and Analysis of Algorithms	3	1	0	4
2	B22AI05	Machine Learning	3	0	0	3
3	B22CS28	Computer Networks	3	0	0	3
4	B22MB01	Business Economics & Financial Analysis	3	0	0	3
5	Professional Elective-I		3	0	0	3
	B22CS56	Graph Theory				
	B22AI06	Introduction to Data Science				
	B22AI07	Web Programming				
	B22CS31	Image Processing				
	B22CS33	Computer Graphics				
6	B22AI08	Machine Learning Lab	0	0	2	1
7	B22CS37	Computer Networks Lab	0	0	2	1
8	B22EN03	Advanced English Communication Skills Lab	0	0	2	1
9	B22AI09	UI design-Flutter	0	0	2	1
10	B22MB06	Intellectual Property Rights	3	0	0	0
Total			18	01	08	20

III YEAR- II SEMESTER

S.No.	Course Code	Course Title	L	T	P	Credits
1	B22AI10	Knowledge Representation and Reasoning	3	0	0	3
2	B22AI11	Data Analytics	3	0	0	3
3	B22AI12	Natural Language Processing	3	0	0	3
4	Professional Elective-II		3	0	0	3
	B22CS46	Software Testing Methodologies				
	B22CS35	Information Retrieval Systems				
	B22AI13	Pattern Recognition				
	B22AI14	Computer Vision and Robotics				
	B22DS04	Data Warehousing and Business Intelligence				
5	Open Elective-I		3	0	0	3
6	B22AI17	Natural Language Processing Lab	0	0	3	1.5
7	B22AI18	Principles of Data Analytics Lab	0	0	3	1.5
8	B22AI19	Industrial Oriented Mini Project/Internship/Skill Development Course (DevOps)	0	0	4	2
9	B22CH03	Environmental Science	3	0	0	0
Total			18	0	10	20

Environmental Science in III Yr II Sem Should be Registered by Lateral Entry Students Only.

1. *Thanveer Sah*
(Dr. Thanveer Sahar)

2. *[Signature]*
(Dr. A. Kavitha)

3. *R.B.V. Subramaanyam*
(Prof. R. B. V. Subramaanyam)

4. *G. Narasimha*
(Prof. G. Narasimha)

5. *[Signature]*
(Dr. B. Sravan Kumar)

6. *[Signature]*
(Mr. A. V. R. Ramanujam)

7. *[Signature]*
(Mr. J. Sarath)

IV YEAR-I SEMESTER

S.No.	Course Code	Course Title	L	T	P	Credits
1	B22AI20	Deep Learning	3	0	0	3
2	B22AI21	Nature Inspired Computing	2	0	0	2
3	Professional Elective-III		3	0	0	3
	B22CS43	Internet of Things				
	B22AI22	Data Mining				
	B22CS44	Scripting Languages				
	B22CS45	Mobile Application Development				
	B22AI23	Cloud Computing				
4	Professional Elective-IV		3	0	0	3
	B22AI24	Quantum Computing				
	B22AI25	Expert Systems				
	B22AI26	Semantic Web				
	B22AI27	Game Theory				
	B22AI28	Mobile Computing				
5	Open Elective-II		3	0	0	3
6	B22AI31	Professional Practice, Law & Ethics	0	0	4	2
7	Professional Elective-III Lab		0	0	2	1
	B22CS49	Internet of Things Lab				
	B22AI32	Data Mining Lab				
	B22CS50	Scripting Languages Lab				
	B22CS51	Mobile Application Development Lab				
	B22AI33	Cloud Computing Lab				
8	B22AI34	Project Stage-I	0	0	6	3
Total Credits			14	0	12	20

IV YEAR- II SEMESTER

S.No.	Course Code	Course Title	L	T	P	Credits
1	Professional Elective-V		3	0	0	3
	B22AI35	Social Network Analysis				
	B22AI36	Federated Machine Learning				
	B22AI37	Augmented Reality & Virtual Reality				
	B22AI38	Web Security				
	B22CS59	Ad-hoc & Sensor Networks				
2	Professional Elective-VI		3	0	0	3
	B22AI39	Speech and Video Processing				
	B22CS62	Robotic Process Automation				
	B22AI40	Randomized Algorithms				
	B22AI41	Cognitive Computing				
	B22AI42	Conversational AI				
3	Open Elective-III		3	0	0	3
4	B22AI45	Project Stage-II including Seminar	0	0	22	11
Total Credits			9	0	22	20

*MC-Satisfactory/Unsatisfactory

1. (Dr. Thanveer Jahan)

2. (Dr. A. Ravitha)

3. (Prof. R. B. V. Subramanyam)

4. (Prof. U. Narasimha)

5. (Dr. B. Sreyan Kumar)

6. (Mr. G. V. K. Ramanujam)

7. (Mr. J. Sarath)

Open Elective I:

1	B22AI15	Fundamentals of AI
2	B22AI16	Machine Learning Basics

Open Elective II:

1	B22AI29	Introduction to Natural Language Processing
2	B22AI30	AI applications

Open Elective III:

1	B22AI43	Chat bots
2	B22AI44	Evolutionary Computing

Thanneer Jahan

1. (Dr. Thanneer Jahan)

Dr. A. Kavitha

2. (Dr. A. Kavitha)

R.B.V. Subramanyam

3. (Prof R.B.V. Subramanyam)

G. Narsimha

4. (Prof G. Narsimha)

S. B. Sravan Kumar

5. (Dr B. Sravan Kumar)

G.V.K. Ramanujam

6. (Mr. G.V.K. Ramanujam)

J. Sarath

7. (Mr. J. Sarath)