VIGNAN'S
Foundation for Science, Technology & Research
(Deemed to be University)
-Estd. u/s 3 of UGC Act 1956

VIGNAN'S FOUNDATION FOR SCIENCE, TECHNOLOGY AND RESEARCH
Department of Advanced Computer Science & Engineering

Date: 22.05.2025

Minutes of Board of Studies Meeting

The Board of Studies (BoS) meeting of B.Tech., CSE-AIML programme was conducted on 22.05.2025 in blended mode from 3.00 PM. (Physical meeting: R No 602, Sixth floor, N Block, VFSTR and Microsoft Teams meet link:
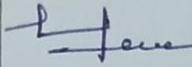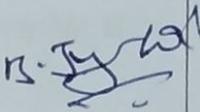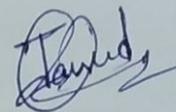
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Agenda of the BoS Meeting:
1. Reviewing the R25 course structure and content of I, II, III, IV year syllabus.
2. Discussion on L-T- P-SL-C structure of various courses
3. SWAYAM-NPTEL courses identification
4. Any other points based on the requirements with the permission of Chair

The following members were present either thorough offline or online:

Sl.No	Name of the Member	Designation and Affiliation	Role	Signature
1	Dr. Venkatesulu Dondeti, Add. Dean, Professor	Professor & Addl. Dean, Department of ACSE, VFSTR Deemed to be University, Contact : 9840850744 Mail :dean_addl._acse@vignan.ac.in	Chair Person	*QV*
2	Dr. Deevi Radha Rani	Associate Professor & Head, Department of ACSE, VFSTR Deemed to be University Contact : 9676354404 Mail : hod_acse@vignan.ac.in	Internal member	*(signature)*
3	Prof. R.B.V Subramanyam	Professor Department of CSE, NIT, Warangal, Telengana, Contact: 9491346969,9441434454 Mail : rbvs66@gmail.com	External member	Online
4	Prof D. S Guru	Professor, Department of Studies in Computer Science, University of Mysore, Mysore, Karnataka	External member	Online

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		Contact: 9620228005 Mail : daguruji@yahoo.com		
5	Dr. Vinay Kumar Venkataramana	Co-Founder, IVIS LABS PRIVATE LIMITED, Mysore, Karnataka Contact : +91 6364411444 Email: vinay@ivislabs.com	Invited member	*Online*
6	Dr Arun Agarwal	Professor (Rtd), University of Hyderabad, Hyderabad. Contact: 9849283567 Mail : aruncs.211@gmail.com	Invited member	*Not attended*
8	Dr. Nirupama Bhat M	Professor, Department of ACSE, VFSTR Deemed to be University Contact: 91 99088 23834 Mail : drmnb_acse@vignan.ac.in	Internal member	
	Dr. Jyotsna Devi Bodapati	Associate Professor, Department of ACSE, VFSTR Deemed to be University, Contact: +91 7358209553 Mail: bjd_acse@vignan.ac.in	Internal Member	
10	Dr Bala Krishna S	Asst. Professor, Department of ACSE, VFSTR Deemed to be University Contact: 91 94415 40580 Mail : drsbk_acse@vignan.ac.in	Internal member (School nominee)	
11	Dr. Javed Ahmed Dar	Assistant Professor, Department of ACSE, VFSTR Deemed to be University Contact : 7006157037 Mail : drjad_acse@vignan.ac.in	Internal Member (Nominee – Dean R&D)	
12	Dr Arul Elango	Associate Professor, Department of ACSE, VFSTR Deemed to be University Contact: 6379772780 Mail : drae_acse@vignan.ac.in	Member Secretary	
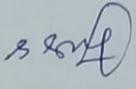
Dr. Arun Agarwal, External member could not able to join the meeting due to some personal urgency.

Chairperson Dr. Venkatesulu Dondeti, Professor and Additional Dean, Department of ACSE, VFSTR initiated the meeting by welcoming and introducing the board members. Secretary Dr. Arul Elango, Associate Professor, Department of ACSE, VFSTR presented the program curriculum along with course content on the board.

The following points were discussed in the BoS meeting:

1. Reviewed the R25 CSE-AIML program course structure and curriculum.
2. Discussed on L-T- P-SL-C structure of various courses.
3. SWAYAM-NPTEL courses identification for department, open electives and honors.
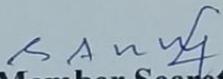4. Discussed on CO-PO-PSO

5. CO-PO-PSO-PEO target values finalization.

The following resolutions are incorporated after the discussion:

1. Dr. Arul Elango, Member Secretary initiated the presentation on the R25 CSE-AIML course structure and Curriculum. The R25 regulation was presented which adopts NEP 2020-aligned academic structure featuring a pre-semester module and a revised credit requirement of 160 + 10 additional binary graded credits emphasising Indian knowledge systems, Human Values, Life Skills, and Societal Awareness. More importance is given to experiential learning and self-learning. The Regulation allows for Honours or Minor degrees through an additional 16 credits. Significant changes include the restructuring of course content and assessment patterns to focus on continuous and skill-based evaluation.

2. The External Board members expressed their opinion that the overall course structure of the program and the content of the courses are well-designed and for the program at under graduate level.

3. In the meeting, the external board members reviewed the program elective courses, Honors courses, and SWAYAM-NPTEL courses offered to AIML students. Prof. D. S Guru suggested that the list of NPTEL courses mentioned in the course structure should be indicated as 'NPTEL courses-subject to modification' since the availability of courses on the SWAYAM NPTEL platform may change at the time of course commencement and the new courses may be added as per the relevance.

4. The allocation of Self Learning (SL) hours and the plan regarding conduction of this SL hours were discussed. The internal BOS members clarified the concerns about mentorship for self-learning hours. It was suggested to solve the assignment problems during SL hours beyond the college working hours.

5. The number of **L+T+P+SL** components allocated for Module 1 and Module 2 for all courses having one credit, two credits, three credits and four credits courses are discussed and they suggested to cross verify the number of hours allotted for each modules in the syllabus.

6. The board members clarified about the early exit option outlined in NEP 2020 and it is noted that this has been incorporated in R25 regulations, which provides the flexibility to exit the course in the middle of the studies.

Based on the suggestions given by the members, the Chairperson of BoS told that, these fruitful suggestions would be considered.

There being no further points for discussion, Member Secretary thanks all the external, internal, invited members and announced that the meeting was adjourned.

Member Secretary

Chairperson

Program: CSE – Artificial Intelligence and Machine Learning (AIML)   **Regulation:** R25
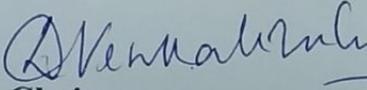
CURRICULUM STRUCTURE

Induction Program

Sl. No	Course Code	Course Title	L	T	P	C	Course Category
1		Orientation Program (Induction Program)				1	Binary Graded
		Total				1	

I Year Pre-semester

Sl. No.	Course Code	Course Title	L	T	P	C	Course Category
1		Mathematics				1	Basic Sciences
2		English Communication				1	Humanities
3		Aptitude &Logical Reasoning				1	Humanities
4		IT Tools				1	Basic Engineering
5						1	Binary Graded
6						1	Binary Graded
		Total				6	

I Year I Semester

. No.	Course Code	Course Title	L	T	P	C	Course Category
1		Mathematics				4	Basic Sciences
2		Physics/Chemistry				4	Basic science
3		Basics of Electrical & Electronics Engineering/ Engineering Graphics				3	Basic Engineering
4		Programming in C				4	Basic Engineering
5		English Proficiency & Communication Skills (PET)				1	Humanities
6		Environmental Studies/Management Studies				3	Basic Sciences/Humanities
7						1	Binary Graded
8						1	Binary Graded
9							Binary Graded
		Total				22	

I Year II Semester

Sl. No.	Course Code	Course Title	L	T	P	SL	C	Course Category
1		Mathematics					4	Basic Sciences
2		Physics/Chemistry					4	Basic Sciences
3		Basics of Electrical & Electronics Engineering/ Engineering Graphics					3	Basic Engineering
4		Problem Solving through Python					3	Basic Engineering
5		Technical English Communication					2	Humanities
6		Environmental Studies/Management Studies					3	Basic Sciences / Humanities
7		Cyber Security					1	Basic Engineering
							1	Binary Graded
							1	Binary Graded
							1	Binary Graded
		Total					24	
		Total					24	

II Year I Semester

Sl. No.	Course Code	Course Title	L	T	P	SL	C	Course Category
1		Maths (P&S)	3	2	0	3	4	Basic Sciences
2		Dept. Specific- Physics/ Domain Subject	3	0	0	3	3	Basic Sciences
3		Data Structures	2	2	2	3	4	Basic Engineering
4		Design Thinking and Engineering Orientation	0	2	0	0	1	Basic Engineering
5		Artificial Intelligence	2	2	2	2	4	Professional core-1
6		Data Base Management Systems	2	2	2	2	4	Professional core-2
7		Digital Logic and Computer Organization	2	0	2	2	4	Professional core-3
		Total					24	
		Total					24	

II Year II Semester

Sl. No.	Course Code	Course Title	L	T	P	SL	C	Course Category
1		Dept. Specific-Maths –Linear Algebra for Machine Learning	3	0	2	3	3	Basic Sciences
2		Industry Interface Course (I^2) Course					1	Department Elective-I
3		NPTEL	3	0	0	3	3	Open Elective -I
4		Algorithm Design and Analysis	2	2	2	2	4	Professional core-4
5		Machine Learning	3	0	2	3	4	Professional core-5
6		Object Oriented Programming	2	0	4	2	4	Professional core-6
7		Operating Systems	2	0	2	2	3	Professional core-7
8							3	Project
		Total					23	
		Total					23	

III Year I Semester

Sl. No.	Course Code	Course Title	L	T	P	SL	C	Course Category
1		Soft Skills Laboratory	0	0	2	0	1	Humanities
2		Quantitative Aptitude and Logical Reasoning	0	2	0	0	1	Humanities
3			3	0	2	3	3	Department Elective-2
4		Deep Learning	3	0	2	3	4	Professional core-8
5		Fundamentals of Image Processing	2	0	2	2	3	Professional core-9
6		Full Stack development	2	0	4	2	4	Professional core-10
7		Computer Networks	3	0	2	3	3	Professional core-11
8		Mobile Application Development	1	0	2	1	2	
		Sub-Total					21	
8		Minor / Honors – (Add-on)					4	Minor / Honors
		Total					25	

III Year II Semester

Sl. No.	Course Code	Course Title	L	T	P	SL	C	Course Category
1		Professional Communication Skills					1	Humanities
2			3	0	2	3	4	Department Elective-3
3			3	0	2	3	4	Department Elective-4
4		NPTEL	3	0	0	3	3	Open Elective-2
5		Reinforcement Learning	2	0	2	2	4	Professional core-12
6		Big Data Analytics	2	0	2	2	3	Professional core-13
7							1	Project
		Sub-Total					20	
8		Minor / Honors – 4					4	
		Total					24	

IV Year I Semester

Sl. No.	Course Code	Course Title	L	T	P	SL	C	Course Category
1		Dept. Specific (Professional Ethics)	2	0	0	2	2	Project
2			3	0	2	3	4	Department Elective-5
3			3	0	2	3	4	Department Elective-6
4		Work-in-Lieu of Course-Research paper publications/patents/presentations/global certifications	0	2	12	0	4	Department Elective-7
5							3	Open Elective-3
		Sub-Total					17	
6		Minor / Honors	0	2	6	0	4	Minor / Honors
		Total					21	

IV Year II Semester

Sl. No.	Course Code	Course Title	L	T	P	SL	C	Course Category
1		Project/Internship	0	2	22	0	12	Project/Internship
		Sub Total					12	Department Elective-5
2		Minor / Honors (Add-on)	0	2	6	0	4	Minor / Honors
		Total					16	

LIST OF PROGRAMME ELECTIVES

Sl. No.	Course Code	Course Title	L	T	P	SL	C
1		Cloud Computing	3	0	2	3	4
2		Computer Vision	3	0	2	3	4
3		AI in Health care and Medical diagnostics	2	0	2	2	3
4		Data Ware Housing and Data Mining	3	0	2	3	4
5		Multi Agent Technology	3	0	2	3	4
6		Graph Theory	3	0	2	3	4
7		Generative AI	3	0	2	3	4
8		Explainable AI	3	0	2	3	4
9		Intelligent Autonomous System	3	0	2	3	4
10		Text Analysis and Natural Language Processing	3	0	2	3	4
11		Federated Machine Learning	3	0	2	3	4
12		Time Series analysis and Forecasting	3	0	2	3	4
		Business Analytics	3	0	2	3	3

List of Honors Courses

Sl. No.	Course Code	Course Title	L	T	P	SL	C
1		Optimization Techniques	3	2	0	3	4
2		Data Handling and Visualization	3	2	0	3	4
3		Web Sequence and Data Mining	3	0	2	3	4
4		Intelligent Application Development	3	2	0	3	4
5		Capstone Project	0	2	6	0	4

List of Minor Courses

Sl. No.	Course Code	Course Title	L	T	P	SL	C
1		Data Handling and Visualization	3	2	0	3	4
2		Machine Learning	3	2	0	3	4
3		Fundamentals of Image Processing	3	0	2	3	4
4		Deep Learning	3	2	0	3	4
5		Capstone Project	0	2	6	0	4

List of NPTEL Courses- (Subject to Modification)

List of Courses	Offered by
Business analytics and data mining Modeling using R	By Prof. Gaurav Dixit, IIT Roorkee
Data Analytics with Python	Prof. A Ramesh, IIT Roorkee
Computer Vision and Image Processing - Fundamentals and Applications	Prof. M. K. Bhuyan, IIT Guwahati
Applied Accelerated Artificial intelligence	Prof. Satyajit Das, IIT Palakkad

Pattern Recognition and Application	Prof. Prabir Kumar Biswas, IIT Kharagpur
Deep Learning for Computer Vision	Prof. Vineeth N Balasubramanian IIT Hyderabad
GPU Architectures and Programming	Prof. Soumyajit Dey, IIT Kharagpur
User-centric Computing For Human-Computer Interaction	Prof. Samit Bhattacharya, IIT Guwahati
Responsible and Safe AI System	Prof. Ponnurangam Kumaraguru IIIT Hyderabad

Member Secretary

Chairperson