Date: 28/03/2023

MINUTES OF MEETING - BOARD OF STUDIES (BOS)

The Meeting of the Board of Studies of **Artificial Intelligence and Machine Learning** department was held on 28th March, 2023 at 10.00 AM in online mode.

The following members were present.

S. No.	Name of the Faculty	Designation	Signature
1	Dr. N. Krishnaiah Professor & HOD, Department of AI & ML	Chairman	
2	Dr. V. Kamakshi Prasad, Professor of CSE, BoS Chair person, JNTUH College of Engineering, Hyderabad	University Nominee	
3	Dr. K. Venkatesh Sharma, Professor, Dept. of CSE, CVR College of Engineering, Hyderabad.	Educationist	
4	Dr. P. L. Srinivasa Murthy, Professor, Department of CSE, Institute of Aeronautical Engineering, Dundigal, Hyderabad.	Educationist	
5	Mr. Bonthala Mallikarjuna Aswanth Kumar, Lead Technology, Synechron, Hyderabad	Industrialist	
6	Dr. S.V.S. Rama Krishnam Raju Dean Academics	Member	
7	Dr. D. Ranadheer Reddy Professor & HOD, Department of S&H	Member	
8	Dr. R. Santhoshkumar, Associate Professor & HOD, Dept. of CSE	Faculty Member	
9	Dr. R. Nagaraju, Professor & HOD, Dept. of IT	Faculty Member	
10	Dr. K. Srinivas, Associate Professor, Dept. of CSE (AI & ML)	Faculty Member	
11	Mr. Pannati Nagesh, React Front End Developer, Syncor Solutions, Hyderabad.	Alumni Member	

The Meeting began with chairman, Board of studies extending a warm welcome to all the members participating in the meeting.

The following points were presented, discussed and approved during the meeting

1. The following SMEC R20 Course Structure and the detailed syllabi of III-I, III-II, IV-I and IV-II were presented, discussed and approved. The total credits for the programme were discussed, finalized and approved.

B. Tech - III YEAR I SEMESTER
COURSE STRUCTURE

S. No.	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		
			L	T	P		Internal (CIE)	External (SEE)	Total
1	AIM501PC	Design and Analysis of Algorithms	3	0	0	3	30	70	100
2	AIM502PC	Machine Learning	3	0	0	3	30	70	100
3	AIM503PC	Computer Networks	3	0	0	3	30	70	100
4	AIM504PC	Compiler Design	3	0	0	3	30	70	100
5		Professional Elective - I	3	0	0	3	30	70	100
6		Professional Elective - II	3	0	0	3	30	70	100
7	AIM505PC	Machine Learning Lab	0	0	3	1.5	30	70	100
8	AIM508PC	Computer Networks Lab	0	0	3	1.5	30	70	100
9	EN506HS	Advanced Communication Skills Lab	0	0	2	1	30	70	100
Total			**18**	**0**	**8**	**22**	**270**	**630**	**900**
Mandatory Course (Non-Credit)									
10	*IP507MC	Intellectual Property Rights	3	0	0	-	100	-	100

B. Tech - III YEAR II SEMESTER
COURSE STRUCTURE

S. No.	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		
			L	T	P		Internal (CIE)	External (SEE)	Total
1	AIM601PC	Software Engineering	3	1	0	4	30	70	100
2	AIM602PC	DevOps	3	1	0	4	30	70	100
3	AIM603PC	Natural Language Processing	3	1	0	4	30	70	100
4		Professional Elective–III	3	0	0	3	30	70	100
5		Open Elective-I	3	0	0	3	30	70	100
6	AIM604PC	Natural Language Processing Lab	0	0	3	1.5	30	70	100
7	AIM605PC	DevOps Lab	0	0	3	1.5	30	70	100
8		Professional Elective - III Lab	0	0	2	1	30	70	100
Total			**15**	**3**	**8**	**22**	**240**	**560**	**800**
Mandatory Course (Non-Credit)									
10	*ES608BS	Environmental Science	3	0	0	-	100	-	100

***MC – Satisfactory/ Unsatisfactory**

B. Tech - IV YEAR I SEMESTER
COURSE STRUCTURE

S. No.	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		
			L	T	P		Internal (CIE)	External (SEE)	Total
1	AIM701PC	Neural Networks & Deep Learning	3	0	0	3	30	70	100
2	AIM702PC	Reinforcement Learning	2	0	0	2	30	70	100
3		Professional Elective - IV	3	0	0	3	30	70	100
4		Professional Elective - V	3	0	0	3	30	70	100
5		Open Elective - II	3	0	0	3	30	70	100
6	AIM703PC	Deep Learning Lab	0	0	2	1	30	70	100
7	AIM704PC	Industrial Oriented Mini Project/ Summer Internship	0	0	0	2	--	100	100
8	AIM705 PC	Seminar	0	0	2	1	100	--	100
9	AIM706PC	Project Stage – I	0	0	6	3	100	--	100
Total			**14**	**0**	**10**	**21**	**380**	**520**	**900**

B. Tech - IV YEAR II SEMESTER
COURSE STRUCTURE

S. No.	Course Code	Course Title	Hours per Week			Credits	Maximum Marks		
			L	T	P		Internal (CIE)	External (SEE)	Total
1	SM801MS	Organizational Behaviour	3	0	0	3	30	70	100
2		Professional Elective– VI	3	0	0	3	30	70	100
3		Open Elective - III	3	0	0	3	30	70	100
4	AIM802PC	Project Stage– II	0	0	14	7	30	70	100
Total			**9**	**0**	**14**	**16**	**120**	**280**	**400**

Professional Elective-I		**Professional Elective - II**	
AIM511PE	Graph Theory	AIM521PE	Software Testing Methodologies
AIM 512PE	introduction to Data Science	AIM522PE	Information Retrieval Systems
AIM 513PE	Web Programming	AIM523PE	Pattern Recognition
AIM 514PE	Image Processing	AIM524PE	Computer Vision and Robotics
AIM 515PE	Computer Graphics	AIM525PE	Data Warehousing and Business Intelligence
Professional Elective - III		**Professional Elective -IV**	
AIM611PE	Internet of Things	AIM711PE	Quantum Computing
AIM612PE	Data Mining	AIM712PE	Expert Systems
AIM613PE	Scripting Languages	AIM713PE	Cloud Computing
AIM614PE	Mobile Application Development	AIM714PE	Game Theory
AIM615PE	Cryptography and Network Security	AIM715PE	Mobile Computing
Professional Elective - V		**Professional Elective – VI**	
AIM721PE	Social Network Analysis	AIM811PE	Speech and Video Processing
AIM722PE	Federated Machine Learning	AIM812PE	Robotic Process Automation
AIM723PE	Augmented Reality & Virtual Reality	AIM813PE	Randomized Algorithms
AIM724PE	Web Security	AIM814PE	Cognitive Computing
AIM725PE	Ad-hoc & Sensor Networks	AIM815PE	Semantic Web

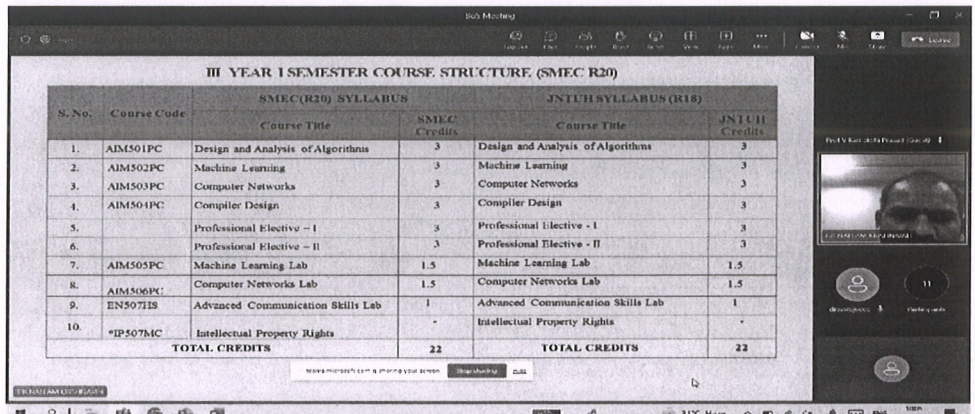
 # Courses in PE - III and PE - III Lab must be in 1-1 correspondence.

Open Elective I	Open Elective II	Open Elective III
Fundamentals of AI	Introduction to Natural Language Processing	Chatbots
Machine Learning Basics	AI applications	Genetic Algorithms & Fuzzy logic

2. The following points were suggested for future possible implementations

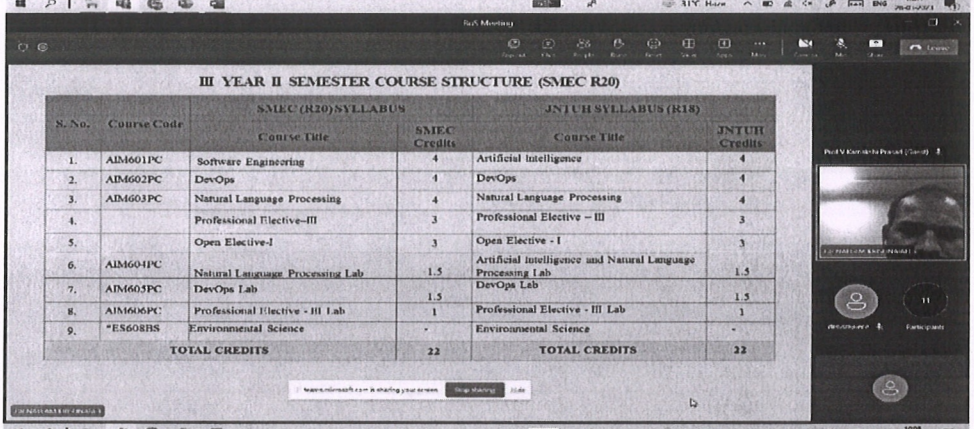
NIL

The meeting ended with chairman thanking members for their lively and useful interaction to evolve a best possible course structure and syllabus for the B. Tech AI & ML programme.



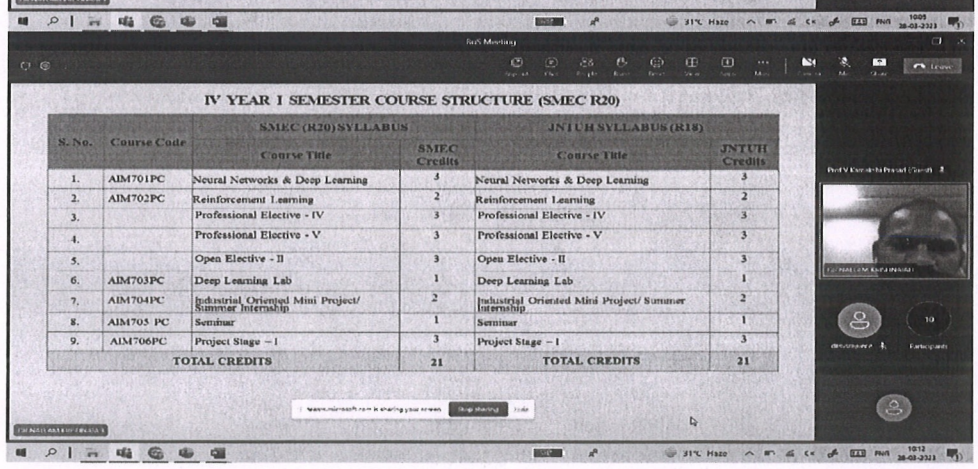
III YEAR I SEMESTER COURSE STRUCTURE (SMEC R20)

S. No.	Course Code	SMEC(R20) SYLLABUS Course Title	SMEC Credits	JNTUH SYLLABUS (R18) Course Title	JNTUH Credits
1.	AIM501PC	Design and Analysis of Algorithms	3	Design and Analysis of Algorithms	3
2.	AIM502PC	Machine Learning	3	Machine Learning	3
3.	AIM503PC	Computer Networks	3	Computer Networks	3
4.	AIM504PC	Compiler Design	3	Compiler Design	3
5.		Professional Elective – I	3	Professional Elective - I	3
6.		Professional Elective – II	3	Professional Elective - II	3
7.	AIM505PC	Machine Learning Lab	1.5	Machine Learning Lab	1.5
8.	AIM506PC	Computer Networks Lab	1.5	Computer Networks Lab	1.5
9.	EN507HS	Advanced Communication Skills Lab	1	Advanced Communication Skills Lab	1
10.	*IP507MC	Intellectual Property Rights	-	Intellectual Property Rights	-
TOTAL CREDITS			22	TOTAL CREDITS	22



III YEAR II SEMESTER COURSE STRUCTURE (SMEC R20)

S. No.	Course Code	SMEC (R20) SYLLABUS Course Title	SMEC Credits	JNTUH SYLLABUS (R18) Course Title	JNTUH Credits
1.	AIM601PC	Software Engineering	4	Artificial Intelligence	4
2.	AIM602PC	DevOps	4	DevOps	4
3.	AIM603PC	Natural Language Processing	4	Natural Language Processing	4
4.		Professional Elective–III	3	Professional Elective – III	3
5.		Open Elective-I	3	Open Elective - I	3
6.	AIM604PC	Natural Language Processing Lab	1.5	Artificial Intelligence and Natural Language Processing Lab	1.5
7.	AIM605PC	DevOps Lab	1.5	DevOps Lab	1.5
8.	AIM606PC	Professional Elective - III Lab	1	Professional Elective - III Lab	1
9.	*ES608BS	Environmental Science	-	Environmental Science	-
TOTAL CREDITS			22	TOTAL CREDITS	22



IV YEAR I SEMESTER COURSE STRUCTURE (SMEC R20)

S. No.	Course Code	SMEC (R20) SYLLABUS Course Title	SMEC Credits	JNTUH SYLLABUS (R18) Course Title	JNTUH Credits
1.	AIM701PC	Neural Networks & Deep Learning	3	Neural Networks & Deep Learning	3
2.	AIM702PC	Reinforcement Learning	2	Reinforcement Learning	2
3.		Professional Elective - IV	3	Professional Elective - IV	3
4.		Professional Elective - V	3	Professional Elective - V	3
5.		Open Elective - II	3	Open Elective - II	3
6.	AIM703PC	Deep Learning Lab	1	Deep Learning Lab	1
7.	AIM704PC	Industrial Oriented Mini Project/ Summer Internship	2	Industrial Oriented Mini Project/ Summer Internship	2
8.	AIM705 PC	Seminar	1	Seminar	1
9.	AIM706PC	Project Stage – I	3	Project Stage – I	3
TOTAL CREDITS			21	TOTAL CREDITS	21

Copy to:

1. Principal

2. IQAC

Chairman
Dr. N. Krishnaiah
HOD (AI & ML)

Head of the Department
Department of Artificial Intelligence and Machine Learning (AI & ML)
St. Martin's Engineering College
Dhulapally, Secunderabad, Telangana-500100.