

# *B.N.M. Institute of Technology*

An Autonomous Institution under VTU, Approved by AICTE  
Department of Artificial Intelligence and Machine Learning

## Minutes of the Meeting

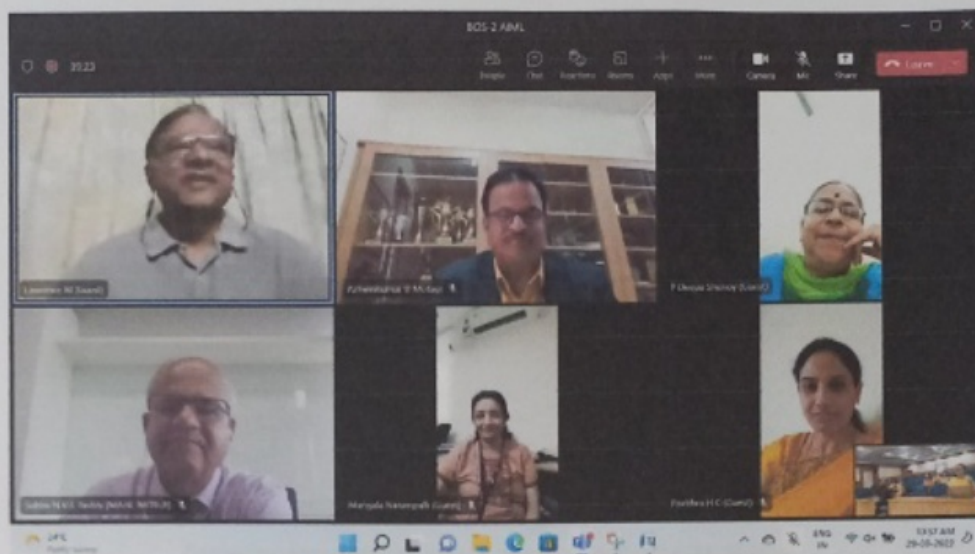
### Meeting Details    BOS Meeting

**Date**    29/09/2022  
**Time**    10.30 AM to 1 PM  
**Venue**    N Block, N401

Members Present	<ol style="list-style-type: none"><li>1. Dr. Sejal Santosh Nimbhorkar, Chairperson</li><li>2. Dr. N V Subba Reddy, VTU Nominee</li><li>3. Dr. Ramesh Kestur, Subject expert from outside university</li><li>4. Dr. P Deepa Shenoy, Subject expert from outside university</li><li>5. Dr. Ashwin U M, Subject expert from outside university</li><li>6. Ms. Mangala N, Industry expert</li><li>7. Mr. Lawrence M Raj, Industry expert</li><li>8. Dr. Anusha Preetham, Member Secretary</li><li>9. Prof. Mohanesh B M, Member</li><li>10. Prof. Poornima N, Member</li><li>11. Prof. Pavithra H C, Member</li><li>12. Prof. Nagarathna C R, Member</li></ol>
Members Absent	Prof. Mohanesh B M, Member
Agenda	<ol style="list-style-type: none"><li>1. Welcome address</li><li>2. Introduction</li><li>3. Best practices in curriculum design</li><li>4. Presentation of scheme of 3rd to 8th semester AI and ML</li><li>5. Syllabus presentation of 3rd and 4th semester AI and ML</li><li>6. Any other suggestions to the department</li><li>7. Concluding remarks by member secretary</li></ol>
<b>Proceedings of the meeting</b>	
	<ul style="list-style-type: none"><li>• The meeting started with Welcome speech by chairperson followed by introduction of VTU nominee, External Subject experts, Industry experts and BNMIT internal members.</li><li>• Best practices in curriculum design was discussed. Various universities like IIT- Hyderabad, Amrita University and Reva University scheme was referred while preparing Scheme. Online professional courses like great learning, Upgrade + IIIT-B etc. and Industry experts' opinion is considered for professional courses.</li><li>• Scheme of 3<sup>rd</sup> semester to 8<sup>th</sup> semester of Artificial Intelligence and Machine Learning for Autonomous was presented.</li><li>• Syllabus of 3<sup>rd</sup> and 4<sup>th</sup> semester was discussed, along with evaluation scheme.</li><li>• Suggestions by expert members were noted during scheme and syllabus presentation.</li></ul>

	<ul style="list-style-type: none"> <li>Member Secretary briefed about suggestion discussed and concluded meeting with thank you note.</li> </ul>
<b>Recommendations / Suggestions from the BOS Members</b>	
<b>Member 1</b> <b>Dr. N V Subba Reddy</b> Professor, Dept. of CSE Manipal Institute of Technology (VTU NOMINEE)	<ul style="list-style-type: none"> <li>To ensure that the lab programs are aligned with the theory syllabus.</li> <li>Subject contact hours of the scheme should match with timetable.</li> </ul>
<b>Member 2</b> <b>Dr. Ramesh Kestur</b> Senior Research Fellow and Adjunct Faculty IIIT-B ( Subject Expert from outside university)	<ul style="list-style-type: none"> <li>"Ethics in AI" can be included in Humanity course.</li> <li>Mathematics Course should have real-world application and it can be evaluated by giving seminars to the students.</li> <li>DFT's and FFT's topics can be included in Mathematics course.</li> <li>Python course should be taught with fundamentals of OOPs concepts.</li> <li>Probability distribution topics should be taught with proof.</li> <li>Reduce Machine Learning syllabus and can be added to AI syllabus.</li> <li>Deploy ML projects developed by the students to the MLops platform.</li> </ul>
<b>Member 3</b> <b>Dr. P Deepa Shenoy</b> Professor, Department of CSE, UVCE, Bangalore University ( Subject Expert from outside university)	<ul style="list-style-type: none"> <li>Check if the NPTEL courses go along the running semester if at all the department plans for the certification course from NPTEL.</li> </ul>
<b>Member 4</b> <b>Dr. Ashwin U M</b> Professor, Dept. of CSE Reva University ( Subject Expert from outside university)	<ul style="list-style-type: none"> <li>Ensure IPL (Innovative Project Lab) doesn't overlap with PBL courses.</li> <li>Credit courses completed through certification preferably by NPTEL.</li> <li>Mathematics Course should create awareness of real-world application.</li> </ul>
<b>Member 5</b> <b>Ms. Mangala N</b> Senior Director, CDAC (Industry Expert)	<ul style="list-style-type: none"> <li>Connect to CDAC for cloud computing lab.</li> </ul>
<b>Member 6</b> <b>Mr. Lawrence M Raj</b> Ex. Country Leader – IBM Academic Initiatives India (Industry Expert)	<ul style="list-style-type: none"> <li>Self-assessment in course can be conducted through IBM, cognitiveclass.ai (<a href="https://cognitiveclass.ai">https://cognitiveclass.ai</a>)</li> <li>Recommended industry experts for the Technical-Skill Course.</li> <li>More credit can be given for Cloud computing course.</li> </ul>
<b>Concluding Remarks by Member Secretary</b>	<ul style="list-style-type: none"> <li>Machine Learning Syllabus can be reduced.</li> <li>More credit can be given for Cloud computing course.</li> <li>MLops can be used for deploying Machine Learning Projects</li> <li>Python course can be reframed by adding OOP concepts and advance python topics</li> </ul>





Top-Left: Mr. Lawrence M Raj - Ex. Country Leader – IBM Academic Initiatives India, Top-Middle: Dr. Ashwin U M - Professor, Dept. of CSE – Reva University, Top-Right: P Deepa Shenoy, Professor, Department of CSE, UVCE, Bangalore University, Bottom-left: Dr. N V Subba Reddy - Professor, Dept. of CSE, Manipal Institute of Technology, Bottom-middle: Ms. Mangala N - Senior Director, CDAC Bottom-right: Prof. Pavithra H C, Internal Member, BNMIT. Bottom-right corner: Offline members.

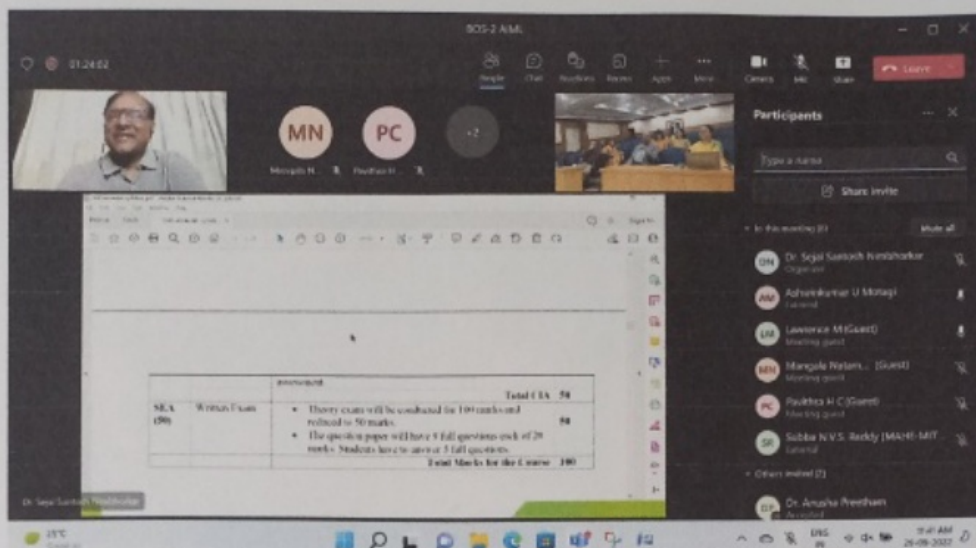
For Internal Communication

Department of Artificial Intelligence and Machine Learning  
Scheme of Teaching 2022-23 - Choice Based Credit System (CBCS) Total Credits - 120  
III Semester B.E. Curriculum

S. No.	Type of Course	Course Code	Course Title	Teaching Department	Hours per week	Practical	Project	Internship	Elective	Credits	CLAs	SLAs	Total
1	BAC	22A15101	Discrete Structures, Combinatorics and Graph Theory	Mathematics	3	2	-	-	4	3	50	50	100
2	PC	22A15102	Computer Organization and Architecture	AI and ML	3	-	-	-	3	3	50	50	100
3	PC	22A15103	Discrete Mathematics and Graph Theory	AI and ML	3	-	-	-	3	3	50	50	100
4	PC	22A15104	Data Structures Using C	AI and ML	3	-	2	-	5	6	50	50	100
5	PC	22A15105	Microcontroller and Embedded Systems	AI and ML	3	-	3	1	5	6	50	50	100
6	PC	22A15106	Object Oriented Programming using Java	AI and ML	-	-	2	2	4	2	50	50	100
7	PC	22A15107	Intermediate Project Lab	AI and ML	-	-	-	2	1	1	100	-	100
8	PC	22A15108	Coordination of Labs and Internship (100%)	Electronics	-	2	-	-	2	5	100	-	100
9	PC	22A15109	Self Study	Electronics	-	-	2	-	2	5	100	-	100
Total					14	4	3	5	30	22	600	600	1200

BAC - Basic Science Course  
PC - Professional Core Course  
PCE - Professional Core Elective  
PCEI - Professional Core Elective Integrated  
PCEI - Professional Core Elective Integrated

Curriculum Presentation by BOS- Chairman



Presenting Semester End Assessment process and grades allotted



#### Left Column

Row1 - Left: BOS-chairman, Dr. Sejal Santosh Nimbhorkar, Row1-Right: Dr. S. Y. Kulkarni, Additional Director, BNMIT, Row2 – Left: Prof. Nagarathna C R, Internal member, Row2-Right: Dr. Anusha Preetham, Member Secretary Row3: Prof. Ramya K, AIML

#### Right Column

Row1: Dr. Ramesh Kestur, External Expert, Row2-left, Prof. Abhilasha, AIML, Row2-Right: Prof. Poornima N, Internal member





**Standing, near podium:** Prof. Soumya C S, AIML

**Left Column**

Row1 - Left: BOS-chairman, Dr. Sejal Santosh Nimbhorkar, Row1-Right: Dr. S. Y. Kulkarni, Additional Director, BNMIT, Row2 – Left: Prof. Nagarathna C R, Internal member, Row2-Right: Dr. Anusha Preetham, Member Secretary Row3: Prof. Ramya K, AIML

**Right Column**

Row1: Dr. Ramesh Kestur, External Expert, Row2-left, Prof. Abhilasha, AIML, Row2-Right: Prof. Poornima N, Internal member