

# *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**

<b>Meeting Details</b>	<b>BOS Meeting</b>
<b>Date</b>	27/10/2021
<b>Time</b>	11 AM to 1 PM
<b>Venue</b>	Main Building Seminar hall

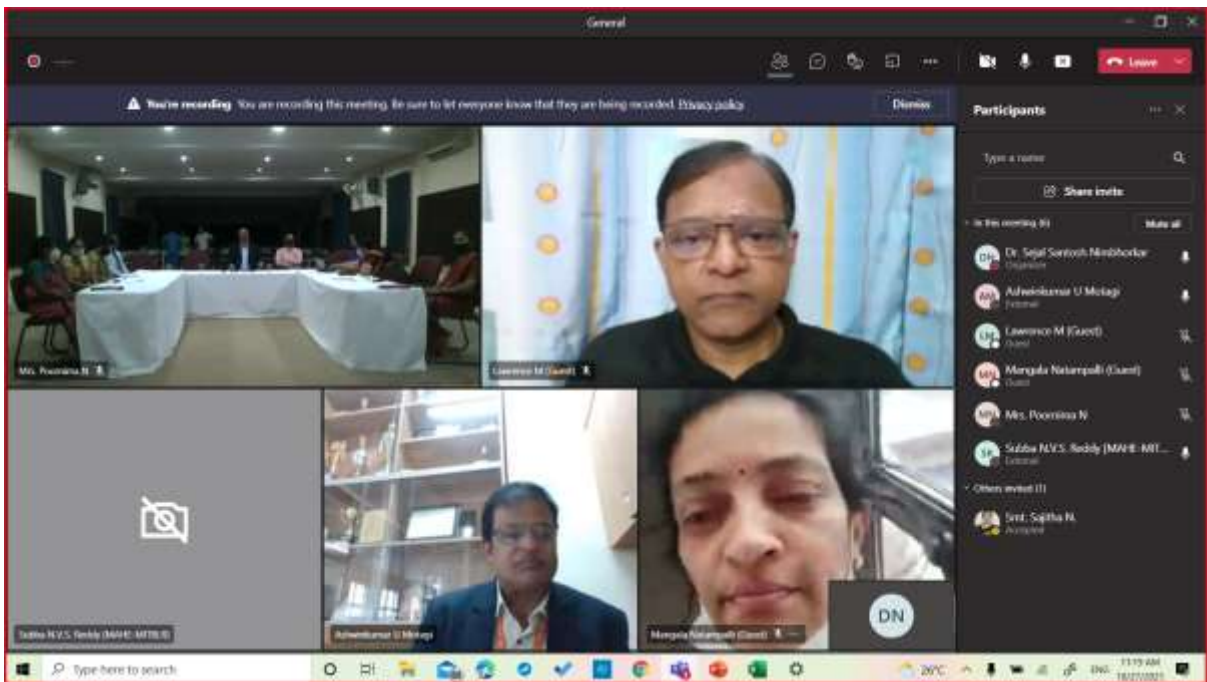
<b>Members Present</b>	<ol style="list-style-type: none"><li>1. Dr. Sejal Santosh Nimbhorkar, Chairperson</li><li>2. Dr. N V Subba Reddy, VTU Nominee</li><li>3. Dr. Ramesh Kestur, Subject expert from outside university</li><li>4. Dr. P Deepa Shenoy, Subject expert from outside university</li><li>5. Dr. 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. Prof. Sajitha N, 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. Sushma T S, Member</li></ol>
<b>Members Absent (Reasons)</b>	-NIL-
<b>Agenda</b>	<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 3<sup>rd</sup> to 8<sup>th</sup> semester AI and ML</li><li>5. Any other suggestions to the department</li><li>6. 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 university like IIT- Hyderabad, Amrita University and Reva University scheme was referred while preparing Scheme. Online professional courses like great learning, Upgrade +</li></ul>

	<p>IIIT-B etc. and Industry experts' opinion is considered for professional courses.</p> <ul style="list-style-type: none"> <li>• Scheme of Artificial Intelligence and Machine Learning for Autonomous was presented.</li> <li>• Suggestions by expert members are discussed during scheme presentation.</li> <li>• Member Secretary briefed about suggestion discussed and concluded meeting with thank you note.</li> </ul>
<b>Recommendations / Suggestions from the BOS Members</b>	
<p><b>Memembr1</b>  <b>Dr. N V Subba Reddy</b>  Professor, Dept. of CSE  Manipal Institute of Technology  (VTU NOMINEE)</p>	<ul style="list-style-type: none"> <li>• Pattern Recognition and Machine Learning course name of 5<sup>th</sup> semester can be reframed to Pattern Recognition.</li> <li>• Natural Language and Speech Recognition course name of 7<sup>th</sup> semester can be changed to Natural Language Processing.</li> <li>• Professional elective cluster name “Healthcare and Security” can be renamed as “Security in Healthcare”.</li> <li>• “Augmented Reality and Virtual Reality” course name in professional elective should be changed to Virtual Reality and Augmented Reality”.</li> <li>• “Change and Knowledge Management” course name in professional elective can be changed to “Knowledge Management”.</li> <li>• Articulation skills for report writing can be incorporated in Technical English course while framing syllabus.</li> </ul>
<p><b>Member2</b>  <b>Dr. Ramesh Kestur</b>  Senior Research Fellow and  Adjunct Faculty  IIIT-B  ( Subject Expert from outside university)</p>	<ul style="list-style-type: none"> <li>• Suggested to include Object-Oriented concepts using C++ or Java (one full course on C++ because it is required in OpenCV tool of pattern recognition course)</li> <li>• 3blue1brown, an open-source animated python-based platform for mathematical concepts can be incorporated.</li> <li>• Stochastic gradient descent concepts should be included syllabus of mathematics.</li> <li>• Projects on Chatbot can be incorporated in experiments in Natural Language Processing laboratory.</li> <li>• Students' project can be uploaded in Github repository with college account for industry evaluation.</li> <li>• Metaheuristic algorithm/ Bio Inspired algorithms/Nature inspired Algorithm/Genetic algorithm course can be introduced in any one professional elective cluster.</li> </ul>
<p><b>Member 3</b>  <b>Dr. P Deepa Shenoy</b>  Professor, Department of CSE,  UVCE, Bangalore University  ( Subject Expert from outside university)</p>	<ul style="list-style-type: none"> <li>• Credit of python programming can be increased.</li> <li>• Topics of Mathematics for Intelligent Systems – III and IV was discussed.</li> </ul>

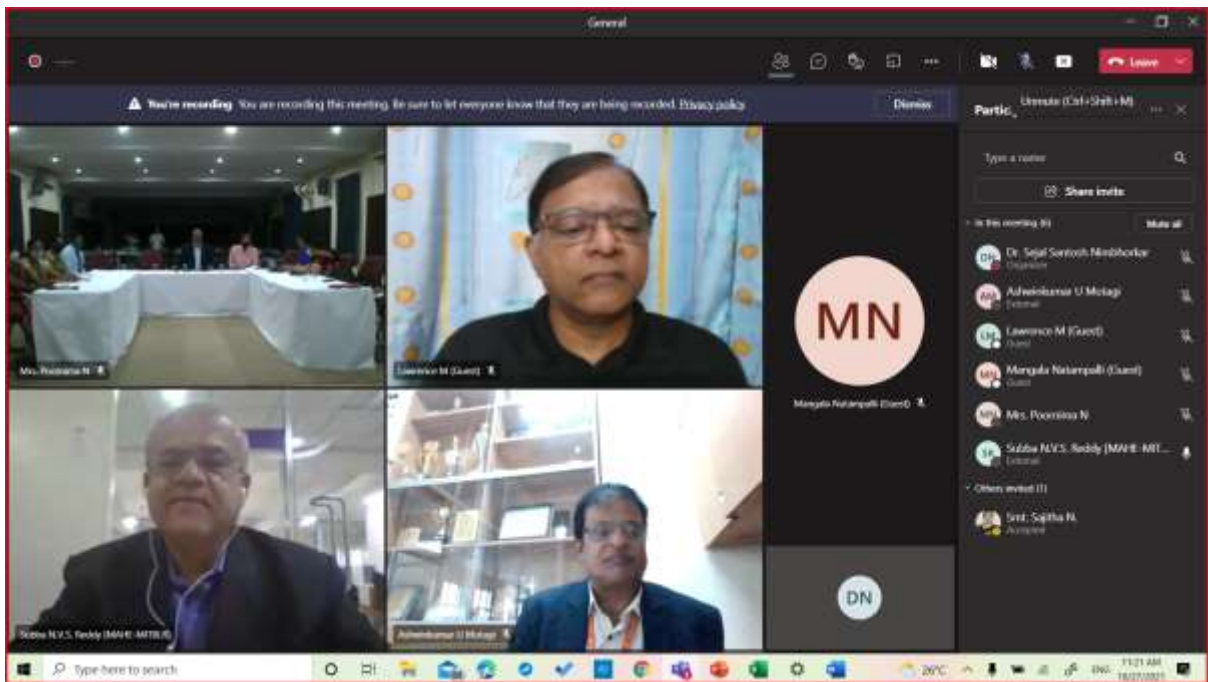
<p><b>Member 4</b></p> <p><b>Dr. Ashwin U M</b>  Professor, Dept. of CSE  Reva University  ( Subject Expert from outside university)</p>	<ul style="list-style-type: none"> <li>• Practical component of 4 hours of python programming course can be split into 2 hours of practical and 2 hours of project component.</li> <li>• If students are unable to get paid internship then global certifications (e.g. Microsoft, Oracle, RedHat....) can be considered as an internship.</li> </ul>
<p><b>Member 5</b></p> <p><b>Ms. Mangala N</b>  Senior Director, CDAC  (Industry Expert)</p>	<ul style="list-style-type: none"> <li>• Include practical component in different lifecycles of Software Engineering of 6<sup>th</sup> semester.</li> <li>• CDAC can provide access to supercomputer resources for the course “High performance computing” of Professional elective</li> <li>• Quantum computing along with distributed computing and High-Performance Computing can be incorporated.</li> </ul>
<p><b>Member 6</b></p> <p><b>Mr. Lawrence M Raj</b>  Ex. Country Leader – IBM  Academic Initiatives India  (Industry Expert)</p>	<ul style="list-style-type: none"> <li>• Real time application of mathematical topics should be included while framing the syllabus in Mathematics for Intelligent Systems-III and IV.</li> <li>• Healthcare related application can be included as part of syllabus for the course Biology for Engineers.</li> <li>• Collaboration with IBM Watson for professional elective is suggested.</li> <li>• Self-assessment Badge oriented courses that are globally acceptable and electronically discoverable can be incorporated instead of MOOC courses.</li> <li>• Internship can be taken up as an externship with IBM in online mode.</li> <li>• Quantum Computing can be introduced instead of High-Performance Computing in collaboration with IBM.</li> </ul>
<p><b>Concluding Remarks by Member Secretary</b></p>	<ul style="list-style-type: none"> <li>• Real time application of mathematical topics can be included while framing the syllabus in Mathematics for Intelligent Systems-III and IV.</li> <li>• Self-assessment Badge oriented courses that are globally acceptable and electronically discoverable can be incorporated instead of MOOC courses.</li> <li>• Course name change suggested by Dr. N V Subba Reddy should be incorporated.</li> <li>• Projects on Chatbot can be incorporated in experiments in Natural Language Processing laboratory.</li> </ul>



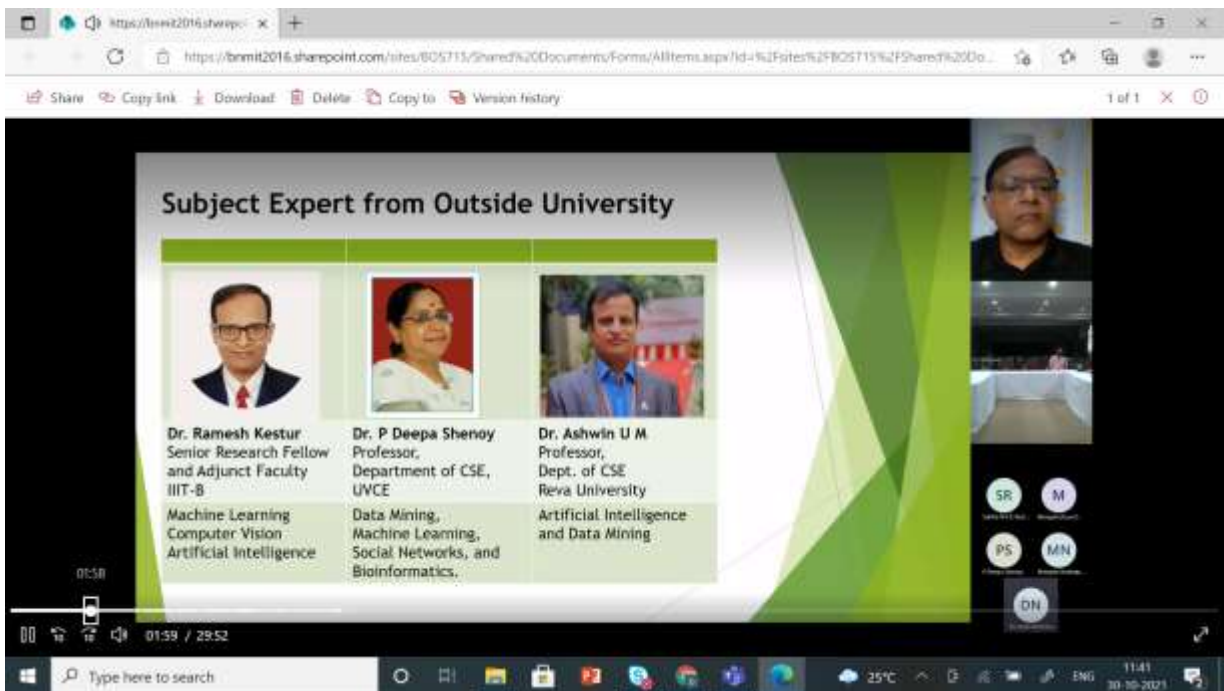
Left to Right – Prof. Poornima N, Prof. Pavithra H C, Prof. Sushma T S, Prof. Mohanesh B M, Dr. S Y Kulkarni - Additional Director, BNMIT, Dr. Ramesh Kestur - Senior Research Fellow and Adjunct Faculty, IIIT-B, Dr. Sejal Santosh Nimbhorkar, Prof. Sajitha N, Prof. Sunitha R



Top-right : Mr. Lawrence M Raj - Ex. Country Leader – IBM Academic Initiatives India, Down Middle : Dr. Ashwin U M - Professor, Dept. of CSE – Reva University, Down Left : Ms. Mangala N - Senior Director, CDAC



Top-right : Mr. Lawrence M Raj - Ex. Country Leader – IBM Academic Initiatives India,  
 Down Middle : Dr. Ashwin U M - Professor, Dept. of CSE – Reva University,  
 Down Right : Dr. N V Subba Reddy - Professor, Dept. of CSE, Manipal Institute of Technology



Introduction of Subject Expert from Outside University



## Members present

Sl. No	Name	Signature
1.	Chairperson <b>Dr. Sejal Santosh Nimbhorkar</b> Professor & Head AI & ML	
VTU Nominee		
2.	<b>Dr. N V Subba Reddy</b> Professor, Dept. of CSE Manipal Institute of Technology	
External BOS Member		
3.	<b>Dr. Ramesh Kestur</b> Senior Research Fellow and Adjunct Faculty IIIT-B	
4.	<b>Dr. P Deepa Shenoy</b> Professor, Department of CSE, UVCE, Bangalore University	
5.	<b>Dr. Ashwin U M</b> Professor, Dept. of CSE Reva University	
6.	<b>Ms. Mangala N</b> Senior Director, CDAC	
7.	<b>Mr. Lawrence M Raj</b> Ex. Country Leader – IBM Academic Initiatives India	
Internal Members		
8.	Prof. Sajitha N Assistant Professor	
9.	Prof. Mohanesh B M Assistant Professor	
10.	Prof. Poornima N Assistant Professor	
11.	Prof. Pavithra H C Assistant Professor	
12.	Prof. Sushma T S Assistant Professor	