



# Malla Reddy Engineering College

(An UGC Autonomous Institution approved by AICTE and affiliated to JNTU Hyderabad, Accredited by NAAC with 'A' Grade (II - cycle)  
NBA Accredited Programmes - UG (CE, EEE, ME, ECE & CSE) PG (CE - Structural Engg., EEE-Electrical Power Systems, ME - Thermal Engg.).

Date: 14.03.2022

## ORDER

Malla Reddy Engineering College (Autonomous) is a self-financed UGC-Autonomous Institution, Approved by AICTE and affiliated to Jawaharlal Nehru Technological University, Hyderabad, Recognized under 2(f) & 12 (B) of UGC Act 1956, Accredited by NAAC with Grade 'A++' (III Cycle) and NBA (UG-CE, EEE, ME, ECE, CSE & PG-SE, TE and EPS). The department academic activities are governed through a Board of Studies (BoS) which is responsible for its overall framing of schema and syllabus for various courses in the keeping in view the objectives of the college, interest of the stakeholders and national requirement for consideration and forwards for approval of the Academic Council.

The UG-B.Tech-Artificial Intelligence and Machine Learning (AIML) Board of Studies (BoS) for the Academic Years 2021-22 and 2022-23 have been constituted as per the UGC guidelines.

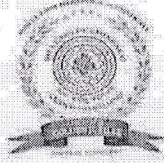
The following is the list of Board of Studies (BoS) members constituted for the Academic Years 2021-22 to 2022-23.

S. No.	Name of the Member	Designation	Phone No. & e-mail id	Subject Specialization	Position	Category
<b>Chairman (Concerned Head of the Department)</b>						
1	Dr. Deena Babu Mandru	HoD & Professor	9491369993, dr.deenababumandru@mrec.ac.in	AIML	Chairman	Chairman
<b>One expert Member to be nominated by the Vice-Chancellor of the Affiliating University</b>						
2	Prof.A.Govardhan	Professor & Rector, JNTUH, Hyderabad	9963955583 govardhan_cse@jntuh.ac.in	CSE	Member	University Nominee
<b>Two Subject Experts from Outside the Affiliating University to be Nominated by the Academic Council</b>						
3	Dr.C.Krishna Mohan	Professor, Dept. of CSE, IIT-Hyderabad	9491712312, ckm@cse.iith.ac.in	CSE	Member	Subject Expert
4	Dr.D.V.N.Siva Kumar	Assistant Professor, CS&IS Department, BITS Pilani, Hyd	7702885347, sivakumar@hyderabad.bits-pilani.ac.in	CS&IS	Member	Subject Expert
<b>One Representative from Industry/Corporate Sector/Allied Area Relating to Placement</b>						
5	Mr.Phani Karnati	Head of AIML, ViHaVe.ai	9100560557, phani@vihave.ai	AIML	Member	Industry Expert
<b>The faculty of Specialization</b>						
6	Dr.G.Rama Krishna	Assistant Professor	89193 42334, ramakrishna1244@gmail.com	IT	Member	Teaching Staff
7	Mrs.M.Sandhya Vani	Assistant Professor	95424 55985, vani.meruva@gmail.com	IT	Member	Teaching staff
8	Mr. A. Venktrami Reddy	Assistant Professor	7993693680, ailuri.vreddy@gmail.com	IT	Member	Teaching staff
9	Mr.E.Srinivasa Reddy	Associate Professor	99023 55335, swapnase.mtech@gmail.com	IT	Member	Teaching staff
<b>One Graduate Meritorious Alumnus to be Nominated by the Principal</b>						
10	Mr. Vishal Cheruku	Transportation Specialist-I, Amazon services Pvt Ltd, Hyd.	7396802209, vishalcherku6@gmail.com	IT	Member	Alumni (MR13Batch)



  
Principal  
Malla Reddy Engineering College  
Mairammanada, Dhulavani

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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
(Established by Govt. Act No.30 of 2008)  
Kukatpally, Hyderabad – 500 085, Telangana (India)

**Dr. M. Manzoor Hussain**  
M.Tech., Ph.D.,  
Professor of Mechanical Engineering &  
**REGISTRAR**

Lr. No. D1/960/2022

Date 31.01.2022

To  
The Principal  
Malla Reddy Engineering College  
Maisammaguda, Dhulapally post (via Kompally),  
Medchal- Malkajgiri Dist.,

Sir,

Sub: JNTUH – DAP – Nomination of University nominee as a BoS member for the Department of B. Tech (Artificial Intelligence & Machine Learning) in respect of Malla Reddy Engineering College. – Reg.

Ref: 1. Your Lr. No MREC/Autonomous/BOS/2021-22/1, dated. 27.11.2021.  
2. Note file orders of the Vice-Chancellor, Dt. 27.01.2022

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With reference to the (2) cited, the Hon'ble Vice-Chancellor is pleased to nominate Dr. A. Govardhan, Prof. of CSE, JNTUH University College of Engineering Hyderabad, as a BoS member for the Department of B. Tech (Artificial Intelligence & Machine Learning) of your College for a period upto 19.03.2024.

Yours Sincerely,

  
REGISTRAR

Copy to:  
Dr. A. Govardhan, Prof. of CSE, JNTUH University College of Engineering Hyderabad.



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### Department of B.Tech-AIML

April 6<sup>th</sup>, 2022

#### Agenda

The following is the agenda for the meeting.


1. Discussion and approval of I Year and II Year Course Schema and detailed Syllabus for MR21 Regulations.
2. Any others suggested by Honorable Members

  
Dr. Deena Babu Mandru  
(Chairman)







M. Srinivas Reddy  






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### Department of B.Tech-AIML

April 6<sup>th</sup>, 2022

### Attendance Sheet

The 1<sup>st</sup> Board of Studies (BoS) meeting for B.Tech-AIML (UG) is held on April 6<sup>th</sup>, 2022 at 05:30 P.M. through Online (Zoom App) mode to discuss the Course Schema and Syllabus of 1<sup>st</sup> and 2<sup>nd</sup> Year for MR21 regulations. The following members are attended to the meeting to finalize course structure, syllabus and few amendments of MR21 Regulations and other points of agenda.

S. No.	Name of the Member	Designation & Official Address	Category	Signature
1	Dr. Deena Babu Mandru	Professor & HOD	Chairman	
2	Dr.A.Govardhan	Professor, Dept. of CSE & Rector, JNTUH, Hyd.	University Nominee	
3	Dr.C.Krishna Mohan	Professor, Dept. of CSE, IIT-Hyderabad	Subject Expert (Outside the Parent University)	online
4	Dr.D.V.N.Siva Kumar	Assistant Professor, Dept. of CS&IS, BITS Pilani, Hyderabad	Subject Expert (Outside the Parent University)	online
5	Mr.Phani Karnati	Head of AIML, ViHaVe.ai, Hyderabad	Industry Expert	online.
6	Dr.G.Rama Krishna	Assistant Professor	Member	
7	Mrs.M.Sandhya Vani	Assistant Professor	Member	
8	Mr.A.Venktrami Reddy	Assistant Professor	Member	
9	Mr.M.Srinivasa Reddy	Associate Professor	Member	
10	Mr. Vishal Cheruku	Transportation Specialist-I, Amazon Pvt Ltd, Hyderabad	Member	online.

  
Dr. Deena Babu Mandru  
Chairman-BoS



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### Department of B.Tech-AIML

April 6<sup>th</sup>, 2022

#### Minutes of the Meeting

The 1<sup>st</sup> Board of Studies (BoS) meeting for B.Tech-AIML (UG) is held on April 6<sup>th</sup>, 2022 at 05:30 P.M. through Online (Zoom App) mode to discuss the Course Schema and Syllabus of 1<sup>st</sup> and 2<sup>nd</sup> Year for MR21 regulations. The following members are attended to the meeting to discuss the proposed Course Schema, Syllabus for the Academic Year 2021-22 and 2022-23.

Sl. No	Name of the Member	Designation	Position	Mode of Attendance
1	Dr. Deena Babu Mandru	HoD & Professor	Chairman	Offline
2	Dr.A.Govardhan	Professor & Rector, JNTUH, Hyderabad	Member	Zoom
3	Dr.C.Krishna Mohan	Professor, Dept. of CSE, IIT-Hyderabad	Member	Zoom
4	Dr.D.V.N.Siva Kumar	Assistant Professor, Dept. of CS&IS, BITS Pilani, Hyderabad	Member	Zoom
5	Mr.Phani Karnati	Head of AIML, ViHaVe.ai, Hyderabad	Member	Zoom
6	Dr.G.Rama Krishna	Assistant Professor	Member	Offline
7	Mrs.M.Sandhya Vani	Assistant Professor	Member	Offline
8	Mr. A. Venktrami Reddy	Assistant Professor	Member	Offline
9	Mr.M.Srinivasa Reddy	Associate Professor	Member	Offline
10	Mr. Vishal Cheruku	Transportation Specialist-I, Amazon Pvt Ltd, Hyderabad	Member	Zoom

**a. The following is the Agenda for the meeting.**

1. Discussion and approval of I Year and II Year Course Schema and Syllabus.
2. Any others suggested by Honorable Members

At the outset, Dr. Deena Babu Mandru, Chairman of the Board of Studies welcomed the members to the meeting and briefs the agenda of the meeting. Later BoS Members reviewed and discussed each item of the proposed agenda and finally the members are accepted to implement from the Academic Year 2021-22 and onwards.

*C. Deena Babu Mandru*  
*M. Srinivasa Reddy*

*M. Srinivasa Reddy*

**b. The following suggestions are given by the BoS Members:**


1. **Dr.A.Govardhan**, suggested that while preparing course schema/structure make sure that number of credits of the program not more than 160 credits.
2. Dr.D.V.N.Siva Kumar suggested that include more applications of Artificial Intelligence concepts in “**Applications of Artificial Intelligence**” subject of 2<sup>nd</sup> Year 1<sup>st</sup> Semester.


**c. The following resolutions are approved after careful discussion and observations:**

The BoS Members have thoroughly discussed and approved

1. I Year and II Year Course Schema and Syllabus for MR21 regulations as per the guidelines of the AICTE, UGC and JNTUH, Hyderabad.

Finally, the Chairman of BoS expressed his sincere thanks to all the members for their active participation and suggestions. The meeting was concluded at 06:30 PM.

  
**Dr.Deena Babu Mandru**  
(Chairman)

  H.S.

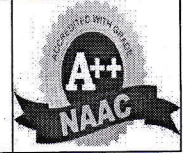
M. Srinivas Reddy





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### Department of Artificial Intelligence and Machine Learning Course Structure

(MR21 Regulations-Effective from A.Y: 2021-22 Onwards)

I Year I Semester							
S. No	Category	Course Code	Name of the Subject	Contact Hours/Week			Credits
				L	T	P	
1.	BSC	B0B01	Linear Algebra and Numerical Methods	3	1	-	4
2.	BSC	B0B17	Engineering Chemistry	3	1	-	4
3.	ESC	B0501	Programming for Problem Solving	3	-	-	3
4.	ESC	B0301	Engineering Graphics	2	-	2	3
5.	BSC	B0B09	Semiconductor Physics	3	1	-	4
6.	ESC	B0502	Programming for Problem Solving Lab	-	1	2	1.5
7.	BSC	B0B11	Applied Physics Lab	-	-	2	1
8.	BSC	B0B18	Engineering Chemistry Lab	-	-	2	1
<b>Total</b>				<b>15</b>	<b>4</b>	<b>8</b>	<b>21.5</b>
<b>Total Contact Hours</b>				<b>27</b>			

I Year II Semester							
S. No	Category	Course Code	Name of the Subject	Contact Hours/Week			Credits
				L	T	P	
1.	HSMC	B0H01	English	3	-	-	3
2.	ESC	B0201	Basic Electrical and Electronics Engineering	3	-	-	3
3.	BSC	B0B02	Probability and Statistics	3	-	-	3
4.	ESC	B0504	Python Programming	3	1	-	4
5.	ESC	B0506	Python Programming Lab	-	1	2	2
6.	HSMC	B0H02	English Language and Communication Skills Lab	-	-	3	1
7.	ESC	B0202	Basic Electrical and Electronics Engineering Lab	-	-	2	1
8.	ESC	B1201	Engineering and IT Workshop	-	-	2	1.5
<b>Total</b>				<b>12</b>	<b>2</b>	<b>9</b>	<b>18.5</b>
<b>Total Contact Hours</b>				<b>23</b>			

M. Srinivas Reddy  
H. Jayaram

C. S. Reddy  
H. S. Reddy

J. Reddy

II Year I Semester							
S. No	Category	Course Code	Name of the Course	Teaching Hours/Week			Credits
				L	T	P	
1	PCC	B0507	Discrete Mathematics	3	-	-	3
2	PCC	B0508	Computer Organization and Architecture	3	-	-	3
3	PCC	B0509	Data Structures	3	-	-	3
4	PCC	B6601	Applications of Artificial Intelligence	3	-	-	3
5	PCC	B0510	Object Oriented Programming	3	-	-	3
6	PCC	B0512	Data Structures Lab	-	-	3	1.5
7	PCC	B6602	Applications of Artificial Intelligence Lab	-	-	3	1.5
8	PCC	B0513	Object Oriented Programming Lab	-	1	2	2
9	MC	B00M1	Gender Sensitization	-	-	2	-
10	AC	B00A2	Internship-I	-	-	-	-
11	AC	B00A4	NPTEL-I	-	-	2	-
<b>Total</b>				<b>15</b>	<b>1</b>	<b>12</b>	<b>20</b>
<b>Total Contact Hours</b>				<b>28</b>			

II Year II Semester							
S. No	Category	Course Code	Name of the Course	Teaching Hours/Week			Credits
				L	T	P	
1	BSC	B0B07	Applied Statistics and Optimization Techniques	3	-	-	3
2	PCC	B0511	Operating Systems	3	-	-	3
3	PCC	B6603	Machine Learning Foundations	3	-	-	3
4	PCC	B0516	Design & Analysis of Algorithms	3	-	-	3
5	<b>Professional Elective-I</b>						
	PEC-I	B1203	Computer Graphics	3	-	-	3
		B1206	Android Application Development				
		B1204	Web Technologies				
		B7301	Data Visualization				
B7302		Data Science and Engineering					
6	PCC	B0514	Operating Systems Lab	-	1	2	2
7	PCC	B6606	Machine Learning Foundations Lab	-	-	3	1.5
8	PCC	B0521	Design & Analysis of Algorithms Lab	-	-	3	1.5
9	MC	B0M2	Environmental Science	2	-	-	-
10	AC	B0A5	NPTEL-II	-	-	2	-
11	AC	B0A6	Co-Curricular Activity-I	-	-	1	-
<b>Total</b>				<b>17</b>	<b>1</b>	<b>11</b>	<b>20</b>
<b>Total Contact Hours</b>				<b>29</b>			

M. Srinivas Reddy  
H. Adiyavani

C. S. S.  
P. S.

J. S.