

Malla Reddy Engineering College

(An UGC Autonomous Institution, Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad). Accredited 3rd time by NAAC with 'A++' Grade, NIRF Rank Band 250-300, ARIIA Band Performer, NBA Tier –I Accredited (B.Tech – CE, EEE, ME, ECE & CSE, M.Tech – Structural Engg, Electrical Power Systems, Thermal Engg.) Maisammaguda(H), Medchal - Malkajgiri District, Secunderabad, Telangana State – 500100, www.mrec.ac.in



The 4th BOARD OF STUDIES MEETING

ACADEMIC YEAR 2022-23

(MR22 AND MR21 REGULATIONS)

B.TECH-AIML-BOS

DEPARTMENT OF B.TECH-AIML

H. Srinivas Reddy



Malla Reddy Engineering College

(An UGC Autonomous Institution, Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad). Accredited 3rd time by NAAC with 'A++' Grade, NIRF Rank Band 250-300, ARIIA Band Performer, NBA Tier -I Accredited (B.Tech – CE, EEE, ME, ECE & CSE, M.Tech – Structural Engg, Electrical Power Systems, Thermal Engg.) Maisammaguda(H), Medchal - Malkajiri District, Secunderabad, Telangana State – 500100, www.mrec.ac.in



Department of B.Tech-AIML

Date: 17/02/2023

Board of Studies Meeting

The 4th Board of Studies meeting for B.Tech-AIML Programme is scheduled for the Academic Year 2023-24 on 17.02.2023 at 11:30 A.M. in hybrid mode (Online / Offline).

The Agenda of the meeting is as follows:

AGENDA

1. Action Taken Report (ATR) on previous BOS Meeting for the A.Y 2022-23 which is held on 5th Nov, 2022
2. Discussion and Approval of Course Structure and Syllabus for II Year of MR22 Regulations and III Year of MR21 Regulations.
3. Approval of any other item with the permission of the Chairman.


Chairman, BoS

B.Tech-AIML-UG



H. Srinivas Reddy

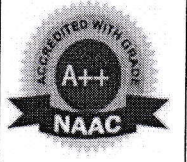






Malla Reddy Engineering College

(An UGC Autonomous Institution, Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad). Accredited 3rd time by NAAC with 'A++' Grade, NIRF Rank Band 250-300, ARIIA Band Performer, NBA Tier -I Accredited (B.Tech - CE, EEE, ME, ECE & CSE, M.Tech - Structural Engg, Electrical Power Systems, Thermal Engg.) Maisammaguda(H), Medchal - Malkajgiri District, Secunderabad, Telangana State - 500100, www.mrec.ac.in



Department of B.Tech-AIML

Date: 17-02-2023

Attendance Sheet

The 4th Board of Studies meeting for B.Tech-AIML (UG) was held on 17-02-2023 at 11.30 A.M in the Hybrid mode (Online/Offline). The following members are attended to finalize the **Course Structures and Syllabus** of B.Tech-AIML programme for **II Year (MR22 Regulations)** and **III Year (MR21 Regulations)** and other points of agenda.

S.No	Name of the Member	Designation & Official Address	Category	Signature
1	Dr. Deena Babu Mandru	Head, Dept.of AIML, MREC, Hyderabad	Chairman- BoS	
2.	Prof.A.Govardhan	Professor, Dept. of CSE & Rector, JNTUH, Hyd'bad.	University Nominee	
3	Dr.C.Krishna Mohan	Professor, Dept. of CSE, IIT, Hyderabad	Subject Expert (Outside the Parent University)	
4	Dr.D.V.N.Siva Kumar	Assistant Professor, Department of CS&IS, BITS-Pilani, Hyderabad	Subject Expert (Outside the Parent University)	
5	Mr.Phani Karnati	Head of AIML, ViHaVe.ai, Hyderabad	Industry Expert	
6	Mr.M.Srinuvasa Reddy	Assistant Professor	Faculty (Member)	
7	Mr.Ch.Ravi Sekhar	Assistant Professor	Faculty (Member)	
8	Mr. B. Shiva Karthik	Assistant Professor	Faculty (Member)	
9	Ms.D.Sravani	Assistant Professor	Faculty (Member)	

Chairman, BOS
B.Tech-AIML (UG)



Malla Reddy Engineering College

(An UGC Autonomous Institution, Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad). Accredited 3rd time by NAAC with 'A++' Grade, NIRF Rank Band 250-300, ARIIA Band Performer, NBA Tier -I Accredited (B.Tech – CE, EEE, ME, ECE & CSE, M.Tech – Structural Engg, Electrical Power Systems, Thermal Engg.) Maisammaguda(H), Medchal - Malkajgiri District, Secunderabad, Telangana State – 500100, www.mrec.ac.in



Department of B.Tech-AIML

Date: 17/02/2023

Board of Studies -Minutes of Meeting


The 4th Board of Studies meeting for B.Tech-AIML (UG) programme for the Academic Year 2023-24 is conducted in Hybrid (Online/Offline) mode on 17-02-2023 at 11:30 A.M. All the members of the BoS (both external and internal) members have attended to the meeting. The following members are attended to the Meeting.

S.No	Name of the Member	Designation	Category
1	Dr.Deena Babu Mandru	Professor & HOD	Chairman
2.	Prof.A.Govardhan	Professor, Dept. of CSE & Rector, JNTUH, Hyd'bad.	University Nominee
3	Dr.C.Krishna Mohan	Professor, Dept. of CSE, IIT, Hyderabad	Subject Expert Member (Outside the Parent University)
4	Dr.D.V.N.Siva Kumar	Assistant Professor, CS&IS Department, BITS Pilani, Hyderabad	Subject Expert Member (Outside the Parent University)
5	Mr.Phani Karnati	Head of AIML, ViHaVe.ai, Hyderabad	Industry Expert
6	Mr.M.Srinuvasa Reddy	Assistant Professor	Faculty (Member)
7	Mr.Ch.Ravi Sekhar	Assistant Professor	Faculty (Member)
8	Mr. B. Shiva Karthik	Assistant Professor	Faculty (Member)
9	Ms.D.Sravani	Assistant Professor	Faculty (Member)

I. Agenda of the Meeting:

- ❖ Action Taken Report (ATR) on 3rd BOS Meeting in A.Y 2022-23 held on 05/11/2022
- ❖ Discussion of Course Structure and Syllabus for II Year of MR22 Regulations and III Year of MR21 Regulations
- ❖ Delegation of power to the Chairman-BOS based on recommendations of the internal committee, for the inclusion and exclusion of any item as per requirements.
- ❖ Approval of any other item with the permission of the Chairman.

At the outset, the Chairman, Board of Studies, B.Tech-AIML(UG) welcomed the members and appraised the purpose of the meeting. He also briefed about the previous BoS meeting resolutions and actions taken. Later, members have discussed in detail about each item of the proposed agenda and finally the following items have been resolved unanimously by all the BOS members which are implementing from the academic year 2023-24 onwards.






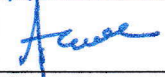
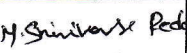

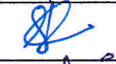



II. Suggestions / Resolutions given by the Board of Studies Members:

- a. BoS members have thoroughly discussed and approved **MR22 Regulations** prepared as per **JNTUH R22 Regulations**.
- b. BOS members have thoroughly discussed and approved course structure and syllabus of **II Year (MR22 regulations) and III Year (MR21 Regulations)**.
- c. Suggested to Rename **Introduction to Machine Learning** to **Machine Learning-I** and **Introduction to Machine Learning Lab** to **Machine Learning-I Lab** for MR22 Regulation (II-I).
- d. Suggested to Rename **Information Retrieval Systems** to **Information Retrieval** for MR21 (III-II).
- e. Suggested to keep any one of the two courses **Python for Data Science** and **Data Science Using R Programming in PE-II** for MR21 (III-I).

Finally, the Chairman, BOS, AIML (UG) programme expressed his sincere thanks to all the members for their active participation and contribution. The meeting is concluded with vote of thanks.

III. Attendance Sheet of the BOS Members

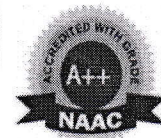
S.No	Name of the Member	Designation & Official Address	Category	Signature
1	Dr. Deena Babu Mandru	Professor & HOD	Chairman	
2.	Prof.A.Govardhan	Professor, Dept. of CSE & Rector, JNTUH, Hyd.	University Nominee	
3	Dr.C.Krishna Mohan	Professor, Dept. of CSE, IIT, Hyderabad	Subject Expert Member (Outside the Parent University)	Online
4	Dr.D.V.N.Siva Kumar	Assistant Professor, Department of CS&IS, BITS-Pilani, Hyderabad	Subject Expert Member (Outside the Parent University)	Online
5	Mr.Phani Karnati	Head of AIML, ViHaVe.ai, Hyderabad	Industry Expert	Online.
6	Mr.M.Srinuvasa Reddy	Assistant Professor	Faculty (Member)	
7	Mr.Ch.Ravisekhar	Assistant Professor	Faculty (Member)	
8	Mr. B. Shiva Karthik	Assistant Professor	Faculty (Member)	
9	Ms.D.Sravani	Assistant Professor	Faculty (Member)	


Chairman, BOS
B.Tech-AIML (UG)



Malla Reddy Engineering College

(An UGC Autonomous Institution, Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad). Accredited 3rd time by NAAC with 'A++' Grade, NIRF Rank Band 250-300, ARIIA Band Performer, NBA Tier -I Accredited (B.Tech – CE, EEE, ME, ECE & CSE, M.Tech – Structural Engg, Electrical Power Systems, Thermal Engg.) Maisammaguda(H), Medchal - Malkajgiri District, Secunderabad, Telangana State – 500100, www.mrec.ac.in



Department of B.Tech-AIML

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
Total				14	4	8	21.5
Total Contact Hours				27			

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
Total				12	2	9	18.5
Total Contact Hours				23			

[Handwritten signatures and initials]
 H. Prasad, M. Srinivas Reddy, R. Suresh

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	B7301	Artificial Intelligence-I	3	-	-	3
5	PCC	B0510	Object Oriented Programming	3	-	-	3
6	PCC	B0512	Data Structures Lab	-	-	3	1.5
7	PCC	B7302	Artificial Intelligence-I Lab	-	-	3	1.5
8	PCC	B0513	Object Oriented Programming Lab	-	1	2	2
9	MC	B00M1	Gender Sensitization	-	-	2	-
Total				15	1	10	20
Total Contact Hours				26			

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	B7303	Introduction to Machine Learning	3	-	-	3
4	PCC	B0516	Design & Analysis of Algorithms	3	-	-	3
Professional Elective-I							
5	PEC-I	B1203	Computer Graphics	3	-	-	3
		B1206	Android Application Development				
		B1204	Web Technologies				
		B6706	R Programming				
		B7304	Data Science and Engineering				
6	PCC	B0514	Operating Systems Lab	-	1	2	2
7	PCC	B7305	Introduction to Machine Learning Lab	-	-	3	1.5
8	PCC	B0521	Design & Analysis of Algorithms Lab	-	-	3	1.5
9	MC	B00M2	Environmental Science	2	-	-	-
Total				17	1	8	20
Total Contact Hours				26			




III Year I Semester							
Sl.No	Category	Course Code	Name of the Course	Contact Hours /Week			Credits
				L	T	P	
1	PCC	B1207	Theory of Automata	3	1	-	4
2	PCC	B7306	Data Visualization	3	-	-	3
3	PCC	B6201	Computer Networks	3	-	-	3
Professional Elective-II							
4	PEC-II	B6203	Cryptography and Network Security	3	-	-	3
		B7307	Artificial Intelligence Tools and Applications				
		B1236	Digital Forensics				
		B0530	Distributed Systems				
		B1209	Data Science Using R Programming				
5	OEC-II		Open Elective-I	3	-	-	3
6	PCC	B7308	Data Visualization Lab	-	-	3	1.5
7	PCC	B6202	Computer Networks Lab	-	-	3	1.5
8	MC	B00M3	Quantitative Aptitude & Verbal Reasoning-I	2	-	-	-
Total				17	1	6	19
Total Contact Hours				24			

III Year II Semester							
S.No	Category	Course Code	Name of the Course	Contact Hours/Week			Credits
				L	T	P	
1	HMSC	B0H08	Engineering Economics and Accountancy	3	-	-	3
2	PCC	B7309	Machine Learning-II	3	-	-	3
3	PCC	B0536	Compiler Design	4	-	-	4
Professional Elective -III							
4	PEC-III	B7310	Solve Business Problems with AI	3	-	-	3
		B6705	Python for Data Science				
		B1212	Cyber Security				
		B7311	Information Retrieval				
		B0532	Multimedia and Rich Internet Applications				
5	OEC-II		Open Elective-II	3	-	-	3
6	HSMC	B0H03	English Communication and Presentation Skills Lab	-	-	2	1
7	PCC	B7312	Machine Learning-II Lab	-	1	2	2
8	PCC	B0543	Compiler Design Lab	-	1	2	2
9	MC	B00M4	Quantitative Aptitude & Verbal Reasoning-II	2	-	-	-
Total				18	2	6	21
Total Contact Hours				26			



Malla Reddy Engineering College

(An UGC Autonomous Institution, Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad). Accredited 3rd time by NAAC with 'A++' Grade, NIRF Rank Band 250-300, ARIIA Band Performer, NBA Tier –I Accredited (B.Tech – CE, EEE, ME, ECE & CSE, M.Tech – Structural Engg, Electrical Power Systems, Thermal Engg.) Maisammaguda(H), Medchal - Malkajgiri District, Secunderabad, Telangana State – 500100, www.mrec.ac.in



Department of B.Tech-AIML

Course Structure

(MR22 Regulations-Effective from A.Y: 2022–23 Onwards)

I Year I Semester							
S.No	Category	Course Code	Name of the Course	Contact Hours/Week			Credits
				L	T	P	
1.	BSC	C0B01	Linear Algebra and Numerical Methods	3	1	-	4
2.	BSC	C0B17	Engineering Chemistry	3	1	-	4
3.	ESC	C0501	Programming for Problem Solving	3	-	-	3
4.	ESC	C0301	Engineering Graphics	2	-	2	3
5.	BSC	C0B09	Semiconductor Physics	3	1	-	4
6.	ESC	C0502	Programming for Problem Solving Lab	-	1	2	1.5
7.	BSC	C0B11	Applied Physics Lab	-	-	2	1
8.	BSC	C0B18	Engineering Chemistry Lab	-	-	2	1
Total				14	4	8	21.5
Total Contact Hours				26			

I Year II Semester							
S.No	Category	Course Code	Name of the Course	Contact Hours/Week			Credits
				L	T	P	
1.	HSMC	C0H01	English	3	-	-	3
2.	ESC	C0201	Basic Electrical and Electronics Engineering	3	-	-	3
3.	BSC	C0B02	Probability and Statistics	3	-	-	3
4.	ESC	C0504	Python Programming	3	1	-	4
5.	ESC	C0506	Python Programming Lab	-	1	2	2
6.	HSMC	C0H02	English Language and Communication Skills Lab	-	-	3	1
7.	ESC	C0202	Basic Electrical and Electronics Engineering Lab	-	-	2	1
8.	ESC	C1201	Engineering and IT Workshop	-	-	2	1.5
Total				12	2	9	18.5
Total Contact Hours				23			

(Handwritten signatures and initials)

II Year I Semester							
S.No	Category	Course Code	Name of the Course	Contact Hours /Week			Credits
				L	T	P	
1	PCC	C0507	Discrete Mathematics	3	-	-	3
2	PCC	C0509	Computer Organization and Architecture	3	-	-	3
3	PCC	C0510	Data Structures	3	-	-	3
4	PCC	C0511	Object Oriented Programming	3	-	-	3
5	PCC	C7301	Machine Learning-I	2	-	-	2
6	PCC	C0512	Data Structures Lab	-	-	3	1.5
7	PCC	C0513	Object Oriented Programming Lab	-	-	3	1.5
8	PCC	C7302	Machine Learning-I Lab	-	1	2	2
9	PCC	C0522	Node JS/ React JS/ Django	-	-	2	1
10	MC	C00M1	Gender Sensitization Lab	-	-	2	-
Total				14	1	12	20
Total Contact Hours				27			

II Year II Semester							
S.No	Category	Course Code	Name of the Course	Contact Hours/Week			Credits
				L	T	P	
1	BSC	C0B07	Applied Statistics and Optimization Techniques	3	1	-	4
2	PCC	C0515	Database Management Systems	3	-	-	3
3	PCC	C0516	Operating Systems	3	-	-	3
4	PCC	C0517	Design & Analysis of Algorithms	3	-	-	3
5	PCC	C7303	Artificial Intelligence-I	2	-	-	2
6	PCC	C0519	Database Management Systems Lab	-	-	2	1
7	PCC	C1204	Design & Analysis of Algorithms Lab	-	-	2	1
8	PCC	C0521	Real Time Research Project / Field Based Research Project	-	-	4	2
9	PCC	C7304	PROLOG/ LISP/ PYSWIP	-	-	2	1
10	MC	C00M2	Environmental Science	2	-	-	-
Total				16	1	10	20
Total Contact Hours				27			

M. Srinivas Reddy