



Malla Reddy Engineering College

(UGC Autonomous Institution, Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad). Accredited 3rd time by NAAC with 'A++' Grade, Maisammaguda (H), Medchal-Malkajgiri District, Secunderabad, Telangana State – 500100, www.mrec.ac.in

Department of Information Technology

Board of Studies (BoS) Meeting

Date: 11th May, 2022

AGENDA

The 12th Board of Studies meeting for Information Technology department is convened on 11-05-2022 at 02:30 AM in the online mode (Zoom APP).

The Agenda of the meeting is as follows.

1. Action Taken Report (ATR) on previous BoS Meeting in A.Y:2020-21 held on 11.08.2021.
2. Discussion and approval of MR21 Regulations for II Year Course Schema and Syllabus.
3. Discussion and approval of MR20 Regulations for III & IV Years Course Schema and Syllabus.
4. Any other suggestions by Honourable members


Chairman
BoS-IT (UG)

N. Sathish Kumar

R. Aruga Devi

P. S.

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Department of Information Technology

Date: 11th May, 2022

Attendance Sheet

The 12th Board of studies meeting for the IT-UG programme for the Academic Year 2021-22 was conducted on 11th May, 2022 at 02:30 AM through online mode (ZOOM APP). The following members are attended to the Meeting to finalize MR20 Regulations for **III and IV B.Tech** and MR21 Regulations for **II B.Tech** Course Structure, Syllabus and few amendments for **MR20 and 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. D. Ramesh	Prof essor, Dept. of CSE, JNTUH College of Engineering, Jagityal.	University Nominee	
3	Dr. M. Swami Das	Professor, Dept. of CSE, CBIT, Hyd	Subject Expert (outside the Parent University)	Online
4	Dr. M. Suresh Babu	Professor, Dept.of CSE, K.L.U, Hyd.	Subject Expert (outside the Parent University)	Online
5	Mr. Naresh.N	Data Scientist, Cognitive Care India Labs Pvt.Ltd, Visakhapatnam	Industry Expert	Online
6	Mr.A.Venkatrami Reddy	Assistant Professor, Dept.of IT, MREC	Teaching staff	
7	Ms.P. Swapna	Assistant Professor, Dept.of IT, MREC	Teaching staff	
8	Mr.R.Durga Devi	Assistant Professor, Dept.of IT, MREC	Teaching staff	
9	Mr.N.Sathish Kumar	Assistant Professor, Dept.of IT, MREC	Teaching staff	
10	Ms.P.Sandhya Priyanka	Assistant Professor, Dept.of IT, MREC	Teaching staff	
11	Mr. Vishal Cheruku	Transportation Specialist-I , Amazon service Pvt Ltd, Hyderabad	Alumni (MR13Batch)	Online

Chairman
BOS-IT (UG)



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Department of Information Technology

Date: 11th May, 2022

Action Taken Report (ATR)

The 11th Board of Studies Meeting (BOS) was held on 11-08-2021 at 05:30 P.M. The following resolutions are made in the meeting and corresponding actions are taken as follows:

- **Resolution-1:**
Suggested to change the **Object Oriented Programming** to **Object Oriented Programming through Java** in **II Year I Semester**
- ❖ **Action Taken:**
Changed name of the subject from **Object Oriented Programming** to **Object Oriented Programming through Java** in **II Year I Semester**
- **Resolution-2:**
Suggested that **not mention language name** while writing program names for **Data Structures Lab** in **II Year I Semester**
- ❖ **Action Taken:**
As per suggestions, **instruct the faculty members** not mention language name while writing laboratory programs.
- **Resolution-3:**
Suggested to **Data Structure Lab** course to be implemented with **C++ / Java**
- ❖ **Action Taken:**
Instructed the faculty to implement **Data Structure Lab** in **C++/Java**
- **Resolution-4:**
Suggested that **Software project Management** to be replaced by **Computer Vision**
- ❖ **Action Taken:**
Added **Software project Management Course** as **PE-VI** in **IV Year I Semester**


Chairman
BOS-IT (UG)

N. Sathish Kumar

R. Aruga Devi

R.S.

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Department of Information Technology

12th Board of Studies (BOS)- Minutes of the Meeting

Date: 11th May, 2022

The 12th Board of Studies Meeting (BoS) for IT-UG programme was conducted on 11th May, 2022 at 02:00 P.M through online mode (Zoom App). The following members are attended to the meeting to finalize the II Year Course Schema and Syllabus for MR21 Regulations and III & IV Years Course Schema and Syllabus for MR20 Regulations.

S. No	Name of the Member	Designation	Position	Mode of Attendance
1	Dr. M. Deena Babu	Head of the Department	Chairman	Offline
2.	Dr. D. Ramesh	Prof & Head, Dept. of CSE, JNTUH, College of Engineering, Jagityal.	University Nominee	Zoom
3	Dr. M. Swami Das	Professor, Dept. of CSE, CBIT-Hyderabad	Subject Expert	Zoom
4.	Dr. M. Suresh Babu	Professor, CSE Dept., KLU-Hyderabad	Subject Expert	Zoom
5	Mr. Naresh.N	Data Scientist, Cognitive Care India Labs Pvt.Ltd, Visakhapatnam	Industry Expert	Zoom
6	Mr.A.Venkatrami Reddy	Assistant Professor, Dept.of IT, MREC	Member	Offline
7	Ms.P. Swapna	Assistant Professor, Dept.of IT, MREC	Member	Offline
8	Mr.R.Durga Devi	Assistant Professor, Dept.of IT, MREC	Member	Offline
9	Mr.N.Sathish Kumar	Assistant Professor, Dept.of IT, MREC	Member	Offline
10	Ms.P.Sandhya Priyanka	Assistant Professor, Dept.of IT, MREC	Member	Zoom
11	Mr. Vishal Cheruku	Transportation Specialist-I, Amazon service Pvt Ltd, Hyderabad	Member	Zoom

N. Satish Kumar

R. Durga Devi

P.S.

P.S.

P.S.

P.S.

A. Agenda

The Agenda of the meeting is as follows:

1. Action Taken Report (ATR) on previous BoS Meeting in A.Y:2020-21 held on 11.08.2021.
2. Discussion and approval of MR21 Regulations for II Year Course Schema and Syllabus.
3. Discussion and approval of MR20 Regulations for III & IV Years Course Schema and Syllabus.
4. Any other suggestions by Honourable members

At the outset, Dr. Deena Babu Mandru, HoD-IT and Chairman, BoS, welcomed the members and outlined the agenda and then briefed about the previous BoS meeting resolutions and Action Taken Report (ATR). After that BoS Members reviewed and discussed the proposed agenda. Finally the Bos members approved resolutions unanimously what are discussed to implement from the academic year **2022-23** and onwards.

B. Approved Resolutions

The following resolutions are approved after careful discussion and observations

1. The BoS Members have thoroughly reviewed and approved the II Year Course Schema and Syllabus, for MR21 Regulations
2. The BoS Members have thoroughly reviewed and approved the III & IV Years Course Schema and Syllabus for MR20 Regulations
3. Courses **Data Science using R Programming, Data Science using R Programming Lab, Computer Networks and Computer Networks Lab** are introduced in III Year I semester (MR20 Regulations)
4. All resolutions are made as per AICTE, UGC and JNTUH, Hyderabad. guidelines

C. Suggestions/ Corrections

The following suggestions/Corrections are made by the BoS members and to be implementing in MR20 and MR21 Regulations.

- Suggested to introduce the following courses in **MR21 regulations** as **Professional Electives (PE)**
 - **Android Application Development**
 - **Free & Open Source Software's**
 - **Principles of Programming Languages**


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A. Kumar, P. Aruga Devi, H. S., P. R., B. S., and a green signature.

- Suggested to prepare **Database Management System** and **Database Management System Lab** Course syllabus as per (AICTE Model Curriculum) in **MR21 Regulations**
- Two courses **Principles of Programming Languages** and **Free & Open Source Software's** are introduced in **PE-I**
- Suggested to change **Android Application Development** to **Mobile Application Development** in III Year I Semester Profession Electives
- Suggested to replace **Image Processing** with **Computer Graphics** in III Year I Semester
- Suggested to include the following courses in **MR20 regulations** as **Professional Electives (PE)**

1. **Data Preprocessing & Visualization (PE-IV)**
2. **Robotics and Drone Building (PE-V)**
3. **Digital Forensics (PE-V)**
4. **Digital Forensics (PE-V)**
5. **IT Infrastructure Management (PE-VI)**
6. **AI for Robotics (PE-VI)**
7. **Block Chain Technologies (PE-VI)**
8. **Deep Learning (PE-VI)**
9. **Digital Forensics (PE-V)**

- Suggested to assign **2/3 Credits** for **Internship Evaluation Report** in IV Year I Semester for **MR20 Regulations**
- Also suggested **Major Project** could be separate and conduct as **Major Project Stage-I (IV Year I Semester)** and **Major Project Stage-II (IV Year II Semester)** and allocate Credits as per **MR20 Regulations**

.Finally, Dr.Deena Babu Mandru, Chairman, BoS-IT (UG) has expressed his sincere thanks to the BoS Members for their active participation and contribution. The meeting concluded at 04:40 PM.


Chairman
BOS-IT (UG)

N. Sathish Kumar

R. Aruga Devi

W.S.

P. R.

S. S.

Deena



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Department of Information Technology

Course Structure

(MR21 Regulations-Effective from the Academic Year 2021 – 22 onwards)

(MR21 Regulations-Effective from the Academic Year 2021-22 onwards)

I YEAR I SEMESTER							
S. No	Category	Course Code	Name of the Course	Contact Hours/Week			Credits
				L	T	P	
1.	HSMC	B0H01	English *	3	-	-	3
2.	BSC	B0B01	Linear Algebra and Numerical Methods	3	1	-	4
3.	ESC	B0501	Programming for Problem Solving	3	-	-	3
4.	ESC	B0201	Basic Electrical and Electronics Engineering	3	-	-	3
5.	ESC	B0502	Programming for Problem Solving Lab	-	1	2	1.5
6.	HSMC	B0H02	English Language and Communication Skills Lab	-	-	3	1
7.	ESC	B1201	Engineering and IT Workshop	-	-	2	1.5
8.	ESC	B0202	Basic Electrical and Electronics Engineering Lab	-	-	2	1
Total				12	2	9	18
Total Contact Hours				23			

I YEAR II SEMESTER							
S. N o	Categor y	Course Code	Name of the Course	Contact Hours/Week			Credits
				L	T	P	
1.	BSC	B0B17	Engineering Chemistry	3	1	-	4
2.	ESC	B0301	Engineering Graphics	2	-	2	3
3.	BSC	B0B09	Semiconductor Physics	3	1	-	4
4.	BSC	B0B02	Probability and Statistics	3	-	-	3
5.	ESC	B0504	Python Programming	3	1	-	4
6.	BSC	B0B11	Applied Physics Lab	-	-	2	1
7.	BSC	B0B18	Engineering Chemistry Lab	-	-	2	1
8.	ESC	B0506	Python Programming Lab	-	1	2	2
Total				14	4	8	22
Total Contact Hours				26			

N. Satish Kumar

R. Suresh Babu

R. S.

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II YEAR I SEMESTER							
No	Category	Course Code	Name of the Course	Contact 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	B0510	Object Oriented Programming through Java	3	-	-	3
5	PCC	B0511	Operating Systems	3	-	-	3
6	PCC	B0512	Data Structures Lab	-	-	3	1.5
7	PCC	B0513	Object Oriented Programming through Java Lab	-	-	3	1.5
8	PCC	B0514	Operating Systems Lab	-	-	3	1.5
9	MC	B00M1	Gender Sensitization	-	-	2	-
Total				15	-	11	19.5
Total Contact Hours				26			

II YEAR II SEMESTER							
No	Category	Course Code	Name of the Course	Contact Hours /Week			Credits
				L	T	P	
1	BSC	B0B07	Applied Statistics and Optimization Techniques	3	-	-	3
2	PCC	B0515	Database Management Systems	4	-	-	4
3	PCC	B0516	Design and Analysis of Algorithms	3	-	-	3
4	PCC	B1202	Web Technology	3	-	-	3
5	Professional Elective –I						
	PEC-I	B0522	Computer Graphics	3	-	-	3
		B1203	Neural Network				
		B1204	Android Application Development				
		B1205	Principles of Programming Languages				
		B0518	Free & Open Source Software's				
6	PCC	B0520	Database Management Systems Lab	-	-	3	1.5
7	PCC	B1206	Web Technology Lab	-	-	3	1.5
8	PCC	B0521	Design and Analysis of Algorithms Lab	-	-	3	1.5
9	MC	B00M2	Environmental Science	2	-	-	-
Total				17	-	9	20.5
Total Contact Hours				26			

N. Satish Kumar

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Course Structure for B.Tech Information Technology (IT) Programme (MR20 Regulations–Effective from Academic Year 2020-21 onwards)

I Year I Semester							
No.	Category	Course Code	Name of the Course	Contact Hours/Week			Credits
				L	T	P	
1	BSC	A0B01	Linear Algebra and Numerical Methods	3	1	-	4
2	BSC	A0B17	<u>Engineering Chemistry</u>	3	1	-	4
3	ESC	A0201	Basic Electrical and Electronics Engineering	3	-	-	3
4	ESC	A0501	Programming for Problem Solving	3	-	-	3
5	BSC	A0B18	Engineering Chemistry Lab	-	-	2	1
6	ESC	A0202	Basic Electrical and Electronics Engineering Lab	-	-	2	1
7	ESC	A0502	Programming for Problem Solving Lab	-	-	3	1.5
8	ESC	A1201	Engineering and IT Workshop	-	-	3	1.5
Total				12	2	10	19
Total Contact Hours				24			19

I Year II Semester							
No	Category	Course Code	Name of the Course	Contact Hours/Week			Credits
				L	T	P	
1	HSMC	A0H01	English	3	-	-	3
2	BSC	A0B02	Probability and Statistics	3	-	-	3
3	BSC	A0B09	Semiconductor Physics	3	1	-	4
4	ESC	A0504	Python Programming	3	1	-	4
5	ESC	A0301	Engineering Graphics	2	-	2	3
6	HSMC	A0H02	English Language Lab	-	-	2	1
7	BSC	A0B11	Applied Physics Lab	-	-	2	1
8	ESC	A0506	Python Programming Lab	-	1	2	2
Total				14	3	11	21
Total Contact Hours				28			

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N. Satish Kumar

R. Birga Devi

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II Year I Semester							
No	Category	Course Code	Name of the Course	Contact Hours/Week			Credits
				L	T	P	
1	PCC	A0507	Discrete Mathematics	3	-	-	3
2	PCC	A0508	Computer Organization and Architecture	3	-	-	3
3	PCC	A0509	Data Structures	3	-	-	3
4	PCC	A0510	Object Oriented Programming	3	-	-	3
5	PCC	A0511	Operating Systems	3	-	-	3
6	PCC	A0512	Data Structures Lab	-	-	3	1.5
7	PCC	A0513	Object Oriented Programming Lab	-	-	3	1.5
8	PCC	A0514	Operating Systems Lab	-	1	2	2
9	MC	A00M1	Gender Sensitization	-	-	2	-
Total				15	1	10	20
Total Contact Hours				26			

II Year II Semester							
No	Category	Course Code	Name of the Course	Contact Hours/Week			Credits
				L	T	P	
1	BSC	A0B07	Applied Statistics and Optimization Techniques	3	-	-	3
2	PCC	A0515	Database Management Systems	3	-	-	3
3	PCC	A0516	Design and Analysis of Algorithms	3	-	-	3
4	PCC	A1202	Web Technologies	3	-	-	3
Professional Elective –I							
5	PEC-I	A1203	Computer Graphics	3	-	-	3
		A1204	Neural Network				
		A0519	Cloud Computing				
6	PCC	A0520	Database Management Systems Lab	-	1	2	2
7	PCC	A1205	Web Technologies Lab	-	-	3	1.5
8	PCC	A0521	Design and Analysis of Algorithms Lab	-	-	3	1.5
9	MC	A00M2	Environmental Science	2	-	-	-
Total				17	1	8	20
Total Contact Hours				26			

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N. Satish Kumar *P. Suresh Kumar* *[Signature]*