



# MALLA REDDY ENGINEERING COLLEGE

(Autonomous)

Department of CSE (Internet of Things)

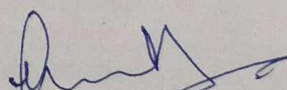
5<sup>th</sup> Board of Studies meeting on 11.02.2023 at 11:00 AM

## AGENDA

The 5<sup>th</sup> Board of Studies meeting for the Departments of CSE (Internet of Things) is convened on 11.02.2023 at 11:00 AM in hybrid (online/offline) mode.

The Agenda of the meeting is as follows.

1. Action Taken Report (ATR) on previous BoS Meeting in A.Y 2021-22 on 12-05-2022.
2. Discussion and approval of B.Tech. CSE (Internet of Things) MR22 Regulations II Year course Schema and Syllabus and MR21 Regulations III and IV Year course Schema and Syllabus and MR20 Regulations IV Year course Schema and Syllabus

  
Dr. K. Vasanth Kumar  
Chairman,

UG-B.Tech.-CSE (Internet of Things) - BOS





# MALLA REDDY ENGINEERING COLLEGE

(Autonomous)

Maisammaguda, Dhullapally(post via Kompally) Secunderabad-500100

## Department of CSE (Internet of Things)

### BOS – Attendance Sheet

February 11, 2023

The 5<sup>th</sup>UG-B.Tech. CSE (Internet of Things) Board of Studies meeting for the Academic Year 2022-23 was conducted on 11-02-2023 at 11:00 AM through Hybrid mode (online/offline). The following BOS Members have attended the BOS Meeting to finalize MR22 regulations CSE (Internet of Things) 2<sup>nd</sup> year B.Tech. Course Structure, Syllabus, MR21 regulations CSE (Internet of Things) 3<sup>rd</sup> and 4<sup>th</sup> years B.Tech. Course Structure, Syllabus, MR20 regulations CSE (Internet of Things) 4<sup>th</sup> year B.Tech. Course Structure, Syllabus and other points of agenda:

S. No.	Name of the Member	Designation & Official Address	Category	Signature
1	Dr. K. Vasanth Kumar	Professor & Head of Department	Chairman	
2	Dr. K. Santhi Sree	Professor, HOD-Information Technology, JNTUH, Hyderabad.	University Nominee	
3	Dr. D Kodanda Raman	Associate Professor, School CS&AI, SR UNIVERSITY, Warangal	Subject Expert (Outside the Parent University)	ONLINE
4	Dr. B. Eswara Reddy	Director, Software Development Center, JNTUA.	Subject Expert (Outside the Parent University)	ONLINE
5	Mr D. Shiva Shanker	Data Scientists, Deloitte	Industry Expert	
6	Dr. P. Srinivas	Associate Professor	Teaching staff	
7	Mr. K. Madhu Babu	Associate Professor	Teaching staff	
8	Mr. Ramannaiaha.	Assistant Professor	Teaching staff	P.v. P. P.
9	Mr. M.Krishna Kanth	Assistant Professor	Teaching staff	KV. K.
10	Mr.S.Mahipal	Assistant Professor	Teaching staff	
11	Ms. G. Sruthi	MTS II – IT Quality Assurance, Verizon data service Pvt Ltd, Gachibowli, Hyd.	Alumni	

Dr. K. Vasanth Kumar  
Chairman,

UG-B.Tech. CSE (Internet of Things) - BOS



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Maisammaguda, Dhulapally (Post via Kompally), Secunderabad-500 100.

**Department of CSE (Internet of Things)**

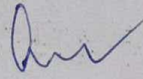
## Minutes of 5<sup>th</sup> BoS meeting UG- B.Tech.-CSE (Internet of Things) held on 11.02.2023 at 11:00 AM

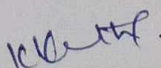
The 5<sup>th</sup> Board of Studies meeting for the **UG - B.Tech.- CSE (Internet of Things)** is conducted on 11<sup>th</sup> February, 2023 at 11:00AM in the Hybrid mode. The following members attended the BoS meeting to finalize MR22 regulations CSE (**Internet of Things**) 2<sup>nd</sup> year B.Tech. Course Structure, Syllabus, MR21 regulations CSE (**Internet of Things**) 3<sup>rd</sup> and 4<sup>th</sup> years B.Tech. Course Structure, Syllabus and MR20 regulations CSE (**Internet of Things**) 4<sup>th</sup> year B.Tech. Course Structure, Syllabus.

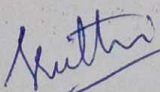
S. No.	Name of the Member	Designation & Official Address	Category	Signature
1	Dr. K. Vasanth Kumar	Professor & Head of Department	Chairman	
2	Dr. K. SanthiSree	Professor, HOD-Information Technology, JNTUH, Hyderabad.	University Nominee	
3	Dr. D Kodanda Raman	Associate Professor, School CS&AI, SR UNIVERSITY, Warangal	Subject Expert (Outside the Parent University)	ONLINE
4	Dr. B. Eswara Reddy	Director, Software Development Center, JNTUA.	Subject Expert (Outside the Parent University)	ONLINE
5	Mr D. Shiva Shanker	Data Scientists Deloitte	Industry Expert	
6	Dr. P. Srinivas	Associate Professor	Teaching staff	
7	Mr. K. MadhuBabu	Associate Professor	Teaching staff	
8	Mr. Ramannaiaha.	Assistant Professor	Teaching staff	
9	Mr. M.KrishnaKanth	Assistant Professor	Teaching staff	
10	Mr.S.Mahipal	Assistant Professor	Teaching staff	
11	Ms. G. Sruthi	MTS II – IT Quality Assurance, Verizon data service Pvt Ltd, Gachibowli, Hyd.	Alumni	

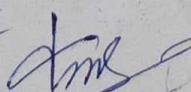
### The following is the agenda for the meeting.

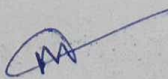
1. Action Taken Report (ATR) on previous BoS Meeting in A.Y 2021-22 on 12-05-2022.
2. Discussion and approval of MR22 regulations CSE (**Internet of Things**) 2<sup>nd</sup> year B.Tech. Course Structure, Syllabus, MR21 regulations CSE (**Internet of Things**) 3<sup>rd</sup> and 4<sup>th</sup> years B.Tech. Course Structure, Syllabus. MR20 regulations CSE (**Internet of Things**) 4<sup>th</sup> years B.Tech. Course Structure, Syllabus

  
P.V. S. J.









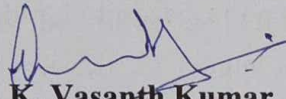


At the outset, Dr. K. Vasanth Kumar , Professor & HOD and Chairman of the **UG - B.Tech.- CSE(Internet of Things)**Board of Studies, welcomed the members to the BoS meeting and informed the purpose of the meeting. Later BoS Members reviewed and discussed items in the agenda and finally the following items have been resolved unanimously by all the members of BoS to implement from the academic year 2022-23 onwards.

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

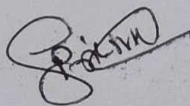
The BoS Members have thoroughly reviewed and approved the MR22 regulations CSE (**Internet of Things**) 2<sup>nd</sup> year B.Tech. Course Structure, Syllabus, MR21 regulations CSE (**Internet of Things**) 3<sup>rd</sup> and 4<sup>th</sup> years B.Tech. Course Structure, Syllabus, MR20 CSE (**Internet of Things**) 4<sup>th</sup> Year B.Tech Course Structure and Syllabus of the **UG - B.Tech.- CSE (Internet of Things)** Course as per the guide lines of the AICTE, UGC and JNTUH, Hyderabad.

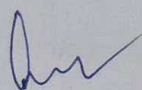
Finally, Dr. K. Vasanth Kumar, Chairman – BoS has expressed his sincere thanks to all the Members of the BoS for their active participation and contribution. The meeting concluded at 11:00 PM.

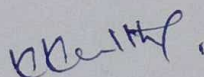
  
**Dr. K. Vasanth Kumar**  
Chairman,

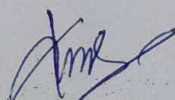
**UG-B.Tech.-CSE (Internet of Things) - BOS**

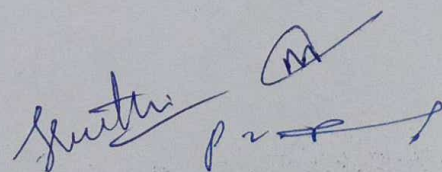
  
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# MALLA REDDY ENGINEERING COLLEGE (Autonomous)

Maisammaguda, Dhulapally (Post via Kompally), Secunderabad-500 100.

## Department of Computer Science and Engineering (Internet of Things)

### Action Taken Report on previous 4<sup>th</sup> Common Board of Studies meeting for the Departments of CSE (Cyber Security), CSE (AI and ML), CSE (DS) and CSE (IoT) held on 12.05.2022 in AY 2022-23

The previous 4<sup>th</sup> Common Board of Studies meeting for the Departments of CSE (Internet of Things), CSE (AI and ML), CSE (DS) and CSE (CS) was held on Dt: 12<sup>th</sup> May, 2022. The following are the resolutions made in the meeting and corresponding actions taken are as follows

**Resolution1:** The members suggested to implement the Data Structure Lab course to be implemented with C in the laboratories.

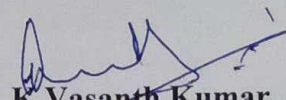
**Action Taken:** The above laboratories are implementing as per suggested languages.

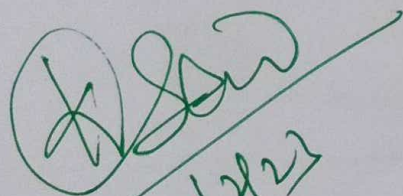
**Resolution 2:** Expressed to maintain the sequence of offered programming courses to the students like C, OOPs concepts.

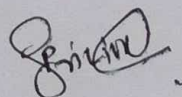
**Action Taken:** sequence of offered programming courses are maintained as per suggestion.

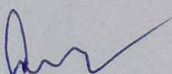
**Resolution 3:** Object Oriented Programming course to be titles as Object Oriented Programming through Java.

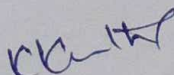
**Action Taken:** Object Oriented Programming course title is renamed as Object Oriented Programming through Java.

  
**Dr. K. Vasanth Kumar**  
Chairman,  
UG-B.Tech.- CSE (IOT)- BOS

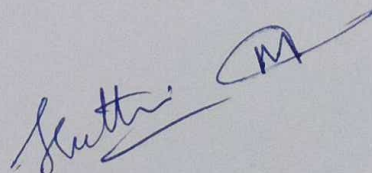
  
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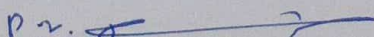
















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(AUTONOMOUS)

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NBA Accredited Programmes – UG (CE, EEE, ME, ECE & CSE), PG (CE - SE, EEE – EPS, ME – TE)

18  
EAMCET  
CODE:  
MREC

## Department of Computer Science and Engineering (Internet of Things)

Approved Course Structure and  
Syllabus for II Years

**B.Tech. Computer Science and Engineering (Internet of Things) Programme.**  
(MR22 Regulations – Effective from Academic Year 2022-23 onwards)



Estd.: 2002

Maisammaguda, Dhulapally (Post Via Kompally),  
Secunderabad-500100  
Ph. No. 040-65864982, 09348161125, e-mail: [principal@mrec.ac.in](mailto:principal@mrec.ac.in),  
Website: [www.mrec.ac.in](http://www.mrec.ac.in)



JNTU Code: J4

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**MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)**  
**COMPUTER SCIENCE AND ENGINEERING**  
**(Internet of Things)**  
**Course Structure for B.Tech.Computer Science and Engineering**  
**(Internet of Things)Programme.**  
**(MR22 Regulations – Effective from Academic Year 2022-23 onwards)**

MR22 III SEMESTER							
S. No	Category	Course Code	Course Title	L	T	P	Credits
1	PCC	C0507	Discrete Mathematics	3	-	-	3
2	PCC	C0508	Computer Organization and Architecture	3	-	-	3
3	PCC	C0509	Data Structures	3	-	-	3
4	PCC	C0409	Sensors & Devices	3	-	-	3
5	PCC	C0510	Object Oriented Programming Through Java	3	-	-	3
6	PCC	C0512	Data Structures Lab	-	-	3	1.5
7	PCC	C6914	Sensors & Devices Lab	-	1	2	2
8	PCC	C0513	Object Oriented Programming Through Java Lab	-	-	3	1.5
9	MC	C00M1	Gender Sensitization	-	-	2	-
Total				15	1	12	20
Total Contact Hours				28			

MR22 IV SEMESTER							
S. No	Category	Course Code	Course Title	L	T	P	Credits
1	BSC	C0B07	Applied Statistics and Optimization Techniques	3	-	-	3
2	PCC	C0515	Database Management Systems	3	-	-	3
3	PCC	C0516	Design and Analysis of Algorithms	3	-	-	3
4	PCC	C6901	Internet of Things Fundamentals	3	-	-	3
5	Professional Elective –I						
	PEC-I	C6601	Fundamentals of Artificial Intelligence	3	-	-	3
		C0518	Free and Open Source Technologies				
		C6902	Object Oriented Analysis and Design				
6	PCC	C0520	Database Management Systems Lab	-	1	2	2
7	PCC	C0521	Design and Analysis of Algorithms Lab	-	-	3	1.5
8	PCC	C6903	Internet of Things Fundamentals Lab	-	-	3	1.5
9	MC	C00M2	Environmental Science	2	-	-	-
Total				17	1	11	20
Total Contact Hours				29			

*K. Srinivas*  
11/7/23  
Pr. P

*Amr*  
*Srinivas*  
3  
*Uthappa*

*AA*  
*Shruti*  
MOD-201





# MALLA REDDY ENGINEERING COLLEGE

(AUTONOMOUS)

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NBA Accredited Programmes – UG (CE, EEE, ME, ECE & CSE), PG (CE - SE, EEE – EPS, ME – TE)



EAMCET  
CODE:  
MREC

## Department of Computer Science and Engineering (IOT)

Approved Course Structure and  
Syllabus for III & IV Years

B.Tech. Computer Science and Engineering (IOT) Programme.  
(MR21 Regulations – Effective from Academic Year 2021-22 onwards)



Estd.: 2002

Maisammaguda, Dhulapally (Post Via Kompally),  
Secunderabad-500100

Ph. No. 040-65864982, 09348161125, e-mail: [principal@mrec.ac.in](mailto:principal@mrec.ac.in),  
Website: [www.mrec.ac.in](http://www.mrec.ac.in)



JNTU Code: J4



**MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)**  
**COMPUTER SCIENCE AND ENGINEERING**  
**(IOT)**

Course Structure for B.Tech.Computer Science and Engineering  
(IOT) Programme.  
(MR21 Regulations – Effective from Academic Year 2021-22 onwards)

V SEMESTER							
S.No	Category	Course Code	Course Title	L	T	P	Credits
1	HSMC	B0H09	Management Fundamentals	3	-	-	3
2	PCC	B0511	Operating Systems	3	-	-	3
3	PCC	B 0521	Automata and Compiler Design	3	-	-	3
4	PCC	B 6904	Applications of IoT	3	-	-	3
5	Professional Elective –II						
	PEC-II	B 0523	Advanced Databases	3	-	-	3
		B 0524	Advanced Artificial Intelligence				
		B 0525	Semantic Web				
		B 0526	Computer Networks				
		B 0527	Computer Graphics				
6	Professional Elective –III						
	PEC-III	B 0527	Distributed Systems	3	-	-	3
		B 0529	Multimedia and Animation Techniques				
		B 6905	IoT for Architects				
		B 0528	Cloud Computing				
		B 0529	Mobile Application Development				
7	PCC	B 0514	Operating Systems Lab	-	-	3	1.5
8	PCC	B 6906	Applications of IoT Lab	-	-	3	1.5
9	AC	B00M3	Quantitative Aptitude &VR – I	2	-	-	-
Total				20	-	6	21
Total Contact Hours :26							

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11/2/23

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VI SEMESTER							
S.No	Category	Course Code	Course Title	L	T	P	Credits
1	HSMC	B0H08	Engineering Economics and Accountancy	3	-	-	3
2	PCC	B6910	IoT Cloud and Data Analytics	3	-	-	3
3	PCC	B0545	Data Mining	3	-	-	3
4	Professional Elective -IV						
	PEC-IV	B1213	Information Retrieval Systems	3	-	-	3
		B0538	Information Security				
		B0524	Software Engineering & Modeling				
		B0529	Scripting Languages				
		B0540	Ad-hoc & Sensor Networks				
5	Professional Elective -V						
	PEC-V	B0534	Mobile Computing	3	-	-	3
		B0537	Natural Language Processing				
		B0546	Block chain Technologies				
		B6206	Data Science				
		B6912	Software Quality Assurance and Testing				
6	OEC-I	B0159	Green Building	3	-	-	3
7	HSMC	B0H03	English Communication and Presentation Skills Lab	-	-	2	1
8	PCC	B6913	IoT Cloud and Data Analytics Lab	-	-	3	1.5
9	PCC	B0544	Data Mining Lab	-	-	3	1.5
10	AC	B00M4	Quantitative Aptitude and Verbal Reasoning – II	2	-	-	-
Total				20	-	8	22
Total Contact Hours :28							

K. S. S. S.  
11/2/23

S. S. S.

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K. S. S. S.

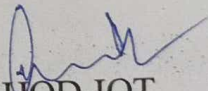
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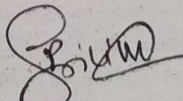



VII SEMESTER							
S. No.	Category	Course Code	Name of the Course	Contact Hours / week			Credits
				L	T	P	
1	PCC	B6915	Edge Analytics	3	-	-	3
2	PCC	B0551	Machine Learning	3	-	-	3
3	PCC	B0552	Cyber Security	3	-	-	3
4	Professional Elective-VI						
	PEC-VI	B0554	Data Science	3	-	-	3
		B0555	Deep Learning				
		B0556	Social Networking				
		B0557	Human Computer Interaction				
		B0558	Software Quality Assurance and Testing				
5	OEC-I		Open Elective-I	3	-	-	3
6	PCC	B6916	Edge Analytics Lab	-	1	2	2
7	PCC	B0560	Machine Learning Lab	-	1	2	2
8	PRJ	B00P1	Industry Oriented Mini Project			4	2
Total				18	2	8	24
Total Contact Hours				28			

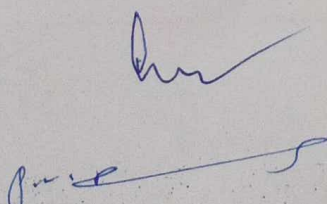
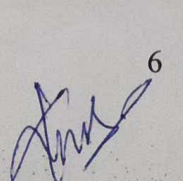
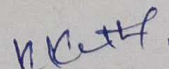
VIII SEMESTER							
S. No.	Category	Course Code	Name of the Course	Contact Hours / week			Credits
				L	T	P	
1	OEC-II		Open Elective-II				
2	OEC-III		Open Elective-III				
3	PRJ	B00P3	Seminar	-	-	2	1
4	PRJ	B00P2	Major Project	-	-	24	12
Total				-	-	26	13
Total Contact Hours				26			

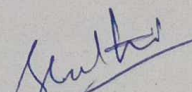
  
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(AUTONOMOUS)

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Accredited by NAAC with 'A' Grade (II-Cycle)  
NBA Accredited Programmes – UG (CE, EEE, ME, ECE & CSE), PG (CE - SE, EEE – EPS, ME – TE)



EAMCET  
CODE:  
MREC

## Department of Computer Science and Engineering (IOT)

Approved Course Structure and  
Syllabus for IV Years

B.Tech. Computer Science and Engineering (IOT) Programme.  
(MR20 Regulations – Effective from Academic Year 2020-21 onwards)



Estd.: 2002

Maisammaguda, Dhulapally (Post Via Kompally),  
Secunderabad-500100

Ph. No. 040-65864982, 09348161125, e-mail: [principal@mrec.ac.in](mailto:principal@mrec.ac.in),  
Website: [www.mrec.ac.in](http://www.mrec.ac.in)



JNTU Code: J4

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**MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)**  
**COMPUTER SCIENCE AND ENGINEERING**  
**(IOT)**

Course Structure for B.Tech. Computer Science and Engineering  
(IOT) Programme.  
(MR20 Regulations – Effective from Academic Year 2020-21 onwards)

VII SEMESTER							
S. No.	Category	Course Code	Name of the Course	Contact Hours / week			Credits
				L	T	P	
1	PCC	A6915	Edge Analytics	3	-	-	3
2	PCC	A0551	Machine Learning	3	-	-	3
3	PCC	A0552	Cyber Security	3	-	-	3
4	PEC-VI	A0554	Data Science	3	-	-	3
		A0555	Deep Learning				
		A0556	Social Networking				
		A0557	Human Computer Interaction				
		A0558	Software Quality Assurance and Testing				
	5	OEC-II		Open Elective-II	3	-	-
	OEC-II		5G Technologies				
			Ad-hoc & Sensor Networks				
			Software Project Management				
			IoT Cloud Processing and Analytics				
6	OEC-III		Open Elective-III	3	-	-	3
			Introduction to cyber Security				
			Managerial Science				
			Image Processing				
			Human Resource Management				
7	PCC	A6916	Edge Analytics Lab	-	1	2	2
8	PCC	A0560	Machine Learning Lab	-	1	2	2
9	PRJ	A00P1	Industry Oriented Mini Project			4	2
Total				18	2	8	24
Total Contact Hours				28			

VIII SEMESTER							
S. No.	Category	Course Code	Name of the Course	Contact Hours / week			Credits
				L	T	P	
1	PRJ	A00P3	Seminar	-	-	2	1
2	PRJ	A00P2	Major Project	-	-	24	12
<b>Total</b>				-	-	26	13
<b>Total Contact Hours</b>				26			

11/2/23
  
HOD - DOT