

(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.).

Lr.No:MREC(A)/BOS-CSE(IOT)/ UG/2021-22/02/Invitation/01

Dt:10-05-2022

To

Mr.K.Girish, Senior Principal Consultant, ORACLE Financial Services Software Limited, Bangalore.

Dear Sir,

Sub: Invitation for 4th CSE (IOT) Board of Studies meeting of Malla Reddy Engineering College (Autonomous) convene for the Academic Year 2021-22: Reg.

The 4th CSE (IOT) Board of Studies meeting of Malla Reddy Engineering College (Autonomous) for the Academic Year 2021-22 is convened on 12-05-2022 at 12:30 PM in online mode. You are kindly requested to make it convenient to attend the meeting.

The Agenda of the meeting is as follows:

- 1. Discussion and approval of B.Tech. CSE(IOT) course III Year Schema and Syllabus (MR20 Regulations).
- 2. Discussion and approval of B.Tech. CSE(IOT) course II Year Schema and Syllabus (MR21 Regulations).

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BOS Chairman CSE(IOT)



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Lr.No:MREC(A)/BOS-CSE(IOT)/ UG/2021-22/02/Invitation/01

Dt:10-05-2022

To

Dr.M. Murali, Dean R&D, Professor of ECE, School of Engineering, Centurion University-AP.

Dear Sir,

Sub: Invitation for 4th CSE (IOT) Board of Studies meeting of Malla Reddy Engineering College (Autonomous) convene for the Academic Year 2021-22: Reg.

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The Agenda of the meeting is as follows:

- 1. Discussion and approval of B.Tech. CSE(IOT) course III Year Schema and Syllabus (MR20 Regulations).
- 2. Discussion and approval of B.Tech. CSE(IOT) course II Year Schema and Syllabus (MR21 Regulations).

Qeddy Engg. College (500 100) Engg. College (A)

BOS Chairman CSE(IOT)



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Lr.No:MREC(A)/BOS-CSE(IOT)/ UG/2021-22/02/Invitation/01

Dt:10-05-2022

To

Dr. S. Ramakrishna, Professor & HOD, Dept of CS, SV University, Tirupati.

Dear Sir,

Sub: Invitation for 4th CSE (IOT) Board of Studies meeting of Malla Reddy Engineering College (Autonomous) convene for the Academic Year 2021-22: Reg.

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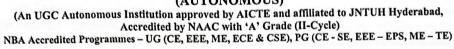
- Discussion and approval of B.Tech. CSE(IOT) course III Year Schema and Syllabus (MR20 Regulations).
- Discussion and approval of B.Tech. CSE(IOT) course II Year Schema and Syllabus (MR21 Regulations).

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BOS Chairman CSE(IOT)



(AUTONOMOUS)





Department of Computer Science and Engineering (IoT)

Proposed Course Structure and
Syllabus for I and II Years
B.Tech. Computer Science and Engineering (IoT) Programme.
(MR21 Regulations – Effective from Academic Year 2021-22 onwards)





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





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NBA Accredited Programmes - UG (CE, EEE, ME, ECE & CSE) PG (CE - Structural Engg., EEE-Electrical Power Systems, ME - Thermal Engg.)

Date: 03.08.2021

ORDER

Malla Reddy Engineering College 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 'A' Grade (II Cycle) and NBA (UG-CE, EEE, ME, ECE, CSE & PG-SE, TE and EPS). The departments academic activities are governed through Board of Studies which is responsible for its overall framing of schema and syllabus for various courses in the keeping the objectives of the department and college, interest of the stakeholders and national requirement for consideration and forwards to Academic Council for approval.

The Board of Studies for the UG B.Tech. – CSE (IoT) courses for the Academic Years 2021-22 to 2023-24 have been reconstituted as per the UGC guidelines with the following members.

S. No.	Name of the Member	Qualification	Phone no. & e-mail id	Subject Specializa tion	Position	Category
Chan	rman (Head of the Depa	artment concerned).		tion		
l One	Dr. N Lakshmipathi Anantha	Professor	8500982222, anlakshmipathi@gmail.com	CSE	Chairman	Chairman
One	expert to be nominated	by the Vice-Chancellor of the A	ffiliating University.			
2	Dr. K. Santhi Sree	Information Technology,	9866375330, kakara 2006@intub ac in	CSE	Member	University Nominee
Two	subject experts from ou	tside the Parent University to b	e nominated by the Academic Cou			Nommee
3	Dr. M. Swami Das	Professor, Dept of CSE, CBIT, Hyd.	9490475959, msdas@cbit.ac.in	CSE	Member	Subject
4	Dr. B. Eswara Reddy	Director, Software Developmen Center, JNTUHA.	9866937766,	CSE	Member	Expert Subject
One	representative from ind	ustry/corporate sector/allied are	ea relating to placement		MICHIDE	Expert
5	Mr. Naresh N faculty of specialization.	India Labs Pvt. Ltd, Visakhanatnam	9000534551, naresh855@gmail.com	CSE	Member	Industry Expert
6	Dr. R. P. Ram Kumar	Professor & HOD	9842611828, rprkvishnu@gmail.com	CSE	Member	Teaching
7	Dr. J. Anitha	Professor	9298303067, anithanv28@gmail.com	CSE	Member	staff Teaching
8	Mr. G. Jagan Naik Mr. Banavathu Raja	Associate Professor	9908522386, gjnaik1106@gmail.com	CSE	Member	staff Teaching
9	Rao Ms. Aenugu	Assistant Professor	9989952582, rajarao.b@mrec.ac.in	CSE	Member	staff Teaching
10	Rasagnya	Assistant Professor	9490630200,	CSE		staff Teaching
One	postgraduate meritoriou	as alumnus to be nominated by the	rasagnyareddyaenugu@mrec.ac.in	CSE	Member	staff
11	Ms. G. Sruthi	MTS II – IT Quality Assurance, Verizon data service Pvt Ltd, Gachibowli, Hyderabad	8897349445, sruthigandhi@gmail.com	CSE	Member	Alumni
			1 * M2			(MR11 Batch)

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Malla Reddy Engineering College



(Autonomous)
Department of CSE (IoT)

3rd Board of Studies meeting on 11.08.2021 at 11:00 AM

AGENDA

The 3rd Board of Studies meeting for the Departments of CSE (IoT) is convened on 11.08.2021 at 11:00 AM in online mode.

The Agenda of the meeting is as follows.

- 1. Action Taken Report (ATR) on previous BoS Meeting in A.Y 2020-21 on 11-08-2021.
- 2. Discussion and approval of B.Tech. CSE (IoT)) MR21 Regulations I and II Year course Schema and Syllabus.

Dr. N. Lakshmipathi Anantha Chairman,

UG-B.Tech.-CSE (IoT) - BOS

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(Autonomous)

Maisammaguda, Dhullapally(post via Kompally) Secunderabad-500100

Department of CSE (IoT)

BOS – Attendance Sheet

August 11, 2021

The 3rd UG-B.Tech. CSE (IoT) Board of Studies meeting for the Academic Year 2021-22 was conducted on 11-08-2021 at 11:00 AM through online mode. The following BOS Members have attended the BOS Meeting to finalize MR21 regulations CSE (IoT) 1st and 2nd years B.Tech. Course Structure, Syllabus and other points of agenda:

S. No	Name of the Member	Designation & Official Address	Category	Signature	
1	Dr. N Lakshmipathi Anantha	Professor & Head of Department	Chairman	(Comments	
2	Dr. K. Santhi Sree	Professor, CSE, School of Information Technology, JNTUH, Hyderabad.	University Nominee	N 200	
3	Dr. M. Swami Das	Professor, Dept of CSE, CBIT, Hyd.	Subject Expert (Outside the Parent University)	online	
4	Dr. B. Eswara Reddy	Director, Software Development Center, JNTUA.	Subject Expert (Outside the Parent University)	Mline	
5	Mr. Naresh N	Data Scientist, Cognitive Care India Labs Pvt. Ltd, Visakhapatnam.	Industry Expert	online	
6	Dr. R. P. Ram Kumar	Professor	Teaching staff	RP Com Ch	
7	Dr. J. Anitha	Professor	Teaching staff	Ash giols	
8	Mr. G.Jagan Naik	Associate Professor	Teaching staff	Marga	
9	Mr. Banavathu Raja Rao	Assistant Professor	Teaching staff	Su	
10	Ms. Aenugu Rasagnya	Assistant Professor	Teaching staff	A. Chagnys	
11	Ms. G. Sruthi	MTS II – IT Quality Assurance,		A. Bagnys	

Dr. N Lakshmipathi Anantha Chairman,

UG-B.Tech. CSE (IoT) - BOS

MALLA REDDY ENGINEERING COLLEGE (Autonomous)

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

Department of CSE (IoT)

Minutes of 3rdBoSmeetingUG-B.Tech.-CSE(IoT) held on 11.08.2021 at 11:00 AM

The 3rd Board of Studies meeting for the **UG - B.Tech.- CSE (IoT)** is conducted on 11th August, 2021 at 11:00 AM in the online mode. The following members attended the BoS meeting to finalize I and II Years schema and syllabus of MR21 regulations for the B.Tech.- CSE (**IoT**) course.

S. No	Name of the Member	Designation	Position in BoS	Mode of attendance	
1	Dr. N Lakshmipathi Anantha	Professor & Head of Department	Chairman	Offline	
2	Dr. K. Santhi Sree	Professor, CSE, School of Information Technology, JNTUH, Hyderabad.	University Nominee	Online	
3	Dr. M. Swami Das	Professor, Dept of CSE, CBIT, Hyd.	Subject Expert	Online	
4	Dr. B. Eswara Reddy	Director, Software Development Center, JNTUHA.	Subject Expert	Online	
5	Mr. Naresh N	Data Scientist, Cognitive Care India Labs Pvt. Ltd, Visakhapatnam.	Industry Expert	Online	
6	Dr. R. P. Ram Kumar	Professor	Teaching staff	Offline	
7	Dr. J. Anitha	Professor	Teaching staff	Offline	
8	Mr. G. Jagan Naik	Associate Professor	Teaching staff	Offline	
9	Mr. Banavathu Raja Rao	Assistant Professor	Teaching staff	Offline	
10	Ms. Aenugu Rasagnya	Assistant Professor	Teaching staff	Offline	
11	Ms. G. Sruthi	MTS II – IT Quality Assurance, Verizon data service Pvt Ltd, Gachibowli, Hyderabad	Alumni	Offline	

The following is the agenda for the meeting.

- 1. Action Taken Report (ATR) on previous BoS Meeting in A.Y 2020-21 on 11-08-2021.
- 2. Discussion and approval of B.Tech. CSE (Data Science) MR21 Regulations I and II Year course Schema and Syllabus.

At the outset, Dr. N Lakshmipathi Anantha, Prof. & HOD and Chairman of the UG - B.Tech.- CSE (IoT) 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 2021-22 onwards.

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A. Bony Comment

The following resolutions are approved after careful discussion and observations.

1. The BoS Members have thoroughly reviewed and approved the MR21 I and II Years Course Schema and Syllabus of the UG - B.Tech. -CSE (IoT) Course as per the guide lines of the AICTE, UGC and JNTUH, Hyderabad.

The following are the suggestions were made by the members of the BoS and to be implemented in MR21 Academic Regulations.

- The members suggested to implement the Data Structures in C, OOPs in Java and OS using C in the laboratories.
- Expressed to maintain the sequence of offered programming course to the students like C, OOPs concepts.
- Object Oriented Programming course to be titles as Object Oriented Programming through Java.

Finally, Dr. N. Lakshmipathi Anantha, Chairman - BoS has expressed his sincere thanks to all the Members of the BoS for their active participation and contribution. The meeting concluded at 12:00 Noon.

> Dr. N. Lakshmipathi Anantha Chairman,

UG-B.Tech.-CSE (IoT) - BOS

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(Autonomous)
Maisammaguda, Dhulapally (Post via Kompally), Secunderabad-500 100. Department of Computer Science and Engineering (IoT)

Action Taken Report on previous 2nd Common Board of Studies meeting for the Departments of CSE (Cyber Security), CSE (AI and ML), CSE (DS) and CSE (IoT) held on 05.02.2021 in AY 2020-21

The previous 2nd Common Board of Studies meeting for the Departments of CSE (Cyber Security), CSE (AI and ML), CSE (DS) and CSE (IoT) was held on dt: 5th February, 2021. The following are the resolutions made in the meeting and corresponding actions taken are as follows

Resolution 1:	The members suggested to implement the Data Structures in C++, OOPs in Java
	and OS using C in the laboratories.
Action Taken:	The above laboratories are implementing as per suggested languages.
Resolution 2:	Cloud Computing course should be offered as Core Course
Action Taken:	Cloud Computing course is offering as Core Course
Resolution 3:	Free and Open Source Technologies course is to be offered as Professional
	Elective – I
Action Taken:	Free and Open Source Technologies course is offered as Professional Elective-I
Resolution 4:	Topics related to Security Tools need to be included in Computer Networks
	theory and laboratory courses.
Action Taken:	Security Tools Topics included in Computer Networks theory and laboratory
	courses.

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Chair

A. Congress

Chair

Dr. N. Lakshmipathi Anantha Chairman, UG-B.Tech.- CSE (IoT) - BOS

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)

			MR21 I SEMESTER				
S. No.	Category Course Code	tegory Course Course Title	Contact hours/week		Credits		
		Course Time	L	T	P		
1	BSC	B0B01	Linear Algebra and Numerical Methods	3	1	-	4
2	BSC	B0B17	Engineering Chemistry	3	1	-	4
3	BSC	B0B09	Semiconductor Physics	3	1	-	4
4	ESC	B0501	Programming for Problem Solving	3	-	-	3
5	BSC	B0B18	Engineering Chemistry Lab	-	-	2	1
6	BSC	B0B11	Applied Physics Lab	-	-	2	1
7	ESC	B0502	Programming for Problem Solving Lab	-	1	2	2
8	ESC	B0305	Engineering Drawing	2	-	2	3
9	AC	B00A1	NSS/SPORTS/YOGA	-	-	3	-
	Total			14	4	8	22
	Total Contact Hours:						22

S. No	Category	Ategory Course Course Title	Course Title	Contact hours/week			Credits
			Tracking spen	L	T	P	
1	HSMC	B0H01	English	3	-	-	3
2	BSC	B0B02	Probability and Statistics	3	-	-	3
3	ESC	B0201	Basic Electrical and Electronics Engineering	3	-	-	3
4	ESC	B0504	Python Programming	3	1	-	4
5	ESC	B0601	Engineering and IT Workshop	-	-	2	1
6	HSMC	B0H02	English Language Lab	-	-	2	1
7	ESC	B0202	Basic Electrical and Electronics Engineering Lab	-	-	2	1
8	ESC	B0506	Python Programming Lab	-	1	2	2
			Total	12	2	8	18
	Total Contact Hours:					2	10

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S.	Category	ategory Course	MR21 III SEMESTER Course Title	Contact hours/week			Credits
No		Code		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	B0450	Microprocessors and Microcontrollers Foundations	3		•	3
5	PCC	B0510	Object Oriented Programming through Java	3	-	-	3
6	PCC	B0512	Data Structures Lab	-	-	3	1.5
7	PCC	B0451	Microprocessors and Microcontrollers Foundations Lab	-	1	2	2
8	PCC	B0513	Object Oriented Programming Lab	-	-	3	1.5
9	MC	B00M1	Gender Sensitization	-	-	2	-
10	AC	B00A2	INTERNSHIP – I	' -	-	•	-
11	AC	B00A4	NPTEL-I	-	-	2	-
			Total	15	1	12	20
		1.10000	Total Contact Hours:	344	28	3	1

S.	Category	ategory Course	Course Title	Contact hours/week			Credits
No		Code		L	T	P	
1	BSC	B0B07	Applied Statistics and Optimization Techniques	3	-	-	3
2	PCC	B0515	Database Management Systems	3		-	3
3	PCC	B0516	Design and Analysis of Algorithms	3	•	-	3
4	PCC	B6901	Internet of Things Fundamentals	` 3	,	•	3
			Professional Elective –I				
	PEC-I	B6601	Fundamentals of Artificial Intelligence				1000
5		B0518	Free and Open Source Technologies	3	-	-	3
		B6902	Object Oriented Analysis and Design				
6	PCC	B0520	Database Management Systems Lab	-	1	2	2
7	PCC	B0521	Design and Analysis of Algorithms Lab	-	-	3	1.5
8	PCC	B6903	Internet of Things Fundamentals Lab	-	-	3	1.5
9	MC	B00M2	Environmental Science	2	-	-	-
10	AC	B00A5	NPTEL-II	-	-	2	-
11	AC	B00A6	Co-curricular Activity - I	-	-	1	-
			Total	17	1	11	20
			Total Contact Hours:		29		

Sand Comment to Sand Court July January