



MALLA REDDY ENGINEERING COLLEGE

(AUTONOMOUS)

(An UGC Autonomous Institution approved by AICTE and affiliated to JNTUH Hyderabad,
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

2nd Board of Studies Meeting Academic Year 2020 – 21 (MR20 Regulations)

CSE (Cyber Security)
CSE (AI and ML)
CSE (Data Science)
CSE (IoT)



Estd.: 2002

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JNTU Code: J4



MALLA REDDY ENGINEERING COLLEGE

(Autonomous)

Department of CSE (Cyber Security)

Department of CSE (Artificial Intelligence and Machine Learning)

Department of CSE (Data Science)

Department of CSE (IoT)

2nd Board of Studies meeting to be held on 05.02.2021 at 11:00 AM

AGENDA

The 2nd Board of Studies meeting for the Departments of CSE (Cyber Security), CSE (AI and ML), CSE (DS) and CSE (IoT) is convened on 05.02.2021 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 13-11-2020.
2. Discussion and approval of B.Tech. CSE (Cyber Security) course - II Year Schema and Syllabus (MR20 Regulations).
3. Discussion and approval of B.Tech. CSE (AI and ML) course - II Year Schema and Syllabus (MR20 Regulations).
4. Discussion and approval of B.Tech. CSE (Data Science) course - II Year Schema and Syllabus (MR20 Regulations).
5. Discussion and approval of B.Tech. CSE (IoT) course - II Year Schema and Syllabus (MR20 Regulations).

Arise
Sanku *Gyis* *Arise*
(Signature)
(Signature)
Prof. Sanku

R.P. Ramesh
BOS Chairman-
CSE (Cyber Security)
CSE (AI and ML)
CSE (Data Science)
CSE (IoT)

(Signature)



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Department of CSE (IoT)

BOS – Attendance Sheet

February 5th, 2021

The 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 05-02-2021 at 11:00 AM through online mode. The following BOS Members have attended the BOS Meeting to finalize MR20 regulations 2nd B.Tech Course Structure and Syllabus of CSE (Cyber Security), CSE (AI and ML), CSE (DS) and CSE (IoT) programs and other points of agenda:

S. No.	Name of the Member	Designation & Official Address	Category	Signature
1	Dr. R. P. Ram Kumar	Professor & Head of Department	Chairman	
2	Dr. K. Santhi Sree	Professor, CSE, School of Information Technology, JNTUH, Hyderabad.	University Nominee	
3	Dr. M. Swami Das	Professor, Dept of CSE, CBIT, Hyd.	Subject Expert (outside the Parent University)	
4	Dr. B. Eswara Reddy	Director, Software Development Center, JNTUA.	Subject Expert (outside the Parent University)	
5	Mr. K.S. Reddy	CEO, Skill to Hire, Hyderabad.	Industry Expert	
6	Mr. Naresh N	Data Scientist, Cognitive Care India Labs Pvt. Ltd, Visakhapatnam.	Industry Expert	
7	Mr. Raghavendra Rao Grandhi	Client SBI General, Senior consultant-IT, Hytech City, Hyderabad	Industry Expert	
8	Mr. Vinod Sankar Bandaru	Delivery Project Lead, Mphasis Ltd, Bangaluru.	Industry Expert	
9	Mr. P. Maheswara Reddy	Technical Manager, HCL Technologies, Bangaluru.	Industry Expert	
10	Dr. N. Lakshmipathi Anantha	Professor	Teaching staff	
11	Dr. M. Deena Babu	Associate Professor	Teaching staff	
12	Dr. J. Anitha	Associate Professor	Teaching staff	
13	Mr. P. V. Ramana Murthy	Associate Professor	Teaching staff	
14	Mr. P. Sanjeeva	Associate Professor	Teaching staff	
15	Ms. G. Sruthi	MTS II – IT Quality Assurance, Verizon data service Pvt Ltd, Gachibowli, Hyd.	Alumni	

Dr. R. P. Ram Kumar
Chairman - BOS

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Minutes of the 2nd common BoS meeting -UG -B.Tech.- CSE (Cyber Security), CSE (AI and ML), CSE (Data Science) and CSE (IoT) held on 05.02.2021 at 11:00 AM

The 2nd common Board of Studies meeting for the UG - B.Tech.- CSE (Cyber Security), CSE (AI and ML), CSE (Data Science) and CSE (IoT) is conducted on 5th February, 2021 at 11:00 AM in the online mode. The following members attended the BoS meeting to finalize II Year schema and syllabus of MR20 regulations for the above courses.

S. No	Name of the Member	Designation	Position in BoS	Mode of attendance
1	Dr. R. P. Ram Kumar	Professor	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, CognitiveCare India Labs Pvt. Ltd, Visakhapatnam.	Industry Expert	Online
6	Mr. Raghavendra Rao Grandhi	Client SBI general, Senior consultant - IT, Hytech City, Hyderabad	Industry Expert	Online
7	Mr. P. Maheswara Reddy	HCL Technologies, Bangaluru. Technical Manager	Industry Expert	Online
8	Dr. N. Lakshmipathi Anantha	Professor	Teaching staff	Offline
9	Dr. M. Deena Babu	Associate Professor	Teaching staff	Offline
10	Dr. J. Anitha	Associate Professor	Teaching staff	Offline
11	Mr. P. V. Ramana Murthy	Associate Professor	Teaching staff	Offline
12	Mr. P. Sanjeeva	Associate Professor	Teaching staff	Offline
13	Ms. G. Sruthi	MTS II – IT Quality Assurance, Verizon data service Pvt Ltd, Gachibowli, Hyderabad	Alumni	Offline

The following member did not attend the meeting due to personal reasons.

S. No	Name of the Member	Designation	Position in BoS
1	Mr. K.S. Reddy	CEO, Skill to Hire	Industry Expert
2	Mr. Vinod Sankar Bandaru	Mphasis Ltd, Bangaluru. Delivery Project Lead	Industry Expert

Santhi *A. V. S. Reddy* *G. Sruthi* *Dr. N. Lakshmipathi* *Dr. M. Swami Das* *Dr. B. Eswara Reddy* *Dr. J. Anitha* *Dr. M. Deena Babu* *Mr. P. V. Ramana Murthy* *Mr. P. Sanjeeva* *Ms. G. Sruthi* *Prof. Santhi Sree*

The following is the agenda for the meeting.

1. Action Taken Report (ATR) on previous BoS Meeting in A.Y 2020-21 on 13-11-2020.
2. Discussion and approval of B.Tech. CSE (Cyber Security) course - II Year Schema and Syllabus (MR20 Regulations).
3. Discussion and approval of B.Tech. CSE (AI and ML) course - II Year Schema and Syllabus (MR20 Regulations).
4. Discussion and approval of B.Tech. CSE (Data Science) course - II Year Schema and Syllabus (MR20 Regulations).
5. Discussion and approval of B.Tech. CSE (IoT) course - II Year Schema and Syllabus (MR20 Regulations).

At the outset, Dr. R. P. Ram Kumar, Prof. & HOD and Chairman of the UG - B.Tech.- CSE (Cyber Security), CSE (AI and ML), CSE (Data Science) and 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.

The following resolutions are approved after careful discussion and observations.

1. The BoS Members have thoroughly reviewed and approved the MR20 II Year Course Schema and Syllabus of the UG - B.Tech. – CSE (Cyber Security), CSE (AI and ML), CSE (Data Science) and CSE (IoT) Course as per the guide lines of the AICTE, UGC and JNTUH, Hyderabad.

The following are the programme wise suggestions were made by the members of the BoS and to be implemented from the next Academic Regulations (i.e. MR20).

B.Tech. CSE (Cyber Security):

- The members suggested to implement the Data Structures in C++, OOPs in Java and OS using C in the laboratories.
- Cloud Computing course should be offered as Core Course
- Free and Open Source Technologies course is to be offered as Professional Elective – I
- Number Theory & Quantum Computing course to be included
- Topics related to Security Tools need to be included in Computer Networks theory and laboratory courses.

Santhi *Pursho Gaye* *Arora* *Arora* *Arora* *Arora* *Arora* *Arora*

- No repetition of NPTEL (MOOCs) registering titles by students with same semester courses.
- Text / Reference Books prescribed by standard Universities or Institutions with Indian Authors and recent editions to be included in our syllabus.

B.Tech. CSE (Artificial Intelligence and Machine Learning):

- Introduction to Pattern Recognition to be replaced with Mobile Application Development.
- OOAD replace by Image Processing
- Fundamentals of Artificial Intelligence course to be designed with simple concepts / foundations with minimized syllabus.
- Software Engineering Course to be as core course.
- Pattern Recognition course to be shifted to 5th or 6th semester as core course.
- Applied Statistics and Optimization Techniques course need to include concepts related to Numpy, Pandas.

B.Tech. CSE (Data Science):

- “Data Preparation and Analysis” course to be made as core course in 3rd semester.
- Plan for “Data Preparation and Analysis Laboratory” course
- OS theory and lab courses to be replaced by DBMS theory and lab courses.
- “R Programming for Data Science” course title can be replacing with “Statistics for Data Science”.
- Statistics for Data Science lab course can be implemented in R Programming.

B.Tech. CSE (IoT):

- Big Data Analytics course to be shifted to 5th semester
- OS theory and lab courses to be replaced with DBMS theory and lab courses
- In IoT fundamentals theory course, Module V to be reduced
- IoT fundamentals course hours to be planned as 2 lecture hours and 1 tutorial hour
- In IoT laboratory course first 3 experiments to be designed for setting up an environment.
- In PE-I Big Data Analytics course to be replaced with Free and Open Source Technologies course
- Microprocessors and Microcontrollers course need to be revised with more focus on Micro Controllers (ex. AMD) and addressing modes topics can be removed.

Smriti

Arvind

Guy

Aravind

Aravind

Aravind
5/2/24

B

- In Present Microprocessors and Microcontrollers course syllabus, first 3 modules can be reduced to 1 module and minimum 2 modules need to design on Advanced Micro Controllers related topics.

Finally, Dr. R. P. Ram 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 1:30 PM.



Dr. R. P. Ram Kumar

BOS Chairman
CSE(Cyber Security)
CSE (AI and ML)
CSE (Data Science)
CSE (IoT)





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Department of Computer Science and Engineering

Action Taken Report on previous 1st Common Board of Studies meeting for the Departments of CSE (Cyber Security), CSE (AI and ML), CSE (DS) and CSE (IoT) held on 13.11.2020 in AY 2020-21

The previous 1st 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: November 13th, 2020. The following are the resolutions made in the meeting and corresponding actions taken are as follows

Resolution 1: BoS members suggested to rename subjects like AI to Introduction to AI / Basics of AI in their corresponding specialization course structures.

Action Taken: The title of Artificial Intelligence course is renamed as Fundamentals of Artificial Intelligence and placing before BOS for approval.

Resolution 2: Advised to continue courses like Data Mining as Professional Core course

Action Taken: Data Mining course is implementing as Professional Core course and will be decided the appropriate semester based on BOS members suggestion.

Resolution 3: Implementation of Operating System lab in Ubuntu/Andriod/Windows which is ever is better.

Action Taken: planned to Implement in appropriate OS in MR20 regulations.

Resolution4: Inclusion of DLD concepts in Computer Organization syllabus as it is part of Gate course.

Action Taken: Included DLD concepts in Computer Organization and Architecture course.

Resolution5: Inclusion of Embedded System courses along with Microprocessor and Micro controller course in BTech IoT Specialization.

Action Taken: Embedded System course is planned in 3rd year and will be placed before BOS in coming BOS meeting.

Resolution6: Inclusion of Tableau / R programming / Python lab.

Action Taken: Statistics for Data Science Lab is planned to implement using R programming

Arvind
Santosh
Girish
Arjun
Chandrababu
K. Srinivas
Srinivas

R.P. Kumar
BOS Chairman
CSE (Cyber Security)
CSE (AI and ML)
CSE (Data Science)
CSE (IoT)