

Board of Studies 2015-16



Malla Reddy Engineering College

(Autonomous)

(Affiliated to Jawaharlal Nehru Technological University Hyderabad, Hyderabad)
Maisammaguda, (Post via kompally), Hyderabad-500100

Departments of CSE, IT and MCA

Board of Studies for CSE, IT and MCA Members

Date: 23rd April, 2015

S. No	Name	Position	Designation in BOS	Subject Specialization
1	Dr. S. Sudhakara Reddy	Principal	Special Invitee	Mechanical Engineering
2	Dr.Md.Masthan	Professor & HOD, Dept. of CSE	Chairman, BOS	CSE
3	Dr.U Ravi Babu	Professor	Member	CSE
4	Dr.DVSS.Subrahmanyam	Professor	Member	CSE
5	Mr.R.S.Murali Nath	Assoc. professor	Member	CSE
6	Mr. PV Ramana Murthy	Assoc. professor	Member	CSE
7	Ms. J Sireesha	Assoc. professor	Member	CSE
8	Mr. V Satish Kumar	Assoc. Prof & I/C HOD, Dept. of IT	Member	CSE
9	Mr. T. Nilesh Kumar	Assoc. Prof & HOD, Dept. of MCA	Member	CSE
10	Dr. G. Rammurthy	Assoc, Professor, Dept. of CSE, IIT- Hyderabad	Subject Expert	CSE
11	Dr. C. Krishna Mohan	HOD, Dept. of CSE, IIT- Hyderabad	Subject Expert	CSE
12	Dr. S. Durga Bhavani	Professor, SIT, JNTUH	University Nominee	CSE
13	Mr G Vamsi Krishna	Manager – Services, OAKTON,	Industry Representative	CSE
14	Ms G.Sruthi	Asst. Professor, CMRCET	Alumni	CSE

Ravi
PRINCIPAL
Malla Reddy Engineering College
(Autonomous)
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500 100.

[Signature]
Head of the Dept.
Dept. Of CSE
Malla Reddy Engg. College



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Maisammaguda, (Post via kompally), Hyderabad-500100

Departments of CSE, IT and MCA

Minutes of the Meeting of Board of Studies for CSE, IT and MCA

Date: 23rd April, 2015

The **Fifth** Meeting of the Board of Studies (BOS) for the Departments of CSE and Engineering (CSE), Information technology (IT) and Master of Computer Applications (MCA) is conducted on 23rd April 2015 at 10.30AM in Department of CSE and Engineering, Malla Reddy Engineering College, Maisammaguda, Hyderabad. The following BOS Members have attended the Meeting:

S. No	Name	Position	Designation in BOS	Subject Specialization
1	Dr. S. Sudhakara Reddy	Principal	Special Invitee	Mechanical Engineering
2	Dr.Md.Masthan	Professor & HOD, Dept. of CSE	Chairman, BOS	CSE
3	Dr.U Ravi Babu	Professor	Member	CSE
4	Dr.DVSS.Subrahmanyam	Professor	Member	CSE
5	Mr.R.S.Murali Nath	Assoc. professor	Member	CSE
6	Mr. PV Ramana Murthy	Assoc. professor	Member	CSE
7	Ms. J Sireesha	Assoc. professor	Member	CSE
8	Mr. V Satish Kumar	Assoc. Prof & I/C HOD, Dept. of IT	Member	CSE
9	Mr. T. Nilesh Kumar	Assoc. Prof & HOD, Dept. of MCA	Member	CSE
10	Dr. G. Rammurthy	Assoc, Professor, Dept. of CSE, IIT- Hyderabad	Subject Expert	CSE
11	Dr. C. Krishna Mohan	HOD, Dept. of CSE, IIT- Hyderabad	Subject Expert	CSE
12	Dr. S. Durga Bhavani	Professor, SIT, JNTUH	University Nominee	CSE
13	Mr G Vamsi Krishna	Manager – Services, OAKTON,	Industry Representative	CSE
14	Ms G.Sruthi	Asst. Professor, CMRCET	Alumni	CSE

AGENDA

1. Discussion and Approval of B.Tech. Course (CSE) Schema & Syllabus for MR15 regulations w.e.f. 2015-16 academic year onwards.

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PRINCIPAL
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Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500 100.



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- Dr.S.Sudhakara Reddy proposed the following points
 1. Employability Skills is to be replaced with some other subject like Entrepreneurships awareness subjects. This is useful for final year students.
- Dr.D.V.S.S.Subramanyam proposed the following points
 1. Operations Research subject is to be included as an elective.
 2. Neural Networks can be included in Elective-IV.
- Mr.G.Vamshi Krishna proposed the following points
 1. The industry needs certified professionals along with Degree. In view of it, certification courses are to be included in the curriculum.
 2. Informed about the financial help for the few students who are economically backward through Corporate Social Responsibility (CSR) .
- Mr.R.S.Murali Nath proposed the following points
 1. He supported the voice of Mr.G.Vamshi Krishna regarding certifications in applicable subjects can be implemented in III year and IV year.
- Ms.G.Sruthi proposed the following points
 1. The syllabus and its content in III year I semester is having more complexity in student point of view. So, try to reduce the complexity level to average.
 2. GUI tools for application development should be made mandatory instead of optional.
 3. Suggested to include subject of Ethical Sciences in B.Tech Course.
- Dr.U.Ravi Babu proposed the following points
 1. Suggested to increase the number of lab sessions for the important core subject laboratories.
 2. Subjects needed by the industry should be considered.

Finally, The BOS meeting has been concluded with vote of thanks by the chairman of the BOS committee.

Prepared By,
Mrs.Sireesha Jasti.
Assoc.Prof,
Dept., of CSE,
BOS Member.

Received
PRINCIPAL
Malla Reddy Engineering College
(Autonomous)
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500 100.


Chairman
Board of Studies for CSE, IT and MCA
Malla Reddy Engineering College (Autonomous)
Hyderabad-500100.



Malla Reddy Engineering College

(AUTONOMOUS)

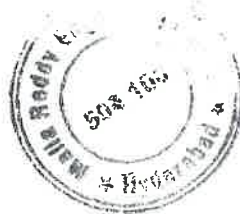
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Date: 10-10-2015

ANNEXURE – V

Reconstituted Board of Studies (BOS) – CSE (2015-16)

S. No	Name	Position	Designation in BOS	Subject Specialization	Contact Number	Status
1	Dr. S. Sudhakara Reddy	Principal, MREC	Special Invitee	Production Engineering	9348161125	Existing
2	Dr. M. Chandra Mohan	Professor & Additional Controller of Examinations, JNTUHCE, Hyderabad.	University Nominee	Computer Science	9959085908	New
3	Dr. U. Ravi Babu	Professor & Head, Dept of CSE	Chairman, BOS	Computer Science	9490123295	Existing
4	Mr. R. S. Murali Nath	Assoc. prof.	Member	Computer Science	9848091992	Existing
5	Mr. P. V. Ramana Murthy	Assoc. prof.	Member	Computer Science	9849520069	Existing
6	Ms. J. Sireesha	Assoc. prof.	Member	Computer Science	9490745272	Existing
7	Mr. V. Satish Kumar	Assoc. Prof. & I/C Head, Dept of IT	Member	Computer Science	9989524448	Existing
8	Dr. G. Rammurthy	Assoc. Prof. IIIT-Hyderabad	Subject Expert	Computer Science	04023063345	Existing
9	Dr. C. Krishna Mohan	Prof. & Head Dept. of CSE, IIT- Hyderabad	Subject Expert	Computer Science	9491712312	Existing
10	Mr. Kunal Dureja	Country Manager Career Education IBM India Private Limited Software Group India/ SA	Industry Expert	Computer Science	9810917204	New
11	Mr. R. Madhu Murthy	CEO, Talent Sprint	Industry Expert	Computer Science	7799000416	New
12	Mrs. G. Sruthi	Assit. Prof., CMRCET	Alumni	Computer Science	8897349445	Existing



Ramurthy
Malla Reddy Engineering College
(Autonomous)
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500 100.

PRINCIPAL

Email : principal@mrec.ac.in
www.mrec.ac.in

Maisammaguda, Dhulapally (Post Via Kompally), Secunderabad - 500 100
Phone: 040-65864982, 65918418, Fax : 040-23792153



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Board of Studies Meeting

On 14-10-2015 at 10.30AM

Dt: 13-10-2015.

To
Dr. C. Krishna Mohan
Prof. & Head Dept. of CSE, IIT- Hyderabad

Dear Sir,

Sub: "BOS meeting scheduled on 14th OCTOBER 2015" -Reg.
Ref: My telephonic conversation with you people on 09-04-2015.

We are glad to inform you that you have been the member of the Board of Studies in Computer Science and Engineering at Malla Reddy Engineering College (Autonomous). The Board of Studies meeting for the Department of Computer Science and Engineering is convened on 14th October 2015 at Department of CSE conference hall at 10.00AM. The Agenda of the Meeting is as follows:

AGENDA

1. Discussion and Approval of B.Tech Course (CSE) Schema & Syllabus for MR15 regulations w.e.f. 2015-16 academic year onwards.
2. Discussion and Approval of M.Tech Course (CSE) Schema & Syllabus for MR15 regulations w.e.f. 2015-16 academic year onwards.
3. Discussion and approval of other B.Tech Course (EEE/ECE) subjects related to Computer Science and Engineering.
4. Suggestion and approval of Panel for Paper Setters, Valuers for both theory and practicals.
5. Delegation of Power to the Chairman, BOS for inclusion and exclusion of any item as per the requirements.
6. Approval of any other item with the permission of the Chairman.

Hence I hereby invite you for the meeting on the proposed date at 10 AM.

Thanking you sir,



Ravi
Principal
Malla Reddy Engineering College
(Autonomous)
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500 100.

Yours Sincerely,

[Signature]
Principal

Malla Reddy Engineering College
(Autonomous)

Maisammaguda, Dhulapally
(Post Via Kompally), Sec'bad-500 100.

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Board of Studies Meeting

On 14-10-2015 at 10.30AM

Dt: 13-10-2015.

To
Dr. G. Rammurthy
Assoc. Prof, IIIT- Hyderabad.

Dear Sir,

Sub: "BOS meeting scheduled on 14th OCTOBER 2015" -Reg.
Ref: My telephonic conversation with you people on 09-04-2015.

We are glad to inform you that you have been the member of the Board of Studies in Computer Science and Engineering at Malla Reddy Engineering College (Autonomous). The Board of Studies meeting for the Department of Computer Science and Engineering is convened on 14th October 2015 at Department of CSE conference hall at 10.00AM. The Agenda of the Meeting is as follows:

AGENDA

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6. Approval of any other item with the permission of the Chairman.

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Thanking you sir,



Yours Sincerely,

PRINCIPAL

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Board of Studies Meeting

On 14-10-2015 at 10.30AM

To
Dr. M. Chandra Mohan
BOS Member (JNTU Nominee)
Professor & Additional Controller of Examinations,
JNTUHCE, Hyderabad

DT: 13-10-2015.

Dear Sir,

Sub: "BOS meeting scheduled on 14th OCTOBER 2015" –Reg.
Ref: My telephonic conversation with you people on 09-04-2015.

We are glad to inform you that you have been the member of the Board of Studies (JNTUH Nominee) in Computer Science and Engineering at Malla Reddy Engineering College (Autonomous). The Board of Studies meeting for the Department of Computer Science and Engineering is convened on 14th October 2015 at Department of CSE conference hall at 10.00AM. The Agenda of the Meeting is as follows:

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3. Discussion and approval of other B.Tech Course (EEE/ECE) subjects related to Computer Science and Engineering.
4. Suggestion and approval of Panel for Paper Setters, Valuers for both theory and practicals.
5. Delegation of Power to the Chairman, BOS for inclusion and exclusion of any item as per the requirements.
6. Approval of any other item with the permission of the Chairman.

Hence I hereby invite you for the meeting on the proposed date at 10 AM.

Thanking you sir,



Ravi
PRINCIPAL
Malla Reddy Engineering College
(Autonomous)
Maisammaguda, Dhulapally,
(Post Via Kompally), Secbad-500 100.

Yours Sincerely,

PRINCIPAL
Malla Reddy Engineering College
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Board of Studies Meeting

On 14-10-2015 at 10.30AM

Dt: 13-10-2015.

To
Mr. R. Madhu Murthy,
CEO, Talent Sprint,
Hyderabad

Dear Sir,

Sub: "BOS meeting scheduled on 14th OCTOBER 2015" -Reg.
Ref: My telephonic conversation with you people on 09-04-2015.

We are glad to inform you that you have been the member of the Board of Studies in Computer Science and Engineering at Malla Reddy Engineering College (Autonomous). The Board of Studies meeting for the Department of Computer Science and Engineering is convened on 14th October 2015 at Department of CSE conference hall at 10.00AM. The Agenda of the Meeting is as follows:

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5. Delegation of Power to the Chairman, BOS for inclusion and exclusion of any item as per the requirements.
6. Approval of any other item with the permission of the Chairman.

Hence I hereby invite you for the meeting on the proposed date at 10 AM.

Thanking you sir,



Ramchandra
PRINCIPAL
Malla Reddy Engineering College
(Autonomous)
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500 100.

Yours Sincerely,

[Signature]
PRINCIPAL
Malla Reddy Engineering College
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Board of Studies Meeting

On 14-10-2015 at 10.30AM

To,
Mr. Kunal Dureja,
Country Manager Career Education,
IBM India Private Limited,
Software Group India/ SA.

Dt: 13-10-2015.

Dear Sir,

Sub: "BOS meeting scheduled on 14th OCTOBER 2015" -Reg.
Ref: My telephonic conversation with you people on 09-04-2015.

We are glad to inform you that you have been the member of the Board of Studies in Computer Science and Engineering at Malla Reddy Engineering College (Autonomous). The Board of Studies meeting for the Department of Computer Science and Engineering is convened on 14th October 2015 at Department of CSE conference hall at 10.00AM. The Agenda of the Meeting is as follows:

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Thanking you sir,



Ravi
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(Autonomous)
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500 100.

Yours Sincerely,

[Signature]
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Malla Reddy Engineering College(Autonomous)

Maisammaguda, Dhulapally (Post Via Kompally), Secunderabad – 500 100.

Departments of CSE / IT / MCA

Board of Studies for Computer Science and Engineering

Date: 14/10/2015

Attendance Sheet

The Board of Studies Meeting for the Department of Computer Science and Engineering, is conducted on 14th October 2015 at Department of CSE conference Hall at 10.30AM.

The following members are attended the BOS for CSE/IT/MCA.

S. No	Name	Position	Designation in BOS	Sign
1	Dr. S. Sudhakara Reddy	Principal, MREC	Special Invitee	Absent
2	Dr. M. Chandra Mohan	Professor & Additional Controller of Examinations, JNTUHCE, Hyderabad	University Nominee	
3	Dr. U. Ravi Babu	Professor & HOD	Chairman, BOS	Rho
4	Mr. R. S. Murali Nath	Assoc. prof.	Member	
5	Mr. P. V. Ramana Murthy	Assoc. prof.	Member	
6	Ms. J. Sireesha	Assoc. prof.	Member	
7	Mr. V. Satish Kumar	Assoc. Prof. & I/C Head, Dept of IT	Member	We
8	Dr. G. Rammurthy	Assoc. Prof. IIIT- Hyderabad	Subject Expert	G. Rammurthy
9	Dr. C. Krishna Mohan	Prof. & Head Dept. of CSE, IIT- Hyderabad	Subject Expert	C. Krishna Mohan
10	Mr. Kunal Dureja	Country Manager Career Education IBM India Private Limited Software Group India/SA	Industry Expert	Kay
11	Mr. R. Madhu Murthy	CEO, Talent Sprint	Industry Expert	Madhu Murthy
12	Mrs. G. Sruthi	Assit. Prof., CMRCET	Alumni	Absent

Ravi
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MALLA REDDY ENGINEERING COLLEGE

(Autonomous)

Maisammaguda, Dulapally (post & via kompally), Secunderabad-500 100

Department of Computer Science and Engineering

Minutes of the Meeting of Board of Studies for CSE

Date: 14/10/2015

The Meeting of the Board of Studies (BOS) for the Departments of Computer Science and Engineering has been conducted on 14th October, 2015 at 10.30AM at Department of Computer science and Engineering, Malla Reddy Engineering College (Autonomous), Maisammaguda, Hyderabad. The following BOS Members have attended the Meeting.

S. No	Name	Position	Designation in BOS
1	Dr. S. Sudhakara Reddy	Principal, MREC	Special Invitee
2	Dr. M. Chandra Mohan	Professor & Additional Controller of Examinations, JNTUHCE, Hyderabad	University Nominee
3	Dr. U. Ravi Babu	Professor and HOD	Chairman, BOS
4	Mr. R. S. Murali Nath	Associate Professor.	Member
5	Mr. P. V. Ramana Murthy	Associate Professor	Member
6	Ms. J. Sireesha	Associate Professor	Member
7	Mr. V. Satish Kumar	Associate Professor & I/C Head, Dept of IT	Member
8	Dr. G. Rammurthy	Associate Professor IIIT-Hyderabad	Subject Expert
9	Dr. C. Krishna Mohan	Professor & Head Dept. of CSE, IIT-Hyderabad	Subject Expert
10	Mr. Kunal Dureja	Country Manager Career Education IBM India Private Limited Software Group India/ SA	Industry Expert
11	Mr. R. Madhu Murthy	CEO, Talent Sprint	Industry Expert
12	Mrs. G. Sruthi	Assistant Professor CMRCET	Alumni

R. S. Murali Nath
Principal
Malla Reddy Engineering College
(Autonomous)
Maisammaguda, Dhulapally,
(Post Via Kompally), Secbad-500 100.

The Principal, Dr. S. Sudhakara Reddy welcomed the members of the BOS and appraised the purpose of the meeting. The Board of Studies Chairman and the Head of the Department of Computer Science and Engineering, Dr. U. Ravi Babu welcomed all the BOS members and expressed his thanks for attending the meeting. He briefed about the Malla Reddy Engineering College, Departments of Computer Science & Engineering. Later each item of the proposed agenda has been discussed in detail, concentrated on choice based credit system and finally the following items have been resolved by all the members of BOS for their implementation from the academic years 2015-16 onwards.

The resolutions of the meeting are as follows:

1. The BOS Members have thoroughly reviewed and discussed the course structure and I semester through VIII semester B.Tech. Computer Science & Engineering, I semester through VI semester M.Tech in Computer Science & Engineering, as per the guidelines of the AICTE and JNTUH.

The BOS Members unanimously resolved to implement these course structures from the academic year 2015-16 for both the U.G. and P.G. programmes offered by the Departments of Computer Science & Engineering with few suggestions.

2. After formation of course structure based on choice based credit system, the BOS has reviewed, devised and implemented the Scheme of instructions, periods per week and number of credits for Computer Science & Engineering and M.Tech Computer Science & Engineering courses as per the guide lines of AICTE.

The members of BOS have suggested and approved with the following changes in B.Tech Computer Science and Engineering course structure and Syllabus for B.Tech. MR15 (2015-16 admitting) batch.

S. No	Year	Semester	Name of the Subject	Modification Suggested
1	I	I	Computer Programming	Module V: B: Searching and Sorting: Sorting-selection sort, bubble sort, insertion sort, Searching-linear and binary search methods
2	I	I	Computer Programming Lab	12. a) Write a C program that uses non-recursive function to search for a Key value in a given list of integers using linear search. b) Write a C program that uses non-recursive function to search for a Key value in a given sorted list of integers using Binary search.

Ravi Babu
PRINCIPAL
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Vijaya Vittala, Sec'bad-500 100.

				<p>13.</p> <p>a) Write a C program that implements the Selection sort method to sort a given array of integers in ascending order.</p> <p>b) Write a C program that implements the Bubble sort method to sort a given list of names in ascending order.</p>
3	I	II	Data Structures	<p>Module – I: Introduction to data structures and Performance Analysis</p> <p>A: Introduction to Data structures: Types of data structures: Primitive and Non-primitive data structures, Linear and Non-linear data structures. Definition of Algorithm.</p> <p>B: Performance Analysis: Time and Space complexities. Asymptotic Notations – Big O, Omega and Theta notations, Recursion definition, Design methodology and implementation of recursive algorithms, Linear and Binary recursion, Recursive algorithms for Factorial of a given number, GCD Computation, Fibonacci sequence, Towers of Hanoi.</p> <p>Module – IV: Trees and Graphs</p> <p>A: Trees: Basic concepts, Binary Trees: Properties, Representation of binary trees using arrays and linked lists, operations on a binary tree, binary tree traversals, creation of binary tree from in, pre and post-order traversals, Tree traversals using stack, Threaded binary trees.</p> <p>B: Graphs: Basic concepts, Representations of Graphs using Linked list and Adjacency matrix, Graph algorithms, Graph traversals (BFS & DFS)</p> <p>Module – V: Search Trees</p> <p>Binary Search Trees, Definition, Operations- Searching, Insertion and Deletion, AVL Trees- Definition and Examples, Insertion into an AVL Tree, B-Trees, Definition, B-Tree of order operations-Insertion and Searching, Introduction to Red-Black and Splay Trees (Elementary treatment-</p>

				only Definitions and Examples), Comparison of Search Trees
4	II	I	Algorithm Design	<p>Module I: Basics of Algorithm Design & Disjoint Sets</p> <p>A: Introduction: Algorithm, Psuedo code for expressing algorithms, Performance Analysis- Space complexity, Time complexity, Asymptotic Notations.</p> <p>B: Disjoint Sets: Disjoint set operations, union and find algorithms, spanning trees, connected components and biconnected components.</p>

After formulation of Schema of instructions, the BOS has reviewed and approved the following New Courses for B.Tech, introducing for MR15 (2015-16 admitting) batch.

- Applied Physics - I
- Applied Physics – 1 Lab
- Basics of Electrical and Electronics Engineering
- Computational Mathematics
- Computational Mathematics Lab
- Applied Statistics
- Algorithm Design Lab
- Gender Sensitization (HS)
- Law for Engineers (AC)
- Probability and Queueing Theory
- Formal Languages and Automata Theory Lab
- Human Values and Professional Ethics
- Microprocessors and Microcontrollers Lab
- Object Oriented Analysis and Design and Software Engineering Lab
- Advanced Computer Architecture Lab
- Entrepreneurship Skills (HS)

And BOS also suggested and approved the following New Courses and syllabus for M.Tech, introducing for MR15 (2015-16 admitting) batch in the M.Tech course structure.

Information Security
Big Data Analytics
Data Analytics Lab
Artificial Intelligence

Ravi
PRINCIPAL
Malla Reddy Engineering College
(Autonomous)
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500 100.

Advanced Database Systems
System Analysis And Design
Internet of Things
Multi-core Architectures
Pervasive Computing
Mobile Databases

3. The BOS has discussed and framed the syllabus of the Computer Science and Engineering subjects offered by the other engineering branches namely Electronics and Communications Engineering, Electrical and Electronics Engineering and Mechanical Engineering as per the guide lines of the AICTE and resolved to implement from the academic year 2015-16 onwards.

4. The BOS members have approved to use the following open-source softwares for the students admitted in MR14 and MR15 Regulations.

Regulations	Programme	Name of the laboratory	Name of the Open-source software
MR14	UG	Data Mining Lab	Weka
MR15	UG	Digital Logic Design Lab	GHDL, FreeHDL
		Formal Languages and Automata Theory Lab	JFlap
		Data Mining and Data Warehousing Lab	Weka
	PG	Data Analytics Lab	R Language

5. The BOS members have agreed to suggest a panel for paper setters and valuers /examiners for both theory and practical of all the subjects of U.G. and P.G. Courses mentioned above. The BOS has also resolved for delegation of power to the Chairman of BOS for inclusion and exclusion of the names of the Panel of paper setters, valuers/examiners for both theory and practical.

Finally, The BOS meeting has been concluded with vote of thanks by the chairman of the BOS committee.


PRINCIPAL
Malla Reddy Engineering College
(Autonomous)
Maisammaguda, Dilapally,
(Post Via Kompally), Sec'bad-500 100.


BOS Chairman

COURSE STRUCTURE AND DETAILED SYLLABUS (MR15 Regulations)

for

B.Tech (COMPUTER SCIENCE AND ENGINEERING)

(Applicable for the batches admitted from 2015-16)



Rhuv
Archer

Prakash
W

Ram
PRINCIPAL
Malla Reddy Engineering College
(Autonomous)
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-500 100.

Adhank

e. umma rba
G. Rama Murthy

MALLA REDDY ENGINEERING COLLEGE
(AUTONOMOUS)

(An Autonomous institution, Autonomy granted by UGC and affiliated to JNTUH, Accredited by NAAC with 'A' Grade, Accredited by NBA (2008-11) & Recipient of World Bank Assistance under TEQIP phase – II S.C.1.1 for the period (2011-14))
Maisammaguda, Dhulapally (Post. Via. Kompally), Secunderabad – 500 100.

Website: www.mrec.ac.in

Email: mrec.2002@gmail.com

COURSE STRUCTURE AND DETAILED SYLLABUS (MR15 Regulations)

for

B.Tech (COMPUTER SCIENCE AND ENGINEERING)

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