



MALLA REDDY ENGINEERING COLLEGE
(UGC Autonomous Institution, Approved by AICTE, New Delhi & Affiliated to
JNTUH, Hyderabad). Accredited by NAAC with 'A' Grade (Cycle II),
Maisammaguda (H), Medchal-Malkajgiri District, Secunderabad,
Telangana State – 500100, www.mrec.ac.in

Department of Computer Science and Engineering

CIRCULAR

Date: 13/04/2023

All the students are hereby informed that Value Added Course on “**Algorithm analysis and design**” is being organized by the **Computer Science and Engineering Department** on dated **16th April 2023 to 21th May 2023**. The resource person for the course is **Mr.M.Nithin** Project Manager, Rober Bosch.

Students are advised to register their names to the programme coordinator “**Mr.P.V.Ramana Murthy, Associated professor CSE Department**”, on or before **15/04/2023** and utilize this opportunity to enhance their skills by attending the programme.

The detailed schedule of the programme will be displayed in the notice board.


Head of the Department

Head of the Department
Dept. of Computer Science and Engineering
Malla Reddy Engineering College (Autonomous)
Secunderabad, Telangana State - 500 100.

Copy to:

- 1) Circulation in Students classroom
- 2) All HOD's
- 3) Notice Boards
- 4) PA to principal for filing.




Principal
Malla Reddy Engineering College
Maisammaguda, Dist: Medchal,
(Post Via Kompally), Secunderabad - 500100.

About the Institution

Malla Reddy Engineering College (Autonomous) is one of the reputed engineering colleges in Hyderabad, Telangana. MREC (A) is part of Malla Reddy Group of Institutions (MRGI), founded by Sri. Ch. Malla Reddy, currently Hon'ble Minister, Labor and Employment, Factories, Women and Child Welfare and Skill Development, Govt. of Telangana State. The college is situated in a serene, lush green environment in Maisammaguda, Gundlapochampally, Medchal(M), Medchal-Malkajgiri District Telangana- 500100.

The college was established in 2002 and is an autonomous institution approved by UGC and affiliated to JNTUH. The college is re-accredited by NAAC with 'A' Grade (II Cycle) and was conferred autonomous status by JNTUH in 2011 and by UGC in 2014 for a period of 6 years. Our eligible UG and PG programs received NBA accreditation and some of them received reaccreditation too. The college caters to wide ranging aspirations and goals of student communities by offering new courses in UG courses provides PG courses and MBA along with programs in various streams of Engineering & Technology and Management. It boasts of world-class infrastructure and well-equipped laboratories in all departments and is skillfully and smartly guided by **Dr. A. Ramaswami Reddy, Principal, MREC (A)** who have a rich teaching and industrial experience.

Mr.

Advisory Committee

Chief Patrons: **Sri. Ch. Malla Reddy**
Founder Chairman
Malla Reddy Group of Institutions

Patrons: **Sri.Ch. Mahender Reddy**
Secretary, MRGI
Dr.Ch.Bhadra Reddy
President, MRGI

Co-Patrons: **Dr.A.Ramaswami Reddy**
Principal, MREC (A)

Convener: **Dr.Shiva Prasad satla**
HOD CSE

Coordinator: **Mr.P.V.Ramana Murthy,**
Associated professor, CSE

Resource Person: **Mr.M.Nithin**
Project Manager, Rober Bosch

Organizing Committee:

Dr.P.Srinivas, Professor, CSE

Dr.J.Anitha, Professor, CSE

Dr.N.Supriya, Professor, CSE

Mr. K Arun Kumar, Assistant Professor, CSE

Ms. S. Sandhya Rani, Assistant Professor, CSE

Mr.K.Subba Shanker, Assistant Professor, CSE

Mr.S.Ajay Kumar, Assistant Professor, CSE

Mr.M.Srikanth, Assistant Professor, CSE

Mr.B.Raja Rao, Assistant Professor, CSE



*A One-Week Skill development Co
(Value added Course)*

On

"Algorithm analysis and design"

16th April 2023 to 21th May 2023



*Organized by
Department of*

**Computer Science and Engineering
MALLA REDDY ENGINEERING COL
(AUTONOMOUS) MAIN CAMPUS**

**An UGC Autonomous Institution, Appro
AICTE & Affiliated to JNTUH-Hyderabad
Reaccredited by NAAC with 'A' Grade (II
Maisammaguda(H), Gundlapochampally
Medchal (M), Medchal - Malkajgiri Dis
Telangana - 500100, India.**

Principal
**Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec-bad-500100.**



Registration Form

Name of the Participant :-----

Branch&Year :-----

Name of Institution:-----

Address for Communication:-----

Mobile Number:-----

E-Mail ID:-----

DECLARATION:

The information furnished above is true to the best of my Knowledge.

Place:

Date:

Signature of Applicant



About the Department

The Department of CSE was started in the year 2005 with a vision of imparting high-quality education to suite the global standards in Computer science and Engineering. The department has got highly qualified & committed faculty members supported by dedicated technical staff.

The department has its own library and sophisticated laboratories not only to suite curriculum requirements but also to serve research needs such as Computer Networks, Data Mining, Software Engineering, Image processing & Cloud Computing. Workshops, software simulation etc.

The department formed CSI and ISTE student branch for the benefit of students and faculty by conducting technical Conferences, workshops, FDPs and Guest lectures.

Overview of the Programme

This course introduces concepts related to the design and analysis of algorithms. Specifically, it discusses recurrence relations, and illustrates their role in asymptotic and probabilistic analysis of algorithms.

It covers in detail greedy strategies divide and conquer techniques, dynamic programming and max flow - min cut theory for designing algorithms, and illustrates them using a number of wellknown problems and applications.

It also covers popular graph and matching algorithms, and basics of randomized algorithms and computational complexity. However, the depth of coverage of complexity classes and intractability, approximation algorithms,

Objectives of the Programme

Upon completion of this course, students will be able to do the following:

- Analyze the asymptotic performance of algorithms.
- Write rigorous correctness proofs for algorithms.
- Demonstrate a familiarity with major algorithms and data structures.
- Apply important algorithmic design paradigms and methods of analysis.
- Synthesize efficient algorithms in common engineering design situations

Topics to be covered

- Time complexity, space complexity, step count method
- Weighted union and find algorithms
- Understanding divide-and-conquer method,
- greedy general method

Certificate

After successful completion of the course the certificates shall be issued to the participants.

Outcome of the program,

Analyze worst-case running times of algorithms using asymptotic analysis. Describe the divide-and-conquer paradigm and explain when an algorithmic design situation calls for it. Recite algorithms that employ this paradigm. Synthesize divide-and-conquer algorithms. Derive and solve recurrences describing the performance of divide-and-conquer algorithms.

Malla Reddy Engineering College
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Maisammaguda (H), Medchal-Malkajgiri District, Secunderabad,
Telangana State – 500100, www.mrec.ac.in

Algorithms analysis and design

Course code: VACCSE08

Duration of the course: (30 hrs)

Objective of the course:

This course will make students to analyze asymptotic performance of algorithms, understand different methods like divide and conquer, greedy and graph theory. It also helps to develop solutions to the problems that arise with dynamic programming method by applying backtracking techniques on different applications and synthesizing branch and bound, NP problems

Syllabus

UNIT 1:

Total hrs: 6hrs

Introduction -Algorithm, Pseudo code for expressing algorithms, Performance Analysis-Space complexity, Time complexity, Asymptotic Notations, Amortized analysis.

Disjoint Sets -Disjoint set operations, union and find algorithms, spanning trees, connected components and bi connected components.

UNIT2:

Total hrs: 8hrs

Algorithm Methods: Divide and Conquer - General method, applications-Binary search, Quick sort, Merge sort, Strassen_s matrix multiplication

Greedy method General method, applications-Job sequencing with deadlines, general knapsack problem, Minimum cost spanning trees, Single source shortest path problem

UNIT 3:

Total hrs:4 hrs

A: Dynamic Programming - General method, applications-Matrix chain multiplication, Optimal binary search trees, 0/1 knapsack problem .

B: Optimization Techniques - All pairs shortest path problem, travelling sales person problem, Reliability design.

UNIT 4:

Total hrs: 6hrs

Backtracking-General method, n-queen problem, sum of subsets problem, graph coloring, Hamiltonian cycles

Branch and Bound - General method, applications: Travelling sales person problem, 0/1 knapsack problem- LC Branch and Bound solution, FIFO Branch and Bound solution



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NP-Hard and NP-Completeness: Basic concepts, NP - Hard and NP Complete classes, Cook's theorem, Deterministic and Non-Deterministic algorithms, NP-hard graph problems and scheduling problem

Outcome of the course:

- At the end of the course, students will be able to
- Analyze performance of algorithms using asymptotic notations
- Describe and analyze paradigms for designing good algorithms using Divide-and-Conquer and Greedy Techniques.
- Synthesize dynamic-programming algorithms, and analyze them
- Learn and apply backtracking and branch and bound techniques to solve some complex problems.
- Apply algorithm design techniques to solve certain NP-complete problems.




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Value Added Courses
On
"Algorithm analysis and design"

16th April 2023 to 21th May 2023

Organized by

Department of Computer Science and Engineering.

MALLA REDDY ENGINEERING COLLEGE (Autonomous)

Maisammaguda, Dhulapally Post, via Kompally
Secunderabad- 500100

REGISTRATION FORM

Date: 16.04.2023

1. Name of the Participant TALASILA ALEKHYA
..... 2021105801

2. Designation STUDENT


3. Qualification: B.Tech [CSE]

4. Institute: MALLA REDDY ENGINEERING COLLEGE
..... [AUTONOMOUS]


5. Address for communication: Miyapur - Hyderabad

6. Mobile Number 9965289720

7. E-mail: Alekhya_58@gmail.com


Date: Signature of the Applicant




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Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec-bad-500100.

Value Added Courses
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MALLA REDDY ENGINEERING COLLEGE (Autonomous)

Maisammaguda, Dhulapally Post, via Kompally
Secunderabad- 500100

REGISTRATION FORM

Date: 16.04.2023

1. Name of the Participant U. SHIREESHA
..... 20J41D5802
2. Designation STUDENT
3. Qualification: B.Tech [CSE]
4. Institute: MALLA REDDY ENGINEERING COLLEGE
..... [AUTONOMOUS]
5. Address for communication: Kothirampur - Karimnagar
6. Mobile Number 7256907241
7. E-mail: shireesha_569@gmail.com


Date: Signature of the Applicant




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Value Added Courses
On
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MALLA REDDY ENGINEERING COLLEGE (Autonomous)

Maisammaguda, Dhulapally Post, via Kompally
Secunderabad- 500100

REGISTRATION FORM

Date: 16.04.2023

1. Name of the Participant ABDUL GAFFAR KHAN
20JY105804
2. Designation STUDENT
3. Qualification: B.Tech [CSE]
4. Institute: MALLA REDDY ENGINEERING COLLEGE
[AUTONOMOUS]
5. Address for communication: Miyapur - Hyderabad
6. Mobile Number 8863980724
7. E-mail: gaffar_63@gmail.com

Date: Gaffar
Signature of the Applicant



He
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Malla Reddy Engineering College
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(Post Via Kompally), Sec-bad-500100.

Value Added Courses
On
"Algorithm analysis and design"

16th April 2023 to 21th May 2023

Organized by

Department of Computer Science and Engineering.

MALLA REDDY ENGINEERING COLLEGE (Autonomous)

Maisammaguda, Dhulapally Post, via Kompally
Secunderabad- 500100

REGISTRATION FORM

Date: 16.04.2023

1. Name of the Participant N. ROHITH
..... 20J4ID5803
2. Designation STUDENT
3. Qualification: B-tech (C.S.E)
4. Institute: MALLAREDDY ENGINEERING COLLEGE
..... [Autonomous]
5. Address for communication: Gajwel- siddipet
6. Mobile Number 820 5128861
7. E-mail: rohith826@gmail.com

Date: Signature of the Applicant



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**MALLA REDDY ENGINEERING COLLEGE
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(UGC Autonomous Institution, Affiliated to JNTUH, Accredited 2nd time
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under TEQIP--II S.C. 1.1)

Maisammaguda (H), Medchal-Malkajgiri District,
Telangana State – 500100

Department: CSE

**Course Name: Algorithm
analysis and design**

**Date: 16th April 2023 to 21th
May 2023**

**Value Added Course
List of Students enrolled and completed**

Sl.No	Roll No	Name of the students	Year/ Semester	Course completed
1	20J41D5801	TalasilaAlekhya	I/II	YES
2	20J41D5802	U. Shireesha	I/II	YES
3	20J41D5803	N Rohith	I/II	YES
4	20J41D5804	Abdul Gaffar Khan	I/II	YES

HOD-CSE

Head of the Department
Dept. of Computer Science and Engineering
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Secunderabad, Telangana State - 500 100.



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Department: CSE

Date: 16th April 2023 to 21st May 2023

IM.Tech IISem Value Added Course Attendance Sheet

Algorithm Analysis and Design

S.NO	Roll no	Name of the Student	04/05/23	05/05/23	08/05/23	09/05/23	10/05/23	11/05/23	12/05/23	13/05/23	15/05/23	16/05/23	17/05/23	18/05/23	19/05/23	20/05/23
1	20141D5801	TalasilaAlekhya	TR	TR	TR	TR	TR	A	TR	TR	TR	TR	TR	TR	TR	TR
2	20141D5802	U. Shireesha	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	A	SR
3	20141D5803	N Rohith	R	R	R	R	R	R	R	R	A	R	R	R	R	R
4	20141D5804	Abdul Gaffar Khan	CR	CR	CR	CR	CR	CR	CR	CR	CR	CR	CR	A	CR	CR

A.V. Suresh
CO-ORDINATOR

RSR
HOD



AS
Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec-500100.

Head of the Department
Dept. of Computer Science and Engineering
Malla Reddy Engineering College (Autonomous)
Secunderabad, Telangana State - 500 100.



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Department: CSE

Date: 16th April 2023 to 21st May 2023

IM.Tech IISem Value Added Course Attendance Sheet Algorithms Analysis and Design

S.NO	Roll no	Name of the Student	17/4/2 3	18/4/2 3	19/4/2 3	20/4 /23	21/4/2 3	24/4/ 23	25/4/2 3	26/4/23	27/4/2 3	28/4/2 3	29/4/23	01/05/23	02/05/23	03/05/2 3
1	20J41D5801	TalasilaAlekhya	TH	TH	TH	TH	TH	TH	A	TH	TH	TH	TH	TH	TH	TH
2	20J41D5802	U. Shireesha	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	A	SR
3	20J41D5803	N Rohith	P	P	P	P	P	P	P	P	P	P	P	P	P	A
4	20J41D5804	Abdul Gaffar Khan	C/A	C/A	C/A	A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A	C/A

F.V. Jany
CO-ORDINATER

P.S.B
HOD



Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec-bad-500100.

Head of the Department
Dept. of Computer Science and Engineering
Malla Reddy Engineering College (Autonomous)
Secunderabad, Telangana State - 500 100.



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Department: CSE

Date: 16th April 2023 to 21st May 2023

IM.Tech IISem Value Added Course Attendance Sheet

Algorithms Analysis and Design

S.NO	Roll no	Name of the Student	17/4/23	18/4/23	19/4/23	20/4/23	21/4/23	24/4/23	25/4/23	26/4/23	27/4/23	28/4/23	29/4/23	01/05/23	02/05/23	03/05/23
1	20141D5801	Talasila Alekhya	TH	TH	TH	TH	TH	TH	A	TH	TH	TH	TH	TH	TH	TH
2	20141D5802	U. Shireesha	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	A	SR
3	20141D5803	N Rohith	P	P	P	P	P	P	P	P	P	P	P	P	P	A
4	20141D5804	Abdul Gaffar Khan	CR	CR	CR	A	CR	CR	CR	CR	CR	CR	CR	CR	CR	CR

F.V. Jay
CO-ORDINATER

P.S.B
HOD



Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec-Bad-500100.

Head of the Department
Dept. of Computer Science and Engineering
Malla Reddy Engineering College (Autonomous)
Secunderabad, Telangana State - 500 100.

MALLA REDDY ENGINEERING COLLEGE (Autonomous)

Maisammaguda, Dhulapally Post, via Kompally
Secunderabad- 500100

Value Added Courses
On
“ALGORITHM ANALYSIS AND DESIGN”
Organized by
Department of Computer Science and Engg.

FEED BACK FORM

Thank you for your Interest to attend value added courses:

Please provide your valuable feedback

1. How well was the session organized?

Excellent

Good

Poor

2. How good is the content of this value Added course ?

Excellent

Good

Poor

3. Do you feel the resource person explain the all concepts?

Excellent

Good

Poor

4. How all the topics given in the program scheduled been covered?

Excellent

Good

Poor

5. Other comments if any : Nice session



Ag
Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec-had-500100.

N. Rohitha
Signature of the participant

MALLA REDDY ENGINEERING COLLEGE (Autonomous)

Maisammaguda, Dhulapally Post, via Kompally
Secunderabad- 500100

Value Added Courses
On
“ALGORITHM ANALYSIS AND DESIGN”
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 Good
 Poor

5. Other comments if any : _____

Shireesha
Signature of the participant




Principal
Malla Reddy Engineering College
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(Post Via Kompally), Sec-bad-500100,

MALLA REDDY ENGINEERING COLLEGE (Autonomous)

Maisammaguda, Dhulapally Post, via Kompally
Secunderabad- 500100

**Value Added Courses
On
"ALGORITHM ANALYSIS AND DESIGN"
Organized by
Department of Computer Science and Engg.**

FEED BACK FORM

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 Good
 Poor

5. Other comments if any : _____

T. Alekhya
Signature of the participant



Agg
Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally, via
(Post Via Kompally), Sec-500 100.

MALLA REDDY ENGINEERING COLLEGE (Autonomous)

Maisammaguda, Dhulapally Post, via Kompally
Secunderabad- 500100

Value Added Courses
On
“ALGORITHM ANALYSIS AND DESIGN”
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- Excellent
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 Poor

5. Other comments if any : _____

Abdul Gaffar Khan
Signature of the participant



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Maisammaguda, Dhulapally,
(Post Via Kompally), Sec-bad-500100.



MALLA REDDY ENGINEERING COLLEGE

(Autonomous – main Campus))

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

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VALUE ADDED COURSES

On

“Certification program on Algorithm analysis and design”


Certificate

This is to certify that 20J41D5803, N Rohith from Department of Computer Science and Engineering successfully completed the Value Added Course on “Certification Program on Algorithm analysis and design” held from 16.04.2023 to 21.05.2023 organized by Department of Computer Science and Engineering, MREC (Autonomous) , Hyderabad, Telangana


Coordinator




Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec-bad-500100.


HOD
Head of the Department
Dept. of Computer Science and Engineering
Malla Reddy Engineering College (Autonomous)
Secunderabad, Telangana State - 500 100.



MALLA REDDY ENGINEERING COLLEGE

(Autonomous – main Campus)

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

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VALUE ADDED COURSES

On


“Certification program on Algorithm analysis and design”

Certificate

This is to certify that 20J41D5802, U. Shireesha from Department of Computer Science and Engineering successfully completed the Value Added Course on “Certification Program on Algorithm analysis and design” held from 16.04.2023 to 21.05.2023 organized by Department of Computer Science and Engineering, MREC (Autonomous) , Hyderabad, Telangana


Coordinator




Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec-bad-500100.


HOD

Head of the Department
Dept. of Computer Science and Engineering
Malla Reddy Engineering College (Autonomous)
Secunderabad, Telangana State - 500 100



MALLA REDDY ENGINEERING COLLEGE

(Autonomous – main Campus))

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

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VALUE ADDED COURSES

On


“Certification program on Algorithm analysis and design”

Certificate

This is to certify that 20J41D5801, Talasila Alekhya from Department of Computer Science and Engineering successfully completed the Value Added Course on “Certification Program on Algorithm analysis and design” held from 16.04.2023 to 21.05.2023 organized by Department of Computer Science and Engineering, MREC (Autonomous) , Hyderabad, Telangana

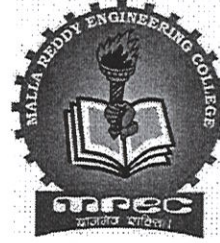
Coordinator




Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec-bad-500100.


HOD

Head of the Department
Dept. of Computer Science and Engineering
Malla Reddy Engineering College (Autonomous)
Secunderabad, Telangana State - 500 100



MALLA REDDY ENGINEERING COLLEGE

(Autonomous – main Campus))

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

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VALUE ADDED COURSES

On

“Certification program on Algorithm analysis and design”


Certificate

This is to certify that 20J41D5804, Abdul Gaffar Khan from Department of Computer Science and Engineering successfully completed the Value Added Course on “Certification Program on Algorithm analysis and design” held from 16.04.2023 to 21.05.2023 organized by Department of Computer Science and Engineering, MREC (Autonomous) , Hyderabad, Telangana


Coordinator




Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec-bad-500100.


HOD
Head of the Department
Dept. of Computer Science and Engineering
Malla Reddy Engineering College (Autonomous)
Secunderabad, Telangana State - 500 100.