



MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)
(An UGC Autonomous Institution, Affiliated to JNTUH, Hyderabad Accredited 2nd time by NAAC with
'A' Grade & NBA and Recipient of World Bank Assistance under TEQIP--II S.C. 1.1)
Maisammaguda (H), Medchal-Malkajgiri District, Secunderabad, Telangana
State – 500100
www.mrec.ac.in

Department of Computer Science and Engineering

CIRCULAR

Date: 24/02/2020

All the students are hereby informed that Value Added Course on “**DATA STRUCTURES ANALYSIS AND ALGORITHMS**” is being organized by the **Computer Science and Engineering** department on dated **2nd March 2020 to 06th March 2020**. The resource person for the course is “**Ms. Sruthi Gandhi, Verizon Data Services, Mr. D Srinivasa Rao AsstProf**”

Students are advised to register their names to the programme coordinator “**Mr. PV Ramana Murthy, Associate Prof, CSE Dept**”, on or before 28/02/2020 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

Copy to:

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



Ramana Murthy
Principal
Malla Reddy Engineering College
Maisammaguda, Dhulapally,
(Post Via Kompally), Sec'bad-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, Director, MREC (A)** and **Dr. A. Raveendra, Principal, MREC (A)** who have a rich teaching and industrial experience.

Mr.

Advisory Committee

Chief Patrons: Sri. Ch. Malla Reddy, Minister-Telangana State-India.

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**
Director, MREC (A)

Dr. A. Raveendra
Principal, MREC (A)

Convener: **Dr. R.P. Ram Kumar**
HOD CSE

Coordinator: **Mr. P.V. Ramana Murthy**
Associate Professor, CSE

Resource Person 1: Ms. **Sruthi Gandhi**
Verizon Data Services
2: Mr. D. Srinivasa Rao
Assistant professor

Organizing Committee:

Dr. O. Obulesu, Professor, CSE

Dr. S. Dhanalakshmi, Professor, CSE

Mr. Sanjeeva Polepaka, Associate Professor, CSE

Mr. S. Ajay Kumar, Associate Professor, CSE

Ms. S. Sandhya Ran, Assistant Professor, CSE

Mr. Md. Inayathulla, Assistant Professor, CSE

Mr. A. Lakshman, Assistant Professor, CSE

Mr. P. Venkateshwara Rao, Assistant Professor, CSE

Mr. G. Vamshi Krishna, Assistant Professor, CSE



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

On

"Data Structures and Analysis of Algorithms"

(2nd to 6th March, 2020)

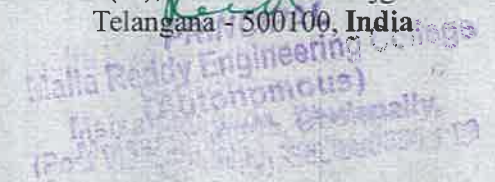


*Organized by
Department of*

**Computer Science and Engineering
MALLA REDDY ENGINEERING COLLEGE**

(AUTONOMOUS) MAIN CAMPUS

An UGC Autonomous Institution, Approved by
AICTE & Affiliated to JNTUH-Hyderabad
Reaccredited by NAAC with 'A' Grade (II Cycle)
Maisammaguda(H), Gundlapochampally (V),
Medchal (M), Medchal, Malkajgiri District
Telangana - 500100, India



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

A data structure is a named location that can be used to store and organize data. And, an algorithm is a collection of steps to solve a particular problem. Learning data structures and algorithms allow us to write efficient and optimized computer programs.

Objectives of the Programme

The main objective of this programme is to provide an introduction to basic and advanced data structures, and algorithms for manipulating them, by using a programming language. The participants will learn how the choice of data structures and algorithm design methods impact

the performance of programs. How to choose the appropriate data structure and algorithm design method for a specified application.

Topics to be covered

- Elements of Algorithm Analysis
- Lists, Stacks and Queues
- Different types of Tree Data Structures
- Hashing Techniques
- Sorting and Searching Problems
- Graph Algorithms
- Algorithm Design Techniques
- NP- completeness
- Amortized Analysis

Certificate

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

Outcome of the program

On completion of this course, participants will be able to identify data structures suitable to solve problems, develop and analyze algorithms for linear and non-linear data structures, implement symbol table using hashing techniques, identify algorithm design methodology to solve problems, distinguish between P and NP classes of problems, and analyze amortized time complexity.



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500100

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VAC DATA STRUCTURES AND ANALYSIS OF ALGORITHMS Syllabus

- Introduction -Data Management concepts,Data types – primitive and non-primitive, Types of Data Structures- Linear & Non Linear structures.
- Arrays,Representation of arrays, Applications of arrays. Stack: Stack-Definitions & Concepts, Operations On Stacks, Applications of Stacks.
- Queue: Representation Of Queue, Operations On Queue,Circular Queue, Priority Queue, Array representation of Priority Queue,
- Linked List: Singly Linked List, Doubly Linked list. Circular linked list ,Linked implementation of Stack, Linked implementation of Queue, Applications of linked list.
- Linear and Non-Linear data structures,Tree definitions,Threaded binary tree, Binary search trees,
- Applications Of Trees:Some balanced tree mechanism,eg. AVL trees, 2-3 trees, Height Balanced, Weight Balance.
- Graph-Matrix Representation Of Graphs, Elementary Graph operations,Breadth First Search, Depth First Search.
- SORTING And SEARCHING: Insertion Sort,Quick Sort,Merge Sort,Heap Sort, Sorting On Several Keys, List and Table Sort, Linear Search, Binary Search.
- Hashing And File Structures : Hashing: The symbol table, Hashing Functions, Collision-Resolution Techniques,
- File Structure: Concepts of fields, records and files, Sequential, Indexed and Relative/Random File Organization,
- Concepts of fields, records and files, Sequential, Indexed and Relative/Random File.Organization, Indexing structure for index files, hashing for direct files, Multi-Key file organization and access methods.



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

DEPARTMENT: CSE

**DATA STRUCTURES AND
ANALYSIS OF ALGORITHM**

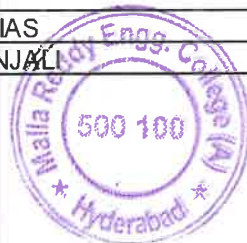
Date:02/03/2020-06/03/2020

Sl.No	Roll No	Name of the Students	Year/Semester
1	18J41A0501	ADLA RAJA REDDY	II/II
2	18J41A0502	ARE CHAKRI	II/II
3	18J41A0503	ARUPULA KISHORE	II/II
4	18J41A0504	BALUSANI SRICHARAN	II/II
5	18J41A0505	BEJJANKI JYOTHI	II/II
6	18J41A0506	BHUKYA BALARAJU	II/II
7	18J41A0507	BIDAR PRANEEL	II/II
8	18J41A0508	BOLLAMPALLI RAKESH	II/II
9	18J41A0509	BOYA NITHISHA	II/II
10	18J41A0510	CHALVADI DHANUSH	II/II
11	18J41A0511	CHAMARTHI KALYAN VARMA	II/II
12	18J41A0512	CHILLAKANTI L NAGA SATYA NARASIMHA BHARGAV	II/II
13	18J41A0513	DATHRIKA KARTHIK	II/II
14	18J41A0514	DHONDI AKSHAYA	II/II
15	18J41A0515	DODDIGUNTA DINESH	II/II
16	18J41A0516	GADDAM ABHIRAM	II/II
17	18J41A0517	GUJJARI ANIRUDH	II/II
18	18J41A0518	GUMMAPU JOHN MARY	II/II
19	18J41A0519	GUNDETI SRIJA REDDY	II/II
20	18J41A0520	GURIJA SHRAVAN	II/II
21	18J41A0521	JUTTA TEJA SRI GUNA SAI SUMA	II/II
22	18J41A0522	KAGITAPU ROHITH	II/II
23	18J41A0523	KALANGI PURUSHOTHAM	II/II
24	18J41A0524	KALPURE NEEMA	II/II
25	18J41A0525	KALYANI JAZI BHANUTEJA	II/II
26	18J41A0526	KANUMATHI REDDY SUJITH	II/II
27	18J41A0527	KANURI JAYA VARADATTA REVANTH	II/II
28	18J41A0528	KATHI VAMSHI KRISHNA	II/II



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29	18J41A0529	KATRAVATH GANGA	II/II
30	18J41A0530	KONA RAMYA	II/II
31	18J41A0531	KOPPULA SAI PHANI	II/II
32	18J41A0532	KOTTE HEMANTH	II/II
33	18J41A0533	KUTHURU KARTHIK	II/II
34	18J41A0534	MADGULA UDAY KUMAR	II/II
35	18J41A0535	MADHIRA SAINATH	II/II
36	18J41A0536	MALLEPALLI HIMAJAREDDY	II/II
37	18J41A0537	MOHAMMED TABREZ	II/II
38	18J41A0538	NIMMAGADDA SRI HARSHA CHAITANYA	II/II
39	18J41A0539	OMKAR BIDARKAR	II/II
40	18J41A0540	P SAI ABHIJAT	II/II
41	18J41A0541	PEDDI SUNAYANI	II/II
42	18J41A0542	PENDRU MEGHANA REDDY	II/II
43	18J41A0543	PODISHETTI PAVAN	II/II
44	18J41A0544	POLISETTY SHRUTHI	II/II
45	18J41A0545	PULLAKHANDAM APARNA	II/II
46	18J41A0546	RASAKONDA ADVETHA	II/II
47	18J41A0547	RAVULA TEJA SRI	II/II
48	18J41A0548	SAI CHARAN REDDY ASHANNAGARI	II/II
49	18J41A0549	SAMALA SHRUTHI	II/II
50	18J41A0550	SARDAR DALBEER SINGH	II/II
51	18J41A0551	SARVA HRUTHIK NARAYAN	II/II
52	18J41A0552	SRIYAPUREDDY SNEHA REDDY	II/II
53	18J41A0553	T SAI ANURAG REDDY	II/II
54	18J41A0554	THAMMINENI ASHA NIKITHA	II/II
55	18J41A0555	THUMMA PRANATHI	II/II
56	18J41A0556	TRISHA VUDEPU	II/II
57	18J41A0557	VADLAMUDI NAVEEN	II/II
58	18J41A0558	VIDYACHARAN DUNDIGAL	II/II
59	18J41A0559	YATELLI PRANAY PAUL	II/II
60	18J41A0560	ZEBARANNAM	II/II
61	18J41A0561	ABDUL SAMAD	II/II
62	18J41A0562	AKKINAPALLI SAIDEERAK	II/II
63	18J41A0563	ANANDITA THAKUR	II/II
64	18J41A0564	ANANTHU VENKATA NAGA SAI SUMANTH	II/II
65	18J41A0565	ANNOLLA TULASI	II/II
66	18J41A0566	ANUSHA LILY MATHIAS	II/II
67	18J41A0567	BANOTHU GEETHANJALI	II/II



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68	18J41A0568	BAZAR ANKIT GOUD	II/II
69	18J41A0569	BEGARI PRAVEEN KUMAR	II/II
70	18J41A0570	BHUKYA SONIYA	II/II
71	18J41A0571	BOGGARAPU NIKHILESH	II/II
72	18J41A0572	BOLLAMPALLY VINEETH RAJ	II/II
73	18J41A0573	BUDHA RAHUL RISHWANTH	II/II
74	18J41A0574	CHINTALA ASHA SREE	II/II
75	18J41A0575	CHITTA SRILEKHA	II/II
76	18J41A0576	D AKSHAJAA	II/II
77	18J41A0577	DUGGE RAVITEJA	II/II
78	18J41A0578	GADDAM AKSHATH REDDY	II/II
79	18J41A0579	GAJJELA PRASHANTH	II/II
80	18J41A0580	GOPU SHINY TARA	II/II
81	18J41A0581	GORINKALA LAXMAN KUMAR	II/II
82	18J41A0582	GOTTE ANIRUDH	II/II
83	18J41A0583	INDHANA MADHU RAMYASREE	II/II
84	18J41A0584	K PAVANI KRISHNA	II/II
85	18J41A0585	KAMMARI RAMYA	II/II
86	18J41A0586	KAPILAVAI SIVA NAGA SAI LOKESH	II/II
87	18J41A0587	KASULADEVI NANDINI	II/II
88	18J41A0588	KATURI AKSHAY	II/II
89	18J41A0589	KESARI SREE	II/II
90	18J41A0590	KHEMSHETTE KAPIL	II/II
91	18J41A0591	KONGANTI RAM KUMAR	II/II
92	18J41A0592	KUMBHAM SAI CHARAN	II/II
93	18J41A0593	M R NILESH	II/II
94	18J41A0594	MAMULLA HARISH	II/II
95	18J41A0595	MANTHU SUNIL	II/II
96	18J41A0596	MEDASANI JAYALAKSHMI	II/II
97	18J41A0597	MEDIKAYALA GOURI SHANKAR	II/II
98	18J41A0598	MERUGA PRIYANKA	II/II
99	18J41A0599	MOHAMMED MUNAWAR HUSSAIN	II/II
100	18J41A05A0	MUPPIDI YAGAPRIYA	II/II
101	18J41A05A1	PADAMATI SUJATHA	II/II
102	18J41A05A2	PAPPULA RITHISH REDDY	II/II
103	18J41A05A3	PEDDI BHARATH KUMAR	II/II
104	18J41A05A4	PETA GOPIKASIRI	II/II
105	18J41A05A5	POTHARAM MOUNIKA	II/II
106	18J41A05A6	PULIGADDA ROHIT	II/II



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107	18J41A05A7	REDDY SAI SUMANTH	II/II
108	18J41A05A8	RITESH GOURAVARAM NAVALUR	II/II
109	18J41A05A9	SAI ARAVIND MULA	II/II
110	18J41A05B0	SAINNI VIJAYKANTH	II/II
111	18J41A05B1	SANABOINA NAVEEN	II/II
112	18J41A05B2	SATTARAPU SIDDARTH	II/II
113	18J41A05B3	SHASHANK REDDY ANNARAPU	II/II
114	18J41A05B4	SIRUSALA CHANDRAKANTH	II/II
115	18J41A05B5	TADIKONDA GNANDEEP	II/II
116	18J41A05B6	TURAKA TEJASWINI	II/II
117	18J41A05B7	VALETI LOKESH	II/II
118	18J41A05B8	VANKUDOTHU PRAVEEN	II/II
119	18J41A05B9	Y NISHANT	II/II
120	18J41A05C0	YAPA MOUNIKA	II/II
121	18J41A05C1	ABHINAV BORAD	II/II
122	18J41A05C2	ABHISHEK BOMMENA	II/II
123	18J41A05C3	ADDAGADA BALAKRISHNA	II/II
124	18J41A05C4	B G ASLAS KUMAR	II/II
125	18J41A05C5	B RUCHITHA	II/II
126	18J41A05C6	BANDARU ANVITHA	II/II
127	18J41A05C7	BASHETTI SAITEJA	II/II
128	18J41A05C8	BATHINI REETHIKA	II/II
129	18J41A05C9	BEGARI PAVAN KUMAR	II/II
130	18J41A05D0	CHAPETTI ANVESH REDDY	II/II
131	18J41A05D1	CHINTHAPALLY ESHWAR SAI RAGHAVA	II/II
132	18J41A05D2	DODDIGUNTA VAMSIKRISHNA	II/II
133	18J41A05D3	DUGGIRALA DURGA RAM PRASAD	II/II
134	18J41A05D4	DUTTA SAI SRAVANI	II/II
135	18J41A05D5	GADDAM AKHILA	II/II
136	18J41A05D6	GADDAM ASHVITHA	II/II
137	18J41A05D7	GADDAM LOKESH REDDY	II/II
138	18J41A05D8	GADEPAGA SPARSHA	II/II
139	18J41A05D9	GANGULA MANASA	II/II
140	18J41A05E0	GOPALDAS SUSMITHA	II/II
141	18J41A05E1	GOPARAJU DHRUVA TEJA RAO	II/II
142	18J41A05E2	GUDIMELLA AMRESH	II/II
143	18J41A05E3	GULLA HEMANTH	II/II
144	18J41A05E4	J HEMANTH	II/II
144	18J41A05E5	JIDIGE SANJANA KRISHNA	II/II



Raveend
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145	18J41A05E6	JOGIPETACHYUTH	II/II
146	18J41A05E7	K SHRISTI	II/II
147	18J41A05E8	KADURLA SRINIVAS	II/II
148	18J41A05E9	KATINEEDI BINDHU	II/II
149	18J41A05F0	KATRAVATH PRAKASH	II/II
150	18J41A05F1	KUSNAM SAI NARSIMHA REDDY	II/II
151	18J41A05F2	MANGILIPALLY HARI PRASAD	II/II
152	18J41A05F3	MANNE SRINIDHI	II/II
153	18J41A05F4	MANNEPALLI SAMUEL JOHNSON	II/II
154	18J41A05F5	METLA VENKATA SAI CHANDRA SHEKAR	II/II
155	18J41A05F6	MIRYALA SWATHI	II/II
156	18J41A05F7	MOHAMMED FATHEBABA	II/II
157	18J41A05F8	MOHAMMED ISMAIL	II/II
158	18J41A05F9	MUKKU SHIRLEY	II/II
159	18J41A05G0	MUNJALA SAI VARDHAN	II/II
160	18J41A05G1	MUSHAM VAMSHI KRISHNA	II/II
161	18J41A05G2	MUTHOJU VASANTH	II/II
162	18J41A05G3	N YESWANTH REDDY	II/II
163	18J41A05G4	PAILA JEESHITHA	II/II
164	18J41A05G5	PALLAMREDDY PRAHARSHA REDDY	II/II
165	18J41A05G6	POTLAPALLY SAI CHARAN	II/II
166	18J41A05G7	POTRU RAMKI	II/II
167	18J41A05G8	REVOORI PRANEETH REDDY	II/II
168	18J41A05G9	S PRAMATH PARASHAR	II/II
169	18J41A05H0	SHAIK HUSNA SHAHEEN	II/II
170	18J41A05H1	SHAIK NOUSHEEN SULTANA	II/II
171	18J41A05H2	SHIVAM SINGH	II/II
172	18J41A05H3	SK KAREEM BABA	II/II
173	18J41A05H4	SOMANNGARI RITHIKA	II/II
174	18J41A05H5	TAUQIR PASHA	II/II
175	18J41A05H6	THATI VAMSHI KRISHNA	II/II
176	18J41A05H7	THIPPALLI LAKSHMAN	II/II
177	18J41A05H8	UPPUNUTHULA SAI SUSMITHA	II/II
178	18J41A05H9	VAKULABHARANAM PREM SAI	II/II
179	18J41A05J0	VISHNU VARDHAN REDDY MOTHE	II/II
180	18J41A05J1	AENUGU SUPRITH REDDY	II/II
181	18J41A05J2	ANUJ KUMAR GAURAV	II/II
182	18J41A05J3	AREPALLI MURALI	II/II
183	18J41A05J4	ARTHAM HARISH	II/II



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184	18J41A05J5	BATHULA BHANU PRASAD	II/II
185	18J41A05J6	BATHULA SUMANTH	II/II
186	18J41A05J7	BETHU MEGHANA	II/II
187	18J41A05J8	C VARSHITHA REDDY	II/II
189	18J41A05J9	CHAVA VIJAY MANOHAR	II/II
190	18J41A05K0	CHIGULLAPALLI SATHWIKA	II/II
191	18J41A05K1	DEVARAKONDA SHIVA SAI CHARY	II/II
192	18J41A05K2	ENDLA ADITHYASAI	II/II
193	18J41A05K3	GADDAM YUVARAJ	II/II
194	18J41A05K4	GOLKONDA VENKATESHWAR REDDY	II/II
195	18J41A05K5	GONE KAVERI	II/II
196	18J41A05K6	GOPU MANIDEEP	II/II
197	18J41A05K7	GUDLA SAMEEKSHA	II/II
198	18J41A05K8	GUNDETI ROHITH REDDY	II/II
199	18J41A05K9	JAISWAL DILEEP KUMAR	II/II
200	18J41A05L0	JIDUGU RAJYA LAXMI	II/II
201	18J41A05L1	JITENDRA REDDY N KODURU	II/II
202	18J41A05L2	KANDALA L N ADITHYA HEMANTH	II/II
203	18J41A05L3	KANIKANTI SRI PAVAN	II/II
204	18J41A05L4	KASULA SAI PRAKASH	II/II
205	18J41A05L5	KATUKOJWALA BHAVANA	II/II
206	18J41A05L6	KOLLAREDDY TEJASWARI	II/II
207	18J41A05L7	KONDETI PRANAVI	II/II
203	18J41A05L8	KURRA GIRISHKRISHNA	II/II
209	18J41A05L9	M ANIKETH REDDY	II/II
210	18J41A05M0	MAHENDARKAR VIDYA	II/II
211	18J41A05M1	MARKA SAI CHAITANYA	II/II
212	18J41A05M2	MUPPIDI SHANMUK RAHUL REDDY	II/II
213	18J41A05M3	MURALA AAKESH KUMAR	II/II
214	18J41A05M4	NAMA SAI MADHU GOVARDHAN	II/II
215	18J41A05M5	NUNE SRUTHI	II/II
213	18J41A05M6	PAKALA RUTHWIK	II/II
217	18J41A05M7	PANDRINKI ADHI NARAYANA	II/II
218	18J41A05M8	PANTHANGI VENKATA SAI	II/II
219	18J41A05M9	PASUPULETI RAHUL	II/II
220	18J41A05N0	PAYAL SAMANTA	II/II
221	18J41A05N4	PUPPALA RAJA RAJESHWARI	II/II
222	18J41A05P3	THOTA AKSHITHA	II/II
223	18J41A05P9	YARRAMNENI CHANDANA	II/II




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224	19J45A0501	AGURLA RAJ KUMAR	II/II
225	19J45A0502	AKULA SAHANA	II/II
226	19J45A0503	ALBAYWAR SHIVA KUMAR	II/II
227	19J45A0505	BURRI DIVYA	II/II
228	19J45A0506	CHITLA DHANUSH	II/II
229	19J45A0507	DAKURI RAMAKANTH	II/II
230	19J45A0508	EPPAKAYALA MANISAI	II/II
231	19J45A0509	GADDAM MANASA	II/II
232	19J45A0510	GURRAM SRIVIDYA	II/II
233	19J45A0511	INDRALA SAI THUSHAR	II/II
234	19J45A0514	MADUPU NIKHILA	II/II
235	19J45A0515	MARAPAKA YUVARAJ	II/II
236	19J45A0516	NETHI AKHILA SAI	II/II
237	19J45A0517	OGGU ARAVIND SAI	II/II
238	19J45A0520	POLASA RAKESH	II/II
239	19J45A0521	RAYABARAPU VAISHNAVI	II/II
240	19J45A0522	SUDDALA OMKAR	II/II
241	19J45A0523	THALAKOKKULA NAVANEETHA	II/II
242	19J45A0524	VELAGALA RAMCHARAN	II/II



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VAC-Data Structures and Analysis of Algorithms - Summary

07.02.2019

Course duration: 2nd February 2019 to 7th February 2019.

Overview of the Course

A data structure is a named location that can be used to store and organize data. And, an algorithm is a collection of steps to solve a particular problem. Learning data structures and algorithms allow us to write efficient and optimized computer programs.

Objectives of the Course

The main objective of this programme is to provide an introduction to basic and advanced data structures, and algorithms for manipulating them, by using a programming language. The participants will learn how the choice of data structures and algorithm design methods impact the performance of programs. How to choose the appropriate data structure and algorithm design method for a specified application?

The speaker also covered the following topics:

Elements of Algorithm Analysis, Lists, Stacks and Queues, Different types of Tree Data Structures, Hashing Techniques, Sorting and Searching Problems, Graph Algorithms, Algorithm Design Techniques and NP-completeness.

Outcome of the program

At the end of this course, participants are able to identify data structures suitable to solve problems, develop and analyse algorithms for linear and non-linear data structures, implement symbol table using hashing techniques, identify algorithm design methodology to solve problems, distinguish between P and NP classes of problems, and analyse amortized time complexity.

After successful completion of the course the certificates are issued to the participants



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VAC DATA STRUCTURE



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE OF COMPLETION

This is to certify that **Mr./Ms. D AKSHAYA** bearing Roll No. **18J41A0514** has successfully completed Certificate / Value Added Course / Workshop in **Data Structures and Analysis of Algorithms** conducted by the Department of **Computer Science and Engineering** from **02nd March 2020 to 06th March 2020**.


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This is to certify that **Mr./Ms. ARE CHAKRI** bearing **Roll No. 18J41A0502** has successfully completed Certificate / Value Added Course / Workshop in **Data Structures and Analysis of Algorithms** conducted by the Department of **Computer Science and Engineering** from **02nd March 2020 to 06th March 2020** .


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CERTIFICATE OF COMPLETION

This is to certify that **Mr./Ms. B JYOTHI** bearing **Roll No. 18J41A0505** has successfully completed Certificate / Value Added Course / Workshop in **Data Structures and Analysis of Algorithms** conducted by the Department of **Computer Science and Engineering** from **02nd March 2020 to 06th March 2020** .


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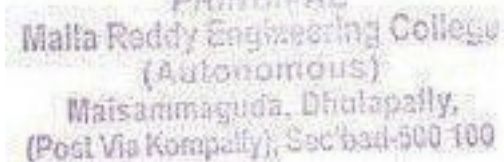
CERTIFICATE OF COMPLETION

This is to certify that **Mr./Ms. G JOHN** bearing Roll No. **18J41A0518** has successfully completed Certificate / Value Added Course / Workshop in **Data Structures and Analysis of Algorithms** conducted by the Department of **Computer Science and Engineering** from **02nd March 2020 to 06th March 2020**.


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This is to certify that Mr./Ms. K JAYA bearing Roll No. 18J41A0527 has successfully completed Certificate / Value Added Course / Workshop in Data Structures and Analysis of Algorithms conducted by the Department of Computer Science and Engineering from 02nd March 2020 to 06th March 2020.


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