



# GLOBAL INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE & Affiliated to JNTUH)

Survey No. 179, Chilkur (V), Moinabad (M), Ranga Reddy Dist. T.S.

Phone: 08417-252233 / 253021; E-Mail: [giet.cse.head@gmail.com](mailto:giet.cse.head@gmail.com)

JNTUH Code (U6)

CIVIL-CSE-ECE-EEE-ME-MBA-M.Tech

EAMCET code (GLOB)

## Department of Computer Science and Engineering

**M.Jhansi Lakshmi**

M.Tech.,(Ph.D)

Associate Professor & Head

Date: 04/03/2016

### CIRCULAR

The Department of Computer Science and Engineering is hosting for *A Three Day Workshop on Data Structure through C++* for the students of II year & IV year B.Tech. Computer Science and Engineering in Room No. 65 from 08<sup>th</sup> March 2016 to 10<sup>th</sup> March 2016. All the students of II year & IV year B. Tech Computer Science and Engineering are hereby informed to register for the course on or before 8<sup>th</sup> March 2016. The Coordinator for the course is Mr. Khaja Rafeeq, Assistant Professor, Department of CSE.

*the*  
04/03/2016  
HEAD

HEAD

Department of Computer Science & Engg.  
Global Institute of Engineering & Technology  
Chilkur (V), Moinabad (M), R.R. Dist.T.S.-501504.

Cc to:

Principal

Mentors

Training & Placement Cell

Notice board

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EAMCET Code– GLOB

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## A Three Day Workshop

on

### Data Structure Through C++

8<sup>th</sup> March-10<sup>th</sup> March 2016

### PROGRAMME SCHEDULE

	TIME	SESSION	SPEAKER
Day 1	9:30 AM - 10:00 AM	Inauguration	
	10:00 AM - 11:00 AM	Basic of Data Structure	Mr.MD.Riyazuddin Associate Professor of MJCET Hyd.
	11:00 AM - 11:30 AM	HIGH TEA	
	11:30 AM - 01:00 PM	functions in C++- value parameters, reference parameters	Mr.MD.Riyazuddin Associate Professor of MJCET Hyd.
	01:00 PM - 02:00 PM	LUNCH BREAK	
	02:00 PM - 03:30 PM	Arrays, pointers, new and delete operators, class and object, access specifiers.	Mr.MD.Riyazuddin Associate Professor of MJCET Hyd.
Day 2	09:30 AM - 11:00 AM	Parameter passing, function overloading, function templates, Basic Concepts - Data objects and Structures, Algorithm Specification- Introduction, Recursive algorithms	Mrs.M.Jhansi Lakshmi Associate Professor GIET
	11:00 AM - 11:15 AM	TEA BREAK	
	11:15 AM - 01:00 PM	Friend functions, constructors and destructor, Operator overloading, class templates, Inheritance and Polymorphism.	Mrs.M.Jhansi Lakshmi Associate Professor GIET
	01:00 PM - 02:00 PM	LUNCH BREAK	
	02:00 PM - 03:30 PM	Exceptions-throwing an exception and handling an exception	Mrs.M.Jhansi Lakshmi Associate Professor GIET
Day 3	09:30 AM - 11:00 AM	Inheritance –hierarchies, super and sub classes, Member access rules	Mr.MD.Riyazuddin Associate Professor of MJCET Hyd.
	11:00 AM - 11:15 AM	TEA BREAK	
	11:15 AM - 01:00 PM	Data Abstraction, Performance analysis- time complexity and space complexity, Asymptotic Notation-Big O, Omega and Theta notations, Complexity Analysis Examples.	Mr.MD.Riyazuddin Associate Professor of MJCET Hyd.
	01:00 PM - 02:00 PM	LUNCH BREAK	
	02:00 PM - 03:30 PM	Valedictory Functions, Feedback and Certificate Distribution	

*Dr. Khaja Rafeeq*  
Coordinator

Mr. Khaja Rafeeq  
Assistant Professor  
Department of CSE



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**A Three Day Workshop**

**On**

**Data Structure through C++**

**(08<sup>th</sup> – 10<sup>th</sup> March, 2016)**

**LIST OF PARTICIPANTS**

S.NO	ROLL NUMBER	NAME OF THE STUDENT	YEAR
1	14U61A0501	AFSHAH SABA	II
2	14U61A0502	AFSHEEN FATIMA	II
3	14U61A0503	ASMA TAHASEEN	II
4	14U61A0504	AYESHA FATIMA	II
5	14U61A0505	AZRA SHIREEN	II
6	14U61A0506	HASNANI SANIL FIROZ BHAI	II
7	14U61A0507	ILORA SARKAR	II
8	14U61A0508	JAVERIYA IMROSE	II
9	14U61A0509	KAHKASHAN NISHAT	II
10	14U61A0510	KANDULA SAI KRISHNA	II
11	14U61A0511	MAHEEN FALHA	II
12	14U61A0512	MOHAMMED HAMAD EHTHESHAM	II
13	14U61A0513	MOHD ASGHAR SIDDIQUI FOUAD	II
14	14U61A0514	MOHD ASLAM	II
15	14U61A0515	MOHD MUSTAFA	II
16	14U61A0516	MOHD SAIF UDDIN	II
17	14U61A0517	RAHABA KOUSAR	II
18	14U61A0518	RUMANA ARSHI	II
19	14U61A0519	SABIYA BEGUM	II
20	14U61A0520	SANA BEGUM	II
21	14U61A0521	SHAHEDA BEGUM	II
22	14U61A0522	SHAIK ABDUL KHADER	II
23	14U61A0523	SHAZIA FATIMA	II
24	14U61A0524	SUMAIYA JABEEN	II
25	14U61A0525	SUMAYYA SAMREEN	II
26	14U61A0527	SYED ZIA UR RAHMAN	II
27	14U61A0528	TAHSEEN UNNISA	II
28	14U61A0529	TAPAS KUMAR ADHIKARI	II
29	14U61A0530	TASNEEM FATIMA	II
30	14U61A0531	UZMA JABEEN FATHIMA	II
31	14U61A0532	YOGESH MODI	II
32	10U61A0511	D SAI HARISH	IV

*Ref*  
Coordinator

*Hei*  
08/03/2016  
HEAD

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Global Institute of Engineering & Technology  
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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

A Three Day Workshop

On

Data Structure Through C++

(8<sup>th</sup> –10<sup>th</sup> March, 2016)

### REGISTRATION FORM

(Please Fill in CAPITAL LETTERS)

Name : Afshah Saba  
Roll No : 14UG1A0501  
Course/Year : II Btech  
Department : CSE  
E-mail : Afshahsaba48@gmail.com  
Phone No : 9701107252

Afshah  
Signature of Participant

For Office use only

Approved/ Not Approved

Ramji  
8/3/16  
Signature of Coordinator



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(08<sup>th</sup> – 10<sup>th</sup> March, 2016)

### ATTENDANCE SHEET

S.No.	Name of the Participant	Programme	Year	Signature					
				Day-1 (08/03/2016)		Day-2 (09/03/2016)		Day-3 (10/03/2016)	
				FN	AN	FN	AN	FN	AN
1	Afshah Sato	B.tech	II	Sato	Sato	Sato	Sato	Sato	Sato
2	Afshen fafima.	B.tech	II	Afshen	Afshen	Afshen	Afshen	Afshen	Afshen
3	Asma Taharun	B.tech	II	Taharun	Taharun	Taharun	Taharun	Taharun	Taharun
4.	Ayesha Fatima	B.tech	II	Ayesha	Ayesha	Ayesha	Ayesha	Ayesha	Ayesha

*Rent*  
10/3/16  
Coordinator

*Jhe*  
10/3/2016  
Head of the Department  
**HEAD**

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Global Institute of Engineering & Technology  
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*P. J. S*  
10/3/16  
Principal  
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				FN	AN	FN	AN	FN	AN
5	ARRA SHIREEN	B.tech	II	Ar	Ar	Ar	Ar	Ar	Ar
6	Hasnain Firoz Bhai	B.tech	II	hash	hash	hash	hash	hash	hash
7	ILORA SARKAR	B.Tech	II	Il	Il	Il	Il	Il	Il
8	JAVERIYA IMROSE	B.Tech II	II	Jimrose	Jimrose	Jimrose	Jimrose	Jimrose	Jimrose

*Reed*  
10/3/16  
Coordinator

*H*  
10/3/2016  
Head of the Department  
HEAD

Department of Computer Science & Engg.  
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				FN	AN	FN	AN	FN	AN
9	Katasham Nisham	B.Tech	II	<i>Katasham</i>	<i>Katasham</i>	<i>Katasham</i>	<i>Katasham</i>	<i>Katasham</i>	<i>Katasham</i>
10	K. Sai Krishna	B.Tech	II	<i>Sai Krishna</i>	<i>Sai Krishna</i>	<i>Sai Krishna</i>	<i>Sai Krishna</i>	<i>Sai Krishna</i>	<i>Sai Krishna</i>
11	MAHEEN FALHA	B.tech	II	<i>Mahen</i>	<i>Mahen</i>	<i>Mahen</i>	<i>Mahen</i>	<i>Mahen</i>	<i>Mahen</i>
12	Mohammed Hamad Eshesham	BTECH	II	<i>Hamad</i>	<i>Hamad</i>	<i>Hamad</i>	<i>Hamad</i>	<i>Hamad</i>	<i>Hamad</i>

*Ram*  
10/3/16  
Coordinator

*Jelli*  
10/3/2016  
Head of the Department  
HEAD

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				FN	AN	FN	AN	FN	AN
13.	Mohd. Asghar Siddique	B.tech	II	Asgh	Asgh	Asgh	Asgh	Asgh	Asgh
14	MOHD ASLAM	B-TECH	II	Asf	Asf	Asf	Asf	Asf	Asf
15	Mohd. Mufsa	B.tech	II	Mufsa	Mufsa	Mufsa	Mufsa	Mufsa	Mufsa
16	Md - Saif Uddin	B.Tech	II	Saif	Saif	Saif	Saif	Saif	Saif

*Ranjit*  
10/3/16  
Coordinator

*J. S. Reddy*  
10/03/2016  
Head of the Department  
**HEAD**

Department of Computer Science & Engg.  
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*P. Y. S. Reddy*  
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				FN	AN	FN	AN	FN	AN
17	Rahabo kousar	B-Tech	II	Rahabo	Rahabo	Rahabo	Rahabo	Rahabo	Rahabo
18	Rmana Arshi	B.Tech	II	Rman	Rman	Rman	Rman	Rman	Rman
19	Sabiza begum	B.Tech	II	Begum	Begum	Begum	Begum	Begum	Begum
20	Sana Begum	B-tech	II	Sans	Sans	Sans	Sans	Sans	Sans

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10/3/16  
Coordinator

*Yel*  
10/3/2016  
Head of the Department  
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				FN	AN	FN	AN	FN	AN
21	Shaheda Begum	Btech	II	Shaheda	Shaheda	Shaheda	Shaheda	Shaheda	Shaheda
22	SHAIK ABDUL KHADER	B.TECH	II	Q	Q	Q	Q	Q	Q
23	shazia fatima	B.Tech	II	Fatima	Fatima	Fatima	Fatima	Fatima	Fatima
24	Sumaiya Jabeen	Btech	II	Sjabeen	Sjabeen	Sjabeen	Sjabeen	Sjabeen	Sjabeen

*Pen*  
10/3/16  
Coordinator

*He*  
10/3/2016  
Head of the Department  
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				Day-1 (08/03/2016)		Day-2 (09/03/2016)		Day-3 (10/03/2016)	
				FN	AN	FN	AN	FN	AN
25	Sumayya Samreen	B.tech	I						
26	SYED zia ur Rahman	B. Tech	II						
27	Tahseen unisa	B.Tech	II						
28	TARAS KUMAR ADHIKARI	B.Tech	II						

10/3/16  
Coordinator

10/3/2016  
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				FN	AN	FN	AN	FN	AN
29	Tahseen fatima	B.tech	II	<u>fatima</u>	<u>fatima</u>	<u>fatima</u>	<u>fatima</u>	<u>fatima</u>	<u>fatima</u>
30	uzma Jabeen Fatima	IT Btech	II	<u>uzma</u>	<u>uzma</u>	<u>uzma</u>	<u>uzma</u>	<u>uzma</u>	<u>uzma</u>
31	y. modi	Btech	II	<u>modi</u>	<u>modi</u>	<u>modi</u>	<u>modi</u>	<u>modi</u>	<u>modi</u>
32	Sai Harish	B.tech	II	<u>Harish</u>	<u>Harish</u>	<u>Harish</u>	<u>Harish</u>	<u>Harish</u>	<u>Harish</u>

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10/3/16  
Coordinator

J.P.  
10/03/2016  
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### (8<sup>th</sup>-10<sup>th</sup> March,2016)

### FEEDBACK FORM

Please valuate your rating of the course by placing a tick in the appropriate box.

1. Poor 2. Satisfactory 3. Good 4. Very good 5. Excellent

Branch and Year: *CSE (II year)*

Date: *10/03/16*

ASPECTS	RATING				
	Excellent 5	Very good 4	Good 3	Satisfactory 2	Poor 1
Relevance of contents	✓				
Trainer was knowledgeable and skillful		✓			
Quality of input provided		✓			
Quality of presentations			✓		
Adherence to the time schedule			✓		
Opportunity given to participant to clear doubts		✓			
Identify ways to build on current skills and knowledge	✓				
Overall learning experience		✓			

How has the course enhanced your skills or understanding of this topic?

*Good*

Specify problems faced by you during the course?

*—*

**A REPORT  
ON  
THREE DAY WORKSHOP  
Data Structure Through C++**

The CSE Department has arranged a Three-day Workshop on “Data Structure Through C++” for II and IV B.Tech from March 08<sup>th</sup> - 10<sup>th</sup>, 2016 in the campus. The workshop was scheduled between 09:30 to 03:40 Hrs. The course was designed to provide complete knowledge of Data Structure Through C++. Students will be able to develop logics which will help them to create programs, applications in Data Structure. Also by learning the basic programming constructs they can easily switch over to any other language in future. It is therefore important for students to have a deep understanding of concept, to determine the objective, to decide on a key project and to enhance knowledge. The workshop was conducted by Department of CSE.

**Day 1:**

The first day of the workshop initiated with the motivating speech of Dr. P.Vijay Karthik, Principal of Global Institute of Engineering and Technology, followed by the discussion of its importance for the students by Mrs. M.Jhansi Lakshmi (HOD) of our department. The coordinator of this occasion, Mr.Khaja Rafeeq, Assistant Professor, and Department of CSE welcomed the gathering. Followed by this our Resource Person, Mr.Md Riyazuddin, Associate Professor, MJCET delivered his inaugural and introductory speech.

The Technical session started immediately after inauguration, at 10.00 AM and Mr.Md Riyazuddin has introduced the basics of data structure. He has mostly emphasized on the importance of Data Structures Through C++. After the tea break he then delivered his talk on the Functions, Reference parameters from 11:30 AM to 1:00 PM.. After the lunch break she talked on the Arrays, pointers, class and object, Access specifiers. After that all the students assembled in the lab for the practical session on above discussed topics. Every student implemented the basic programs on data structure on their own, from 2:00 PM to 3:30 PM.

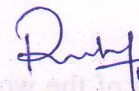
**Day 2:**

The second day session was chaired by Mrs. M.Jhansi Lakshmi, Associate Professor and Head, Department of CSE who delivered a lecture on Data Structure through C++ concepts from 9:30 AM to 11:00AM. She talked about the Parameter passing, function overloading, function templates, **Basic Concepts** - Data objects and Structures, Algorithm Specification-

Introduction, Recursive algorithms. It was followed by another lecture on Inheritance and Polymorphism from 11:15 AM to 1:00 PM. She talked about friend functions, constructor and destructor. Friend functions, constructors and destructors, Operator overloading, class templates, Inheritance and Polymorphism. The last session initiated at 2:00 PM on Data objects and Structures, Recursive Algorithms. Exceptions-throwing an exception and handling an exception. The session concluded at 3:30 PM.

**Day 3:**

On third day, first session was initiated at 9:30 AM by a lecture on Inheritance hierarchies, super and sub classes, Member access rules, by our Resource Person Mr. Md Riyazuddin, Associate Professor, MJCET. From 11:15 AM to 1:00 PM He spoke about the Data Abstraction, Performance analysis- time complexity and space complexity, Asymptotic Notation- Big O, Omega and Theta notations, Complexity Analysis. All the students participated in the session actively and showed enthusiasm. The workshop was concluded by Valedictory followed by feedback and certificate distribution to the participants.



10/3/2016

Coordinator

Mr. Khaja Rafeeq

Assistant Professor

Department of CSE



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(Approved by AICTE & Affiliated to JNTUH)

Survey No. 179, Chilkur (V), Moinabad (M), Ranga Reddy Dist. TS.

Phone: 08417-252233 / 253021

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

*A Three Day Workshop*

*On*

*Data Structure Through C++*

(08<sup>th</sup>– 10<sup>th</sup> March 2016)

### CERTIFICATE OF PARTICIPATION

This is to certify that Ms./Mr. SHAHEDA BEGUM bearing Roll number

14UG1A0521

has attended a Three Day Workshop on “Data Structure Through C++” held

from 08<sup>th</sup> March 2016 to 10<sup>th</sup> March 2016 at Global Institute of Engineering and Technology.

Coordinator

Mr. Khaja Rafeeq

Head of the Department

Mrs. Jhansi Lakshmi

Principal

Dr. P. Vijay Karthik





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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### *A Three Day Workshop*

On

### *Data Structure Through C++*

(08<sup>th</sup>– 10<sup>th</sup> March 2016)

## CERTIFICATE OF PARTICIPATION

This is to certify that Ms./Mr. MAHEEN FALHA bearing Roll number

14UG1A0511 has attended a Three Day Workshop on “Data Structure Through C++” held

from 08<sup>th</sup> March 2016 to 10<sup>th</sup> March 2016 at Global Institute of Engineering and Technology.

Coordinator

Mr. Khaja Rafeeq

Head of the Department

Mrs. Jhansi Lakshmi

Principal

Dr. P. Vijay Karthik



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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### *A Three Day Workshop*

On

### *Data Structure Through C++*

(08<sup>th</sup>– 10<sup>th</sup> March 2016)

## CERTIFICATE OF PARTICIPATION

This is to certify that Ms./Mr. MOHD ASLAM bearing Roll number

14U61A0514

has attended a Three Day Workshop on “Data Structure Through C++” held

from 08<sup>th</sup> March 2016 to 10<sup>th</sup> March 2016 at Global Institute of Engineering and Technology.

Coordinator

Mr. Khaja Rafeeq

Head of the Department

Mrs. Jhansi Lakshmi

Principal

Dr. P. Vijay Karthik