

Date: 18 - 03 -2023

To

The Principal

Dr.BRR.Govt.Degree College,

Jadcherla

Respected Madam,

Sub:Request–Permission to Conduct - CertificateCourse
–req- reg.

With reference to the subject cited above I Dr. K Manjula, Head
dept. of commerce request your kind permission to conduct

Add-On Course in Datastructures using C++ from 21-03-2023.

Thanking you,


Yours faithfully,
HOD
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Dr.BRR GDC,Jadcherla


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Jadcherla

NOTICE

Date : 20-3-2023

All the students are here by informed , that the Department of Commerce & Computer Applications is going to conduct Add-On Course in " Datastructures using C++" from 21-3-2023 Interested students are requested to register their names in the department.


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Syllabus

Unit I – Stacks and Queues

Storage structures for arrays – Sparse matrices – Stacks and Queues: Representations and applications. Recursion, Tower of Hanoi, Double Ended Queue, Priority Queue, Infix to Postfix, postfix to infix, expression evaluation.

Unit II – Linked Lists

Linked Lists – Linked stacks and queues – Operations on polynomials – Doubly linked lists – Circularly linked lists – Dynamic storage management – Garbage collection and compaction.

Unit III – Trees

Binary Trees – Binary search trees – Tree traversal – Expression manipulation – Symbol table construction – Height balanced trees – Minimum spanning trees, B-Trees, B+ Trees, Applications.

Unit IV – Graphs

Graphs – Representation of graphs – BFS, DFS – Topological sort – Shortest path problems. String representation and manipulations – Pattern matching, Applications.

Unit V – Sorting and Searching

Sorting Techniques – Selection, Bubble, Insertion, Merge, Heap, Quick, Radix sort and Address calculation. Linear search – Binary search – Hash table methods.


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ATTENDANCE

ROLL NUMBER	NAME OF THE STUDENT	Periods				
		21-3-2023	24-3-2023	25-3-2023	27-3-23	28-3-23
		Introduction to Data Structures & Arrays	Recursion & Algorithms	Infix to Postfix	Linked Lists	Circularly Linked Lists
		Stack & Queues & Applications	Programs Practice	Postfix to infix.	Doubly Linked Lists.	Example programs
220330064052006	GODUGU SHIREESHA	Shireesha	Shireesha	Shireesha	Shireesha	Shireesha
220330064052010	GUDLA SRIKANTH	Srikanth	Srikanth	Srikanth	AB	Srikanth
220330064052016	MATKIKAR NARSING	Narsing	Narsing	Narsing	Narsing	Narsing
220330064052012	KOSGI KAVITHA	Kavitha	Kavitha	Kavitha	Kavitha	Kavitha
220330064052022	NARVA KARTHIK REDDY	Karthik Reddy	Karthik Reddy	Karthik Reddy	Karthik Reddy	Karthik Reddy
220330064052019	MODHELLA GANESH	Ganesh	AB	Ganesh	Ganesh	Ganesh
220330064052025	PADAKANTI SHIVA KUMAR	Shiva	Shiva	Shiva	Shiva	Shiva
220330064052029	R MAHENDRA SINGH NAIK	AB	Mahesh	Mahesh	Mahesh	AB
220330064052031	VADTHYAVANTH ANITHA	Anitha	Anitha	Anitha	Anitha	Anitha
220330064052002	CHEEMALA ANITHA	Anitha	Anitha	Anitha	Anitha	Anitha
220330064052007	GODUGU VARALAXMI	Varalaxmi	Varalaxmi	Varalaxmi	Varalaxmi	Varalaxmi
220330064052014	MANDA ANJALI	AB	AB	AB	AB	AB
220330064052027	PRASAD	Prasad	AB	Prasad	Prasad	Prasad
220330064052011	JATRAVATH SAVITRI	Savitri	Savitri	Savitri	Savitri	Savitri
220330064052003	DARSHANAPU ANJALI	Anjali	Anjali	Anjali	Anjali	AB
220330064052005	GIRAMONI SHIVA KUMAR	Shiva	Shiva	Shiva	Shiva	Shiva
220330064052017	MEGHAVATH SUNIL	AB	Sunil	Sunil	Sunil	Sunil
220330064052009	G RAKESH	Rakesh	Rakesh	Rakesh	Rakesh	Rakesh
220330064052013	K SRISAILAM	Srisailam	Srisailam	Srisailam	AB	Srisailam
220330064052020	MOHAMMAD JAFFAR	Jaffar	Jaffar	Jaffar	Jaffar	Jaffar
220330064052026	P LAXMI DEVI	Devi	Devi	Devi	Devi	Devi
220330064052032	VARLA LASYA PRIYA	Priya	Priya	Priya	AB	Priya
220330064052028	PYATA JYOTHI	Jyothi	Jyothi	Jyothi	Jyothi	Jyothi
220330064052018	M ESHWARI	Eswari	Eswari	Eswari	Eswari	Eswari
220330064052004	GUNGAVATH SANTHOSH	AB	Santhosh	AB	Santhosh	Santhosh
220330064052001	AVULA NAVANEETHA	Navaneetha	Navaneetha	Navaneetha	Navaneetha	Navaneetha
220330064052008	GODULLA SHIVA KUMAR	Shivakumar	shivakumar	shivakumar	shivakumar	shivakumar
220330064052015	MARCHA CHANDRA SHEKAR	Chandrab	Chandrab	Chandrab	AB	Chandrab
220330064052030	SINDAM RAMESH	Ramesh	Ramesh	Ramesh	Ramesh	Ramesh
220330064052023	NAVY LAXMI	Laxmi	Laxmi	Laxmi	Laxmi	Laxmi

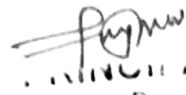
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ROLL NUMBER	NAME OF THE STUDENT	29-3-2023	31-3-2023	1-4-2023	3-4-2023	6-4-2023
		Data Structures -management Garbage Collection	Binary Trees Searching Algorithms	Tree Traversal methods Expression Manipulation	Balancing the Trees Spanning Trees	Representations of Graphs BFS & DFS.
220330064052006	GODUGU SHIREESHA	AB	Shirisha	shirisha	shirisha	shirisha
220330064052010	GUDLA SRIKANTH	Srikanth	Srikanth	Srikanth	Srikanth	Srikanth
220330064052016	MATKIKAR NARSING	N	N	N	AB	N
220330064052012	KOSGI KAVITHA	Kavitha	Kavitha	Kavitha	Kavitha	Kavitha
220330064052022	NARVA KARTHIK REDDY	Karthik	Karthik	Karthik	Karthik	Karthik
220330064052019	MODHELLA GANESH	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh
220330064052025	PADAKANTI SHIVA KUMAR	shiv	AB	shiv	shiv	shiv
220330064052029	R MAHENDRA SINGH NAIK	Mahesh	Mahesh	Mahesh	AB	Mahesh
220330064052031	VADTHYAVANTH ANITHA	Anitha	Anitha	Anitha	Anitha	Anitha
220330064052002	CHEEMALA ANITHA	Anitha	Anitha	Anitha	Anitha	Anitha
220330064052007	GODUGU VARALAXMI	Varalaxmi	Varalaxmi	Varalaxmi	Varalaxmi	Varalaxmi
220330064052014	MANDA ANJALI	AB	ANJ	ANJ	ANJ	ANJ
220330064052027	PRASAD	Prasad	Prasad	Prasad	Prasad	Prasad
220330064052011	JATRAVATH SAVITRI	Savitri	Savitri	Savitri	Savitri	Savitri
220330064052003	DARSHANAPU ANJALI	Anjali	Anjali	Anjali	Anjali	Anjali
220330064052005	GIRAMONI SHIVA KUMAR	Shiva	Shiva	Shiva	Shiva	Shiva
220330064052017	MEGHAVATH SUNIL	Sunil	Sunil	Sunil	AB	Sunil
220330064052009	G RAKESH	Rakesh	Rakesh	Rakesh	Rakesh	Rakesh
220330064052013	K SRISAILAM	Srisailam	Srisailam	Srisailam	Srisailam	Srisailam
220330064052020	MOHAMMAD JAFFAR	Jaffar	Jaffar	Jaffar	Jaffar	Jaffar
220330064052026	P LAXMI DEVI	Devi	Devi	Devi	Devi	Devi
220330064052032	VARLA LASYA PRIYA	Priya	AB	Priya	Priya	Priya
220330064052028	PYATA JYOTHI	Jyothi	Jyothi	Jyothi	Jyothi	Jyothi
220330064052018	M ESHWARI	Eshwari	Eshwari	Eshwari	Eshwari	Eshwari
220330064052004	GUNGAVATH SANTHOSH	Santhosh	Santhosh	Santhosh	Santhosh	AB
220330064052001	AVULA NAVANEETHA	Navaneetha	Navaneetha	Navaneetha	Navaneetha	Navaneetha
220330064052008	GODULLA SHIVA KUMAR	AB	shivakumar	shivakumar	shivakumar	shivakumar
220330064052015	MARCHA CHANDRA SHEKAR	Chandru	Chandru	AB	Chandru	Chandru
220330064052030	SINDAM RAMESH	SR	SR	SR	SR	SR
220330064052023	NAVY LAXMI	Laxmi	Laxmi	Laxmi	Laxmi	Laxmi


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ROLL NUMBER	NAME OF THE STUDENT	10-4-2023	12-4-2023	13-4-2023	15-4-2023	17-4-2023
		Shortest Path Problems	String Repetition	Sorting Techniques	Example programs	Hash table methods
		Programs practice.	Pattern matching	Sorting Techniques	Linear, binary Search.	Example program practice
220330064052006	GODUGU SHIREESHA	AB	shirisha	shirisha	shirisha	AB
220330064052010	GUDLA SRIKANTH	Srikanth	Srikanth	Srikanth	Srikanth	Srikanth
220330064052016	MATKIKAR NARSING					
220330064052012	KOSGI KAVITHA	Kavitha	Kavitha	Kavitha	Kavitha	Kavitha
220330064052022	NARVA KARTHIK REDDY	Reddy	Reddy	Reddy	Reddy	Reddy
220330064052019	MODHELLA GANESH	Gan	Gan	Gan	Gan	Gan
220330064052025	PADAKANTI SHIVA KUMAR	shiv	shiv	shiv	shiv	shiv
220330064052029	R MAHENDRA SINGH NAIK	Mahesh	AB	Mahesh	Mahesh	AB
220330064052031	VADTHYAVANTH ANITHA	Anitha	Anitha	Anitha	Anitha	Anitha
220330064052002	CHEEMALA ANITHA	Anitha	Anitha	Anitha	Anitha	Anitha
220330064052007	GODUGU VARALAXMI	Varalaxmi	Varalaxmi	Varalaxmi	Varalaxmi	Varalaxmi
220330064052014	MANDA ANJALI	AB	Anjali	AB	Anjali	Anjali
220330064052027	PRASAD	Prasad	Prasad	Prasad	Prasad	Prasad
220330064052011	JATRAVATH SAVITRI	Savitri	Savitri	Savitri	Savitri	Savitri
220330064052003	DARSHANAPU ANJALI	Anjali	Anjali	Anjali	Anjali	Anjali
220330064052005	GIRAMONI SHIVA KUMAR	Shiva	Shiva	Shiva	Shiva	Shiva
220330064052017	MEGHAVATH SUNIL	Sunil	AB	Sunil	Sunil	Sunil
220330064052009	G RAKESH	Rakesh	Rakesh	Rakesh	Rakesh	Rakesh
220330064052013	K SRISAILAM	Srisailam	Srisailam	Srisailam	AB	Srisailam
220330064052020	MOHAMMAD JAFFAR	Jaffar	Jaffar	Jaffar	Jaffar	Jaffar
220330064052026	P LAXMI DEVI	Devi	Devi	Devi	Devi	Devi
220330064052032	VARLA LASYA PRIYA	Priya	Priya	Priya	Priya	Priya
220330064052028	PYATA JYOTHI	Jyothi	Jyothi	Jyothi	Jyothi	Jyothi
220330064052018	M ESHWARI	Eswari	Eswari	Eswari	Eswari	Eswari
220330064052004	GUNGAVATH SANTHOSH	AB	Santhosh	AB	Santhosh	AB
220330064052001	AVULA NAVANEETHA	Navaneetha	Navaneetha	Navaneetha	Navaneetha	Navaneetha
220330064052008	GODULLA SHIVA KUMAR	Shivakumar	Shivakumar	Shivakumar	Shivakumar	Shivakumar
220330064052015	MARCHA CHANDRA SHEKAR	Chandra	Chandra	Chandra	Chandra	Chandra
220330064052030	SINDAM RAMESH	Ramesh	Ramesh	Ramesh	Ramesh	Ramesh
220330064052023	NAVY LAXMI	Laxmi	Laxmi	AB	Laxmi	Laxmi

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Marks List

HALL TICKET NUMBER	NAME OF THE STUDENT	MARKS
220330064052006	GODUGU SHIREESHA	34
220330064052010	GUDLA SRIKANTH	40
220330064052016	MATKIKAR NARSING	38
220330064052012	KOSGI KAVITHA	40
220330064052022	NARVA KARTHIK REDDY	42
220330064052019	MODHELLA GANESH	36
220330064052025	PADAKANTI SHIVA KUMAR	43
220330064052029	R MAHENDRA SINGH NAIK	45
220330064052031	VADTHYAVANTH ANITHA	38
220330064052002	CHEEMALA ANITHA	40
220330064052007	GODUGU VARALAXMI	39
220330064052014	MANDA ANJALI	38
220330064052027	PRASAD	33
220330064052011	JATRAVATH SAVITRI	38
220330064052003	DARSHANAPU ANJALI	33
220330064052005	GIRAMONI SHIVA KUMAR	38
220330064052017	MEGHAVATH SUNIL	40
220330064052009	G RAKESH	40
220330064052013	K SRISAILAM	40
220330064052020	MOHAMMAD JAFFAR	40
220330064052026	P LAXMI DEVI	39
220330064052032	VARLA LASYA PRIYA	44
220330064052028	PYATA JYOTHI	46
220330064052018	M ESHWARI	48
220330064052004	GUNGAVATH SANTHOSH	45
220330064052001	AVULA NAVANEETHA	45
220330064052008	GODULLA SHIVA KUMAR	45
220330064052015	MARCHA CHANDRA SHEKAR	43
220330064052030	SINDAM RAMESH	40
220330064052023	NAVY LAXMI	31


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Roll No: _____

Subject : Datastructures using C++

Max Marks : 50

I. Multiple choice Questions.

10X2=20

1. Which of the following is the correct syntax to print message in c++ []
(a) cout<<"hello";(b)cout<<"hello";(c) ciniostream.h header file contains >>hello;(d) none of the above
2. Which of the following is not an Access-specifier in c++ []
(a) Friend (b) public (c)private (d) protected
3. A stream is a _____ []
(a) Flow of functions (b) Flow of data (c) flow of statements (d) Flow of streams
4. iostream.h header file contains the following functions []
(a) gets (b) cout (c) cin (d) both b&c
5. In Mulilevel inheritance ,the middle class acts as _____ []
(a)base class (b) Derived class (c) base as well as derived (d) virtual class
6. When a=5,b=3 and c=a>b?a:b then c= _____ []
(a)3 (b)7 (c) 5 (d) 8
7. Constructors are automatically invoked by _____ []
(a) object (b) compiler (c)interpreter (d) main()
8. constructors have the same name as _____ []
(a) file name (b) class name (c) member function name (d) all the above
9. Which of the following functions are examples for Polymorphysim []
(a)sum(a,b) &sum(a,b,c) (b) sum(int a,int b) &sum(int x,int y,int z)
(c) add(int a), sum(int a) (d) none of the above
10. How many types of polymorphysim are supported in c++ []
(a) 3 (b) 1 (c)2 (d) 4

II.Fill in the blanks

10X2=20

1. Constructors are executed when _____
2. C++ was developed by _____
3. The main advantage of Inheritance is _____
4. _____ is a multiway statemet.
5. _____ is a process of finding the correct location of an element from a list .
6. A variable that stores the address of another variable is called as _____
7. _____ key word is used to declare virtual functions.
8. _____ function is used to find the length of the string.
9. _____ key word is used to declare friend function.
10. sorting is a method for arranging the elements in _____

III. Short answer questions.

5X2=10

- 1 Define Polymorphism?
2. what is a virtual function?
3. What is an Inheritance? What are the different types of inheritance?
4. Define destructor?
5. Concepts of OOP's?

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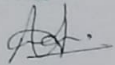
Department of Commerce & Computer Applications

Certificate of Appreciation

This Certificate Awarded to

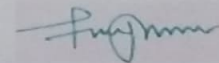
GODUGU SHIREESHA, ROLL NO:220330064052006

for successful completion of Add-On Course in “Data Structures using C++” organized by Department of Commerce & Computer Applications, Dr.BRR Government Degree College, Jadcherla, MBNR(Dist), Telangana. From 21-03-2023 to 17-04-2023



Dr.K.Manjula

HOD



Dr.CH.Appiya Chinnama

Principal