

GEETANJALI INSTITUTE OF TECHNICAL STUDIES

(Approved by AICTE, New Delhi and Affiliated to Rajasthan Technical University Kota(Raj.))

DABOK, UDAIPUR, RAJASTHAN 313022



TEACHER'S ACADEMIC RECORD BOOK

Name of the Teacher:	Charu Kavadia
Designation:	Assistant Professor
Department:	Computer Science and Engineering
Course:	B. Tech.
Subject with RTU Code:	Object Oriented Programming 3CS4-06
NBA Code of Course	C23406
Class: (Year/Semester/Section)	II/III/A and B
Academic Year and Term (Even/Odd)	2019-20 (Odd)

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DIRECTOR
Geetanjali Institute of Technical Studies
Dabok, UDAIPUR-313022 (Raj.)

Name of faculty: Ms. Charu Kavadia

Subject with Code: Object Oriented Programming 3CS4-06

NBA CODE: C23406

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VISION & MISSION OF INSTITUTE

Vision of Geetanjali institute of Technical studies

To achieve excellence in technical and management education through quality teaching and innovation.

Mission of Geetanjali institute of Technical studies

M1:To provide an excellent learning environment to produce socially responsible and productive technical professionals.

M2:To set up the state-of-the-art facilities for quality education and innovation.

M3:To impart knowledge & Skills leading to shaping a budding manager as a quality executive.

M4:To encourage for life-long learning and team-based problem solving through learning environment.

Department Vision

To nurture the students to become employable graduates who can provide solutions to the societal issues through ICT.

Department Mission

M1: To focus on practical approach towards learning and exposing the students on the latest ICT technologies.

M2: To foster logical thinking among the students to solve real-time problems using innovative approaches.

M3: To provide state-of-the-art resources that contributes to inculcate ethical and life-long learning environment.

Programme Educational Objectives (PEOs)

The Programme Educational Objectives of the programme offered by the department are listed below:

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PEO1: To enable the students to think out-of-the-box solutions for addressing societal issues through ICT.

PEO2: To impart skills in students to analyse, design and implement Software/Hardware solutions to solve interdisciplinary and complex problems.

PEO3: To expose the students towards effective dissemination of research findings in order to become successful entrepreneurs or to pursue higher education.

PROGRAM SPECIFIC OUTCOMES (PSO's)

PSO1: Professional Skills: The ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for efficient design of computer-based systems of varying complexity.

PSO2: Problem-Solving Skills: The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success.

PSO3: Successful Career and Entrepreneurship: The ability to employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur, and a zest for higher studies.

PROGRAMME OUTCOMES (POs)

A student will develop:

- 1. ENGINEERING KNOWLEDGE:** An ability to apply knowledge of Mathematics, Science and Engineering Fundamentals in Computer Science & Engineering.
- 2. PROBLEM ANALYSIS:** An ability to analyze and interpret data by designing and conducting experiments. Develop the knowledge of developing algorithms, designing, implementation and testing applications in computer related areas.
- 3. DESIGN/ DEVELOPMENT OF SOLUTION:** An ability to Design a system Component or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- 4. CONDUCTION OF INVESTIGATION OF COMPLEX PROBLEMS:** An ability to Identify, formulate and solve engineering problems.

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5. **MODERN TOOL USAGE:** An ability to use the techniques, skills and modern engineering tools necessary for engineering practice.
6. **THE ENGINEERING AND SOCIETY:** Broad education necessary to understand the impact of engineering solutions in a global, economic, environmental and societal context.
7. **ENVIRONMENT & SUSTAINABILITY:** Understand the impact of professional engineering solution in societal and environmental contexts, and demonstrate the knowledge of, and need of sustainable development.
8. **ETHICS:** An ability to understand the professional, social and ethical responsibility.
9. **INDIVIDUAL AND TEAM WORK:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **COMMUNICATION:** An ability to Communicate effectively in order to succeed in their profession such as, being able to write effective reports and design documentation, make effective presentations.
11. **PROJECT MANAGEMENT & FINANCE:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in team, to manage projects and in multidisciplinary environment.
12. **LIFE-LONG LEARNING:** Recognize the need and an ability to engage in life-long learning.

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COURSE OUTCOMES (COs) OF THE SUBJECT

After completing this course the student must demonstrate the knowledge and ability to:

CO _{23406.1}	To understand the different programming paradigm
CO _{23406.2}	To know the principles of OOPs
CO _{23406.3}	Understand and apply the principles of inheritance
CO _{23406.4}	Understand the principles of polymorphism
CO _{23406.5}	To develop programming skills of for solve basic real world problems using oriented programming techniques.

COS MAPPING WITH POs AND PSOs

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO _{23406.1}	1	3	0	0	0	0	0	0	0	0	0	0	2	0	0
CO _{23406.2}	1	2	2	0	0	0	0	0	0	0	0	0	1	0	0
CO _{23406.3}	1	0	2	2	1	0	0	0	0	0	0	0	2	1	0
CO _{23406.4}	1	2	2	0	1	0	0	0	0	0	0	0	1	2	0
CO _{23406.5}	1	3	1	0	0	0	0	0	0	0	0	0	1	2	0
CO ₂₃₄₀₆ (Avg)	1	2	1.4	0.4	0.4	0	0	0	0	0	0	0	1.4	1	0

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UNIVERSITY ACADEMIC CALENDAR

GEETANJALI INSTITUTE OF TECHNICAL STUDIES, UDAIPUR				
UNIVERSITY ACADEMIC CALENDAR FOR GEO SEM (2018-19)				
PARTICULARS	B.TECH. I	B.TECH. III	B.TECH. V	B.TECH. VII
Induction Program	01.08.2018 - 15.08.2018			
Commencement of Classes	16.08.2018	23.07.2019	13.7.2019	3.7.2019
First Mid Term	30.09.2018	09.09.2019	26.08.2019	19.08.2018
Second Mid Term	14.11.2018	04.11.2019	10.09.2019	21.10.2018
Last Working Day	08.11.2018	06.10.2019	31.09.2019	20.10.2018
Commencement of Practical Exams	18.11.2018	08.10.2019	25.11.2019	23.11.2018
Commencement of Theory Exams	05.12.2018	04.12.2019	07.11.2019	04.11.2018
Holiday Week	20.12.2018 to 26.12.2018			
Commencement of Classes for 2nd Term Session (2019-20)	II	IV	VI	VIII
	05.01.2019	04.01.2020	06.12.2019	05.12.2018
GITS ACADEMIC CALENDAR FOR GEO SEM (2019-20)				
Induction Program	01.08.2019 - 15.08.2019			
Class Start Date	16.08.2019	1.07.2020	13.7.2020	2.7.2020
Class End Date	08.11.2019	08.11.2020	11.10.2020	10.10.2019
No. of Working Days Available	80	124	105	80
No. of Teaching Days Available	80	109	90	80
Theory Exam Start Date	05.12.2019	04.12.2020	07.11.2020	06.11.2019
Practical Exam Start Date	08.11.2019	08.10.2020	25.10.2020	23.11.2019
Practical Exam End Date	20.11.2019	22.11.2020	29.10.2020	28.11.2019
Continuous Evaluation				
First Mid Term Test	30.09.2019	09.09.2020	26.08.2020	19.08.2019
Second Mid Term Test	14.11.2019	04.11.2020	10.09.2020	21.10.2019
Continuous Assessment				
CA-Vol-1	05.12.2019	24.08.2020	30.08.2020	24.08.2019
CA-Vol-2	07.10.2019	06.11.2020	15.10.2020	14.10.2019
Assignment 1 & 2 Submission Date	25.09.2019	18.08.2020	21.08.2020	20.08.2019
Assignment 3 & 4 Submission Date	04.10.2019	23.08.2020	13.10.2020	04.10.2019
Parents Teacher Meeting		05.10.2020		
Attendance Display of July (For I & II year)		01.08.2020		
Attendance Display of August		01.09.2020		
Attendance Display of September		01.10.2020		
Attendance Display of October		01.11.2020		
Attendance Display of November (For I & II)		01.12.2020		
Course Coverage report of July (For I & II)		01.08.2020		
Course Coverage report of August		01.09.2020		
Course Coverage report of September		01.10.2020		
Course Coverage report of October		01.11.2020		
Course Coverage report of November (For I & II)		18.11.2020		

Dr. P. C. Gupta
Dean Academics

Dr. Anurag Kishor
Director

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FACULTY DETAILS:

Name of the Faculty: Charu Kavadia

Designation: Assistant Professor

Department: Computer Science and Engineering

1. TARGET

- a) Percentage Pass: 100%
- b) Percentage I class: 80 %

2. COURSE OBJECTIVE

- To make students understand the different programming paradigm
- To make students know the principles of OOPs
- To make students understand and apply the principles of inheritance
- To make students develop programming skills of undergraduate students to solve basic real world problems using objective oriented programming techniques.

3. METHOD OF EVALUATION

- 3.1. ☒ Continuous Assessment Examinations (Mid-Term 1, Mid-Term 2)
- 3.2. ☒ Assignments / Seminars
- 3.3. ☒ Mini Projects
- 3.4. ☒ Quiz
- 3.5. ☐ Others _____

4. List out any new topic(s) or any innovation you would like to introduce in teaching the subject in this Semester.

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UNIVERSITY SYLLABUS



RAJASTHAN TECHNICAL UNIVERSITY, KOTA

Syllabus

II Year-III Semester: B.Tech. Computer Science and Engineering

3CS4-06: Object Oriented Programming

Credit-3
3L+0T+0P

Max. Marks : 150 (IA:30,ETE:120)
End Term Exam: 3 Hours

SN	CONTENTS	Hours
1	Introduction to different programming paradigm, characteristics of OOP, Class, Object, data member, member function, structures in C++, different access specifiers, defining member function inside and outside class, array of objects.	8
2	Concept of reference, dynamic memory allocation using new and delete operators, inline functions, function overloading, function with default arguments, constructors and destructors, friend function and classes, using this pointer.	8
3	Inheritance, types of inheritance, multiple inheritance, virtual base class, function overriding, abstract class and pure virtual function	9
4	Constant data member and member function, static data member and member function, polymorphism, operator overloading, dynamic binding and virtual function	9
5	Exception handling, Template, Stream class, File handling.	6
TOTAL		40

PRESCRIBED BOOKS

1. OBJECT ORIENTED PROGRAMMING WITH C++- E. BALAGURUSWAMY, MCGRAW HILL
2. MASTERING C++- K R VENUGOPAL, RAJKUMAR, T RAVISHANKAR, MCGRAW HILL
3. PROGRAMMING WITH C++- D RAVICHANDRAN, MCGRAW HILL

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WEEKLY TIME TABLE OF THE TEACHER

First Time Table: with effect from (3/7/19):

Day	1	2	3	4	5	6	7	8	9
Monday		CS III Sem A	CS III Sem B	L U N C H					
Tuesday	CS III Sem A					CS III Sem A			
Wednesday									
Thursday		CS III Sem A				CS III Sem A			
Friday									
Saturday	CS III Sem B		CS III Sem A						

Revision: 1 with effect from (22/7/19):

Day	1	2	3	4	5	6	7	8	9
Monday			CS III Sem B						
Tuesday	CS III Sem A					CS III Sem B			
Wednesday	CS III Sem A								
Thursday	CS III Sem A	CS III Sem B							
Friday									
Saturday		CS III Sem B	CS III Sem A						

Revision: 2 with effect from (14/8/19):

Day	1	2	3	4	5	6	7	8	9
Monday		CS III Sem A		L U N C H					
Tuesday	CS III Sem A					CS III Sem B			
Wednesday									
Thursday		CS III Sem A							
Friday	CS III Sem A		CS III Sem B						
Saturday	CS III Sem A		CS III Sem B						

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COURSE-PLAN

UNIT	Lect No.	TOPICS	Teaching Methods/ Teaching Aids	Actual date of Delivery	Actual date of Delivery
				A	B
1	1	Introduction to different Programming Paradigm	Lecture/White Board	8/7/19	2/7/19
1	2	Characterstics of OOP	Lecture/White Board	9/7/19	8/7/19
1	3	Class, Object, Data Member,	Lecture/White Board	10/7/19	9/7/19
1	4	Member Functions	Lecture/White Board	10/7/19	15/7/19
1	5	Structures in C++	Lecture/White Board	15/7/19	15/7/19
1	6	Different Access Specifiers	Lecture/White Board	16/7/19	16/7/19
1	7	Defining Member Function inside and outside class	Lecture/White Board	17/7/19	17/7/19
1	8	Array of Objects	Lecture/White Board	18/7/19	18/7/19
2	9	Concept of Reference	Lecture/White Board	22/7/19	22/7/19
2	10	Dynamic Memory Allocation using New and Delete Operators	Lecture/White Board	24/7/19	25/7/19
2	11	Inline Functions, Function Overloading, Function with default arguments	Lecture/White Board	25/7/19	27/7/19
2	12	Constructors	Lecture/White Board	27/7/19	29/7/19
2	13	Destructors	Lecture/White Board	30/7/19	30/7/19
2	14	Friend Function and Classes-1	Lecture/White Board	31/7/19	1/8/19
2	15	Friend Function and Classes-2	Lecture/White Board	1/8/19	5/8/19

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2	16	Using This Pointer	Lecture/White Board	3/8/19	6/8/19
3	17	Inheritance	Lecture/White Board	6/8/19	8/8/19
3	18	Types of Inheritance-1	Lecture/White Board	7/8/19	9/8/19
3	19	Types of Inheritance-2	Lecture/White Board	8/8/19	13/8/19
3	20	Multiple Inheritance	Lecture/White Board	9/8/19	17/8/19
3	21	Virtual Base Class	Lecture/White Board	16/8/19	19/8/19
3	22	Function Overriding	Lecture/White Board	17/8/19	20/8/19
3	23	Abstract Class	Lecture/White Board	19/8/19	25/8/19
3	24	Pure Virtual Function	Lecture/White Board	27/8/19	29/8/19
4	25	Constant Data Member and Member Function	Lecture/White Board	30/8/19	30/8/19
4	26	Static Data Member and Member Function	Lecture/White Board	31/8/19	31/8/19
4	27	Polymorphism	Lecture/White Board	3/9/19	3/9/19
4	28	Operator Overloading-1	Lecture/White Board	6/9/19	5/9/19
4	29	Operator Overloading-2	Lecture/White Board	7/9/19	6/9/19
4	30	Dynamic Binding	Lecture/White Board	9/9/19	7/9/19
4	31	Virtual Function-1	Lecture/White Board	13/9/19	10/9/19

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4	32	Virtual Function-2	Lecture/White Board	16/9/19	12/9/19
5	33	Exception Handling-1	Lecture/White Board	17/9/19	13/9/19
5	34	Exception Handling-2	Lecture/White Board	19/9/19	19/9/19
5	35	Templates-1	Lecture/White Board	23/9/19	20/9/19
5	36	Templates-2	Lecture/White Board	28/9/19	26/9/19
5	37	Stream Class	Lecture/White Board	30/9/19	27/9/19
5	38	File Handling-1	Lecture/White Board	5/10/19	3/10/19
5	39	File Handling-2	Lecture/White Board	7/10/19	4/10/19
5	40	File Handling-3	Lecture/White Board	14/10/19	10/10/19
	41	Revision(5 Unit)	Lecture/White Board	19/10/19	11/10/19
	42	Revision(4 Unit)	Lecture/White Board	21/10/19	17/10/19
	43	Revision(3 Unit)	Lecture/White Board	31/10/19	15/10/19
	44	Revision(2 Unit)	Lecture/White Board	1/11/19	22/10/19
	45	Revision(1 Unit)	Lecture/White Board	—	7/11/19

Signature of Faculty :

Signature of HOD

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TUTORIAL SHEETS

(Unit wise)

UNIT –I (CO_{23406.1})

Date : 22/7/1 (A), 22/7/19(B)

Questions

Q.1 Describe the mechanism of accessing data members and member functions in the following case:-

(i) inside the main program.

(ii) Inside the member function of the same class.

Q.2 Create a structure to specify data of customers in a bank. The data to be stored is:-Account number, Name, Balance in account. Assume maximum of 20 customers in the bank:-

(i) Write a function to print the account number and name of each customer with balance below Rs 100.

(ii) If a customer request for withdrawal or deposit, it is given in the form:-

Acct.no, amount, code {1 for deposit, 0 for withdrawal}. Write a C++ program to give the message, "The balance is insufficient for specified withdrawal".

Q.3 Discuss various use of :: (Scope Resolution Operator) in C++.

UNIT –II (CO_{23406.2})

Date: 6/8/19(A), 8/8/19(B)

Questions

Q.1 Explain 'this' Pointer in detail with its application and example.

Q.2 Explain the concept of inline functions in C++ with its benefits. Also give differences between macro and inline functions.

Q.3 Explain Constructors with characteristics, types, syntax and examples. Also explain Destructor with example. Give differences between Constructors and Destructors.

UNIT –III(CO_{23406.3})

Date: 30/8/19(A), 30/8/19(B)

Questions

Q.1 Explain Multiple Inheritance with example. Explain the ambiguities that may arise in case of single and multiple Inheritance and how it is resolved.

Q.2 Explain Virtual Base Class. Explain why we make a class virtual. Explain with example.

Q.3 Explain abstract class with its example and applications.

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UNIT –IV(CO_{23406.4})

Date: 17/9/19(A), 3/9/19(B)

Questions

Q.1 Write a C++ program to make a class named “string” which uses concept of operator overloading to compare two strings by (==) operator.

Q.2 Define a complete class name distance with feet and inches as data members. Overload += between two objects of distance class.

Q.3 Explain Run time Polymorphism with its advantages. Explain Virtual Function with its need, properties and example. Also explain pure Virtual Function with its need and example.

UNIT –V (CO_{23406.5})

Date: 19/10/19(A), 1/10/19(B)

Questions

Q.1 Explain Exception Handling with its mechanism in detail. Explain try, throw and catch constructs used in C++ with their syntax and example.

Q.2 Explain Template Class and Template Function. Explain how it supports generic Programming. Write a program to implement swapping using templates.

Q.3 Explain File Handling with its advantages. Explain opening of file with the help of constructor and open function.


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ASSIGNMENT

UNIT -I(CO_{23406.1})

**Date of Assignment given :- 18/7/19(A)
18/7/19(B)**

**Date of Submission:22/7/19(A)
22/7/19(B)**

SET 1 (Roll No.18EGICS001-18EGICS015 and Roll No.18EGICS059-18EGICS072)

Ques 1(a). Explain Object Oriented Programming. Discuss it with all the features. Also give advantages of OOPs. Give differences between Object Oriented and Structured Programming. (RTU 2016, 2015, 2013, 2011,2010)

Ques 1(b). Describe the mechanism of accessing data members and member functions in the following case:- (RTU 2016)

(i) inside the main program.

(ii) Inside the member function of the same class.

Ques 2. Create a structure to specify data of customers in a bank. The data to be stored is:-Account number, Name , Balance in account. Assume maximum of 20 customers in the bank:- (RTU 2016)

(i)Write a function to print the account number and name of each customer with balance below Rs 100.

(ii) If a customer request for withdrawl or deposit, it is given in the form:-

Acct.no, amount,code {1 for deposit, 0 for withdrawl}. Write a C++ program to give the message,"The balance is insufficient for specified withdrawl".

SET 2 (Roll No.18EGICS016-18EGICS028 and Roll No.18EGICS073-18EGICS085)

Ques 1(a). Explain all the concepts of Object Oriented Programming. (RTU 2014, 2016, 2010, 2011)

Ques 1(b). Discuss various use of :: (Scope Resolution Operator) in C++. (RTU 2015, 2018)

Ques 2 Create a structure for student data, fill the data by using a function by passing that structure instance to function. Write C++ code. (RTU 2015)

SET 3 (Roll No.18EGICS029-18EGICS042 and Roll No.18EGICS086-18EGICS098)

Ques 1(a). Explain different Programming Paradigms in detail with example. (RTU 2018)

Ques 1(b). Describe the syntax for Class and Object specification with examples. How does it accomplish data Hiding. Give an example. (RTU 2013)

Ques 2 Create a time class that includes integer numbers values for hours, minutes and seconds. Make a member function get_time() that gets a time value from the user and a function put_time() that displays time in 12:59:59 format. Add error checking to the get_time() function to minimize user mistakes.the function should request hours, minutes and seconds separately. And check the range should be between 0 and 23, and minutes and seconds between 0 and 59. (RTU 2018)

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SET 4 (Roll No.18EGICS043-18EGICS057 and Roll No.18EGICS099-18EGICS111 AND Diploma Students)

Ques 1(a). Explain the differences between Structures in C and C++. Also give differences between structures in C and classes in C++. (RTU 2018, 2016, 2014)

Ques 1(b). Explain Access Specifiers in C++. Also explain defining member functions inside and outside class with example. (RTU 2018, 2016)

Ques 2 Use for loops to construct a program on the screen. The pyramid should look like this: (RTU 2018)

```

    1
  1 2 1
1 2 3 2 1
1 2 3 4 3 2 1
1 2 3 4 5 4 3 2 1
```

UNIT -II(CO_{23406.2})

**Date of Assignment given :- 3/8/19(A)
6/8/19(B)**

**Date of Submission: 7/8/19(A)
9/8/19(B)**

SET 1 (Roll No.18EGICS001-18EGICS015 and Roll No.18EGICS059-18EGICS072)

Ques 1(a). Explain concept of reference in C++. Discuss similarities and dissimilarities between pointer and references in C++. (RTU 2015)

Ques 1(b). Explain mechanism of accessing a private data member of the class from a non-member function and justify it with a program in C++ to swap private data members of two classes. Also discuss the characteristics and need of the mechanism. (RTU 2017, 2016, 2015, 2014, 2013)

Ques 2 Design a class having Constructor and Destructor functions that should display the number of objects being created or destroyed of class type. (RTU 2018, 2016)

SET 2 (Roll No.18EGICS016-18EGICS028 and Roll No.18EGICS073-18EGICS085)

Ques 1(a). Explain 'this' Pointer in detail with its application and example. (RTU 2015)

Ques 1(b). Explain the concept of inline functions in C++ with its benefits. Also give differences between macro and inline functions. (RTU 2013, 2010)

Ques 2 Design a C++ program to overload swap function to swap two integers, two floats and two characters respectively.

SET 3 (Roll No.18EGICS029-18EGICS042 and Roll No.18EGICS086-18EGICS098)

Ques 1(a). Explain Constructors with characteristics, types, syntax and examples. Also explain Destructors with example. Give differences between Constructors and Destructors. (RTU 2018, 2013, 2011, 2010)

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Ques 1(b). Explain Friend Function and classes with its need, characteristics and example. (RTU 2017, 2016, 2015, 2014, 2011, 2010)

Ques 2 Write an inline function factorial(int x) which returns the factorial of value x. Test the function by reading values from the keyboard. (RTU 2018)

SET 4 (Roll No.18EGICS043-18EGICS057 and Roll No.18EGICS099-18EGICS111 AND Diploma Students)

Ques 1(a). Explain the process of creating and destroying objects dynamically using 'new' and 'delete' operator. Also give advantages of run-time (Dynamic) allocation/management over compile(Static) allocation/management. (RTU 2018, 2016, 2015)

Ques 1(b). Explain Function Overloading with its advantages and example. Also explain function with default arguments. (RTU 2014, 2010)

Ques 2 Design a C++ program to add three objects of three different classes using friend function.

UNIT -III (CO_{23406.3})

**Date of Assignment given: 27/8/19(A)
29/8/19 (B)**

**Date of Submission: 3/9/19(A)
3/9/19 (B)**

SET 1 (Roll No.18EGICS001-18EGICS015 and Roll No.18EGICS059-18EGICS072)

Ques 1(a). Explain Inheritance with its advantages and types. Explain each type with an example.. Explain the way to make a private member inheritable without modifying. (RTU 2018, 2017, 2016, 2015, 2014, 2013, 2011, 2010)

Ques 1(b). Explain the effect of using the access specifiers with class members on Inheritance. (RTU 2017, 2015, 2013)

Ques 2. Create a class named "student" that contains roll_number, stu_name, course_name, father_name and DOB as data member and Input_student and display_student as member functions. Create a derived class named "exam" from the class named "student" with publically inherited mode. The derived class contains members as mark1, mark2, mark3 as marks of three subjects and input_marks and display_results as member functions. Create an array of objects of "exam" class and display the result of 10 students. (RTU 2018)

SET 2 (Roll No.18EGICS016-18EGICS028 and Roll No.18EGICS073-18EGICS085)

Ques 1(a). Explain visibility modifiers. Explain what happens to private, public and protected data of class B, when a class D is derived from B- a) Publically b) Protectedly c) Privately with example. (RTU 2017, 2015, 2013)

Ques 1(b). Explain abstract class with its example and applications(or Explain the role of building the abstract classes while building the class hierarchy.). (RTU 2018, 2017, 2016, 2015, 2013)

Ques 2. Create a class named "student" that contains roll_number, stu_name, course_name, father_name and DOB as data member and Input_student and display_student as member functions. Create a first derived class named "exam" from the class named "student" with publically inherited mode. This derived class contains members as mark1, mark2, mark3 as marks of three subjects and input_marks and display_marks as member functions. Create a second derived class "sports" from the class "student" with publically inherited

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mode. This derived class contains members as sports_weightage as sports marks and input_sportsmarks and display_sportsmarks as member functions. Derive another class "result" deriving both "exam" and "sports" for calculating result considering exams as well as sports marks. Create an array of objects of "result" class and display the result of 10 students.

SET 3 (Roll No.18EGICS029-18EGICS042 and Roll No.18EGICS086-18EGICS098)

Ques 1(a). Explain Multiple Inheritance with example. Explain the ambiguities that may arise in case of single and multiple Inheritance and how it is resolved. (RTU 2017, 2016, 2015, 2014, 2013, 2011, 2010)

Ques 1(b). Describe how an object of class that contains objects of other classes created with example. (RTU 2016)

Ques 2 Create a class named "student" that contains roll_number, stu_name, course_name, father_name and DOB as data member and Input_student and display_student as member functions. Create a first derived class named "exam" from the class named "student" with publically inherited mode. This derived class contains members as mark1, mark2, mark3 as marks of three subjects and input_marks and display_marks as member functions. Create a second derived class "sports" from the class "student" with publically inherited mode. This derived class contains members as sports_weightage as sports marks and input_sportsmarks and display_sportsmarks as member functions. Create a third derived class "cultural_activity" from the class "student" with publically inherited mode. This derived class contains members as cultural_weightage as cultural activity marks and input_culturalmarks and display_culturalmarks as member functions. Derive another class "result" deriving "exam", "sports" and "cultural_activity" for calculating result considering exams, sports as well as cultural activity marks. Create an array of objects of "result" class and display the result of 10 students.

SET 4 (Roll No.18EGICS043-18EGICS057 and Roll No.18EGICS099-18EGICS111 AND Diploma Students)

Ques 1(a). Explain Virtual Base Class. Explain why we make a class virtual. Explain with example. (RTU 2103, 2011, 2010)

Ques 1(b). Design two classes to show the multiple Inheritance. How does a object of derived class access the member of base class. (RTU 2017, 2016, 2015, 2014, 2013, 2011, 2010)

Ques 2. Create a C++ program that has two classes (one for employee and one for student), have a separate class for address (with door no, street name, city, state) and reuse address both for employee and student. Perform insert, delete and display operations by taking choice of person (employee or student) from the user.

UNIT -IV (CO23406.4)

**Date of Assignment given: 16/9/19(A)
12/9/19(B)**

**Date of Submission: 23/9/19(A)
19/9/19(B)**

SET 1 (Roll No.18EGICS001-18EGICS015 and Roll No.18EGICS059-18EGICS072)

Ques 1(a). Explain Static Class Members(Static Data Members and Static Member Functions). Mention their properties in detail. Write a program to count number of objects created for a particular class using static data member. (RTU 2018)


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Ques 1(b). Explain the term Dynamic Binding. How its useful in OOPs. Explain the concept of Virtual Functions with its need, properties and example. (RTU 2018, 2017, 2016, 2014, 2011, 2010)

Ques 2 Write a C++ program to make a class named "string" which uses concept of operator overloading to concatenate two strings by (+) operator. (RTU 2017, 2015, 2013)

SET 2 (Roll No.18EGICS016-18EGICS028 and Roll No.18EGICS073-18EGICS085)

Ques 1(a). Explain Operator Overloading with its need, restrictions and limitations. List the operators that cannot be overloaded. Explain Operator Function with its syntax and the process of overloading unary and binary operators with member function as well as friend function with example. (RTU 2018, 2017, 2016, 2014, 2013, 2011, 2010)

Ques 1(b). Explain Pure Virtual Functions. Explain the implications of making function Pure Virtual Function. (RTU 2018, 2016, 2013)

Ques 2 Write a C++ program to make a class named "string" which uses concept of operator overloading to compare two strings by (==) operator. (RTU 2010)

SET 3 (Roll No.18EGICS029-18EGICS042 and Roll No.18EGICS086-18EGICS098)

Ques 1(a). Explain the limitations of overloading unary increment/decrement operator in a same program. Explain how they are overcome. Write a C++ program to overload a unary operator. (RTU 2017, 2013)

Ques 1(b). Explain Run time Polymorphism(Function Overriding) with its advantages. Explain Virtual Function with its need, properties and example. Also explain pure Virtual Function with its need and example. (RTU 2018, 2016, 2015, 2011, 2010)

Ques 2 . Define a complete class name distance with feet and inches as data members. Overload += between two objects of distance class. (RTU 2016)

SET 4 (Roll No.18EGICS043-18EGICS057 and Roll No.18EGICS099-18EGICS111 AND Diploma Students)

Ques 1(a). Explain Polymorphism. Describe how its achieved at compile time(Function Overloading and Operator Overloading) and run time(Virtual Function). Explain both with help of example. (RTU 2017, 2016, 2014, 2011, 2010)

Ques 1(b). Explain overloading stream functions with suitable example. (RTU 2011)

Ques 2 Write a C++ Program which implements "=" binary operator. The overload class should contain one parameterised constructor to initialize default value to the member variable and a display function to display value of member variable. (RTU 2018)

UNIT -V (CO_{23406.5})

**Date of Assignment given: 14/10/19(A)
10/10/19(B)**

**Date of Submission: 19/10/19(A)
16/10/19(B)**

SET 1 (Roll No.18EGICS001-18EGICS015 and Roll No.18EGICS059-18EGICS072)

Name of faculty: Ms. Charu Kavadia

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Ques 1(a). Explain Exception Handling with its mechanism in detail. Explain try, throw and catch constructs used in C++ with their syntax and example. (RTU 2017, 2015, 2014, 2011, 2010)

Ques 1(b). Write a template function that returns the average of all the elements of an array. The arguments to the function should be the array name and size of the array (type int). In main exercise the function with arrays of type int, long, double and char. (RTU 2018)

Ques 2 Write a C++ program using File Handling to perform the following operations:-

- A file named "data.txt" contains numbers from 0-100. Open the "data.txt" file in read mode.
- Read data from "data.txt" file.
- If the number is odd, open a new file named "odd.txt" and write the odd number into "odd.txt" file.
- If the number is even, open a new file named "even.txt" and write the odd number into "odd.txt" file.
- Display the data of all the files. (RTU 2018)

SET 2 (Roll No.18EGICS016-18EGICS028 and Roll No.18EGICS073-18EGICS085)

Ques 1(a). Explain Template Class and Template Function. Explain how it supports generic Programming. Write a program to implement swapping using templates. (RTU 2018, 2017, 2016, 2015, 2014, 2013, 2011,2010)

Ques 1(b). Explain Run-Time Error, Logical Error and Syntax Error. (RTU 2018)

Ques 2 Handle the following exceptions to input two integers from keyboard to perform division operation

- A Try Block to throw an exception when a wrong type of data is entered.
- When division by zero occurs

Write appropriate catch block to handle above exceptions which are thrown from "throw" block. (RTU 2018)

SET 3 (Roll No.18EGICS029-18EGICS042 and Roll No.18EGICS086-18EGICS098)

Ques 1(a). Explain C++ Stream Classes in detail with example.

Ques 1(b). Explain the difference between Error and Exception. Explain the keywords used in Exception Handling. (RTU 2016)

Ques 2 Write a program to implement sorting using templates. (RTU 2018, 2013, 2010)

SET 4 (Roll No.18EGICS043-18EGICS057 and Roll No.18EGICS099-18EGICS111 AND Diploma Students)

Ques 1(a). Explain File Handling with its advantages. Explain opening of file with the help of constructor and open function.

Ques 1(b). Explain try, catch and throw constructs used in C++ with their syntax. (RTU 2013)


Ques 2. Write a program to implement searching using templates.

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Mid Term Exam – I

Question Paper

GEETANJALI INSTITUTE OF TECHNICAL STUDIES

COMPUTER SCIENCE AND ENGINEERING

I INTERNAL EXAMINATION

II YEAR III SEMESTER SECTION A AND B

3CS4-06 OBJECT ORIENTED PROGRAMMING

Maximum Marks-24

Time-1:30 Hours

Q.No.	Question	Marks	BL	CO
PART A(Compulsory)				
Q.1	Define uses of Scope Resolution Operator(::) .	1	1	CO23406.1
Q.2	Define Access Specifiers in C++.	1	1	CO23406.1
Q.3	Define Function Overloading.	1	1	CO23406.2
Q.4	Give differences between inline functions and macros.	1	4	CO23406.2
Q.5	Define Multiple Inheritance.	1	1	CO23406.3
PART B (Attempt Three out of Four)				
Q.6	Describe the mechanism of accessing data members and member functions in the following case:- (i) inside the main program. (ii) Inside the member function of the same class.	3	2,3	CO23406.1
Q.7	Create a structure to specify data of customers in a bank. The data to be stored is:-Account number, Name , Balance in account. Assume maximum of 20 customers in the bank:- (i)Write a function to print the account number and name of each customer with balance below Rs 100. (ii) If a customer request for withdrawl or deposit, it is given in the form:- Acct.no, amount,code {1 for deposit, 0 for withdrawl}. Write a C++ program to give the message,"The balance is insufficient for specified withdrawl".	3	3	CO23406.1
Q.8	Explain mechanism of accessing a private data member of the class from a non-member function and justify it with a program in C++ to swap private data members of two classes. Also discuss the characteristics and need of the mechanism.	3	2,3	CO23406.2

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Q.9	Explain the concept of references in C++ with its applications. Design a C++ program to swap two numbers using call by reference.	3	2,3	CO23406.2
PART C (Attempt Two out of Three)				
Q.10	Explain all the concepts of Object Oriented Programming.	5	2	CO23406.1
Q.11	Explain Constructors with characteristics, types, syntax and examples. Also explain Destructor with example.	5	2	CO23406.2
Q.12	Explain Inheritance with its advantages and types. Explain each type with an example. Explain different inheritance Visibility Modifiers supported by C++.	5	2	CO23406.3
ALL THE BEST				

BL – Bloom's Taxonomy Levels (1- Remembering, 2- Understanding, 3 – Applying, 4 – Analyzing, 5 – Evaluating, 6 - Creating)

CO – Course Outcomes


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Marks and Identification of Slow Learners of Mid-Term I

S.No.	University Roll No.	Name of Student	Mid-Term I MM-	Remedial Classes needed or not – Y/N*
1	18EGICS001	AAKANKSHA SAMOTA	24	N
2	18EGICS002	ABDUL QADIR	23	N
3	18EGICS003	ABHISHEK LAKSHKAR	20	N
4	18EGICS004	ABHISHEK SOLANKI	22	N
5	18EGICS006	AMAN THAKUR	23	N
6	18EGICS007	AMISHA SONI	20	N
7	18EGICS008	AMIT SUTHAR	21	N
8	18EGICS009	AMRITESH SAINI	20	N
9	18EGICS011	ANJALI VYAS	24	N
10	18EGICS012	ANSH KUMAR SONI	23	N
11	18EGICS013	ANUBHUTI JHA	24	N
12	18EGICS014	ARYAN DADHEECH	24	N
13	18EGICS015	ATUL SUTHAR	23	N
14	18EGICS016	AYUSH YADAV	22	N
15	18EGICS017	AYUSHMAAN PATEL	23	N
16	18EGICS018	BHAVIKA RAJORA	21	N
17	18EGICS019	BHAVUK SETH	22	N
18	18EGICS020	BHAVYA SONI	24	N
19	18EGICS021	BHOWMICK VYAS	21	N
20	18EGICS023	CHIRAG NENWA	23	N
21	18EGICS024	DALPAT I	23	N
22	18EGICS025	DARSHAN SHRIMALI	24	N
23	18EGICS026	DINESH KUMAR	21	N

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24	18EGICS027	DIVYA SONI	23	N
25	18EGICS028	GARIMA SONI	23	N
26	18EGICS029	GYANENDRA KUMAR	24	N
27	18EGICS030	HARSHIT PALIWAL	21	N
28	18EGICS031	HARSHITA JAIN	24	N
29	18EGICS032	HARSHITA SINGHVI	22	N
30	18EGICS034	HIMANSHI PALIWAL	23	N
31	18EGICS035	HITESH VAGHELA	22	N
32	18EGICS036	HRITIK KOTHARI	20	N
33	18EGICS037	HRITTVIK GUPTA	24	N
34	18EGICS038	JAYA SISODIYA	23	N
35	18EGICS039	JINKAL NAGDA	23	N
36	18EGICS040	JYOTI ATOLIYA	22	N
37	18EGICS041	KANAKLATA SHAKTAWAT	19	Y
38	18EGICS042	KAPIL RAJPAL	22	N
39	18EGICS043	KARTIK AGARWAL	22	N
40	18EGICS044	KASHISH JOSHI	21	N
41	18EGICS046	KRISHNAPAL SINGH DEORA	24	N
42	18EGICS047	KRISHNAVEER SINGH	24	N
43	18EGICS048	KRITARTH KUMAR JHA	23	N
44	18EGICS049	KUSHAL RAJPAL	23	N
45	18EGICS050	LAKSHYARAJ SINGH DALAWAT	22	N
46	18EGICS051	LOKESH BHATT	22	N
47	18EGICS052	LOVISHA JAIN	24	N
48	18EGICS053	MANDEEP JAIN	21	N
49	18EGICS055	MOHAMMAD ADNAN SHEIKH	22	N


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50	18EGICS056	MOHIT SONI	20	N
51	18EGICS057	MOKSHIKA KOTHARI	23	N
52	18EGICS059	NISHITA RAWAT	24	N
53	18EGICS060	PAYAL MANGHNANI	21	N
54	18EGICS061	PRAFULL RAJ SONI	20	N
55	18EGICS062	PRAJAPATI DIPAK SHANTILAL	22	N
56	18EGICS063	PRAJAPATI OMPRAKASH HEMARAJBHAI	22	N
57	18EGICS064	PRANJAL NATHANIEL	19	Y
58	18EGICS065	PRATHAM SWARNKAR	21	N
59	18EGICS067	PRIYA JAWARIYA	23	N
60	18EGICS068	PRIYAL SONI	20	N
61	18EGICS069	PRIYANSH K SAKARWAL	20	N
62	18EGICS070	PRIYANSHA LODHA	21	N
63	18EGICS071	PRIYANSHU SANKHALA	24	N
64	18EGICS072	PRIYASH GARG	20	N
65	18EGICS073	PURVA DINESH VIJAYVARGIYA	23	N
66	18EGICS074	PURVA SONI	22	N
67	18EGICS075	PURVI AGRAWAL	22	N
68	18EGICS076	RAGHVENDRA SINGH	21	N
69	18EGICS078	RAUNAK BHANAWAT	21	N
70	18EGICS079	REDDY SURYA MANOJ	21	N
71	18EGICS080	RITIK NANAWATI	24	N
72	18EGICS081	RITVIKA NAIR	21	N
73	18EGICS082	RIYA AGARWAL	24	N
74	18EGICS083	ROHAN SHARMA	22	N
75	18EGICS084	RONAK ISRANI	21	N

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76	18EGICS085	RONAK RATHORE	20	N
77	18EGICS086	SANDHYA KUNWAR SISODIYA	21	N
78	18EGICS087	SEJAL RATHOR	22	N
79	18EGICS088	SHOAIB KHAN	20	N
80	18EGICS089	SHUBHAM MATHUR	21	N
81	18EGICS090	SHUBHAM SONI	24	N
82	18EGICS091	SONA AMETA	23	N
83	18EGICS092	SOURAV PALIWAL	20	N
84	18EGICS093	TANAY SHARMA	21	N
85	18EGICS094	TANMAY MATHUR	24	N
86	18EGICS095	TANMAY PALIWAL	21	N
87	18EGICS096	TUSHAR KUMAR PRAJAPATI	22	N
88	18EGICS097	TWINKLE JANWA	24	N
89	18EGICS098	UMESH JOSHI	23	N
90	18EGICS100	VARSHA PALIWAL	21	N
91	18EGICS101	VEER BHADRA SINGH SOLANKI	23	N
92	18EGICS102	VIDHYANSHI KHETPALIYA	22	N
93	18EGICS103	VIKAS SHARMA	21	N
94	18EGICS104	VIPLOV JIWNANI	24	N
95	18EGICS105	VISHESH VYAS	22	N
96	18EGICS106	YASH RAJ SINGH CHOUHAN	24	N
97	18EGICS107	YASH RAJ SINGH NARUKA	23	N
98	18EGICS108	YASH SEN	23	N
99	18EGICS109	YASH SONI	21	N
100	18EGICS110	YASHASVEE BASOTIA	24	N
101	18EGICS111	YOGESH KUMAR SUTHAR	20	N

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102	D2D	AAKANSHA DUBEY	NA	N
103	D2D	KUNAL MALVI	NA	N
104	D2D	RATAN SINGH	NA	N
105	D2D	SACHIN TOLLANI	NA	N
106	D2D	VRASHABH PURBIA	NA	N

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Signature of HOD

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Remedial Action Taken for Slow Learners (After Mid- Term 1)

S.No.	University Roll no.	Name of Student	Topics to be discussed in Remedial Class	Schedule Date of Remedial Class	Outcome
1	18EGICS041	KANAKLATA SHAKTAWAT	Class and Objects, Constructors and Destructors, ,Friend Functions, References, Inheritance	3/9/19 & 4/9/19	CO _{23406.1} , CO _{23406.2} , CO _{23406.3}
2	18EGICS064	PRANJAL NATHANIEL	Class and Objects, Constructors and Destructors, ,Friend Functions, References, Inheritance	3/9/19 & 4/9/19	CO _{23406.1} , CO _{23406.2} , CO _{23406.3}

Signature of Faculty :

Signature of HOD


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Mid Term Exam – II

Question Paper

GEETANJALI INSTITUTE OF TECHNICAL STUDIES

COMPUTER SCIENCE AND ENGINEERING

I INTERNAL EXAMINATION

II YEAR III SEMESTER SECTION A AND B

3CS4-06 OBJECT ORIENTED PROGRAMMING

Maximum Marks-24

Time-1:30 Hours

Q.No.	Question	Marks	BL	CO
PART A(Compulsory)				
Q.1	Define Abstract Classes with its need.	1	1	CO23406.3
Q.2	Define limitation of overloading unary increment/decrement postfix/Prefix operator in a single program.	1	1	CO23406.4
Q.3	Define Virtual Function and its need.	1	1	CO23406.4
Q.4	Define C++ Stream classes.	1	1	CO23406.5
Q.5	Define various File opening modes.	1	1	CO23406.5
PART B (Attempt Three out of Four)				
Q.6	Explain Static Data Members and Member Functions with their properties. Also write a program to count number of objects created for a particular class using static data member.	3	2	CO23406.4
Q.7	Write a program to make a class named "String" which uses concept of operator overloading to concatenate two strings by + operator.	3	3	CO23406.4
Q.8	Explain Template Class and Template Function. Explain how it supports Generic Programming. Write a program to implement swapping using Templates.	3	2,3	CO23406.5
Q.9	Explain File Handling with its advantages. Explain opening of file with the help of constructor and open function with example. Write a program to write n number of employees data supplied by a user in a file and read it again from the file and display on the screen	3	2,3	CO23406.5
PART C (Attempt Two out of Three)				
Q.10	Explain Virtual Base Class. Explain why we make a class Virtual. Explain with example.	5	2	CO23406.3

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Q.11	Explain Operator Overloading with its need, syntax, restrictions and limitations. Explain the process of overloading Unary and Binary Operators with member functions as well as friend functions with examples.	5	2	CO23406.4
Q.12	Explain types of exceptions and Exception Handling mechanism in detail with their syntax and example.	5	2	CO23406.5
	ALL THE BEST			

BL – Bloom's Taxonomy Levels (1- Remembering, 2- Understanding, 3 – Applying, 4 – Analyzing, 5 – Evaluating, 6 - Creating)

CO – Course Outcomes


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Marks and Identification of Slow Learners of Mid-Term II

S.No.	University Roll No.	Name of Student	Mid-Term II MM-24	Remedial Classes needed or not – Y/N*
1	18EGICS001	AAKANKSHA SAMOTA	23	N
2	18EGICS002	ABDUL QADIR	22	N
3	18EGICS003	ABHISHEK LAKSHKAR	19	Y
4	18EGICS004	ABHISHEK SOLANKI	21	N
5	18EGICS006	AMAN THAKUR	22	N
6	18EGICS007	AMISHA SONI	19	Y
7	18EGICS008	AMIT SUTHAR	20	N
8	18EGICS009	AMRITESH SAINI	19	Y
9	18EGICS011	ANJALI VYAS	23	N
10	18EGICS012	ANSH KUMAR SONI	22	N
11	18EGICS013	ANUBHUTI JHA	23	N
12	18EGICS014	ARYAN DADHEECH	23	N
13	18EGICS015	ATUL SUTHAR	22	N
14	18EGICS016	AYUSH YADAV	21	N
15	18EGICS017	AYUSHMAAN PATEL	22	N
16	18EGICS018	BHAVIKA RAJORA	20	N
17	18EGICS019	BHAVUK SETH	21	N
18	18EGICS020	BHAVYA SONI	23	N
19	18EGICS021	BHOWMICK VYAS	20	N
20	18EGICS023	CHIRAG NENWA	22	N
21	18EGICS024	DALPAT I	22	N
22	18EGICS025	DARSHAN SHRIMALI	23	N
23	18EGICS026	DINESH KUMAR	20	N

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24	18EGICS027	DIVYA SONI	22	N
25	18EGICS028	GARIMA SONI	22	N
26	18EGICS029	GYANENDRA KUMAR	23	N
27	18EGICS030	HARSHIT PALIWAL	20	N
28	18EGICS031	HARSHITA JAIN	23	N
29	18EGICS032	HARSHITA SINGHVI	21	N
30	18EGICS034	HIMANSHI PALIWAL	22	N
31	18EGICS035	HITESH VAGHELA	21	N
32	18EGICS036	HRITIK KOTHARI	19	Y
33	18EGICS037	HRITVIK GUPTA	23	N
34	18EGICS038	JAYA SISODIYA	22	N
35	18EGICS039	JINKAL NAGDA	22	N
36	18EGICS040	JYOTI ATOLIYA	21	N
37	18EGICS041	KANAKLATA SHAKTAWAT	18	Y
38	18EGICS042	KAPIL RAJPAL	21	N
39	18EGICS043	KARTIK AGARWAL	21	N
40	18EGICS044	KASHISH JOSHI	20	N
41	18EGICS046	KRISHNAPAL SINGH DEORA	23	N
42	18EGICS047	KRISHNAVEER SINGH	23	N
43	18EGICS048	KRITARTH KUMAR JHA	22	N
44	18EGICS049	KUSHAL RAJPAL	22	N
45	18EGICS050	LAKSHYARAJ SINGH DALAWAT	21	N
46	18EGICS051	LOKESH BHATT	21	N
47	18EGICS052	LOVISHA JAIN	23	N
48	18EGICS053	MANDEEP JAIN	20	N
49	18EGICS055	MOHAMMAD ADNAN SHEIKH	21	N

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50	18EGICS056	MOHIT SONI	19	Y
51	18EGICS057	MOKSHIKA KOTHARI	22	N
52	18EGICS059	NISHITA RAWAT	23	N
53	18EGICS060	PAYAL MANGHNANI	20	N
54	18EGICS061	PRAFULL RAJ SONI	19	Y
55	18EGICS062	PRAJAPATI DIPAK SHANTILAL	21	N
56	18EGICS063	PRAJAPATI OMPRAKASH HEMARAJBHAI	21	N
57	18EGICS064	PRANJAL NATHANIEL	18	Y
58	18EGICS065	PRATHAM SWARNKAR	20	N
59	18EGICS067	PRIYA JAWARIYA	22	N
60	18EGICS068	PRIYAL SONI	19	Y
61	18EGICS069	PRIYANSH K SAKARWAL	19	Y
62	18EGICS070	PRIYANSHA LODHA	20	N
63	18EGICS071	PRIYANSHU SANKHALA	23	N
64	18EGICS072	PRIYASH GARG	19	Y
65	18EGICS073	PURVA DINESH VIJAYVARGIYA	22	N
66	18EGICS074	PURVA SONI	21	N
67	18EGICS075	PURVI AGRAWAL	21	N
68	18EGICS076	RAGHVENDRA SINGH	20	N
69	18EGICS078	RAUNAK BHANAWAT	20	N
70	18EGICS079	REDDY SURYA MANOJ	20	N
71	18EGICS080	RITIK NANAWATI	24	N
72	18EGICS081	RITVIKA NAIR	20	N
73	18EGICS082	RIYA AGARWAL	24	N
74	18EGICS083	ROHAN SHARMA	21	N
75	18EGICS084	RONAK ISRANI	20	N

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76	18EGICS085	RONAK RATHORE	19	Y
77	18EGICS086	SANDHYA KUNWAR SISODIYA	20	N
78	18EGICS087	SEJAL RATHOR	21	N
79	18EGICS088	SHOAIB KHAN	19	Y
80	18EGICS089	SHUBHAM MATHUR	20	N
81	18EGICS090	SHUBHAM SONI	23	N
82	18EGICS091	SONA AMETA	22	N
83	18EGICS092	SOURAV PALIWAL	19	Y
84	18EGICS093	TANAY SHARMA	20	N
85	18EGICS094	TANMAY MATHUR	23	N
86	18EGICS095	TANMAY PALIWAL	20	N
87	18EGICS096	TUSHAR KUMAR PRAJAPATI	21	N
88	18EGICS097	TWINKLE JANWA	23	N
89	18EGICS098	UMESH JOSHI	22	N
90	18EGICS100	VARSHA PALIWAL	20	N
91	18EGICS101	VEER BHADRA SINGH SOLANKI	22	N
92	18EGICS102	VIDHYANSHI KHETPALIYA	21	N
93	18EGICS103	VIKAS SHARMA	20	N
94	18EGICS104	VIPLOV JIWNANI	23	N
95	18EGICS105	VISHESH VYAS	21	N
96	18EGICS106	YASH RAJ SINGH CHOUHAN	23	N
97	18EGICS107	YASH RAJ SINGH NARUKA	22	N
98	18EGICS108	YASH SEN	22	N
99	18EGICS109	YASH SONI	20	N
100	18EGICS110	YASHASVEE BASOTIA	23	N
101	18EGICS111	YOGESH KUMAR SUTHAR	19	Y

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102	D2D	AAKANSHA DUBEY	23	N
103	D2D	KUNAL MALVI	23	N
104	D2D	RATAN SINGH	23	N
105	D2D	SACHIN TOLLANI	22	N
106	D2D	VRASHABH PURBIA	21	N

*(Y, if obtained marks are <20)

Signature of Faculty :

Signature of HOD :

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Remedial Action Taken for Slow Learners (After Mid- Term II)

S.No.	University Roll no.	Name of Student	Topics to be discussed in Remedial Class	Schedule Date of Remedial Class	Course Outcome
1.	18EGICS003	ABHISHEK LAKSHKAR	Abstract Class, Virtual Base Class, Operator Overloading, Run Time Polymorphism, Template, File Handling ,Exception Handling	21/11/19 & 22/11/19	CO23406.3, CO23406.4, CO23406.5
2.	18EGICS007	AMISHA SONI	Abstract Class, Virtual Base Class, Operator Overloading, Run Time Polymorphism, Template, File Handling ,Exception Handling	21/11/19 & 22/11/19	CO23406.3, CO23406.4, CO23406.5
3.	18EGICS009	AMRITESH SAINI	Abstract Class, Virtual Base Class, Operator Overloading, Run Time Polymorphism, Template, File Handling ,Exception Handling	21/11/19 & 22/11/19	CO23406.3, CO23406.4, CO23406.5
4.	18EGICS036	HRITIK KOTHARI	Abstract Class, Virtual Base Class, Operator Overloading, Run Time Polymorphism, Template, File Handling ,Exception Handling	21/11/19 & 22/11/19	CO23406.3, CO23406.4, CO23406.5
5.	18EGICS041	KANAKLATA SHAKTAWAT	Abstract Class, Virtual Base Class, Operator Overloading, Run Time Polymorphism, Template, File Handling ,Exception Handling	21/11/19 & 22/11/19	CO23406.3, CO23406.4, CO23406.5
6.	18EGICS056	MOHIT SONI	Abstract Class, Virtual Base Class, Operator Overloading, Run Time Polymorphism,	21/11/19 &	CO23406.3, CO23406.4, CO23406.5

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			Template, File Handling ,Exception Handling	22/11/19	
7.	18EGICS061	PRAFULL RAJ SONI	Abstract Class, Virtual Base Class, Operator Overloading, Run Time Polymorphism, Template, File Handling ,Exception Handling	21/11/19 & 22/11/19	CO23406.3, CO23406.4, CO23406.5
8.	18EGICS064	PRANJAL NATHANIEL	Abstract Class, Virtual Base Class, Operator Overloading, Run Time Polymorphism, Template, File Handling ,Exception Handling	21/11/19 & 22/11/19	CO23406.3, CO23406.4, CO23406.5
9.	18EGICS068	PRIYAL SONI	Abstract Class, Virtual Base Class, Operator Overloading, Run Time Polymorphism, Template, File Handling ,Exception Handling	21/11/19 & 22/11/19	CO23406.3, CO23406.4, CO23406.5
10.	18EGICS069	PRIYANSH K SAKARWAL	Abstract Class, Virtual Base Class, Operator Overloading, Run Time Polymorphism, Template, File Handling ,Exception Handling	21/11/19 & 22/11/19	CO23406.3, CO23406.4, CO23406.5
11.	18EGICS072	PRIYASH GARG	Abstract Class, Virtual Base Class, Operator Overloading, Run Time Polymorphism, Template, File Handling ,Exception Handling	21/11/19 & 22/11/19	CO23406.3, CO23406.4, CO23406.5
12.	18EGICS085	RONAK RATHORE	Abstract Class, Virtual Base Class, Operator Overloading, Run Time Polymorphism, Template, File Handling ,Exception	21/11/19 & 22/11/19	CO23406.3, CO23406.4, CO23406.5

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			Handling		
13.	18EGICS088	SHOAIB KHAN	Abstract Class, Virtual Base Class, Operator Overloading, Run Time Polymorphism, Template, File Handling ,Exception Handling	21/11/19 & 22/11/19	CO23406.3, CO23406.4, CO23406.5
14.	18EGICS092	SOURAV PALIWAL	Abstract Class, Virtual Base Class, Operator Overloading, Run Time Polymorphism, Template, File Handling ,Exception Handling	21/11/19 & 22/11/19	CO23406.3, CO23406.4, CO23406.5
15.	18EGICS111	YOGESH KUMAR SUTHAR	Abstract Class, Virtual Base Class, Operator Overloading, Run Time Polymorphism, Template, File Handling ,Exception Handling	21/11/19 & 22/11/19	CO23406.3, CO23406.4, CO23406.5

Signature of Faculty :

Signature of HOD :

Name of faculty: Ms. Charu Kavadia

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Model Question Paper with Key Solution

Q.No.	Question	Marks	CO
	PART A(Compulsory)		
Q.1	Define uses of Scope Resolution Operator(::) .	2	CO23406.1
Ans	Scope resolution operator (::) in C++ programming language is used to:- a)To define a function outside a class. b)When we want to use a global variable but also has a local variable with the same name.		
Q.2	Define Access Specifiers in C++.	2	CO23406.1
Ans	Access Specifiers:- Access modifiers or Access Specifiers in a class are used to set the accessibility of the class members. That is, it sets some restrictions on the class members not to get directly accessed by the outside functions. Types of Access Specifiers a)Public - The members declared as Public are accessible from outside the Class through an object of the class. b)Protected - The members declared as Protected are accessible from outside the class BUT only in a class derived from it. c)Private - These members are only accessible from within the class.		
Q.3	Define Function Overloading.	2	CO23406.2
Ans	C++ allows you to specify more than one definition for a function name in the same scope, which is called function overloading. It is a type of Compile Time Polymorphism,		
Q.4	Give differences between inline functions and macros.	2	CO23406.2
Ans	The basic differences between inline and macro are:- 1)An inline functions are parsed by the compiler whereas, the macros in a program are expanded by preprocessor. 2)The keyword used to define an inline function is "inline" whereas, the keyword used to define a macro is "#define".		

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Q.5	Define Multiple Inheritance.	2	CO23406.3
Ans	Multiple inheritance is a feature of some object-oriented computer programming languages in which an object or class can inherit characteristics and features from more than one parent object or parent class.		
Q.6	Define Virtual Base Class and its need.	2	CO23406.3
Ans	Definition and Need:- When two or more objects are derived from a common base class, we can prevent multiple copies of the base class being present in an object derived from those objects by declaring the base class as virtual when it is being inherited. Such a base class is known as virtual base class. This can be achieved by preceding the base class' name with the word virtual.		
Q.7	Define Static data Member and Member Function with its need	2	CO23406.4
Ans	<p>Static Data Member:- A static member is shared by all objects of the class, all static data is initialized to zero when the first object is created, if no other initialization is present.</p> <p>Static Member Function:- A static member function can only access static data member, other static member functions and any other functions from outside the class.</p> <p>Need:- By declaring a function member as static, we make it independent of any particular object of the class. A static member function can be called even if no objects of the class exist and the static functions are accessed using only the class name and the scope resolution operator :: .</p>		
Q.8	Define Operator Overloading with the operators which cannot be overloaded.	2	CO23406.4
Ans	<p>Definition:- In C++, we can make operators to work for user defined classes. This means C++ has the ability to provide the operators with a special meaning for a data type, this ability is known as operator overloading.</p> <p>For example, we can overload an operator '+' in a class like String so that we can concatenate two strings by just using +.</p> <p>Operators which can't be overloaded:-</p> <p>a) . (dot)</p> <p>b) ::</p>		

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	c) ?:		
	d) sizeof		
Q.9	Define File opening with the help of constructors and open method.	2	CO23406.5
Ans	<p>available (opened) for processing.</p> <p>Opening of files can be achieved in the following two ways :</p> <p>a) Using the constructor function of the stream class.</p> <p>Example:- ifstream fin("myfile", ios::in);</p> <p>The above given statement creates an object, fin, of input file stream. The object name is a user-defined name (i.e., any valid identifier name can be given). After creating the ifstream object fin, the file myfile is opened and attached to the input stream, fin. Now, both the data being read from myfile has been channelised through the input stream object.</p> <p>b) Using the function open().</p> <p>Example:- ofstream fout("secret" ios::out);</p> <p>This would create an output stream, object named as fout and attach the file secret with it.</p>		
Q.10	Define exceptions and their types.	2	CO23406.5
Ans	<p>Definition:- An exception is a problem that arises during the execution of a program. A C++ exception is a response to an exceptional circumstance that arises while a program is running, such as an attempt to divide by zero.</p> <p>Types of Exceptions:-</p> <p>a) Asynchronous Exception:- Those errors that are caused by events beyond the control of the program are called Asynchronous Exceptions. Example-Keybaord Interrupt etc.</p> <p>b) Synchronous Exception:- Those errors that are caused by events beyond the control of the program are called Synchronous Exceptions. Example:- out of range index and overflow etc.</p>		
	PART B (Attempt Five out of Seven)		
Q.11	Describe the mechanism of accessing data members and member	8	CO23406.1

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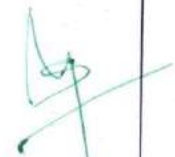
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	<p>functions in the following case:-</p> <p>(i) inside the main program.</p> <p>(ii) Inside the member function of the same class.</p>		
Ans	<p>(i) inside the main program.</p> <p>The mechanism of accessing data members and member functions in the following cases is done by using object and dot membership operator(but for that data members and member functions should be declared under public access specifier, else they can't be accessed in main program,i.e. outside class).</p> <p>Example:-</p> <pre> class Cube { public: int side; int getVolume() { return side*side*side; //returns volume of cube } }; int main() { Cube C1; C1.side=4; // setting side data member using object cout<< "Volume of cube C1 ="<< C1.getVolume(); //calling member return 0; using } </pre> <p>(ii) Inside the member function of the same class.</p>	function	object



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A member function can be accessed by another member function (known as nesting of member function) of the same class using the syntax: functionName(Arguments);

A data member can be accessed inside a class' member function by just mentioning its name and by default that data member belongs to that object which has called that member function.

Example:-

```
class Student
```

```
{
```

```
private: // private data member
```

```
int rollno;
```

```
public: // public accessor and mutator functions
```

```
int getRollno()
```

```
{
```

```
return rollno; // using data member inside a member function
```

```
}
```

```
void setRollno(int i)
```

```
{
```

```
rollno=i; // using data member inside a member function
```

```
}
```

```
};
```

```
int main()
```

```
{
```

```
Student A;
```



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	<pre>A.setRollno(1); //Rollno initialized to 1 cout<< A.getRollno(); //Output will be 1 return 0; }</pre>		
Q.12	<p>Create a structure to specify data of customers in a bank. The data to be stored is:-Account number, Name , Balance in account. Assume maximum of 20 customers in the bank:-</p> <p>(i)Write a function to print the account number and name of each customer with balance below Rs 100.</p> <p>(ii) If a customer request for withdrawl or deposit, it is given in the form:-</p> <p>Acct.no, amount,code {1 for deposit, 0 for withdrawl}. Write a C++ program to give the message,"The balance is insufficient for specified withdrawl".</p>	8	CO23406.1
Ans	<pre>#include<iostream> #include<conio.h> using namespace std; struct bank { int acc_no, balance; char name[50]; void setData() { cout<<"\nEnter account number"; cin>>acc_no; cout<<"Enter Name"; cin>>name; cout<<"Enter Balance"; cin>>balance;</pre>		


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```
}  
  
void showData()  
{  
    if(balance<100)  
    {  
        cout<<"\n.....Customer details having balance less than 100  
Rs.....";  
  
        cout<<"\nAccount No="<<acc_no;  
  
        cout<<"\nName="<<name;  
    }  
}  
  
void withdraw(int amount,int acnt)  
{  
    if(acc_no==acnt && (balance<=0 || balance<amount))  
    {  
        cout<<"\nThe balance is insufficient for specified  
withdrawal";  
    }  
  
    else if(acc_no==acnt && amount<balance)  
    {  
        balance=balance-amount;  
  
        cout<<"\n"<<amount<<" is withdrawn.";  
    }  
}  
  
void deposit(int amt,int acnt)  
{  
    if(acc_no==acnt)
```

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```
{
    balance=balance+amt;

    cout<<"\nRs. "<<amt<<"deposited in your account.";

    cout<<"\nAvailable balance is:"<<balance;

}

};

int main()
{
    int choice,amnt,i,acnt_no;

    bank bobj[20];

    cout<<"\nEnter customer's Details:";

    for(i=0;i<20;i++)
    {
        bobj[i].setData();
    }

    cout<<"\n\n.....Customer's Details are.....";

    for(i=0;i<20;i++)
    {
        bobj[i].showData();
    }

    // clrscr();

    cout<<"\n\n\n.....Welcome.....";

    cout<<"\n\nPress: 0 for withdrawal/1 for Deposit.";


    cin>>choice;

    if(choice==0)
```

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```
{  
  
    cout<<"\nEnter amount to withdraw:";  
  
    cin>>amnt;  
  
    cout<<"\nEnter Account Number:";  
  
    cin>>acnt_no;  
  
    for(i=0;i<20;i++)  
    {  
  
        bobj[i].withdraw(amnt,acnt_no);  
  
    }  
}  
else if(choice==1)  
{  
:  
    cout<<"\nEnter amount to deposit:";  
  
    cin>>amnt;  
  
    cout<<"\nEnter Account Number:";  
  
    cin>>acnt_no;  
  
    for(i=0;i<20;i++)  
    {  
  
        bobj[i].deposit(amnt,acnt_no);  
  
    }  
}  
else  
{  
  
    cout<<"\nWrong choice.";  
  
}  
}
```


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Q.13	Explain mechanism of accessing a private data member of the class from a non-member function and justify it with a program in C++ to swap private data members of two classes. Also discuss the characteristics and need of the mechanism.	8	CO23406.2
Ans	<p>A Friend Function of a class is defined outside that class' scope but it has the right to access all private and protected members of the class. Even though the prototypes for friend functions appear in the class definition, friends are not member functions.</p> <p>Program in C++ to swap private data members of two classes:-</p> <pre>#include <iostream.h> #include <conio.h> Using namespace std; class b; class a { int x; public: void assign(int t) { x =t; } void display() { cout<<"value of x is: "<<x<<endl; } friend void swap(a&,b&); }; class b</pre>		

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```
{  
  
int y;  
  
public:  
  
void assign(int w)  
  
{  
  
y=w;  
  
}  
  
void display()  
  
{  
  
cout<<"value of y is: "<<y<<endl;  
  
}  
  
friend void swap(a&,b&);  
  
};  
  
void swap(a& c,b& d)  
  
{  
  
int temp;  
  
temp =c.x;  
  
c.x = d.y;  
  
d.y = temp;  
  
}  
  
int main()  
  
{  
  
a n;  
  
b m;  
  
inta,b;  
  
cout<<"enter x =";  
  
cin>>a;  
  
cout<<"Enter y =";
```


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	<pre>cin>>b; n.assign(a); m.assign(b); swap(n,m); n.display(); m.display(); getch(); }</pre>		
Q.14	Explain the concept of references in C++ with its applications. Design a C++ program to swap two numbers using call by reference.	8	CO23406.2
Ans	<p>Reference Variables:-A reference variable is an alias, that is, another name for an already existing variable. Once a reference is initialized with a variable, either the variable name or the reference name may be used to refer to the variable.</p> <p>Applications</p> <p>a)To create dummy variable.</p> <p>b)To pass arguments as reference in function.</p> <p>C++ program to swap two numbers using call by reference</p> <pre>#include<iostream> using namespace std; void swap(int &,int &); int main() { int a,b; cout<<"Enter Value Of A:"; cin>>a;</pre>		 DIRECTOR Geetanjali Institute of Technical Studies Dabok, UDAIPUR-313022 (Raj.)

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	<pre> cout<<"Enter Value of B:"; cin>>b; cout<<"Before swapping\nValue of A is "<<a<<"\nValue of B is "<<b; swap(a,b); cout<<"\nOutside function a0fter swapping\nValue of A is"<<a<<"\nValue of B is"<<b; } void swap(int &a,int &b) { int c; c=a; a=b; b=c; cout<<"\nInside function after swapping\nValue of A is"<<a<<"\nValue of B is"<<b; } </pre>		
Q.15	Explain Abstract classes with its example and its application.	8	CO23406.3
Ans	<p>Definition:-Abstract Class is a class which contains atleast one Pure Virtual function in it.</p> <p>Need:-Abstract classes are used to provide an Interface for its sub classes. Classes inheriting an Abstract Class must provide definition to the pure-virtual function, otherwise they will also become abstract class.</p> <p>Characteristics of Abstract Class</p> <ol style="list-style-type: none"> 1. Abstract class cannot be instantiated, but pointers and refrences of Abstract class type can be created. 2. Abstract class can have normal functions and variables along with a pure virtual function. 3. Abstract classes are mainly used for Upcasting, so that its derived classes can use its interface. 4. Classes inheriting an Abstract Class must implement all pure virtual functions, or else they will become Abstract too. 		 DIRECTOR Geetanjali Institute of Technical Studies Dabok, UDAIPUR-313022 (Raj.)

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	<pre> cout<<"Enter Value of B:"; cin>>b; cout<<"Before swapping\nValue of A is "<<a<<"\nValue of B is "<<b; swap(a,b); cout<<"\nOutside function after swapping\nValue of A is"<<a<<"\nValue of B is"<<b; } void swap(int &a,int &b) { int c; c=a; a=b; b=c; cout<<"\nInside function after swapping\nValue of A is"<<a<<"\nValue of B is"<<b; } </pre>		
Q.15	Explain Abstract classes with its example and its application.	8	CO23406.3
Ans	<p>Definition:-Abstract Class is a class which contains atleast one Pure Virtual function in it.</p> <p>Need:-Abstract classes are used to provide an Interface for its sub classes. Classes inheriting an Abstract Class must provide definition to the pure virtual function, otherwise they will also become abstract class.</p> <p>Characteristics of Abstract Class</p> <ol style="list-style-type: none"> 1. Abstract class cannot be instantiated, but pointers and references of Abstract class type can be created. 2. Abstract class can have normal functions and variables along with a pure virtual function. 3. Abstract classes are mainly used for Upcasting, so that its derived classes can use its interface. 4. Classes inheriting an Abstract Class must implement all pure virtual functions, or else they will become Abstract too. 		 DIRECTOR Geetanjali Institute of Technical St Dabok, UDAIPUR-313022 (Ra

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	<p>Pure Virtual Functions</p> <p>Pure virtual Functions are virtual functions with no definition. They start with virtual keyword and ends with = 0. Here is the syntax for a pure virtual function,</p> <p>virtual void f() = 0;</p> <p>Example of Abstract Class</p> <pre>class Base //Abstract base class { public: virtual void show() = 0; //Pure Virtual Function }; class Derived:public Base { public: void show() { cout << "Implementation of Virtual Function in Derived class"; } }; int main() { Base obj; //Compile Time Error Base *b; Derived d; b = &d; b->show(); }</pre> <p>Output :</p> <p>Implementation of Virtual Function in Derived class</p> <p>In the above example Base class is abstract, with pure virtual show() function, hence we cannot create object of base class.</p>		
Q.16	Write a C++ Program to make a class named "string" which uses concept of operator overloading to compare two strings by (==) operator.	8	CO23406.4
Ans	#include<iostream>		<p>Director</p> <p>Geetanjali Institute of Technical Studies Dabok, UDAIPUR-313022 (Raj.)</p>

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```
#include<stdio.h>                                //used
for gets()

#include<string.h>                                //used for strcmp()

using namespace std;

class String
{
    char str[20];

    public:

    void
    getdata()                                    //function to read the string
    {

        gets(str);

    }

    //operator
    function to overload comparison operator and compare two strings

    int operator
    ==(String s)
    {

        if(!strcmp(str,s.str))

            return
            1;

            return
            0;

    }

};

main()
{

    String s1,s2;
```


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	<pre> cout<<"Enter first string:"; s1.getdata(); cout<<"Enter second string:"; s2.getdata(); if(s1==s2) //here the operator function will be called { cout<<"nStrigs are Equaln"; } else { cout<<"nStrings are Not Equaln"; } return 0; } </pre>		
Q.17	Explain try , throw and catch constructs used in C++ with their syntax. Write a program to deal with division by zero exception in C++.	8	CO23406.5
Ans	<p>An exception is a problem that arises during the execution of a program. A C++ exception is a response to an exceptional circumstance that arises while a program is running, such as an attempt to divide by zero.</p> <p>Exceptions provide a way to transfer control from one part of a program to another. C++ exception handling is built upon three keywords: try, catch, and throw.</p> <ul style="list-style-type: none"> throw – A program throws an exception when a problem shows up. This is done using a throw keyword. 		 DIRECTOR Geetanjali Institute of Technical Stud Dabok, UDAIPUR-313022 (Raj.)

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- **catch** – A program catches an exception with an exception handler at the place in a program where you want to handle the problem. The **catch** keyword indicates the catching of an exception.
- **try** – A **try** block identifies a block of code for which particular exceptions will be activated. It's followed by one or more catch blocks.

Assuming a block will raise an exception, a method catches an exception using a combination of the **try** and **catch** keywords. A try/catch block is placed around the code that might generate an exception. Code within a try/catch block is referred to as protected code, and the syntax for using try/catch as follows –


```
try {  
    // protected code  
} catch( ExceptionName e1 ) {  
    // catch block  
} catch( ExceptionName e2 ) {  
    // catch block  
} catch( ExceptionName eN ) {  
    // catch block  
}
```

We can list down multiple catch statements to catch different type of exceptions in case your try block raises more than one exception in different situations.

Throwing Exceptions

Exceptions can be thrown anywhere within a code block using throw statement. The operand of the throw statement determines a type for the exception and can be any expression and the type of the result of the expression determines the type of exception thrown.

Following is an example of throwing an exception when


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dividing by zero condition occurs –

```
double division(int a, int b) {  
    if( b == 0 ) {  
        throw "Division by zero condition!";  
    }  
    return (a/b);  
}
```

Catching Exceptions

The catch block following the try block catches any exception. You can specify what type of exception you want to catch and this is determined by the exception declaration that appears in parentheses following the keyword catch.

```
try {  
    //protected code  
} catch( ExceptionName e ) {  
    // code to handle ExceptionName exception  
}
```

Above code will catch an exception of ExceptionName type. If you want to specify that a catch block should handle any type of exception that is thrown in a try block, you must put an ellipsis, ..., between the parentheses enclosing the exception declaration as follows –

```
try {  
    // protected code  
} catch(...) {  
    // code to handle any exception  
}
```


Program which throws a division by zero exception and we

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catch it in catch block.

```
#include <iostream>
```

```
using namespace std;
```

```
double division(int a, int b) {
```

```
    if( b == 0 ) {
```

```
        throw "Division by zero condition!";
```

```
    }
```

```
    return (a/b);
```

```
}
```

```
int main () {
```

```
    int x = 50;
```

```
    int y = 0;
```

```
    double z = 0;
```

```
    try {
```

```
        z = division(x, y);
```

```
        cout << z << endl;
```

```
    } catch (const char* msg) {
```

```
        cerr << msg << endl;
```

```
    }
```

```
    return 0;
```

```
}
```

Because we are raising an exception of type const char*, so while catching this exception, we have to use const char* in catch block. If we compile and run above code, this would


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	produce the following result – Division by zero condition!		
	PART C (Attempt Four out of Five)		
Q.18	Explain all the concepts of Object Oriented Programming.	15	CO23406.1
Ans	<p>a) Class: Class is a blueprint of data and functions or methods. Class does not take any space.</p> <p>Syntax for class:</p> <pre>class class_name { private: //data members and member functions declarations public: //data members and member functions declarations protected: //data members and member functions declarations };</pre> <p>Class is a user defined data type like structures and unions in C.</p> <p>By default class variables are private but in case of structure it is public. in above example person is a class.</p> <p>b)Encapsulation and Data abstraction: Wrapping up(combing) of data and functions into a single unit is known as encapsulation. The data is not accessible to the outside world and only those functions which are wrapping in the class can access it. This insulation of the data from direct access by the program is called data hiding or information hiding.</p> <p>Data abstraction refers to, providing only needed information to the outside world and hiding implementation details. For example, consider a class Complex with public functions as getReal() and getImag(). We may implement the class as an array of size 2 or as two variables. The advantage of abstractions is, we can change implementation at any point, users of Complex class won't be affected as out method interface remains same. Had our implementation be public, we would not have been able to change it.</p> <p>c)Inheritance: inheritance is the process by which objects of one class acquire the properties of objects of another class. It supports the concept of hierarchical classification. Inheritance provides re usability. This means that we can add additional features to an existing class without modifying it.</p> <p>d)Polymorphism: polymorphism means ability to take more than one form. An operation may exhibit different behaviors in different instances. The behavior depends upon the types of data used in the operation.</p> <p>C++ supports operator overloading and function overloading. Operator overloading is the process of making an operator to exhibit</p>		 DIRECTOR Geetanjali Institute of Technical Stud Dabok, UDAIPUR-313022 (Raj.)

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	<p>different behaviors in different instances is known as operator overloading.</p> <p>Function overloading is using a single function name to perform different types of tasks.</p> <p>Polymorphism is extensively used in implementing inheritance.</p> <p>e)Dynamic Binding: In dynamic binding, the code to be executed in response to function call is decided at runtime. C++ has virtual functions to support this.</p> <p>f)Message Passing: Objects communicate with one another by sending and receiving information to each other. A message for an object is a request for execution of a procedure and therefore will invoke a function in the receiving object that generates the desired results. Message passing involves specifying the name of the object, the name of the function and the information to be sent.</p>		
Q.19	Explain Constructors with characteristics, types, syntax and examples. Also explain Destructor with example.	15	CO23406.2
Ans	<p>Constructors:-A class constructor is a special member function of a class that is executed whenever we create new objects of that class.</p> <p>Characterstics</p> <p>a)A constructor will have exact same name as the class and it does not have any return type at all, not even void.</p> <p>b)Constructors can be very useful for setting initial values for certain member variables.</p> <p>Types of Constructors and their Syntax</p> <ol style="list-style-type: none"> 1. Default constructor: <pre>classname() { }</pre> <ol style="list-style-type: none"> 2. Parameterized constructor: <pre>Classname(Argument list) { }</pre> <ol style="list-style-type: none"> 3. Copy Constructor: <pre>Classname(classname &referncevariable) { }</pre> <p>Destructor:-A destructor is a special member function of a class that is executed whenever an object of it's class goes out of scope or whenever the delete expression is applied to a pointer to the object of that class.</p> <p>A destructor will have exact same name as the class prefixed with a</p>		 <p>DIRECTOR Geetanjali Institute of Technical Studi: Dabok, UDAIPUR-313022 (Raj.)</p>

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	<p>tilde (~) and it can neither return a value nor can it take any parameters. Destructor can be very useful for releasing resources before coming out of the program like closing files, releasing memories etc.</p> <p>Example:</p> <pre>#include<iostream> usingnamespace std; classLine{ public: void setLength(double len); double getLength(void); Line();// This is the constructor declaration ~Line();// This is the destructor: declaration private: double length;}; Line::Line(void){ cout <<"Object is being created"<< endl;}Line::~~Line(void){ cout <<"Object is being deleted"<< endl;}voidLine::setLength(double len){ length = len;} doubleLine::getLength(void){ return length;} int main(){ Line line; // set line length line.setLength(6.0); cout <<"Length of line : "<< line.getLength()<<endl; return0;}</pre>		
Q.20	Explain Inheritance with its advantages and types. Explain each type with an example. Explain different inheritance Visibility Modifiers supported by C++.	15	<p>DIRECTOR Geetanjali Institute of Technical Studies Dabok, UDAIPUR-313022 (Raj.) CO23406.3</p>

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Ans

Inheritance:-Inheritance allows us to define a class in terms of another class, which makes it easier to create and maintain an application. This also provides an opportunity to reuse the code functionality and fast implementation time.

When creating a class, instead of writing completely new data members and member functions, the programmer can designate that the new class should inherit the members of an existing class. This existing class is called the baseclass, and the new class is referred as the derived class.

The idea of inheritance implements the is a relationship. For example, mammal IS-A animal, dog IS-A mammal hence dog IS-A animal as well and so on.

Base and Derived Classes

A class can be derived from more than one classes, which means it can inherit data and functions from multiple base classes. To define a derived class, we use a class derivation list to specify the base class(es). A class derivation list names one or more base classes and has the form

class derived-class: access-specifier base-class

Where access-specifier is one of public, protected, or private, and base-class is the name of a previously defined class. If the access-specifier is not used, then it is private by default.

Consider a base class Shape and its derived class Rectangle as follows

```
#include<iostream>
```

```
using namespace std;
```

```
using namespace std;
```

```
class Shape{
```

```
public:
```

```
void setWidth(int w){
```

```
    width = w;
```

```
}
```

```
void setHeight(int h){
```


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```

        height = h;
    }
protected:
    int width;
    int height;};
class Rectangle:public Shape{
public:
    int getArea(){
        return(width * height);
    };
    int main(void){
        Rectangle Rect;
        Rect.setWidth(5);
        Rect.setHeight(7);

        cout <<"Total area: "<<Rect.getArea()<< endl;
        return 0;}
    
```

When the above code is compiled and executed, it produces the following result –

Total area: 35

Advantages of Inheritance

- Reduce code redundancy.
- Provides code reusability.
- Reduces source code size and improves code readability.
- Code is easy to manage and divided into parent and child classes.
- Supports code extensibility by overriding the base class functionality within child classes.


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```
height = h;
}
protected:
int width;
int height;};
classRectangle:publicShape{
public:
int getArea(){
return(width * height);
}};
int main(void){
RectangleRect;
Rect.setWidth(5);
Rect.setHeight(7);
cout <<"Total area: "<<Rect.getArea()<< endl;
return0;}
```

When the above code is compiled and executed, it produces the following result –

Total area: 35

Advantages of Inheritance

- a) Reduce code redundancy.
- b) Provides code reusability.
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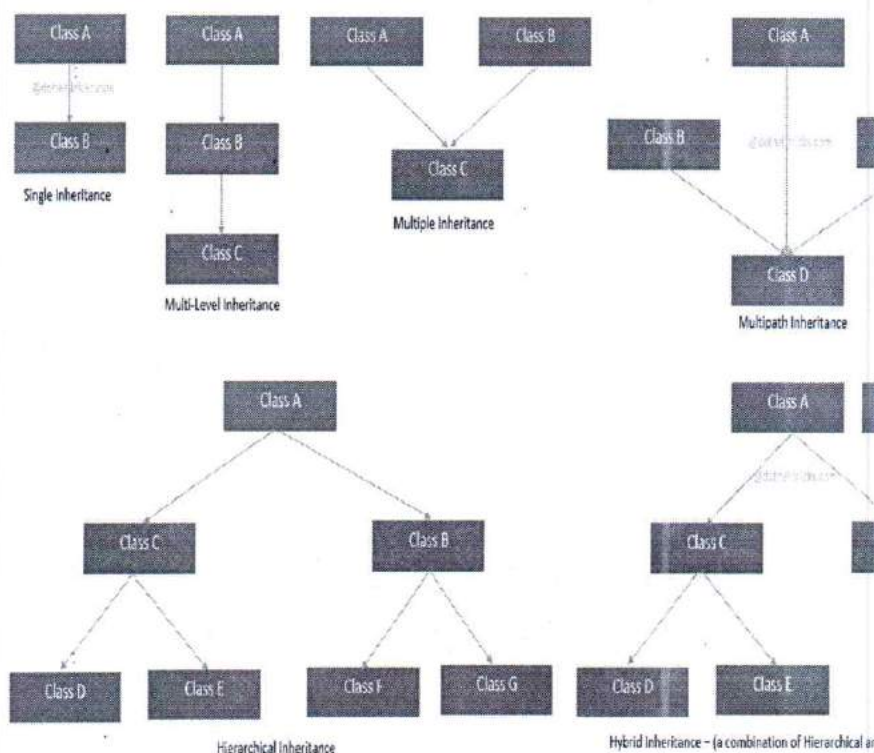
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Disadvantages of Inheritance

a) In Inheritance base class and child classes are tightly coupled. Hence If you change the code of parent class, it will get affects to the all the child classes.

b) In class hierarchy many data members remain unused and the memory allocated to them is not utilized. Hence affect performance of your program if you have not implemented inheritance correctly.

Types of Inheritance



a) Single inheritance:-In this inheritance, a derived class is created from a single base class.

b) Multi-level inheritance:-In this inheritance, a derived class is created from another derived class.

c) Multiple inheritance:-In this inheritance, a derived class is created from more than one base class.

d) Multipath inheritance:-In this inheritance, a derived class is created from another derived classes and the same base class of

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	<p>another derived classes.</p> <p>e) Hierarchical inheritance:- This is combination of more than one inheritance. Hence, it may be a combination of Multilevel and Multiple inheritance or Hierarchical and Multilevel inheritance or Hierarchical and Multipath inheritance or Hierarchical, Multilevel and Multiple inheritance.</p> <p>Visibility Modifier</p> <p>When deriving a class from a base class, the base class may be inherited through public, protected or private inheritance. The type of inheritance is specified by the Visibility Modifier as explained below:-</p> <p>Public Inheritance – When deriving a class from a public base class, public members of the base class become public members of the derived class and protected members of the base class become protected members of the derived class. A base class's privatemembers are never accessible directly from a derived class, but can be accessed through calls to the public and protected members of the base class.</p> <p>Protected Inheritance – When deriving from a protected base class, public and protected members of the base class become protected members of the derived class.</p> <p>Private Inheritance – When deriving from a private base class, public and protected members of the base class become privatemembers of the derived class.</p>		
Q.21	Explain Run Time Polymorphism with its advantages. Explain Virtual Functions with its need , properties and example.	15	CO23406.4
Ans	<p>Run Time Polymorphism:- In Late Binding function call is resolved at runtime. Hence, now compiler determines the type of object at runtime, and then binds the function call. Late Binding is also called Dynamic Binding or Runtime Binding or Run Time Polymorphism.</p> <p>Virtual Function:- Virtual Function is a function in base class, which is overridden in the derived class, and which tells the compiler to perform Late Binding on this function.</p> <p>Virtual Keyword is used to make a member function of the base class Virtual.</p> <p>Properties of Virtual Function</p> <p>1. They Must be declared in public section of class.</p>		 DIRECTOR Geetanjali Institute of Technical Studi. Dabok, UDAIPUR-313022 (Raj.)

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2. Virtual functions cannot be static and also cannot be a friend function of another class.
3. Virtual functions should be accessed using pointer or reference of base class type to achieve run time polymorphism.
4. The prototype of virtual functions should be same in base as well as derived class.
5. They are always defined in base class and overridden in derived class. It is not mandatory for derived class to override (or re-define the virtual function), in that case base class version of function is used.
6. A class may have virtual destructor but it cannot have a virtual constructor.

Problem without Virtual Keyword

class Base

{

public:

void show()

{

cout << "Base class";

}

};

class Derived:public Base

{

public:

void show()

{

cout << "Derived Class";

}

}

int main()

{

Base* b; //Base class pointer

Derived d; //Derived class object

b = &d;

b->show(); //Early Binding Occurs

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}

Output : Base class

When we use Base class's pointer to hold Derived class's object, base class pointer or reference will always call the base version of the function

Using Virtual Keyword

We can make base class's methods virtual by using virtual keyword while declaring them. Virtual keyword will lead to Late Binding of that method.

class Base

{

public:

virtual void show()

{

cout << "Base class";

}

};

class Derived:public Base

{

public:

void show()

{

cout << "Derived Class";

}

}

int main()

{

Base* b; //Base class pointer

Derived d; //Derived class object

b = &d;

b->show(); //Late Binding Occurs

}

Output : Derived class

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	On using Virtual keyword with Base class's function, Late Binding takes place and the derived version of function will be called, because base class pointer points to Derived class object.						
Q.22	Explain C++ stream classes in detail with examples. Explain File Opening modes in detail with example.	15	CO23406.5				
Ans	<p>A stream is a name given to a flow of data at the lowest level. At the lowest level, data is just the binary data without any notion of data type. Different streams are used to represent the different kinds of data flow such as whether data is flowing into the memory or out of the memory.</p> <p>Each stream is associated with a particular class, that contains the member functions and definitions for dealing with that particular kind of data flow. For instance, the ifstream class represents the input disk files.</p> <p>The stream that supplies data to the program is known as the input stream. It reads the data from the file and hands it over to the program. The stream that receives data from the program is known as output stream. It writes the received data to the file.</p> <p>The file I/O system of C++ contains a set of classes that define the file handling methods. These classes, designed to manage the disk files, are declared in the header file named fstream.h. Therefore, we must include this file in a program that works with files. The classes defined inside the header file, fstream.h, derive from the classes under the header file iostream.h, the header file that manages console I/O operations.</p> <p>Therefore, if you include the header file fstream.h in your file handling programs, you need not to include iostream.h header file as classes of fstream.h inherit from iostream.h only.</p> <p>The function of these classes have been summarized in the following table :</p> <table> <tr> <th>Class</th> <th>Functions</th> </tr> <tr> <td></td> <td></td> </tr> </table>	Class	Functions				
Class	Functions						

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filebuf	It sets the file buffers to read and write. It contains close() and open() member functions to it		
fstreambase	This is the base class for fstream, ifstream and ofstream classes. Therefore, it provides operations common to these file streams. It also contains the functions open() and close()		
ifstream	Being an input file stream class, it provides the input operations for file. It inherits the functions get(), getline(), read() and functions supporting random access (seekg() and tellg()) from istream class defined inside the header file iostream.h		
ofstream	Being an output file stream class, it provides the output operations. It inherits the functions put() and write() along with functions supporting random access (seekp() and tellp()) from ostream class defined inside the header file iostream.h		
fstream	It is an input-output file stream class. It provides support for the simultaneous input and output operations. It inherits all the functions from istream and ostream classes through the iostream class defined inside the header file iostream.h		

C++ File Streams Example

Here is a simple example program related to C++ file stream. This programs only ask to enter the file name and then to enter a line to store the line in this file.

```
/* C++ File Streams */
```

```
#include<conio.h>
```

```
#include<fstream.h>
```

```
#include<stdlib.h>
```

```
void main()
```

```
{
```

```
    char inform[80];
```

```
    char fname[20];
```

```
    char ch;
```

```
    clrscr();
```


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	<pre> cout<<"Enter file name: "; cin.get(fname, 20); ofstream fout(fname, ios::out); if(!fout) { cout<<"Error in creating the file..!!\n"; cout<<"Press any key to exit...\n"; getch(); exit(1); } cin.get(ch); cout<<"Enter a line to store in the file:\n"; cin.get(inform, 80); fout<<inform<<"\n"; cout<<"\nEntered informations successfully stored..!!\n"; fout.close(); cout<<"Press any key to exit...\n"; getch(); } </pre>		
	ALL THE BEST		

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UNIVERSITY QUESTION PAPER (LAST ONE YEAR)

3E1139	Roll No. _____	Total No of Pages: 4
	3E1139	
	B. Tech. III - Sem. (Main) Exam., Dec. - 2018	
	PCC Computer Science & Engineering 3CS4 - 06 Object Oriented Programming CS, IT	
Time: 3 Hours		Maximum Marks: 120

Instructions to Candidates:

Attempt all ten questions from Part A, selecting five questions from Part B and four questions from Part C.

Schematic diagrams must be shown wherever necessary. Any data you feel missing may suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.

Use of following supporting material is permitted during examination.
(Mentioned in form No. 205)

1. NIL _____

2. NIL _____

PART - A

(Answer should be given up to 25 words only)

[10×2=20]

All questions are compulsory

Q.1 What is copy constructor? Explain with suitable example.

Q.2 What is the purpose of using overloading operators?

Q.3 What is the output of the program

```
#include<iostream.h>
void main()
{
    int n=1;
    cout<<endl<<"The numbers are:"<<endl;
    do
    {
        cout<<n<<" ";
        n++;
    } while (n<=100);
    cout<<endl;
}
```

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- Q.4 Name the operators which cannot overload. What is the significance of scope resolution operators (::)?
- Q.5 What are the differences between class and structure in terms of memory allocation?
- Q.6 What are the differences between member function of a class and friend function?
- Q.7 What is Run-Time Error, Logical Error and Syntax Error?
- Q.8 Write a C++ program to implement pure virtual function.
- Q.9 What is the role of public, private and protected access specifiers within the class?
- Q.10 Write a C++ program using function template to swap two values.

PART – B

(Analytical/Problem solving questions)

[5×8=40]

Attempt any five questions

- Q.1 Write short notes on the following: **[4×2=8]**
- (a) Dynamic Binding
 - (b) Abstract Class
 - (c) New & delete
 - (d) Function Overriding
- Q.2 Design a class having the constructor and destructor functions that should display the number of objects being created or destroyed of class type. **[8]**
- Q.3 Write a template function that returns the average of all the elements of an array. The arguments to the function should be the array name and the size of the array (type int). In main (), exercise the function with arrays of type int, long, double, and char. **[8]**
- Q.4 Create a time class that includes integer member values for hours, minutes and seconds. Make a member function get_time() that gets a time value from the user, and a function put_time() that displays a time in 12:59:59 format. Add error checking to the get_time() function to minimize user mistakes. This function should request hours, minutes and seconds separately, and should check that the range should be in between 0 and 23, and minutes and seconds between 0 and 59. **[8]**


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Q.5 Write an inline function, factorial (int x), which returns the factorial of value x. Test the function by reading values from the keyboard. [8]

Q.6 Use for loops to construct a program that displays a pyramid on the screen. The pyramid should look like this [8]

```
1
121
12321
1234321
123454321
```

Q.7 What do you mean by Programming Paradigm? Describe the concept of message passing in Object Oriented Programming. [8]

PART - C

(Descriptive/Analytical/Problem Solving/Design Questions) [4×15=60]

Attempt any four questions

Q.1 Write a C++ program which will implement '=' binary operators. The overload class should contain one parameterized constructor to initialize default value to the member variable, and a display function to display value of member variables.

Q.2 Write C++ Program for the following statements.

- (a) What do you mean by inheritance? Implement multilevel inheritance with suitable example.
- (b) Write a C++ Program which will implement static function, friend function and member function of a class.

Q.3 Create a Class named "student" that contains roll_number, stu_name and course_name, father_name, DOB as data member and Input_student and display_student as member functions. Create A derived class named "exam" from the class named "student" with publicly inherited mode. The derived class contains members as mark1, mark2, mark3 as marks of three subjects and input_marks and display_results as member functions. Create an array of object of the "exam" class and display the result of 10 students.

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1
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12321
1234321
123454321
```
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- What do you mean by inheritance? Implement multilevel inheritance with suitable example.
  - Write a C++ Program which will implement static function, friend function and member function of a class.
- Q.3 Create a Class named "student" that contains roll\_number, stu\_name and course\_name, father\_name, DOB as data member and Input\_student and display\_student as member functions. Create A derived class named "exam" from the class named "student" with publicly inherited mode. The derived class contains members as mark1, mark2, mark3 as marks of three subjects and input\_marks and display\_results as member functions. Create an array of object of the "exam" class and display the result of 10 students.

[3E1139]

Page 3 of 4

[5680]

Name of faculty: Ms. Charu Kavadia

Subject with Code: Object Oriented Programming 3CS4-06

Teacher's Record Book

NBA CODE: C23406

  
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Q.4 Handle the following exceptions to input two integers from keyboard to perform division operation.

- (a) A try block to throw an exception when a wrong type of data is entered.
- (b) When division by zero occurs.

Write appropriate catch block to handle above exceptions which are thrown from "thrown block".

Q.5 Write a C++ program using file handling to perform the following operations.

- (a) A file named 'data.txt' contains number from 0 to 100. Open the 'data.txt' file in read mode.
  - (b) Read data from 'data.txt' file.
  - (c) If the number is odd, open a new file named 'odd.txt' and write the odd number into 'odd.txt' file.
  - (d) If the number is even, open a new file named 'even.txt' and write the even number into 'even.txt' file.
  - (e) Display the data of all the files.
-



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## STUDENT PERFORMANCE REPORT

| S. No. | University Roll No. | Student Name      | Mid-Term -1<br>Marks 24 | Mid-Term -2<br>Marks 24 | Assignment<br>Marks 6 | Mid Term<br>Average Marks +<br>Assignment<br>Marks<br>(24+6=30) |
|--------|---------------------|-------------------|-------------------------|-------------------------|-----------------------|-----------------------------------------------------------------|
| 1      | 18EGICS001          | AAKANKSHA SAMOTA  | 24                      | 23                      | 6                     | 30                                                              |
| 2      | 18EGICS002          | ABDUL QADIR       | 23                      | 22                      | 4                     | 27                                                              |
| 3      | 18EGICS003          | ABHISHEK LAKSHKAR | 20                      | 19                      | 5                     | 25                                                              |
| 4      | 18EGICS004          | ABHISHEK SOLANKI  | 22                      | 21                      | 5                     | 27                                                              |
| 5      | 18EGICS006          | AMAN THAKUR       | 23                      | 22                      | 5                     | 28                                                              |
| 6      | 18EGICS007          | AMISHA SONI       | 20                      | 19                      | 6                     | 26                                                              |
| 7      | 18EGICS008          | AMIT SUTHAR       | 21                      | 20                      | NS                    | 21                                                              |
| 8      | 18EGICS009          | AMRITESH SAINI    | 20                      | 19                      | 5                     | 25                                                              |
| 9      | 18EGICS011          | ANJALI VYAS       | 24                      | 23                      | 6                     | 30                                                              |
| 10     | 18EGICS012          | ANSH KUMAR SONI   | 23                      | 22                      | 6                     | 29                                                              |
| 11     | 18EGICS013          | ANUBHUTI JHA      | 24                      | 23                      | 5                     | 29                                                              |
| 12     | 18EGICS014          | ARYAN DADHEECH    | 24                      | 23                      | 5                     | 29                                                              |
| 13     | 18EGICS015          | ATUL SUTHAR       | 23                      | 22                      | 5                     | 28                                                              |
| 14     | 18EGICS016          | AYUSH YADAV       | 22                      | 21                      | 5                     | 27                                                              |
| 15     | 18EGICS017          | AYUSHMAAN PATEL   | 23                      | 22                      | 5                     | 28                                                              |
| 16     | 18EGICS018          | BHAVIKA RAJORA    | 21                      | 20                      | 5                     | 26                                                              |
| 17     | 18EGICS019          | BHAVUK SETH       | 22                      | 21                      | 5                     | 27                                                              |
| 18     | 18EGICS020          | BHAVYA SONI       | 24                      | 23                      | 5                     | 29                                                              |
| 19     | 18EGICS021          | BHOWMICK VYAS     | 21                      | 20                      | 5                     | 26                                                              |
| 20     | 18EGICS023          | CHIRAG NENWA      | 23                      | 22                      | 5                     | 28                                                              |
| 21     | 18EGICS024          | DALPAT I          | 23                      | 22                      | 5                     | 28                                                              |

Name of faculty: Ms. Charu Kavadia

Subject with Code: Object Oriented Programming 3CS4-06

Teacher's Record Book

NBA CODE: C23406

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|    |            |                          |    |    |   |    |
|----|------------|--------------------------|----|----|---|----|
| 22 | 18EGICS025 | DARSHAN SHRIMALI         | 24 | 23 | 4 | 28 |
| 23 | 18EGICS026 | DINESH KUMAR             | 21 | 20 | 5 | 26 |
| 24 | 18EGICS027 | DIVYA SONI               | 23 | 22 | 5 | 28 |
| 25 | 18EGICS028 | GARIMA SONI              | 23 | 22 | 5 | 28 |
| 26 | 18EGICS029 | GYANENDRA KUMAR          | 24 | 23 | 4 | 28 |
| 27 | 18EGICS030 | HARSHIT PALIWAL          | 21 | 20 | 4 | 25 |
| 28 | 18EGICS031 | HARSHITA JAIN            | 24 | 23 | 5 | 29 |
| 29 | 18EGICS032 | HARSHITA SINGHVI         | 22 | 21 | 5 | 27 |
| 30 | 18EGICS034 | HIMANSHI PALIWAL         | 23 | 22 | 5 | 28 |
| 31 | 18EGICS035 | HITESH VAGHELA           | 22 | 21 | 5 | 27 |
| 32 | 18EGICS036 | HRITIK KOTHARI           | 20 | 19 | 5 | 25 |
| 33 | 18EGICS037 | HRITTIK GUPTA            | 24 | 23 | 5 | 29 |
| 34 | 18EGICS038 | JAYA SISODIYA            | 23 | 22 | 5 | 28 |
| 35 | 18EGICS039 | JINKAL NAGDA             | 23 | 22 | 5 | 28 |
| 36 | 18EGICS040 | JYOTI ATOLIYA            | 22 | 21 | 5 | 27 |
| 37 | 18EGICS041 | KANAKLATA SHAKTAWAT      | 19 | 18 | 5 | 24 |
| 38 | 18EGICS042 | KAPIL RAJPAL             | 22 | 21 | 5 | 27 |
| 39 | 18EGICS043 | KARTIK AGARWAL           | 22 | 21 | 5 | 27 |
| 40 | 18EGICS044 | KASHISH JOSHI            | 21 | 20 | 6 | 27 |
| 41 | 18EGICS046 | KRISHNAPAL SINGH DEORA   | 24 | 23 | 6 | 30 |
| 42 | 18EGICS047 | KRISHNAVEER SINGH        | 24 | 23 | 5 | 29 |
| 43 | 18EGICS048 | KRITARTH KUMAR JHA       | 23 | 22 | 5 | 28 |
| 44 | 18EGICS049 | KUSHAL RAJPAL            | 23 | 22 | 5 | 28 |
| 45 | 18EGICS050 | LAKSHYARAJ SINGH DALAWAT | 22 | 21 | 5 | 27 |
| 46 | 18EGICS051 | LOKESH BHATT             | 22 | 21 | 5 | 27 |
| 47 | 18EGICS052 | LOVISHA JAIN             | 24 | 23 | 5 | 29 |

Name of faculty: Ms. Charu Kavadia

Subject with Code: Object Oriented Programming 3CS4-06

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|    |            |                                 |    |    |   |    |
|----|------------|---------------------------------|----|----|---|----|
| 48 | 18EGICS053 | MANDEEP JAIN                    | 21 | 20 | 5 | 26 |
| 49 | 18EGICS055 | MOHAMMAD ADNAN SHEIKH           | 22 | 21 | 5 | 27 |
| 50 | 18EGICS056 | MOHIT SONI                      | 20 | 19 | 5 | 25 |
| 51 | 18EGICS057 | MOKSHIKA KOTHARI                | 23 | 22 | 5 | 28 |
| 52 | 18EGICS059 | NISHITA RAWAT                   | 24 | 23 | 6 | 30 |
| 53 | 18EGICS060 | PAYAL MANGHNANI                 | 21 | 20 | 5 | 26 |
| 54 | 18EGICS061 | PRAFULL RAJ SONI                | 20 | 19 | 6 | 26 |
| 55 | 18EGICS062 | PRAJAPATI DIPAK SHANTILAL       | 22 | 21 | 5 | 27 |
| 56 | 18EGICS063 | PRAJAPATI OMPRAKASH HEMARAJBHAI | 22 | 21 | 6 | 28 |
| 57 | 18EGICS064 | PRANJAL NATHANIEL               | 19 | 18 | 5 | 24 |
| 58 | 18EGICS065 | PRATHAM SWARNKAR                | 21 | 20 | 6 | 27 |
| 59 | 18EGICS067 | PRIYA JAWARIYA                  | 23 | 22 | 5 | 28 |
| 60 | 18EGICS068 | PRIYAL SONI                     | 20 | 19 | 6 | 26 |
| 61 | 18EGICS069 | PRIYANSH K SAKARWAL             | 20 | 19 | 5 | 25 |
| 62 | 18EGICS070 | PRIYANSHA LODHA                 | 21 | 20 | 5 | 26 |
| 63 | 18EGICS071 | PRIYANSHU SANKHALA              | 24 | 23 | 5 | 29 |
| 64 | 18EGICS072 | PRIYASH GARG                    | 20 | 19 | 6 | 26 |
| 65 | 18EGICS073 | PURVA DINESH VIJAYVARGIYA       | 23 | 22 | 5 | 28 |
| 66 | 18EGICS074 | PURVA SONI                      | 22 | 21 | 5 | 27 |
| 67 | 18EGICS075 | PURVI AGRAWAL                   | 22 | 21 | 5 | 27 |
| 68 | 18EGICS076 | RAGHVENDRA SINGH                | 21 | 20 | 5 | 26 |
| 69 | 18EGICS078 | RAUNAK BHANAWAT                 | 21 | 20 | 5 | 26 |
| 70 | 18EGICS079 | REDDY SURYA MANOJ               | 21 | 20 | 5 | 26 |
| 71 | 18EGICS080 | RITIK NANAWATI                  | 24 | 24 | 6 | 30 |
| 72 | 18EGICS081 | RITVIKA NAIR                    | 21 | 20 | 5 | 26 |
| 73 | 18EGICS082 | RIYA AGARWAL                    | 24 | 24 | 6 | 30 |

Name of faculty: Ms. Charu Kavadia

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|    |            |                           |    |    |   |    |
|----|------------|---------------------------|----|----|---|----|
| 74 | 18EGICS083 | ROHAN SHARMA              | 22 | 21 | 5 | 27 |
| 75 | 18EGICS084 | RONAK ISRANI              | 21 | 20 | 5 | 26 |
| 76 | 18EGICS085 | RONAK RATHORE             | 20 | 19 | 5 | 25 |
| 77 | 18EGICS086 | SANDHYA KUNWAR SISODIYA   | 21 | 20 | 5 | 26 |
| 78 | 18EGICS087 | SEJAL RATHOR              | 22 | 21 | 5 | 27 |
| 79 | 18EGICS088 | SHOAIB KHAN               | 20 | 19 | 5 | 25 |
| 80 | 18EGICS089 | SHUBHAM MATHUR            | 21 | 20 | 5 | 26 |
| 81 | 18EGICS090 | SHUBHAM SONI              | 24 | 23 | 5 | 29 |
| 82 | 18EGICS091 | SONA AMETA                | 23 | 22 | 5 | 28 |
| 83 | 18EGICS092 | SOURAV PALIWAL            | 20 | 19 | 5 | 25 |
| 84 | 18EGICS093 | TANAY SHARMA              | 21 | 20 | 5 | 26 |
| 85 | 18EGICS094 | TANMAY MATHUR             | 24 | 23 | 5 | 29 |
| 86 | 18EGICS095 | TANMAY PALIWAL            | 21 | 20 | 5 | 26 |
| 87 | 18EGICS096 | TUSHAR KUMAR PRAJAPATI    | 22 | 21 | 5 | 27 |
| 88 | 18EGICS097 | TWINKLE JANWA             | 24 | 23 | 5 | 29 |
| 89 | 18EGICS098 | UMESH JOSHI               | 23 | 22 | 4 | 27 |
| 90 | 18EGICS100 | VARSHA PALIWAL            | 21 | 20 | 5 | 26 |
| 91 | 18EGICS101 | VEER BHADRA SINGH SOLANKI | 23 | 22 | 5 | 28 |
| 92 | 18EGICS102 | VIDHYANSHI KHETPALIYA     | 22 | 21 | 5 | 27 |
| 93 | 18EGICS103 | VIKAS SHARMA              | 21 | 20 | 5 | 26 |
| 94 | 18EGICS104 | VIPLOV JIWNANI            | 24 | 23 | 5 | 29 |
| 95 | 18EGICS105 | VISHESH VYAS              | 22 | 21 | 5 | 27 |
| 96 | 18EGICS106 | YASH RAJ SINGH CHOUHAN    | 24 | 23 | 5 | 29 |
| 97 | 18EGICS107 | YASH RAJ SINGH NARUKA     | 23 | 22 | 5 | 28 |
| 98 | 18EGICS108 | YASH SEN                  | 23 | 22 | 5 | 28 |
| 99 | 18EGICS109 | YASH SONI                 | 21 | 20 | 5 | 26 |

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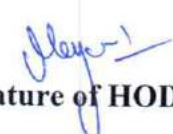
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|     |            |                     |    |    |   |    |
|-----|------------|---------------------|----|----|---|----|
| 100 | 18EGICS110 | YASHASVEE BASOTIA   | 24 | 23 | 5 | 29 |
| 101 | 18EGICS111 | YOGESH.KUMAR SUTHAR | 20 | 19 | 5 | 25 |
| 102 | D2D        | AAKANSHA DUBEY      | NA | 23 | 5 | 28 |
| 103 | D2D        | KUNAL MALVI         | NA | 23 | 5 | 28 |
| 104 | D2D        | RATAN SINGH         | NA | 23 | 5 | 28 |
| 105 | D2D        | SACHIN TOLLANI      | NA | 22 | 6 | 28 |
| 106 | D2D        | VRASHABH PURBIA     | NA | 21 | 5 | 26 |

  
Signature of Faculty :

  
Signature of HOD

Name of faculty: Ms. Charu Kavadia

Subject with Code: Object Oriented Programming 3CS4-06

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## RESULT ANALYSIS

Section-A: 96.08%

Section-B: 79.63%

### CO to PO & PSO Mapping (Target)

| Course Outcome | PO1  | PO2  | PO3  | PO4  | PO5  | PO6  | PO7  | PO8  | PO9  | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| CO23406.1      | 1    | 3    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 2    | 0    | 0    |
| CO23406.2      | 1    | 2    | 2    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 0    | 0    |
| CO23406.3      | 1    | 0    | 2    | 2    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 2    | 1    | 0    |
| CO23406.4      | 1    | 2    | 2    | 0    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 2    | 0    |
| CO23406.5      | 1    | 3    | 1    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 2    | 0    |
| C23406(AVG)    | 1.00 | 2.00 | 1.40 | 0.40 | 0.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.40 | 1.00 | 0.00 |

### CO to PO & PSO Mapping (Attainment)

| Course | PO1  | PO2  | PO3  | PO4  | PO5  | PO6  | PO7  | PO8  | PO9  | PO10 | PO11 | PO12 | PSO1 | PSO2 | PSO3 |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| C23406 | 0.53 | 0.96 | 0.71 | 0.22 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.73 | 0.44 | 0.00 |

### CO Attainment Level

| CO Attainment Calculation          | % of students get $\geq$ Target % | CO Attainment Level |
|------------------------------------|-----------------------------------|---------------------|
| No. of Students Attained CO11306.1 | 24                                | 1                   |
| No. of Students Attained CO11306.2 | 25                                | 1                   |
| No. of Students Attained CO11306.3 | 59                                | 2                   |
| No. of Students Attained CO11306.4 | 13                                | 2                   |
| No. of Students Attained CO11306.5 | 22                                | 1                   |

#### Rationale:

If 0-15% Students get  $\geq$  Target % then Attainment Level=0  
If 15-45% Students get  $\geq$  Target % then Attainment Level=1  
If 45-60% Students get  $\geq$  Target % then Attainment Level=2  
If 60-100% Students get  $\geq$  Target % then Attainment Level=3

Remarks:

Signature of Faculty :

Name of faculty: Ms. Charu Kavadia

Subject with Code: Object Oriented Programming 3CS4-06

Signature of HOD

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# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## I SEM A

Class teacher : Dr.Charu Khamsera, Dr.Deepika Sahu  
D1CR02

|    | 1<br>9:00 - 10:00                                                                             | 2<br>10:00 - 11:00          | 3<br>11:00 - 12:00          | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00                                                                                            | 6<br>2:00 - 3:00                                                                                                  | 7<br>3:00 - 4:00           |
|----|-----------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|-------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------|
| Mo | BCE<br>Rajanikant Suthar                                                                      | BME<br>Vijayendra S Sankhla | CHE<br>Dr.Charu Khamsera    |                   | MATHS<br>Dr.Varun Humad                                                                                     | D3LB01<br>CIVIL LAB<br>Rajanikant Suthar<br>Group 1<br>Che lab 1<br>CHEMISTRY LAB<br>Dr.Charu Khamsera<br>Group 2 |                            |
| Tu | MATHS<br>Dr.Varun Humad                                                                       | CHE<br>Dr.Charu Khamsera    | ENGLISH<br>Dr.Deepika Sahu  |                   | WORK SHOP I<br>WORKSHOP<br>Group 1<br>Surbhi Mishra<br>WORK SHOP II<br>WORKSHOP<br>Group 2<br>Lokesh Sharma |                                                                                                                   |                            |
| We | A2DH02<br>CAD LAB<br>Group 1<br>Mukesh Lohar<br>A2DH01<br>CAD LAB<br>Group 2<br>Preetam Singh |                             |                             |                   | BME<br>Vijayendra S Sankhla                                                                                 | CHE<br>Dr.Charu Khamsera                                                                                          | MATHS<br>Dr.Varun Humad    |
| Th | MATHS<br>Dr.Varun Humad                                                                       | CHE<br>Dr.Charu Khamsera    | BME<br>Vijayendra S Sankhla |                   | BCE<br>Rajanikant Suthar                                                                                    | Che lab 1<br>CHEMISTRY LAB<br>Dr.Charu Khamsera<br>Group 2<br>LANGUAGE LAB<br>Dr.Deepika Sahu<br>Group 1          |                            |
| Fr | MATHS<br>Dr.Varun Humad                                                                       | CHE<br>Dr.Charu Khamsera    | BCE<br>Rajanikant Suthar    |                   | ENGLISH<br>Dr.Deepika Sahu                                                                                  | LANGUAGE LAB<br>Dr.Deepika Sahu<br>Group 1<br>D2LB03<br>CIVIL LAB<br>Rajanikant Suthar<br>Group 2                 |                            |
| Sa | MATHS<br>Dr.Varun Humad                                                                       | BME<br>Vijayendra S Sankhla | BCE<br>Rajanikant Suthar    |                   | Soft Skill<br>Naveen Jain                                                                                   | CHE<br>Dr.Charu Khamsera                                                                                          | ENGLISH<br>Dr.Deepika Sahu |

Timetable generated: 26-07-2019

aSc Timetables

# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## I SEM B

Class teacher : Dr.Radha Chaudhary, Gajendra Porwal  
D1CR03

|    | 1<br>9:00 - 10:00           | 2<br>10:00 - 11:00                                                                                       | 3<br>11:00 - 12:00          | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00                                                                                            | 6<br>2:00 - 3:00                                                                                                  | 7<br>3:00 - 4:00          |
|----|-----------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------|-------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------|
| Mo | BME<br>Vijayendra S Sankhla | CHE<br>Dr.Radha Chaudhary                                                                                | ENGLISH<br>Anjali Dhabhai   |                   | LANGUAGE LAB<br>Anjali Dhabhai<br>Group 1<br>D2LB03<br>CIVIL LAB<br>NARENDRA PALIWAL<br>Group 2             |                                                                                                                   | MATHS<br>Gajendra Porwal  |
| Tu | MATHS<br>Gajendra Porwal    | CHE<br>Dr.Radha Chaudhary                                                                                | BME<br>Vijayendra S Sankhla |                   | BCE<br>Ajay Nagda                                                                                           | D3LB01<br>CIVIL LAB<br>NARENDRA PALIWAL<br>Group 1<br>Che lab 1<br>CHEMISTRY LAB<br>Dr.Radha Chaudhary<br>Group 2 |                           |
| We | MATHS<br>Gajendra Porwal    | CHE<br>Dr.Radha Chaudhary                                                                                | BCE<br>Ajay Nagda           |                   | WORK SHOP I<br>WORKSHOP<br>Group 1<br>Surbhi Mishra<br>WORK SHOP II<br>WORKSHOP<br>Group 2<br>Lokesh Sharma |                                                                                                                   |                           |
| Th | MATHS<br>Gajendra Porwal    | BME<br>Vijayendra S Sankhla                                                                              | CHE<br>Dr.Radha Chaudhary   |                   | D3DH01<br>CAD LAB<br>Group 1<br>Preetam Singh<br>A2DH01<br>CAD LAB<br>Group 2<br>Mukesh Lohar               |                                                                                                                   |                           |
| Fr | BCE<br>Ajay Nagda           | Che lab 1<br>CHEMISTRY LAB<br>Dr.Radha Chaudhary<br>Group 1<br>LANGUAGE LAB<br>Anjali Dhabhai<br>Group 2 |                             |                   | MATHS<br>Gajendra Porwal                                                                                    | CHE<br>Dr.Radha Chaudhary                                                                                         | ENGLISH<br>Anjali Dhabhai |
| Sa | MATHS<br>Gajendra Porwal    | BCE<br>Ajay Nagda                                                                                        | BME<br>Vijayendra S Sankhla |                   | CHE<br>Dr.Radha Chaudhary                                                                                   | Soft Skill<br>Naveen Jain                                                                                         | ENGLISH<br>Anjali Dhabhai |

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# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## I SEM C

Class teacher : Dr.Kiran Maheshwari, Dr. Gajendra Pal Singh  
D1CR04

|    | 1<br>9:00 - 10:00               | 2<br>10:00 - 11:00          | 3<br>11:00 - 12:00              | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00                                                                                            | 6<br>2:00 - 3:00                                                                                             | 7<br>3:00 - 4:00           |
|----|---------------------------------|-----------------------------|---------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------|
| Mo | BCE<br>Ajay Nagda               | CHE<br>Dr.Kiran Maheshwari  | MATHS<br>Dr. Gajendra Pal Singh |                   | D3DH01<br>CAD LAB<br>Group 1<br>Preetam Singh<br>A2DH01<br>CAD LAB<br>Group 2<br>K.S.Rahi                   |                                                                                                              |                            |
| Tu | CHE<br>Dr.Kiran Maheshwari      | BME<br>Vijayendra S Sankhla | BCE<br>Ajay Nagda               |                   | MATHS<br>Dr. Gajendra Pal Singh                                                                             | D2LB03<br>LANGUAGE LAB<br>Group 1<br>Dr.Sonila Saini<br>CIVIL LAB<br>Group 2<br>Ajay Nagda                   |                            |
| We | MATHS<br>Dr. Gajendra Pal Singh | BME<br>Vijayendra S Sankhla | CHE<br>Dr.Kiran Maheshwari      |                   | BCE<br>Ajay Nagda                                                                                           | Che lab 1<br>CHEMISTRY LAB<br>Group 1<br>Dr.Kiran Maheshwari<br>LANGUAGE LAB<br>Group 2<br>Dr.Sonila Saini   |                            |
| Th | MATHS<br>Dr. Gajendra Pal Singh | CHE<br>Dr.Kiran Maheshwari  | ENGLISH<br>Dr.Sonila Saini      |                   | WORK SHOP I<br>WORKSHOP<br>Group 1<br>Surbhi Mishra<br>WORK SHOP II<br>WORKSHOP<br>Group 2<br>Lokesh Sharma |                                                                                                              |                            |
| Fr | MATHS<br>Dr. Gajendra Pal Singh | ENGLISH<br>Dr.Sonila Saini  | CHE<br>Dr.Kiran Maheshwari      |                   | BME<br>Vijayendra S Sankhla                                                                                 | D3LB01<br>CIVIL LAB<br>Group 1<br>Ajay Nagda<br>Che lab 1<br>CHEMISTRY LAB<br>Group 2<br>Dr.Kiran Maheshwari |                            |
| Sa | MATHS<br>Dr. Gajendra Pal Singh | Soft Skill<br>Naveen Jain   | BCE<br>Ajay Nagda               |                   | BME<br>Vijayendra S Sankhla                                                                                 | ENGLISH<br>Dr.Sonila Saini                                                                                   | CHE<br>Dr.Kiran Maheshwari |

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# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## I SEM D

Class teacher : Dr. Rajbeer Sharma, Dr. Rekha Lahoti  
D1CR01

|    | 1<br>9:00 - 10:00         | 2<br>10:00 - 11:00        | 3<br>11:00 - 12:00        | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00                                                                          | 6<br>2:00 - 3:00                                                                                                    | 7<br>3:00 - 4:00           |
|----|---------------------------|---------------------------|---------------------------|-------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------|
| Mo | MATHS<br>Dr. Rekha Lahoti | BEE<br>Rameshwar Devra    | PHY<br>Dr. Rajbeer Sharma |                   | HV<br>Dr.Deepika Sahu                                                                     | Phy lab 1<br>PHYSICS LAB<br>Group 1<br>Dr. Rajbeer Sharma<br>HU LAB<br>Group 2<br>Dr.Deepika Sahu                   |                            |
| Tu | PFPS<br>Ritesh Kumar Jain | PHY<br>Dr. Rajbeer Sharma | MATHS<br>Dr. Rekha Lahoti |                   | A2DH01<br>CAD LAB<br>Group 1<br>Preetam Singh<br>D3DH01<br>CAD LAB<br>Group 2<br>K.S.Rahi |                                                                                                                     |                            |
| We | PFPS<br>Ritesh Kumar Jain | PHY<br>Dr. Rajbeer Sharma | MATHS<br>Dr. Rekha Lahoti |                   | HV<br>Dr.Deepika Sahu                                                                     | Group 1<br>HU LAB<br>Dr.Deepika Sahu<br>Group 2<br>A0LB05<br>ELECTRICAL LAB<br>Rameshwar Devra                      |                            |
| Th | MATHS<br>Dr. Rekha Lahoti | BEE<br>Rameshwar Devra    | PHY<br>Dr. Rajbeer Sharma |                   | A0LB10<br>CP LAB<br>Ritesh Kumar Jain / Vishal Jain                                       |                                                                                                                     |                            |
| Fr | PHY<br>Dr. Rajbeer Sharma | PFPS<br>Ritesh Kumar Jain | BEE<br>Rameshwar Devra    |                   | MATHS<br>Dr. Rekha Lahoti                                                                 | A0LB05<br>ELECTRICAL LAB<br>Group 1<br>Rameshwar Devra<br>Phy lab 1<br>PHYSICS LAB<br>Group 2<br>Dr. Rajbeer Sharma |                            |
| Sa | PHY<br>Dr. Rajbeer Sharma | PFPS<br>Ritesh Kumar Jain | MATHS<br>Dr. Rekha Lahoti |                   | HV<br>Dr. Deepika Sahu                                                                    | BEE<br>Rameshwar Devra                                                                                              | Soft Skill<br>Shalini Jain |

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**DIRECTOR**  
Geetanjali Institute of Technical Studies  
Dabok, UDAPUR-431022 (M.S.)



# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## I SEM E

Class teacher : Dr.Varun Humad, Anjali Dhabhai  
D1CR05

|    | 1<br>9:00 - 10:00              | 2<br>10:00 - 11:00                | 3<br>11:00 - 12:00             | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00                                                                                              | 6<br>2:00 - 3:00                                                                                                            | 7<br>3:00 - 4:00                 |
|----|--------------------------------|-----------------------------------|--------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Mo | MATHS<br><i>Dr.Varun Humad</i> | PFPS<br><i>Ritesh Kumar Jain</i>  | PHY<br><i>Dr. Vishal Jain</i>  |                   | AOLB10<br>CP LAB<br><i>Ritesh Kumar Jain / Vishal Jain</i>                                                    |                                                                                                                             |                                  |
| Tu | BEE<br><i>Rameshwar Devra</i>  | HV<br><i>Anjali Dhabhai</i>       | PHY<br><i>Dr. Vishal Jain</i>  |                   | MATHS<br><i>Dr.Varun Humad</i>                                                                                | AOLB05<br>ELECTRICAL LAB<br><i>Mohit Mathur</i><br>Group 1<br>Phy lab 1<br>PHYSICS LAB<br><i>Dr. Vishal Jain</i><br>Group 2 |                                  |
| We | PHY<br><i>Dr. Vishal Jain</i>  | PFPS<br><i>Ritesh Kumar Jain</i>  | MATHS<br><i>Dr.Varun Humad</i> |                   | HV<br><i>Anjali Dhabhai</i>                                                                                   | Phy lab 1<br>PHYSICS LAB<br><i>Dr. Vishal Jain</i><br>Group 1<br>HU LAB<br><i>Anjali Dhabhai</i><br>Group 2                 |                                  |
| Th | PHY<br><i>Dr. Vishal Jain</i>  | PFPS<br><i>Ritesh Kumar Jain</i>  | MATHS<br><i>Dr.Varun Humad</i> |                   | BEE<br><i>Rameshwar Devra</i>                                                                                 | Group 1<br>HU LAB<br><i>Anjali Dhabhai</i><br>AOLB05<br>ELECTRICAL LAB<br><i>Mohit Mathur</i><br>Group 2                    |                                  |
| Fr | BEE<br><i>Rameshwar Devra</i>  | PHY<br><i>Dr. Vishal Jain</i>     | MATHS<br><i>Dr.Varun Humad</i> |                   | D3CH01<br>CAD LAB<br><i>Abhishek Joshi</i><br>Group 1<br>A2DH01<br>CAD LAB<br><i>Preetam Singh</i><br>Group 2 |                                                                                                                             |                                  |
| Sa | BEE<br><i>Rameshwar Devra</i>  | Soft Skill<br><i>Shalini Jain</i> | HV<br><i>Anjali Dhabhai</i>    |                   | MATHS<br><i>Dr.Varun Humad</i>                                                                                | PHY<br><i>Dr. Vishal Jain</i>                                                                                               | PFPS<br><i>Ritesh Kumar Jain</i> |

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# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## I SEM F

Class teacher : Dr. Vishal Jain, Dr.Sonila Saini  
D1CR06

|    | 1<br>9:00 - 10:00             | 2<br>10:00 - 11:00                                                                                                                | 3<br>11:00 - 12:00              | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00                                                                                                 | 6<br>2:00 - 3:00                                                                                                | 7<br>3:00 - 4:00             |
|----|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------|
| Mo | BEE<br><i>Rameshwar Devra</i> | PHY<br><i>Dr. Vishal Jain</i>                                                                                                     | HV<br><i>Dr.Sonila Saini</i>    |                   | MATHS<br><i>Gajendra Porwal</i>                                                                                  | Group 1<br>HU LAB<br><i>Dr.Sonila Saini</i><br>AOLB05<br>ELECTRICAL LAB<br><i>Shruti Bhadviya</i><br>Group 2    |                              |
| Tu | PHY<br><i>Dr. Vishal Jain</i> | MATHS<br><i>Gajendra Porwal</i>                                                                                                   | PFPS<br><i>Vishal Jain</i>      |                   | D2LB01<br>CP LAB<br><i>Ritesh Kumar Jain / Vishal Jain</i>                                                       |                                                                                                                 |                              |
| We | BEE<br><i>Rameshwar Devra</i> | MATHS<br><i>Gajendra Porwal</i>                                                                                                   | PHY<br><i>Dr. Vishal Jain</i>   |                   | A2DH02<br>CAD LAB<br><i>Ramdayal Kumawat</i><br>Group 1<br>A2DH01<br>CAD LAB<br><i>Abhishek Joshi</i><br>Group 2 |                                                                                                                 |                              |
| Th | PFPS<br><i>Vishal Jain</i>    | MATHS<br><i>Gajendra Porwal</i>                                                                                                   | BEE<br><i>Rameshwar Devra</i>   |                   | PHY<br><i>Dr. Vishal Jain</i>                                                                                    | Phy lab 1<br>PHYSICS LAB<br><i>Dr. Rajbeer Sharma</i><br>Group 1<br>HU LAB<br><i>Dr.Sonila Saini</i><br>Group 2 |                              |
| Fr | PHY<br><i>Dr. Vishal Jain</i> | AOLB05<br>ELECTRICAL LAB<br><i>Shruti Bhadviya</i><br>Group 1<br>Phy lab 1<br>PHYSICS LAB<br><i>Dr. Rajbeer Sharma</i><br>Group 2 |                                 |                   | PFPS<br><i>Vishal Jain</i>                                                                                       | MATHS<br><i>Gajendra Porwal</i>                                                                                 | HV<br><i>Dr.Sonila Saini</i> |
| Sa | PFPS<br><i>Vishal Jain</i>    | PHY<br><i>Dr. Vishal Jain</i>                                                                                                     | MATHS<br><i>Gajendra Porwal</i> |                   | BEE<br><i>Rameshwar Devra</i>                                                                                    | Soft Skill<br><i>Shalini Jain</i>                                                                               | HV<br><i>Dr.Sonila Saini</i> |

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Geetanjali Institute of Technical Studies  
Dabok, UDAIPUR-313022 (Raj.)

# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## EC III SEM

Class teacher : Naveen Jain

A1CR03

|    | 1<br>9:00 - 10:00            | 2<br>10:00 - 11:00           | 3<br>11:00 - 12:00                   | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00                                        | 6<br>2:00 - 3:00                              | 7<br>3:00 - 4:00                     |
|----|------------------------------|------------------------------|--------------------------------------|-------------------|---------------------------------------------------------|-----------------------------------------------|--------------------------------------|
| Mo | DSD<br><i>Saurabh Porwal</i> | SS<br><i>Naveen Jain</i>     | NT<br><i>Rahul Moud</i>              |                   | AEM<br><i>Dr. Gajendra Pal Singh</i>                    | CP LAB<br><i>Ruchi Vyas</i>                   |                                      |
| Tu | DSD<br><i>Saurabh Porwal</i> | NT<br><i>Rahul Moud</i>      | SS<br><i>Naveen Jain</i>             |                   | MEFA<br><i>Lokesh Mali</i>                              | ED<br><i>Ronak Shrimal</i>                    | AEM<br><i>Dr. Gajendra Pal Singh</i> |
| We | DSD<br><i>Saurabh Porwal</i> | ED<br><i>Ronak Shrimal</i>   | AEM<br><i>Dr. Gajendra Pal Singh</i> |                   | MEFA<br><i>Lokesh Mali</i>                              | DSD LAB<br><i>Saurabh Porwal</i>              |                                      |
| Th | ED<br><i>Ronak Shrimal</i>   | DSD<br><i>Saurabh Porwal</i> | SS<br><i>Naveen Jain</i>             |                   | NT<br><i>Rahul Moud</i>                                 | SP LAB<br><i>Naveen Jain / Meena Kushwaha</i> |                                      |
| Fr | SS<br><i>Naveen Jain</i>     | NT<br><i>Rahul Moud</i>      | ED<br><i>Ronak Shrimal</i>           |                   | AEM<br><i>Dr. Gajendra Pal Singh</i>                    | ED LAB<br><i>Ronak Shrimal</i>                |                                      |
| Sa | ED<br><i>Ronak Shrimal</i>   | DSD<br><i>Saurabh Porwal</i> | MEFA<br><i>Lokesh Mali</i>           |                   | Technical Training<br><i>Saurabh Porwal / Ravi Teli</i> |                                               |                                      |

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# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## EC V SEM

Class teacher : Tina Bhati

A1CR04

|    | 1<br>9:00 - 10:00            | 2<br>10:00 - 11:00                   | 3<br>11:00 - 12:00                   | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00                     | 6<br>2:00 - 3:00                               | 7<br>3:00 - 4:00        |
|----|------------------------------|--------------------------------------|--------------------------------------|-------------------|--------------------------------------|------------------------------------------------|-------------------------|
| Mo | MTT<br><i>Md. Sabir</i>      | EMW<br><i>Rahul Moud / Ravi Teli</i> | CA<br><i>Ravi Teli</i>               |                   | DSP<br><i>Meena Kushwaha</i>         | RFS Lab<br><i>Ronak Shrimai / Md. Sabir</i>    |                         |
| Tu | CS<br><i>Tina Bhati</i>      | DSP<br><i>Meena Kushwaha</i>         | CA<br><i>Ravi Teli</i>               |                   | BME<br><i>Anurag Paliwal</i>         | EMW<br><i>Rahul Moud / Ravi Teli</i>           | MTT<br><i>Md. Sabir</i> |
| We | BME<br><i>Anurag Paliwal</i> | CA<br><i>Ravi Teli</i>               | CS<br><i>Tina Bhati</i>              |                   | EMW<br><i>Rahul Moud / Ravi Teli</i> | DSP LAB<br><i>Meena Kushwaha / Naveen Jain</i> |                         |
| Th | MTT<br><i>Md. Sabir</i>      | DSP<br><i>Meena Kushwaha</i>         | BME<br><i>Anurag Paliwal</i>         |                   | CS<br><i>Tina Bhati</i>              | MW LAB<br><i>Md. Sabir</i>                     |                         |
| Fr | CS<br><i>Tina Bhati</i>      | DSP<br><i>Meena Kushwaha</i>         | EMW<br><i>Rahul Moud / Ravi Teli</i> |                   | CA<br><i>Ravi Teli</i>               | BME<br><i>Anurag Paliwal</i>                   | MTT<br><i>Md. Sabir</i> |
| Sa | CS<br><i>Tina Bhati</i>      | MTT<br><i>Md. Sabir</i>              | EMW<br><i>Rahul Moud / Ravi Teli</i> |                   | IT<br><i>Rajeev Mathur</i>           |                                                |                         |

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Geetanjali Institute of Technical Studies  
Dabok, UDAIPUR-313022 (Raj.)



# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## EC VII SEM

Class teacher : Ravi Teli  
A1CR01

|    | 1<br>9:00 - 10:00            | 2<br>10:00 - 11:00                    | 3<br>11:00 - 12:00                    | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00                                      | 6<br>2:00 - 3:00                                           | 7<br>3:00 - 4:00             |
|----|------------------------------|---------------------------------------|---------------------------------------|-------------------|-------------------------------------------------------|------------------------------------------------------------|------------------------------|
| Mo | WC<br><i>Ronak Shrimal</i>   | AWP<br><i>Rajeev Mathur</i>           | VLSI DESIGN<br><i>Vijendra Maurya</i> |                   | DIP<br><i>Ravi Teli</i>                               | VHDL<br><i>Latif Khan</i>                                  | DSP<br><i>Meena Kushwaha</i> |
| Tu | DIP<br><i>Ravi Teli</i>      | VHDL<br><i>Latif Khan</i>             | WC<br><i>Ronak Shrimal</i>            |                   | AWP<br><i>Rajeev Mathur</i>                           | TRAINING & VISIT<br><i>Anurag Paliwal / Saurabh Porwal</i> |                              |
| We | VHDL<br><i>Latif Khan</i>    | AWP<br><i>Rajeev Mathur</i>           | VLSI DESIGN<br><i>Vijendra Maurya</i> |                   | WC<br><i>Ronak Shrimal</i>                            | A1LB01<br>WC LAB<br><i>Anurag Paliwal</i>                  |                              |
| Th | VHDL<br><i>Latif Khan</i>    | DIP<br><i>Ravi Teli</i>               | DSP<br><i>Meena Kushwaha</i>          |                   | VLSI DESIGN<br><i>Vijendra Maurya</i>                 | PROJECT<br><i>Rajeev Mathur</i>                            |                              |
| Fr | DIP<br><i>Ravi Teli</i>      | AWP<br><i>Rajeev Mathur</i>           | VLSI DESIGN<br><i>Vijendra Maurya</i> |                   | DSP<br><i>Meena Kushwaha</i>                          | A1LB02<br>SIP LAB<br><i>Meena Kushwaha / Ravi Teli</i>     |                              |
| Sa | DSP<br><i>Meena Kushwaha</i> | VLSI DESIGN<br><i>Vijendra Maurya</i> | WC<br><i>Ronak Shrimal</i>            |                   | Gate Preparation<br><i>Rahul Moud / Ronak Shrimal</i> |                                                            |                              |

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# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## CS III SEM A

Class teacher : Manish Tiwari  
B1CR04

|    | 1<br>9:00 - 10:00            | 2<br>10:00 - 11:00            | 3<br>11:00 - 12:00            | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00              | 6<br>2:00 - 3:00                                 | 7<br>3:00 - 4:00                                     |
|----|------------------------------|-------------------------------|-------------------------------|-------------------|-------------------------------|--------------------------------------------------|------------------------------------------------------|
| Mo | DSA<br><i>Bhupendra Teli</i> | SE<br><i>Manish Tiwari</i>    | AEM<br><i>Gajendra Porwal</i> |                   | B1LB01                        | DE LAB<br><i>Shipra Sharma / Nikita Somani</i>   |                                                      |
| Tu | OOPS<br><i>Charu Kavadia</i> | ME&FA<br><i>Lokesh Mali</i>   | DSA<br><i>Bhupendra Teli</i>  |                   | B1LB02                        | SE LAB<br><i>Manish Tiwari / Nikita Somani</i>   |                                                      |
| We | OOPS<br><i>Charu Kavadia</i> | SE<br><i>Manish Tiwari</i>    | DE<br><i>Shipra Sharma</i>    |                   | B1LB02                        | OOPS LAB<br><i>Charu Kavadia / Manish Tiwari</i> |                                                      |
| Th | OOPS<br><i>Charu Kavadia</i> | SE<br><i>Manish Tiwari</i>    | DE<br><i>Shipra Sharma</i>    |                   | AEM<br><i>Gajendra Porwal</i> | DSA<br><i>Bhupendra Teli</i>                     | ME&FA<br><i>Lokesh Mali</i>                          |
| Fr | DE<br><i>Shipra Sharma</i>   | AEM<br><i>Gajendra Porwal</i> | SE<br><i>Manish Tiwari</i>    |                   | B1LB02                        | DSA LAB<br><i>Charu Kavadia / Bhupendra Teli</i> |                                                      |
| Sa | DSA<br><i>Bhupendra Teli</i> | ME&FA<br><i>Lokesh Mali</i>   | OOPS<br><i>Charu Kavadia</i>  |                   | AEM<br><i>Gajendra Porwal</i> | DE<br><i>Shipra Sharma</i>                       | Competitive Programming<br><i>Akhilesh Deep Arya</i> |

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# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## CS III SEM B

Class teacher : Charu Kavadia

B1CR03

|    | 1<br>9:00 - 10:00             | 2<br>10:00 - 11:00           | 3<br>11:00 - 12:00            | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00              | 6<br>2:00 - 3:00                                     | 7<br>3:00 - 4:00              |
|----|-------------------------------|------------------------------|-------------------------------|-------------------|-------------------------------|------------------------------------------------------|-------------------------------|
| Mo | AEM<br><i>Gajendra Porwal</i> | DSA<br><i>Girish Ameta</i>   | OOPS<br><i>Charu Kavadia</i>  |                   | B1LB02                        | OOPS LAB<br><i>Charu Kavadia / Bhupendra Teli</i>    |                               |
| Tu | DSA<br><i>Girish Ameta</i>    | SE<br><i>Manish Tiwari</i>   | DE<br><i>Shipra Sharma</i>    |                   | AEM<br><i>Gajendra Porwal</i> | OOPS<br><i>Charu Kavadia</i>                         | ME&FA<br><i>Lokesh Mali</i>   |
| We | DSA<br><i>Girish Ameta</i>    | DE<br><i>Shipra Sharma</i>   | SE<br><i>Manish Tiwari</i>    |                   | B1LB01                        | DE LAB<br><i>Shipra Sharma / Nikita Somani</i>       |                               |
| Th | DE<br><i>Shipra Sharma</i>    | OOPS<br><i>Charu Kavadia</i> | SE<br><i>Manish Tiwari</i>    |                   | B1LB02                        | DSA LAB<br><i>Girish Ameta / Shipra Sharma</i>       |                               |
| Fr | ME&FA<br><i>Lokesh Mali</i>   | SE<br><i>Manish Tiwari</i>   | AEM<br><i>Gajendra Porwal</i> |                   | B1LB01                        | SE LAB<br><i>Manish Tiwari / Nikita Somani</i>       |                               |
| Sa | ME&FA<br><i>Lokesh Mali</i>   | OOPS<br><i>Charu Kavadia</i> | DE<br><i>Shipra Sharma</i>    |                   | DSA<br><i>Girish Ameta</i>    | Competitive Programming<br><i>Akhilesh Deep Arya</i> | AEM<br><i>Gajendra Porwal</i> |

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# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## CS V SEM A

Class teacher : Shruti Porwal

B1CR01

|    | 1<br>9:00 - 10:00            | 2<br>10:00 - 11:00           | 3<br>11:00 - 12:00                  | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00                    | 6<br>2:00 - 3:00                                 | 7<br>3:00 - 4:00                                         |
|----|------------------------------|------------------------------|-------------------------------------|-------------------|-------------------------------------|--------------------------------------------------|----------------------------------------------------------|
| Mo | ITC<br><i>Vishal Jain</i>    | OS<br><i>Shruti Porwal</i>   | Ad. Java<br><i>Dr. Mayank Patel</i> |                   | CD<br><i>Jitendra Sharma</i>        | B0LB01                                           | Ad. Java Lab<br><i>Dr. Mayank Patel / Ayushi Chaplot</i> |
| Tu | OS<br><i>Shruti Porwal</i>   | CGM<br><i>Ayushi Chaplot</i> | WC<br><i>Nikita Somani</i>          |                   | AOL<br><i>Abhishek Gupta</i>        | B1LB01                                           | CD lab<br><i>Jitendra Sharma / Ruchi Vyas</i>            |
| We | CD<br><i>Jitendra Sharma</i> | AOL<br><i>Abhishek Gupta</i> | CGM<br><i>Ayushi Chaplot</i>        |                   | Ad. Java<br><i>Dr. Mayank Patel</i> | ITC<br><i>Vishal Jain</i>                        | OS<br><i>Shruti Porwal</i>                               |
| Th | AOL<br><i>Abhishek Gupta</i> | WC<br><i>Nikita Somani</i>   | CGM<br><i>Ayushi Chaplot</i>        |                   | B0LB01                              | CGM Lab<br><i>Ayushi Chaplot / Shruti Porwal</i> |                                                          |
| Fr | CD<br><i>Jitendra Sharma</i> | OS<br><i>Shruti Porwal</i>   | ITC<br><i>Vishal Jain</i>           |                   | B0LB01                              | AOL lab<br><i>Ruchi Vyas / Abhishek Gupta</i>    |                                                          |
| Sa | AOL<br><i>Abhishek Gupta</i> | CGM<br><i>Ayushi Chaplot</i> | CD<br><i>Jitendra Sharma</i>        |                   | WC<br><i>Nikita Somani</i>          | B1SH01                                           | IT<br><i>Shruti Porwal</i>                               |

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# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## CS V SEM B

Class teacher : Ruchi Vyas  
B1CR02

|    | 1<br>9:00 - 10:00            | 2<br>10:00 - 11:00                            | 3<br>11:00 - 12:00                  | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00             | 6<br>2:00 - 3:00                                 | 7<br>3:00 - 4:00                                         |
|----|------------------------------|-----------------------------------------------|-------------------------------------|-------------------|------------------------------|--------------------------------------------------|----------------------------------------------------------|
| Mo | WC<br><i>Nikita Somani</i>   | OS<br><i>Ruchi Vyas</i>                       | ITC<br><i>Vishal Jain</i>           |                   | CGM<br><i>Ayushi Chaplot</i> | AOL<br><i>Abhishek Gupta</i>                     | CD<br><i>Jitendra Sharma</i>                             |
| Tu | AOL<br><i>Abhishek Gupta</i> | Ad. Java<br><i>Dr. Mayank Patel</i>           | CD<br><i>Jitendra Sharma</i>        |                   | B0LB01                       | CGM Lab<br><i>Ayushi Chaplot / Shruti Porwal</i> |                                                          |
| We | ITC<br><i>Vishal Jain</i>    | WC<br><i>Nikita Somani</i>                    | AOL<br><i>Abhishek Gupta</i>        |                   | OS<br><i>Ruchi Vyas</i>      | B0LB01                                           | Ad. Java Lab<br><i>Dr. Mayank Patel / Ayushi Chaplot</i> |
| Th | CGM<br><i>Ayushi Chaplot</i> | OS<br><i>Ruchi Vyas</i>                       | Ad. Java<br><i>Dr. Mayank Patel</i> |                   | B1LB01                       | AOL lab<br><i>Abhishek Gupta / Ruchi Vyas</i>    |                                                          |
| Fr | CGM<br><i>Ayushi Chaplot</i> | CD lab<br><i>Jitendra Sharma / Ruchi Vyas</i> |                                     |                   | CD<br><i>Jitendra Sharma</i> | CGM<br><i>Ayushi Chaplot</i>                     | ITC<br><i>Vishal Jain</i>                                |
| Sa | OS<br><i>Ruchi Vyas</i>      | CD<br><i>Jitendra Sharma</i>                  | WC<br><i>Nikita Somani</i>          |                   | AOL<br><i>Abhishek Gupta</i> | B1LB01                                           | IT<br><i>Ruchi Vyas</i>                                  |

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# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## CS VII SEM A

Class teacher : Girish Ameta  
B1LT01

|    | 1<br>9:00 - 10:00                                            | 2<br>10:00 - 11:00                            | 3<br>11:00 - 12:00           | 4<br>12:00 - 1:00                  | 5<br>1:00 - 2:00                           | 6<br>2:00 - 3:00                                    | 7<br>3:00 - 4:00                           |
|----|--------------------------------------------------------------|-----------------------------------------------|------------------------------|------------------------------------|--------------------------------------------|-----------------------------------------------------|--------------------------------------------|
| Mo | COMPILER<br>CONS<br><i>Jitendra Sharma</i>                   | ISS<br><i>Abhishek Gupta</i>                  | DCT<br><i>Bhupendra Teli</i> |                                    | DM & WH<br><i>Shruti Porwal</i>            | CAD FOR VLSI<br><i>Vijendra Maurya</i>              | CC<br><i>Girish Ameta</i>                  |
| Tu | CAD FOR VLSI<br><i>Vijendra Maurya</i>                       | WD LAB<br><i>Akhilesh Arya / Girish Ameta</i> |                              |                                    | COMPILER<br>CONS<br><i>Jitendra Sharma</i> | CC<br><i>Girish Ameta</i>                           | ISS<br><i>Abhishek Gupta</i>               |
| We | COMPILER DESIGN LAB<br><i>Bhupendra Teli / Akhilesh Arya</i> |                                               |                              |                                    | DM & WH<br><i>Shruti Porwal</i>            | DCT<br><i>Bhupendra Teli</i>                        | ISS<br><i>Abhishek Gupta</i>               |
| Th | VLSI DESIGN LAB<br><i>Vijendra Maurya / Rahul Moud</i>       |                                               |                              |                                    | COMPILER<br>CONS<br><i>Jitendra Sharma</i> | CAD FOR VLSI<br><i>Vijendra Maurya</i>              | DCT<br><i>Bhupendra Teli</i>               |
| Fr | CC<br><i>Girish Ameta</i>                                    | ISS<br><i>Abhishek Gupta</i>                  | DCT<br><i>Bhupendra Teli</i> |                                    | DM & WH<br><i>Shruti Porwal</i>            | CAD FOR VLSI<br><i>Vijendra Maurya</i>              | COMPILER<br>CONS<br><i>Jitendra Sharma</i> |
| Sa | PRACTICAL TRAINING<br><i>Dr. Mayank Patel / Girish Ameta</i> |                                               |                              | PROJECT-II<br><i>Shruti Porwal</i> |                                            | PROJECT-I<br><i>Girish Ameta / Dr. Mayank Patel</i> |                                            |

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Dabok, UNAI PUR-313022 (Raj.)

# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## CS VII SEM B

Class teacher : Akhilesh Deep Arya  
B2CR03

|    | 1<br>9:00 - 10:00                                               | 2<br>10:00 - 11:00 | 3<br>11:00 - 12:00 | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00 | 6<br>2:00 - 3:00                                         | 7<br>3:00 - 4:00 |
|----|-----------------------------------------------------------------|--------------------|--------------------|-------------------|------------------|----------------------------------------------------------|------------------|
| Mo |                                                                 |                    |                    |                   |                  |                                                          |                  |
| Tu |                                                                 |                    |                    |                   |                  |                                                          |                  |
| We |                                                                 |                    |                    |                   |                  |                                                          |                  |
| Th |                                                                 |                    |                    |                   |                  |                                                          |                  |
| Fr |                                                                 |                    |                    |                   |                  |                                                          |                  |
| Sa | BISH01<br>PRACTICAL TRAINING<br>Dr. Mayank Patel / Girish Ameta |                    |                    |                   |                  | B1LB03<br>PROJECT-I ,<br>Girish Ameta / Dr. Mayank Patel |                  |

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# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## EE III SEM

Class teacher : Mohit Mathur, Himanshuraj Singh, Kiran Kumar Nagda  
A0LT01

|    | 1<br>9:00 - 10:00        | 2<br>10:00 - 11:00       | 3<br>11:00 - 12:00       | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00         | 6<br>2:00 - 3:00                                                                                      | 7<br>3:00 - 4:00                           |
|----|--------------------------|--------------------------|--------------------------|-------------------|--------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Mo | EF<br>Irfan Ali          | ECA<br>Kiran Kumar Nagda | AM<br>Dr. Rekha Lahoti   |                   | EM-I<br>Mohit Mathur     | A0LB07<br>ECD LAB<br>Kiran Kumar Nagda<br>Group 1<br>A0LB09<br>EM-I LAB<br>Uday Kumar<br>Group 2      |                                            |
| Tu | EF<br>Irfan Ali          | AE<br>Dr.P.C.Bapna       | PGP<br>Himanshuraj Singh |                   | TC<br>Dr.Deepika Sahu    |                                                                                                       |                                            |
| We | AM<br>Dr. Rekha Lahoti   | PGP<br>Himanshuraj Singh | EM-I<br>Mohit Mathur     |                   | ECA<br>Kiran Kumar Nagda | A0LB07<br>ECD LAB<br>Kiran Kumar Nagda<br>Group 1<br>A1LB03<br>AE LAB<br>Himanshuraj Singh<br>Group 2 |                                            |
| Th | ECA<br>Kiran Kumar Nagda | AE<br>Dr.P.C.Bapna       | EF<br>Irfan Ali          |                   | AM<br>Dr. Rekha Lahoti   |                                                                                                       |                                            |
| Fr | EM-I<br>Mohit Mathur     | AE<br>Dr.P.C.Bapna       | AM<br>Dr. Rekha Lahoti   |                   | PGP<br>Himanshuraj Singh | A0LB09<br>EM-I LAB<br>Uday Kumar<br>Group 1<br>A0LB07<br>ECD LAB<br>Kiran Kumar Nagda<br>Group 2      |                                            |
| Sa | ECA<br>Kiran Kumar Nagda | AE<br>Dr.P.C.Bapna       | TC<br>Dr.Deepika Sahu    |                   | EF<br>Irfan Ali          |                                                                                                       | A0LB10<br>Training Seminar<br>Mohit Mathur |

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# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## EE V SEM

Class teacher : Uday Kumar, Irfan Ali

A0CR02

|    | 1<br>9:00 - 10:00         | 2<br>10:00 - 11:00        | 3<br>11:00 - 12:00        | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00         | 6<br>2:00 - 3:00                                   | 7<br>3:00 - 4:00                                   |
|----|---------------------------|---------------------------|---------------------------|-------------------|--------------------------|----------------------------------------------------|----------------------------------------------------|
| Mo | RPS<br>Uday Kumar         | PS-I<br>Dr. Monika Vardia | E-Mat<br>Abhishek Sharma  |                   | EMD<br>Irfan Ali         | A1LB09<br>CS LAB<br>Himanshuraj Singh<br>Group 1   | A1LB05<br>MP LAB<br>Irfan Ali<br>Group 2           |
| Tu | PS-I<br>Dr. Monika Vardia | E-Mat<br>Abhishek Sharma  | MP<br>Shruti Bhadviya     |                   | CS<br>Himanshuraj Singh  | A1LB05<br>MP LAB<br>Irfan Ali<br>Group 1           | A1LB10<br>PS-I LAB<br>Dr. Monika Vardia<br>Group 2 |
| We | MP<br>Shruti Bhadviya     | EMD<br>Irfan Ali          | CS<br>Himanshuraj Singh   |                   | RPS<br>Uday Kumar        | A0LB10<br>SP LAB<br>Irfan Ali / Shruti Bhadviya    |                                                    |
| Th | EMD<br>Irfan Ali          | CS<br>Himanshuraj Singh   | RPS<br>Uday Kumar         |                   | E-Mat<br>Abhishek Sharma | PS-I<br>Dr. Monika Vardia                          | MP<br>Shruti Bhadviya                              |
| Fr | RPS<br>Uday Kumar         | E-Mat<br>Abhishek Sharma  | PS-I<br>Dr. Monika Vardia |                   | EMD<br>Irfan Ali         | A1LB10<br>PS-I LAB<br>Dr. Monika Vardia<br>Group 1 | A1LB09<br>CS LAB<br>Himanshuraj Singh<br>Group 2   |
| Sa | EMD<br>Irfan Ali          | CS<br>Himanshuraj Singh   | MP<br>Shruti Bhadviya     |                   |                          | IT<br>Dr. Monika Vardia                            |                                                    |

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# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## EE VII SEM

Class teacher : Dr. Monika Vardia, Abhishek Sharma, Shruti Bhadviya

A0CR01

|    | 1<br>9:00 - 10:00        | 2<br>10:00 - 11:00       | 3<br>11:00 - 12:00       | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00         | 6<br>2:00 - 3:00                                    | 7<br>3:00 - 4:00        |
|----|--------------------------|--------------------------|--------------------------|-------------------|--------------------------|-----------------------------------------------------|-------------------------|
| Mo | PSP<br>Mohit Mathur      | NCES<br>Shruti Bhadviya  | PSA<br>Uday Kumar        |                   | EOPS<br>Abhishek Sharma  | A0LB03<br>PSP LAB<br>Mohit Mathur / Abhishek Sharma |                         |
| Tu | PSA<br>Uday Kumar        | AIT<br>Kiran Kumar Nagda | EOPS<br>Abhishek Sharma  |                   | PSP<br>Mohit Mathur      | IEM<br>Jitendra Charan                              | NCES<br>Shruti Bhadviya |
| We | PSP<br>Mohit Mathur      | AIT<br>Kiran Kumar Nagda | NCES<br>Shruti Bhadviya  |                   | PSE<br>Dr. Monika Vardia | Project-1<br>Dr. P. C. Bapna                        |                         |
| Th | PSE<br>Dr. Monika Vardia | EOPS<br>Abhishek Sharma  | NCES<br>Shruti Bhadviya  |                   | IEM<br>Jitendra Charan   | Gate Preparation<br>Himanshuraj Singh               |                         |
| Fr | PSE<br>Dr. Monika Vardia | AIT<br>Kiran Kumar Nagda | PSP<br>Mohit Mathur      |                   | PSA<br>Uday Kumar        | A0LB10<br>PSMS LAB<br>Irfan Ali / Shruti Bhadviya   |                         |
| Sa | PSA<br>Uday Kumar        | EOPS<br>Abhishek Sharma  | PSE<br>Dr. Monika Vardia |                   | AIT<br>Kiran Kumar Nagda | Training & Industrial visit<br>Dr. P. C. Bapna      |                         |

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# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## ME III SEM A

Class teacher : K.S.Rahi  
B2CR07

|    | 1<br>9:00 - 10:00                                        | 2<br>10:00 - 11:00                  | 3<br>11:00 - 12:00                  | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00              | 6<br>2:00 - 3:00                             | 7<br>3:00 - 4:00                |
|----|----------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------|-------------------------------|----------------------------------------------|---------------------------------|
| Mo | Engg. Mech<br><i>Narendra Patel</i>                      | MOS<br><i>Saurabh Tege</i>          | ET<br><i>Dr. Deepak Paliwal</i>     |                   | TC<br><i>Dr.Sonila Saini</i>  | MS & E<br><i>Lokesh Sharma</i>               | AEM<br><i>Dr.Varun Humad</i>    |
| Tu | MOS<br><i>Saurabh Tege</i>                               | MS & E<br><i>Lokesh Sharma</i>      | AEM<br><i>Dr.Varun Humad</i>        |                   | A2LB05                        | BME LAB<br>Group 1<br><i>Saurabh Tege</i>    |                                 |
|    |                                                          |                                     |                                     |                   | A2CH02                        | MD LAB<br>Group 2<br><i>Ramdayal Kumawat</i> |                                 |
| We | A0LB10<br>MAT LAB<br><i>Uday Kumar / Abhishek Sharma</i> |                                     |                                     |                   | AEM<br><i>Dr. Varun Humad</i> | MOS<br><i>Saurabh Tege</i>                   | ET<br><i>Dr. Deepak Paliwal</i> |
| Th | Engg. Mech<br><i>Narendra Patel</i>                      | ET<br><i>Dr. Deepak Paliwal</i>     | MS & E<br><i>Lokesh Sharma</i>      |                   | A2CH02                        | MD LAB<br>Group 1<br><i>Ramdayal Kumawat</i> |                                 |
|    |                                                          |                                     |                                     |                   | B0LB06                        | MT LAB<br>Group 2<br><i>K.S.Rahi</i>         |                                 |
| Fr | MOS<br><i>Saurabh Tege</i>                               | ET<br><i>Dr. Deepak Paliwal</i>     | Engg. Mech<br><i>Narendra Patel</i> |                   | B0LB06                        | MT LAB<br>Group 1<br><i>K.S.Rahi</i>         |                                 |
|    |                                                          |                                     |                                     |                   | A2LB05                        | BME LAB<br>Group 2<br><i>Saurabh Tege</i>    |                                 |
| Sa | TC<br><i>Dr.Sonila Saini</i>                             | Engg. Mech<br><i>Narendra Patel</i> | AEM<br><i>Dr. Varun Humad</i>       |                   |                               | IT<br><i>Saurabh Tege</i>                    |                                 |

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# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## ME & AE III SEM B

Class teacher : Lokesh Sharma  
B2CR06

|    | 1<br>9:00 - 10:00                                         | 2<br>10:00 - 11:00              | 3<br>11:00 - 12:00                | 4<br>12:00 - 1:00          | 5<br>1:00 - 2:00              | 6<br>2:00 - 3:00                                | 7<br>3:00 - 4:00                |
|----|-----------------------------------------------------------|---------------------------------|-----------------------------------|----------------------------|-------------------------------|-------------------------------------------------|---------------------------------|
| Mo | Engg. Mech<br><i>Mukesh Lohar</i>                         | MS & E<br><i>Lokesh Sharma</i>  | AEM<br><i>Dr. Varun Humad</i>     |                            | A2CH02                        | Group 1<br>MD LAB<br><i>Ramdayal Kumawat</i>    |                                 |
|    |                                                           |                                 |                                   |                            | B0LB06                        | Group 2<br>MT LAB<br><i>Narendra Patel</i>      |                                 |
| Tu | Engg. Mech<br><i>Mukesh Lohar</i>                         | ET<br><i>Dr. Deepak Paliwal</i> | MOS<br><i>Saurabh Tege</i>        |                            | A0LB10                        | MAT LAB<br><i>Abhishek Sharma / KKN</i>         |                                 |
| We | AEM<br><i>Dr. Varun Humad</i>                             | ET<br><i>Dr. Deepak Paliwal</i> | MOS<br><i>Saurabh Tege</i>        |                            | B0LB06                        | Group 1<br>MT LAB<br><i>Narendra Patel</i>      |                                 |
|    |                                                           |                                 |                                   |                            | A2LB06                        | Group 2<br>BME LAB<br><i>Udai Singh Chauhan</i> |                                 |
| Th | MS & E<br><i>Lokesh Sharma</i>                            | MOS<br><i>Saurabh Tege</i>      | Engg. Mech<br><i>Mukesh Lohar</i> |                            | TC<br><i>Dr. Sonila Saini</i> | AEM<br><i>Dr. Varun Humad</i>                   | ET<br><i>Dr. Deepak Paliwal</i> |
| Fr | A2LB06<br>Group 1<br>BME LAB<br><i>Udai Singh Chauhan</i> |                                 |                                   |                            | TC<br><i>Dr. Sonila Saini</i> | AEM<br><i>Dr. Varun Humad</i>                   | MS & E<br><i>Lokesh Sharma</i>  |
|    | A2DH02<br>Group 2<br>MD LAB<br><i>Ramdayal Kumawat</i>    |                                 |                                   |                            |                               |                                                 |                                 |
| Sa | MOS<br><i>Saurabh Tege</i>                                | ET<br><i>Dr. Deepak Paliwal</i> | Engg. Mech<br><i>Mukesh Lohar</i> | IT<br><i>Lokesh Sharma</i> |                               |                                                 |                                 |

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# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## ME & AE V SEM

Class teacher : Mahendra Salvi  
B2CR02

|    | 1<br>9:00 - 10:00           | 2<br>10:00 - 11:00          | 3<br>11:00 - 12:00   | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00            | 6<br>2:00 - 3:00                                                                                                                                                                                    | 7<br>3:00 - 4:00     |
|----|-----------------------------|-----------------------------|----------------------|-------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Mo | MCTS<br>Tina Bhati          | DOME I<br>Anand Balkrishnan | HT<br>Mahendra Salvi |                   | POM<br>Surbhi Mishra        | <div> <div>ATLB06</div> <div>MCTS Lab</div> <div>Group 1</div> <div>Tina Bhati</div> </div> <div> <div>WORKSHOP III</div> <div>PE LAB</div> <div>Group 2</div> <div>Udai Singh Chauhan</div> </div> |                      |
| Tu | HT<br>Mahendra Salvi        | MT<br>K.S.Rahi              | AE<br>Zuber Khan     |                   | DOME I<br>Anand Balkrishnan | <div> <div>BOLB04</div> <div>MD I Lab</div> <div>Group 1</div> <div>Anand Balkrishnan</div> </div> <div> <div>HT LAB</div> <div>Group 2</div> <div>Mahendra Salvi</div> </div>                      |                      |
| We | MT<br>K.S.Rahi              | DOME I<br>Anand Balkrishnan | POM<br>Surbhi Mishra |                   | AE<br>Zuber Khan            | MCTS<br>Tina Bhati                                                                                                                                                                                  | HT<br>Mahendra Salvi |
| Th | POM<br>Surbhi Mishra        | MCTS<br>Tina Bhati          | MT<br>K.S.Rahi       |                   | HT<br>Mahendra Salvi        | <div> <div>BOLB04</div> <div>HT LAB</div> <div>Group 1</div> <div>Mahendra Salvi</div> </div> <div> <div>ATLB06</div> <div>MCTS Lab</div> <div>Group 2</div> <div>Tina Bhati</div> </div>           |                      |
| Fr | DOME I<br>Anand Balkrishnan | HT<br>Mahendra Salvi        | AE<br>Zuber Khan     |                   | MCTS<br>Tina Bhati          | <div> <div>WORKSHOP III</div> <div>PE LAB</div> <div>Group 1</div> <div>Udai Singh Chauhan</div> </div> <div> <div>MD I Lab</div> <div>Group 2</div> <div>Anand Balkrishnan</div> </div>            |                      |
| Sa | AE<br>Zuber Khan            | MT<br>K.S.Rahi              | MCTS<br>Tina Bhati   |                   |                             | IT<br>Mahendra Salvi                                                                                                                                                                                |                      |

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# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## ME VII SEM

Class teacher : Zuber Khan  
B2CR05

|    | 1<br>9:00 - 10:00               | 2<br>10:00 - 11:00              | 3<br>11:00 - 12:00              | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00                                                                                                                                                                         | 6<br>2:00 - 3:00                   | 7<br>3:00 - 4:00       |
|----|---------------------------------|---------------------------------|---------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------|
| Mo | Turbomachines<br>Abhishek Joshi | R&AC<br>Udai Singh Chauhan      | CNCP<br>Narendra Patel          |                   | <div> <div>BOLB01</div> <div>FEM Lab</div> <div>Group 1</div> <div>Mukesh Lohar</div> </div> <div> <div>ADLB05</div> <div>TE LAB</div> <div>Group 2</div> <div>Zuber Khan</div> </div>   |                                    |                        |
| Tu | CNCP<br>Narendra Patel          | OR<br>Surbhi Mishra             | FEM<br>Mukesh Lohar             |                   | <div> <div>ADLB05</div> <div>TE LAB</div> <div>Group 1</div> <div>Zuber Khan</div> </div> <div> <div>BOLB01</div> <div>FEM Lab</div> <div>Group 2</div> <div>Narendra Patel</div> </div> |                                    |                        |
| We | OR<br>Surbhi Mishra             | Turbomachines<br>Abhishek Joshi | R&AC<br>Udai Singh Chauhan      |                   | Training & visit<br>K.S.Rahi                                                                                                                                                             |                                    |                        |
| Th | FEM<br>Mukesh Lohar             | OM<br>Preetam Singh             | OR<br>Surbhi Mishra             |                   | R&AC<br>Udai Singh Chauhan                                                                                                                                                               | Turbomachines<br>Abhishek Joshi    | CNCP<br>Narendra Patel |
| Fr | CNCP<br>Narendra Patel          | OM<br>Preetam Singh             | Turbomachines<br>Abhishek Joshi |                   | R&AC<br>Udai Singh Chauhan                                                                                                                                                               | FEM<br>Mukesh Lohar                | OR<br>Surbhi Mishra    |
| Sa | FEM<br>Mukesh Lohar             | OM<br>Preetam Singh             | OR<br>Surbhi Mishra             |                   | Project-1<br>Dr. Deepak Paliwal                                                                                                                                                          | Project-1<br>Vijayendra S. Sankhla |                        |

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# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## AE VII Sem

Class teacher : Anand Balkrishnan  
B2CR04

|    | 1<br>9:00 - 10:00          | 2<br>10:00 - 11:00        | 3<br>11:00 - 12:00         | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00           | 6<br>2:00 - 3:00                   | 7<br>3:00 - 4:00          |
|----|----------------------------|---------------------------|----------------------------|-------------------|----------------------------|------------------------------------|---------------------------|
| Mo | AT<br>Mahendra Salvi       | VD<br>Zuber Khan          | AR&NC<br>Ramdayal Kumawat  |                   | CAM<br>Udai Singh Chauhan  | COLB01<br>AT LAB<br>Mahendra Salvi |                           |
| Tu | VD<br>Zuber Khan           | AR&NC<br>Ramdayal Kumawat | MV&NC<br>Anand Balkrishnan |                   | AT<br>Mahendra Salvi       | IRA<br>Md. Sabir                   | CAM<br>Udai Singh Chauhan |
| We | CAM<br>Udai Singh Chauhan  | AR&NC<br>Ramdayal Kumawat | IRA<br>Md. Sabir           |                   | MV&NC<br>Anand Balkrishnan | A1LB05<br>IRA LAB<br>Md. Sabir     |                           |
| Th | MV&NC<br>Anand Balkrishnan | AT<br>Mahendra Salvi      | IRA<br>Md. Sabir           |                   | VD<br>Zuber Khan           | COLB01<br>VIB LAB<br>Zuber Khan    |                           |
| Fr | VD<br>Zuber Khan           | IRA<br>Md. Sabir          | MV&NC<br>Anand Balkrishnan |                   |                            | PS-1<br>Dr. Deepak Paliwal         |                           |
| Sa | MV&NC<br>Anand Balkrishnan | AR&NC<br>Ramdayal Kumawat | CAM<br>Udai Singh Chauhan  |                   |                            | PT&IV<br>K.S.Rahi                  |                           |

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# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## CE III Sem

Class teacher : GAURAV SHARMA, NARENDRA PALIWAL  
D2LT01

|    | 1<br>9:00 - 10:00              | 2<br>10:00 - 11:00                                                                                   | 3<br>11:00 - 12:00       | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00               | 6<br>2:00 - 3:00                                                                                             | 7<br>3:00 - 4:00       |
|----|--------------------------------|------------------------------------------------------------------------------------------------------|--------------------------|-------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------|
| Mo | AEM<br>Dr. Gajendra Pal Singh  | EG<br>Kritesh Chouhan                                                                                | FM<br>NARENDRA PALIWAL   |                   | Surveying<br>Rajanikant Suthar | D0LB03<br>Geology Lab<br>Jagdish Lohar<br>Group 1<br>D2LB01<br>CAD Lab<br>OM KRISHNA SHARMA<br>Group 2       |                        |
| Tu | AEM<br>Dr. Gajendra Pal Singh  | EM<br>Jagdish Lohar                                                                                  | TC<br>Anjali Dhabhai     |                   | Surveying<br>Rajanikant Suthar | D0LB04<br>CEM LAB<br>OM KRISHNA SHARMA<br>Group 1<br>D0LB03<br>Geology Lab<br>Jagdish Lohar<br>Group 2       |                        |
| We | EM<br>Jagdish Lohar            | Surveying<br>Rajanikant Suthar                                                                       | EG<br>Kritesh Chouhan    |                   | AEM<br>Dr. Gajendra Pal Singh  | D2LB01<br>CAD Lab<br>OM KRISHNA SHARMA<br>Group 1<br>D2LB03<br>Surveying Lab<br>Rajanikant Suthar<br>Group 2 |                        |
| Th | BMC<br>OM KRISHNA SHARMA       | FM<br>NARENDRA PALIWAL                                                                               | TC<br>Anjali Dhabhai     |                   | AEM<br>Dr. Gajendra Pal Singh  | D2LB03<br>Surveying Lab<br>Rajanikant Suthar<br>Group 1<br>D0LB05<br>FM LAB<br>NARENDRA PALIWAL<br>Group 2   |                        |
| Fr | Surveying<br>Rajanikant Suthar | D0LB05<br>FM LAB<br>NARENDRA PALIWAL<br>Group 1<br>D0LB04<br>CEM LAB<br>OM KRISHNA SHARMA<br>Group 2 |                          |                   | EM<br>Jagdish Lohar            | BMC<br>OM KRISHNA SHARMA                                                                                     | FM<br>NARENDRA PALIWAL |
| Sa | EM<br>Jagdish Lohar            | FM<br>NARENDRA PALIWAL                                                                               | BMC<br>OM KRISHNA SHARMA |                   |                                | Technical Training                                                                                           | GS / NP                |

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# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## CE V Sem

Class teacher : Ajay Nagda, Jagdish Lohar, Denish Jangeed  
D3LT01

|    | 1<br>9:00 - 10:00           | 2<br>10:00 - 11:00        | 3<br>11:00 - 12:00          | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00               | 6<br>2:00 - 3:00                                                                                  | 7<br>3:00 - 4:00          |
|----|-----------------------------|---------------------------|-----------------------------|-------------------|--------------------------------|---------------------------------------------------------------------------------------------------|---------------------------|
| Mo | DM<br>NARENDRA<br>PALIWAL   | DOCS<br>GAURAV SHARMA     | SA-I<br>Jagdish Lohar       |                   | D3SH01<br>IT<br>Denish Jangeed | R & RS<br>Ajay Nagda                                                                              | GTE<br>Kritesh Chouhan    |
| Tu | DOCS<br>GAURAV SHARMA       | DM<br>NARENDRA<br>PALIWAL | WRE<br>Denish Jangeed       |                   | SA-I<br>Jagdish Lohar          | WRE LAB<br>Denish Jangeed<br>Group 1<br>D0LB02<br>GTE LAB<br>Kritesh Chouhan<br>Group 2           |                           |
| We | GTE<br>Kritesh Chouhan      | DOCS<br>GAURAV SHARMA     | CTE<br>OM KRISHNA<br>SHARMA |                   | WRE<br>Denish Jangeed          | SA-I<br>Jagdish Lohar                                                                             | DM<br>NARENDRA<br>PALIWAL |
| Th | R & RS<br>Ajay Nagda        | GTE<br>Kritesh Chouhan    | CTE<br>OM KRISHNA<br>SHARMA |                   | DOCS<br>GAURAV SHARMA          | GTE LAB<br>Kritesh Chouhan<br>Group 1<br>D0LB02<br>DOCS LAB<br>GAURAV SHARMA<br>Group 2<br>D2LT01 |                           |
| Fr | WRE<br>Denish Jangeed       | GTE<br>Kritesh Chouhan    | R & RS<br>Ajay Nagda        |                   | DM<br>NARENDRA<br>PALIWAL      | DOCS LAB<br>GAURAV SHARMA<br>Group 1<br>D2LB02<br>WRE LAB<br>Denish Jangeed<br>Group 2            |                           |
| Sa | CTE<br>OM KRISHNA<br>SHARMA | WRE<br>Denish Jangeed     | SA-I<br>Jagdish Lohar       |                   |                                | Technical Training<br>DJ / JL / Ajay Nagda                                                        |                           |

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# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## CE VII Sem

Class teacher : OM KRISHNA SHARMA, Kritesh Chouhan  
D2CR01

|    | 1<br>9:00 - 10:00             | 2<br>10:00 - 11:00       | 3<br>11:00 - 12:00        | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00              | 6<br>2:00 - 3:00                                                                            | 7<br>3:00 - 4:00 |
|----|-------------------------------|--------------------------|---------------------------|-------------------|-------------------------------|---------------------------------------------------------------------------------------------|------------------|
| Mo | TE-II<br>OM KRISHNA<br>SHARMA | DSS<br>Dr. Manish Varma  | WRE-I<br>Denish Jangeed   |                   | ANMCE<br>Dr. Rekha Lahoti     | DWRS Lab<br>Denish Jangeed<br>Group 1<br>D2LT01<br>CSD Lab-II<br>GAURAV SHARMA<br>Group 2   |                  |
| Tu | ANMCE<br>Dr. Rekha Lahoti     | DSS<br>Dr. Manish Varma  | ATE<br>Kritesh Chouhan    |                   | TE-II<br>OM KRISHNA<br>SHARMA | Project 1<br>Dr. Manish Varma / Rajanikant Suthar                                           |                  |
| We | TE-II<br>OM KRISHNA<br>SHARMA | DSS<br>Dr. Manish Varma  | WRE-I<br>Denish Jangeed   |                   | ATE<br>Kritesh Chouhan        | CSD Lab-II<br>GAURAV SHARMA<br>Group 1<br>D2LT01<br>DWRS Lab<br>Denish Jangeed<br>Group 2   |                  |
| Th | DOCS-II<br>GAURAV SHARMA      | WRE-I<br>Denish Jangeed  | ANMCE<br>Dr. Rekha Lahoti |                   | TE-II<br>OM KRISHNA<br>SHARMA | ANMCE Lab<br>Jagdish Lohar<br>Group 1<br>D2LB01<br>SSD Lab-I<br>Dr. Manish Varma<br>Group 2 |                  |
| Fr | ANMCE<br>Dr. Rekha Lahoti     | DOCS-II<br>GAURAV SHARMA | DOCS-II<br>GAURAV SHARMA  |                   | WRE-I<br>Denish Jangeed       | SSD Lab-I<br>Dr. Manish Varma<br>Group 1<br>D2LB01<br>ANMCE Lab<br>Jagdish Lohar<br>Group 2 |                  |
| Sa | ATE<br>Kritesh Chouhan        | DOCS-II<br>GAURAV SHARMA | DSS<br>Dr. Manish Varma   |                   |                               | PT&IV<br>Kritesh Chouhan / OKS                                                              |                  |

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# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## MCA SEM I

A2CR08

|    | 1<br>9:00 - 10:00                      | 2<br>10:00 - 11:00                     | 3<br>11:00 - 12:00                  | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00                     | 6<br>2:00 - 3:00                          | 7<br>3:00 - 4:00 |
|----|----------------------------------------|----------------------------------------|-------------------------------------|-------------------|--------------------------------------|-------------------------------------------|------------------|
| Mo | AFM<br><i>Jitendra Charan</i>          | C & C++<br><i>Hemant Sahu</i>          | OS<br><i>Dr. Manish Saraswat</i>    |                   | CA<br><i>Saurabh Porwal</i>          | A2LB01<br>CPP Lab<br><i>Hemant Sahu</i>   |                  |
| Tu | OS<br><i>Dr. Manish Saraswat</i>       | AFM<br><i>Jitendra Charan</i>          | DM<br><i>Dr. Gajendra Pal Singh</i> |                   | Comm. Skill<br><i>Anjali Dhabhai</i> | A2LB01<br>OM LAB<br><i>Dinesh Yadav</i>   |                  |
| We | Comm. Skill<br><i>Dr. Deepika Sahu</i> | C & C++<br><i>Hemant Sahu</i>          | CA<br><i>Saurabh Porwal</i>         |                   | OS<br><i>Dr. Manish Saraswat</i>     | A2LB01<br>CPP Lab<br><i>Hemant Sahu</i>   |                  |
| Th | OS<br><i>Dr. Manish Saraswat</i>       | Comm. Skill<br><i>Dr. Deepika Sahu</i> | DM<br><i>Dr. Gajendra Pal Singh</i> |                   | C & C++<br><i>Hemant Sahu</i>        | A1LB05<br>MP LAB<br><i>Saurabh Porwal</i> |                  |
| Fr | AFM<br><i>Jitendra Charan</i>          | CA<br><i>Saurabh Porwal</i>            | DM<br><i>Dr. Gajendra Pal Singh</i> |                   | Comm. Skill<br><i>Anjali Dhabhai</i> | A1LB05<br>MP LAB<br><i>Saurabh Porwal</i> |                  |
| Sa | CA<br><i>Saurabh Porwal</i>            | C & C++<br><i>Hemant Sahu</i>          | DM<br><i>Dr. Gajendra Pal Singh</i> |                   | AFM<br><i>Jitendra Charan</i>        | A2LB01<br>OM LAB<br><i>Dinesh Yadav</i>   |                  |

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# GEETANJALI INSTITUTE OF TECHNICAL STUDIES, DABOK

## MCA SEM III

A2CR07

|    | 1<br>9:00 - 10:00              | 2<br>10:00 - 11:00                                | 3<br>11:00 - 12:00                  | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00                    | 6<br>2:00 - 3:00                                  | 7<br>3:00 - 4:00                    |
|----|--------------------------------|---------------------------------------------------|-------------------------------------|-------------------|-------------------------------------|---------------------------------------------------|-------------------------------------|
| Mo | ToC<br><i>Dinesh Yadav</i>     | A2LB01<br>JAVA LAB<br><i>Mukesh Chaudhary</i>     |                                     |                   | WTD<br><i>Mukesh Chaudhary</i>      | A2LB02<br>ADBMS LAB<br><i>Dr. Manish Saraswat</i> |                                     |
| Tu | CG<br><i>Chintal Patel</i>     | JT<br><i>Mukesh Chaudhary</i>                     | ADBMS<br><i>Dr. Manish Saraswat</i> |                   | WTD<br><i>Mukesh Chaudhary</i>      | A2LB02<br>CG LAB<br><i>Chintal Patel</i>          |                                     |
| We | WTD<br><i>Mukesh Chaudhary</i> | A2LB02<br>WD LAB<br><i>Mukesh Chaudhary</i>       |                                     |                   | CG<br><i>Chintal Patel</i>          | JT<br><i>Mukesh Chaudhary</i>                     | ADBMS<br><i>Dr. Manish Saraswat</i> |
| Th | ToC<br><i>Dinesh Yadav</i>     | JT<br><i>Mukesh Chaudhary</i>                     | CG<br><i>Chintal Patel</i>          |                   | ADBMS<br><i>Dr. Manish Saraswat</i> | A2LB01<br>JAVA LAB<br><i>Mukesh Chaudhary</i>     |                                     |
| Fr | ToC<br><i>Dinesh Yadav</i>     | A2LB02<br>ADBMS LAB<br><i>Dr. Manish Saraswat</i> |                                     |                   | JT<br><i>Mukesh Chaudhary</i>       | A2LB02<br>CG LAB<br><i>Chintal Patel</i>          |                                     |
| Sa | ToC<br><i>Dinesh Yadav</i>     | WTD<br><i>Mukesh Chaudhary</i>                    | CG<br><i>Chintal Patel</i>          |                   | ADBMS<br><i>Dr. Manish Saraswat</i> | A2LB02<br>WD LAB<br><i>Mukesh Chaudhary</i>       |                                     |

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## MCA SEM V

A2CR09

|    | 1<br>9:00 - 10:00                     | 2<br>10:00 - 11:00                         | 3<br>11:00 - 12:00                  | 4<br>12:00 - 1:00 | 5<br>1:00 - 2:00                      | 6<br>2:00 - 3:00                           | 7<br>3:00 - 4:00 |
|----|---------------------------------------|--------------------------------------------|-------------------------------------|-------------------|---------------------------------------|--------------------------------------------|------------------|
| Mo | CCSOA<br><i>Dr. Manish Saraswat</i>   | WCT<br><i>Anurag Paliwal</i>               | ADOA<br><i>Chintal Patel</i>        |                   | BDTA<br><i>Dinesh Yadav</i>           | A1LB01<br>WCT LAB<br><i>Anurag Paliwal</i> |                  |
| Tu | BDTA<br><i>Dinesh Yadav</i>           | A1LB01<br>WCT LAB<br><i>Anurag Paliwal</i> |                                     |                   | A2SH01<br>DBICS<br><i>Hemant Sahu</i> | A2SH01<br>Seminar<br><i>Hemant Sahu</i>    |                  |
| We | CCSOA<br><i>Dr. Manish Saraswat</i>   | A2LB01<br>MA LAB<br><i>Dinesh Yadav</i>    |                                     |                   | WCT<br><i>Anurag Paliwal</i>          | A2LB02<br>ADA Lab<br><i>Chintal Patel</i>  |                  |
| Th | A2SH01<br>DBICS<br><i>Hemant Sahu</i> | BDTA<br><i>Dinesh Yadav</i>                | CCSOA<br><i>Dr. Manish Saraswat</i> |                   | ADOA<br><i>Chintal Patel</i>          | A2LB02<br>ADA Lab<br><i>Chintal Patel</i>  |                  |
| Fr | CCSOA<br><i>Dr. Manish Saraswat</i>   | ADOA<br><i>Chintal Patel</i>               | WCT<br><i>Anurag Paliwal</i>        |                   | A2SH01<br>DBICS<br><i>Hemant Sahu</i> | A2LB01<br>MA LAB<br><i>Dinesh Yadav</i>    |                  |
| Sa | A2SH01<br>DBICS<br><i>Hemant Sahu</i> | WCT<br><i>Anurag Paliwal</i>               | BDTA<br><i>Dinesh Yadav</i>         |                   | ADOA<br><i>Chintal Patel</i>          | A2SH01<br>Seminar<br><i>Hemant Sahu</i>    |                  |

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# GEETANJALI INSTITUTE OF TECHNICAL STUDIES

(Approved by AICTE, New Delhi and Affiliated to Rajasthan Technical University Kota(Raj.))

DABOK, UDAIPUR, RAJASTHAN 313022

## COURSE-PLAN

| UNIT | Lect. No. | TOPICS                                                       | Teaching Methods/<br>Teaching Aids | Date of Plan | Actual Date of Delivery |
|------|-----------|--------------------------------------------------------------|------------------------------------|--------------|-------------------------|
| I    | 1         | Introduction Objective, scope and outcome of the course      | L/WB                               | 15-07-2019   | 16-07-19                |
| I    | 2         | Basic Structure of Computers, Functional units               | L/WB                               | 16-07-2019   | 17-07-19                |
| I    | 3         | Software, Performance issues Software                        | L/WB                               | 17-07-2019   | 22-07-19                |
| I    | 4         | Machine instructions and programs                            | L/PPT                              | 20-07-2019   | 23-07-19                |
| I    | 5         | Types of instructions,                                       | L/PPT                              | 22-07-2019   | 24-07-19                |
| I    | 6         | Instruction sets                                             | L/WB                               | 23-07-2019   | 26-07-19                |
| I    | 7         | Instruction formats                                          | L/WB                               | 24-07-2019   | 29-07-19                |
| I    | 8         | Assembly language                                            | L/WB                               | 27-07-2019   | 30-07-19                |
| I    | 9         | Stacks, Ques, Subroutines                                    | L/WB                               | 29-07-2019   | 31-07-19                |
| II   | 10        | Processor organization, Information representation           | L/WB                               | 30-07-2019   | 05-08-19                |
| II   | 11        | Number formats                                               | L/WB                               | 31-07-2019   | 07-08-19                |
| II   | 12        | Multiplication                                               | L/WB                               | 03-08-2019   | 09-08-19                |
| II   | 13        | Division                                                     | L/WB                               | 05-08-2019   | 19-08-19                |
| II   | 14        | ALU design,                                                  | L/PPT                              | 06-08-2019   | 20-08-19                |
| II   | 15        | Floating Point arithmetic                                    | L/WB                               | 07-08-2019   | 23-08-19                |
| II   | 16        | IEEE 754 floating point formats                              | L/WB                               | 13-08-2019   | 26-08-19                |
| III  | 17        | Control Design                                               | L/WB                               | 14-08-2019   | 09-09-19                |
| III  | 18        | Instruction sequencing, Interpretation                       | L/WB                               | 17-08-2019   | 11-09-19                |
| III  | 19        | Hard wired Control Design methods                            | L/WB                               | 19-08-2019   | 12-09-19                |
| III  | 20        | CPU control unit                                             | L/WB                               | 20-08-2019   | 16-09-19                |
| III  | 21        | Micro programmed Control - Basic concepts                    | L/WB                               | 21-08-2019   | 17-09-19                |
| III  | 22        | minimizing microinstruction size                             | L/WB                               | 26-08-2019   | 18-09-19                |
| III  | 23        | multiplier control unit                                      | L/WB                               | 27-08-2019   | 21-09-19                |
| III  | 24        | Micro programmed computers - CPU control unit                | L/WB                               | 03-09-2019   | 23-09-19                |
| IV   | 25        | Memory organizations, device characteristics                 | L/WB                               | 04-09-2019   | 24-09-19                |
| IV   | 26        | RAM, ROM                                                     | L/PPT                              | 07-09-2019   | 25-09-19                |
| IV   | 27        | Memory management, Concept of Cache                          | L/WB                               | 09-09-2019   | 28-09-19                |
| IV   | 28        | associative memories                                         | L/WB                               | 10-09-2019   | 30-09-19                |
| IV   | 29        | Virtual memory                                               | L/WB                               | 11-09-2019   | 01-10-19                |
| V    | 30        | System organization- Input - Output systems                  | L/WB                               | 14-09-2019   | 03-10-19                |
| V    | 31        | Interrupt                                                    | L/WB                               | 16-09-2019   | 05-10-19                |
| V    | 32        | DMA, Standard I/O interfaces                                 | L/PPT                              | 17-09-2019   | 09-10-19                |
| V    | 33        | Concept of parallel processing, Forms of parallel processing | L/WB                               | 18-09-2019   | 09-10-19                |
| V    | 34        | Pipelining                                                   | L/WB                               | 21-09-2019   | 14-10-19                |
| V    | 35        | Interconnect network                                         | L/WB                               | 23-09-2019   | 15-10-19                |

Signature of Faculty:

Name of faculty: Ravi Teli

Subject with Code: 4EC3-01 Computer Architecture

Teacher's Record Book

  
DIRECTOR







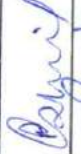


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Signature of HOD

NBA CODE: CO353-01








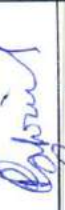




**Geetanjali Institute of Technical Studies**  
**Department of Electronics and Communication**  
**Course Progress Report (II Year, III Sem) (02-07-19 to 31-10-19)**

| S.No. | Subject Name                                  | Subject Code | No. of Lectures Reqd as per lecture plan | Lectures taken till date | Course Covered in (%) | Course will be completed by Date | No. of Extra Periods Reqd | Name of Faculty    | Signature                                                                           |
|-------|-----------------------------------------------|--------------|------------------------------------------|--------------------------|-----------------------|----------------------------------|---------------------------|--------------------|-------------------------------------------------------------------------------------|
| 1     | Advanced Engineering Mathematics-I            | 3EC2-01      | 45                                       | 44                       | 90%                   | EOS                              | Nil                       | Dr. Rekha Lahoti   |    |
| 2     | Managerial Economics and Financial Accounting | 3EC1-03      | 35                                       | 24                       | 92%                   | EOS                              | NIL                       | Mr. Lokesh Mali    |    |
| 3     | Digital System Design                         | 3EC4-04      | 40                                       | 42                       | 95%                   | EOS                              | NIL                       | Mr. Saurabh Porwal |    |
| 4     | Signal & Systems                              | 3EC4-05      | 40                                       | 42                       | 95%                   | EOS                              | NIL                       | Mr. Saurabh Porwal |    |
| 5     | Network Theory                                | 3EC4-06      | 40                                       | 42                       | 97%                   | EOS                              | NIL                       | Mr. Rahul Moud     |    |
| 6     | Electronics Devices                           | 3EC4-07      | 40                                       | 46                       | 95%                   | EOS                              | NIL                       | Mr. Ronak Shrimal  |   |
| 7     | Electronics Devices Lab                       | 3EC4-21      | 10                                       | 09                       | 100%                  | EOS                              | NIL                       | Mr. Ronak Shrimal  |  |
| 8     | Digital System Design Lab                     | 3EC4-22      | 07                                       | 06                       | 90%                   | EOS                              | NIL                       | Mr. Saurabh Porwal |  |
| 9     | Signal Processing Lab                         | 3EC4-23      | 08                                       | 08                       | 100%                  | EOS                              | NIL                       | Mr. Saurabh Porwal |  |
| 10    | Computer Programming Lab-I                    | 3EC3-24      |                                          |                          |                       |                                  |                           | Ms. Ruchi Vyas     |                                                                                     |

  
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**Geetanjali Institute of Technical Studies**  
**Department of Electronics and Communication**  
**Course Progress Report (II Year, III Sem) (02-07-19 to 30-09-19)**

| S.No. | Subject Name                                  | Subject Code | No. of Lectures Reqd as per lecture plan | Lectures taken till date | Course Covered in (%) | Course will be completed by Date | No. of Extra Periods Reqd | Name of Faculty    | Signature                                                                           |
|-------|-----------------------------------------------|--------------|------------------------------------------|--------------------------|-----------------------|----------------------------------|---------------------------|--------------------|-------------------------------------------------------------------------------------|
| 1     | Advanced Engineering Mathematics-I            | 3EC2-01      | 45                                       | 36                       | 76%                   | EoS                              | NIL                       | Dr. Rekha Lahoti   |    |
| 2     | Managerial Economics and Financial Accounting | 3EC1-03      | 35                                       | 19                       | 80%                   | EoS                              | NIL                       | Mr. Lokesh Mali    |    |
| 3     | Digital System Design                         | 3EC4-04      | 42                                       | 38                       | 75%                   | EoS                              | 02                        | Mr. Saurabh Porwal |    |
| 4     | Signal & Systems                              | 3EC4-05      | 40                                       | 35                       | 75%                   | EoS                              | 02                        | Mr. Saurabh Porwal |    |
| 5     | Network Theory                                | 3EC4-06      | 42                                       | 37                       | 88%                   | EoS                              | 02                        | Mr. Rahul Moud     |    |
| 6     | Electronics Devices                           | 3EC4-07      | 45                                       | 42                       | 85%                   | EoS                              | NIL                       | Mr. Ronak Shrimal  |    |
| 7     | Electronics Devices Lab                       | 3EC4-21      | 10                                       | 8                        | 100%                  | EoS                              | NIL                       | Mr. Ronak Shrimal  |   |
| 8     | Digital System Design Lab                     | 3EC4-22      | 7                                        | 5                        | 75%                   | EoS                              | NIL                       | Mr. Saurabh Porwal |  |
| 9     | Signal Processing Lab                         | 3EC4-23      | 7                                        | 5                        | 75%                   | EoS                              | NIL                       | Mr. Saurabh Porwal |  |
| 10    | Computer Programming Lab-I                    | 3EC3-24      |                                          |                          |                       |                                  |                           | Ms. Ruchi Vyas     |  |

  
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**Geetanjali Institute of Technical Studies**  
**Department of Electronics and Communication**  
**Course Progress Report (III Year, V Sem) (15-07-19 to 30-09-19)**

| S.No. | Subject Name                  | Subject Code | No. of Lectures Reqd as per lecture plan | Lectures taken till date | Course Covered in (%) | Course will be completed by Date | No. of Extra Periods Reqd | Name of Faculty     | Signature                                                                           |
|-------|-------------------------------|--------------|------------------------------------------|--------------------------|-----------------------|----------------------------------|---------------------------|---------------------|-------------------------------------------------------------------------------------|
| 1     | Computer Architecture         | SEC3-01      | 35                                       | 27                       | 65%                   | EOS                              | NIL                       | Mr. Ravi Teli       |    |
| 2     | Electromagnetics Waves        | SEC4-02      | 40                                       | 33                       | 80%                   | EOS                              | -                         | Mr. Rahul Moud      |    |
| 3     | Control system                | SEC4-03      | 42                                       | 28                       | 58%                   | EOS                              | 06                        | Ms. Tina Bhati      |    |
| 4     | Digital Signal Processing     | SEC4-04      | 40                                       | 29                       | 65%                   | EOS                              | NIL                       | Ms. Meena Kushwaha  |    |
| 5     | Microwave Theory & Techniques | SEC4-05      | 40                                       | 34                       | 90%                   | EOS                              | NIL                       | Mr. Md. Sabir       |    |
| 6     | Bio-Medical Electronics       | SEC5-11      | 28                                       | 22                       | 90%                   | 15 OCT 2019                      | NIL                       | Dr. Anurag Paliwal  |    |
| 7     | RF Simulation Lab             | SEC4-21      | 11                                       | 10                       | 90%                   | EOS                              | NIL                       | Mr. Md. Sabir       |  |
| 8     | Digital Signal Processing Lab | SEC4-22      | 6                                        | 4                        | 70%                   | EOS                              | NIL                       | Mr. Saurabh Porwal  |  |
| 9     | Microwave Lab                 | SEC4-23      | 6                                        | 5                        | 83%                   | EOS                              | NIL                       | Mr. Md. Sabir       |  |
| 10    | Industrial Training           | SEC7-30      |                                          |                          |                       |                                  |                           | Prof. Rajeev Mathur |                                                                                     |

  
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**Geetanjali Institute of Technical Studies**  
**Department of Electronics and Communication**  
**Course Progress Report (IV Year VII Sem) (02-07-19 to 30-09-19)**

| S.No. | Subject Name                          | Subject Code | No. of Lectures Reqd as per lecture plan | Lectures taken till date | Course Covered in (%) | Course will be completed by Date | No. of Extra Periods Reqd | Name of Faculty                     | Signature |
|-------|---------------------------------------|--------------|------------------------------------------|--------------------------|-----------------------|----------------------------------|---------------------------|-------------------------------------|-----------|
| 1     | Antenna & Wave Propagation            | 7EC1A        | 36                                       | 25                       | 80%                   | EoS                              | NIL                       | Prof. Rajeev Mathur                 |           |
| 2     | Digital Signal Processing             | 7EC2A        | 40                                       | 25                       | 80%                   | EoS                              | NIL                       | Ms. Meena Kushwaha                  |           |
| 3     | Digital Image Processing              | 7EC3A        | 40                                       | 20                       | 80%                   | EoS                              | 3                         | Prof. Rajeev Mathur                 |           |
| 4     | Wireless Communication                | 7EC4A        | 40                                       | 23                       | 80%                   | EoS                              | NIL                       | Mr. Ronak Shrimal                   |           |
| 5     | VLSI Design                           | 7EC5A        | 40                                       | 28                       | 80%                   | EoS                              | NIL                       | Dr. Vijendra Maurya                 |           |
| 6     | VHDL                                  | 7EC6A        |                                          |                          |                       |                                  |                           | Mr. Latif Khan                      |           |
| 7     | Signal & Image Processing Lab         | 7EC7A        | 09                                       | 06                       | 66%                   | EoS                              | NIL                       | Ms. Meena Kushwaha / Mr. Ravi Teli  |           |
| 8     | Wireless Communication Lab            | 7EC8A        | 10                                       | 05                       | 65%                   | EoS                              | NIL                       | Dr. Anurag Paliwal                  |           |
| 9     | Practical Training & Industrial Visit | 7EC9A        | 5                                        | 2                        | 20%                   | EoS                              | NIL                       | Mr. Saurabh Porwal / Mr. Rahul Moud |           |
| 10    | Project-I                             | 7EC10A       |                                          |                          |                       |                                  |                           | Prof. Rajeev Mathur                 |           |

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**Geetanjali Institute of Technical Studies**  
**Department of Electronics and Communication**  
**Course Progress Report (II Year, III Sem) (02-07-19 to 31-08-19)**

| S.No. | Subject Name                                  | Subject Code | No. of Lectures Reqd as per lecture plan | Lectures taken till date | Course Covered in (%) | Course will be completed by Date | No. of Extra Periods Reqd | Name of Faculty    | Signature                                                                           |
|-------|-----------------------------------------------|--------------|------------------------------------------|--------------------------|-----------------------|----------------------------------|---------------------------|--------------------|-------------------------------------------------------------------------------------|
| 1     | Advanced Engineering Mathematics-I            | 3EC2-01      | 40                                       | 25                       | 48%                   | EOS                              | 03                        | Dr. Rekha Lahoti   |    |
| 2     | Managerial Economics and Financial Accounting | 3EC1-03      | 35                                       | 13                       | 40%                   | EOS                              | 05                        | Mr. Lokesh Mali    |    |
| 3     | Digital System Design                         | 3EC4-04      | 40                                       | 29                       | 50%                   | EOD                              | 05                        | Mr. Saurabh Porwal |    |
| 4     | Signal & Systems                              | 3EC4-05      | 40                                       | 25                       | 50%                   | EOD                              | 03                        | Mr. Saurabh Porwal |    |
| 5     | Network Theory                                | 3EC4-06      | 36                                       | 22                       | 50%                   | EOS                              | NIL                       | Mr. Rahul Moud     |    |
| 6     | Electronics Devices                           | 3EC4-07      | 40                                       | 25                       | 50%                   | EOS                              | NIL                       | Mr. Ronak Shrinani |    |
| 7     | Electronics Devices Lab                       | 3EC4-21      | 10                                       | 05                       | 50%                   | EOS                              | NIL                       | Mr. Ronak Shrinani |   |
| 8     | Digital System Design Lab                     | 3EC4-22      | 08                                       | 03                       | 40%                   | EOD                              | 01                        | Mr. Saurabh Porwal |  |
| 9     | Signal Processing Lab                         | 3EC4-23      | 08                                       | 03                       | 40%                   | EOD                              | NIL                       | Mr. Saurabh Porwal |  |
| 10    | Computer Programming Lab-I                    | 3EC3-24      | 10                                       | 05                       | 40%                   | EOS                              | NIL                       | Ms. Ruchi Vyas     |  |

  
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**Geetanjali Institute of Technical Studies**  
**Department of Electronics and Communication**  
**Course Progress Report (III Year, V Sem) (15-07-19 to 31-08-19)**


| S.No. | Subject Name                  | Subject Code | No. of Lectures Reqd as per lecture plan | Lectures taken till date | Course Covered in (%) | Course will be completed by Date | No. of Extra Periods Reqd | Name of Faculty                    | Signature                                                                           |
|-------|-------------------------------|--------------|------------------------------------------|--------------------------|-----------------------|----------------------------------|---------------------------|------------------------------------|-------------------------------------------------------------------------------------|
| 1     | Computer Architecture         | 5EC 3-01     | 28                                       | 15                       | 40%                   | EOS                              | NIL                       | Mr. Ravi Teli                      |    |
| 2     | Electromagnetics Waves        | 5EC 4-02     | 36                                       | 16                       | 40%                   | EOS                              | NIL                       | Mr. Rahul Moud                     |    |
| 3     | Control system                | 5EC 4-03     | 50                                       | 16                       | 25%                   | EOS                              | 8                         | Ms. Tina Bhati                     |    |
| 4     | Digital Signal Processing     | 5EC 4-04     | 40                                       | 17                       | 40%                   | EOS                              | NIL                       | Ms. Meena Kushwaha                 |    |
| 5     | Microwave Theory & Techniques | 5EC 4-05     | 36                                       | 16                       | 40%                   | EOS                              | NIL                       | Mr. Md. Sabir                      |    |
| 6     | Bio-Medical Electronics       | 5EC 5-11     | 28                                       | 12                       | 45%                   | EOS                              | NIL                       | Dr. Anurag Paliwal                 |    |
| 7     | RF Simulation Lab             | 5EC 4-21     | 08                                       | 03                       | 40%                   | EOS                              | NIL                       | Mr. Md. Sabir / Mr. Ronak Shrivast |   |
| 8     | Digital Signal Processing Lab | 5EC 4-22     | 08                                       | 03                       | 45%                   | EOD                              | NIL                       | Mr. Saurabh Porwal                 |  |
| 9     | Microwave Lab                 | 5EC 4-23     | 04                                       | 03                       | 40%                   | EOS                              | NIL                       | Mr. Md. Sabir                      |  |
| 10    | Industrial Training           | 5EC 7-30     |                                          |                          |                       |                                  |                           | Prof. Rajeev Mathur                |                                                                                     |

  
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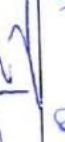









**Geetanjali Institute of Technical Studies**  
**Department of Electronics and Communication**  
**Course Progress Report (IV Year VII Sem) (02-07-19 to 31-08-19)**


| S.No. | Subject Name                          | Subject Code | No. of Lectures Reqd as per lecture plan | Lectures taken till date | Course Covered in (%) | Course will be completed by Date | No. of Extra Periods Reqd | Name of Faculty                     | Signature                                                                           |
|-------|---------------------------------------|--------------|------------------------------------------|--------------------------|-----------------------|----------------------------------|---------------------------|-------------------------------------|-------------------------------------------------------------------------------------|
| 1     | Antenna & Wave Propagation            | 7EC1A        | 40                                       | 14                       | 45%                   | EOS                              | NIL                       | Prof. Rajeev Mathur                 |    |
| 2     | Digital Signal Processing             | 7EC2A        | 40                                       | 12                       | 40%                   | EOS                              | NIL                       | Ms. Meena Kushwaha                  |    |
| 3     | Digital Image Processing              | 7EC3A        | 38                                       | 11                       | 35%                   | EOS                              | NIL                       | Prof. Rajeev Mathur                 |    |
| 4     | Wireless Communication                | 7EC4A        | 40                                       | 09                       | 36%                   | EOS                              | NIL                       | Mr. Ronak Shrinial                  |    |
| 5     | VLSI Design                           | 7EC5A        | 35                                       | 13                       | 40%                   | EOS                              | NIL                       | Dr. Vijendra Maurya                 |    |
| 6     | VHDL                                  | 7EC6A        | 40                                       | 10                       | 35%                   | EOS                              | NIL                       | Mr. Latif Khan                      |    |
| 7     | Signal & Image Processing Lab         | 7EC7A        | 09                                       | 01                       | 10%                   | EOS                              | NIL                       | Ms. Meena Kushwaha / Mr. Ravi Teli  |   |
| 8     | Wireless Communication Lab            | 7EC8A        | 10                                       | 01                       | 10%                   | EOS                              | NIL                       | Dr. Anurag Paliwal                  |  |
| 9     | Practical Training & Industrial Visit | 7EC9A        | 08                                       | 01                       | 10%                   | EOS                              | NIL                       | Mr. Saurabh Porwal / Mr. Rahul Moud |  |
| 10    | Project-I                             | 7EC10A       | —                                        | —                        | —                     | —                                | —                         | Prof. Rajeev Mathur                 |  |

  
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**Geetanjali Institute of Technical Studies**  
**Department of Electronics and Communication**  
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| S.No. | Subject Name                          | Subject Code | No. of Lectures Reqd as per lecture plan | Lectures taken till date | Course Covered "in" (%) | Course will be completed by Date | No. of Extra Periods Reqd | Name of Faculty     | Signature                                                                           |
|-------|---------------------------------------|--------------|------------------------------------------|--------------------------|-------------------------|----------------------------------|---------------------------|---------------------|-------------------------------------------------------------------------------------|
| 1     | Antenna & Wave Propagation            | 7EC1A        | 38                                       | 05                       | 20%                     | EoS                              | NO                        | Prof. Rajeev Mathur |    |
| 2     | Digital Signal Processing             | 7EC2A        | 38                                       | 04                       | 15%                     | EoS                              | NO                        | Ms. Meena Kushwaha  |    |
| 3     | Digital Image Processing              | 7EC3A        | 38                                       | 05                       | 15                      | EoS                              | NO                        | Mr. Ravi Teli       |    |
| 4     | Wireless Communication                | 7EC4A        | 38                                       | 05                       | 15%                     | EoS                              | NO                        | Mr. Ronak Shirmal   |    |
| 5     | VLSI Design                           | 7EC5A        | 38                                       | 04                       | 12                      | EOD                              | NO                        | Dr. Vijendra Maurya |    |
| 6     | VHDL                                  | 7EC6A        | 40                                       | 04                       | 12                      | EOD                              | NO                        | Mr. Latif Khan      |    |
| 7     | Signal & Image Processing Lab         | 7EC7A        | 09                                       | 01                       | 10%                     | EoS                              | NO                        | Mr. Ravi Teli       |    |
| 8     | Wireless Communication Lab            | 7EC8A        | 10                                       | 01                       | 10%                     | EoS                              | NO                        | Dr. Anurag Paliwal  |  |
| 9     | Practical Training & Industrial Visit | 7EC9A        | 12                                       | 00                       | 00                      | EoS                              | NO                        | Dr. Anurag Paliwal  |  |
| 10    | Project-I                             | 7EC10A       | 10                                       | 01                       | -NA                     | EoS                              | NO                        | Prof. Rajeev Mathur |  |

sent to Dean (Read) Sir

  
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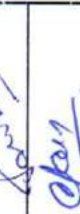




**Geetanjali Institute of Technical Studies**  
**Department of Electronics and Communication**  
**Course Progress Report (III Year, V Sem) (15-07-19 to 31-07-19)**

| S.No. | Subject Name                  | Subject Code | No. of Lectures Reqd as per lecture plan | Lectures taken till date | Course Covered in (%) | Course will be completed by Date | No. of Extra Periods Reqd | Name of Faculty                      | Signature                                                                           |
|-------|-------------------------------|--------------|------------------------------------------|--------------------------|-----------------------|----------------------------------|---------------------------|--------------------------------------|-------------------------------------------------------------------------------------|
| 1     | Computer Architecture         | 5EC 3-01     | 28                                       | 08                       | 20%                   | EoS                              | NO                        | Mr. Ravi Teli                        |    |
| 2     | Electromagnetics Waves        | 5EC 4-02     | 32                                       | 06                       | 20%                   | EoS                              | NO                        | Mr. Rahul Moud                       |    |
| 3     | Control system                | 5EC 4-03     | 50                                       | 09                       | 8%                    | EoS                              | YES                       | Ms. Tina Bhati                       |    |
| 4     | Digital Signal Processing     | 5EC 4-04     | 40                                       | 10                       | 25%                   | EoS                              | NO                        | Ms. Meena Kushwaha                   |    |
| 5     | Microwave Theory & Techniques | 5EC 4-05     | 42                                       | 08                       | 20%                   | EoS                              | NO                        | Mr. Md. Sabir                        |    |
| 6     | Bio-Medical Electronics       | 5EC 5-11     | 28                                       | 07                       | 20%                   | EoS                              | NO                        | Dr. Anurag Paliwal                   |    |
| 7     | RF Simulation Lab             | 5EC 4-21     | 10                                       | 02                       | 20%                   | EoS                              | NO                        | Mr. Md. Sabir / Mr. Roank shrimal    |    |
| 8     | Digital Signal Processing Lab | 5EC 4-22     | 10                                       | 01                       | 10%                   | EoS                              | NO                        | Mr. Naveen Jain / Ms. Meena Kushwaha |    |
| 9     | Microwave Lab                 | 5EC 4-23     | 10                                       | 02                       | 20%                   | EoS                              | NO                        | Mr. Md. Sabir                        |   |
| 10    | Industrial Training           | 5EC 7-30     | 10                                       | 01                       | NA                    | -EoS                             | NO                        | Prof. Rajeev Mathur                  |  |

  
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**Geetanjali Institute of Technical Studies**  
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| S.No. | Subject Name                                  | Subject Code | No. of Lectures Reqd as per lecture plan | Lectures taken till date | Course Covered in (%) | Course will be completed by Date | No. of Extra Periods Reqd | Name of Faculty            | Signature                                                                           |
|-------|-----------------------------------------------|--------------|------------------------------------------|--------------------------|-----------------------|----------------------------------|---------------------------|----------------------------|-------------------------------------------------------------------------------------|
| 1     | Advanced Engineering Mathematics-I            | 3EC2-01      | 40                                       | 18                       | 25%                   | EoS                              | 04                        | Dr. Mr. Gajendra Pal Singh |    |
| 2     | Managerial Economics and Financial Accounting | 3EC1-03      | 35                                       | 10                       | 30%                   | EoS                              | NIL                       | Mr. Lokesh Mali            |    |
| 3     | Digital System Design                         | 3EC4-04      | 40                                       | 18                       | 35%                   | EoS                              | 05                        | Mr. Saurabh Porwal         |    |
| 4     | Signal & Systems                              | 3EC4-05      | 40                                       | 19                       | 35%                   | EoS                              | NIL                       | Mr. Naveen Jain            |    |
| 5     | Network Theory                                | 3EC4-06      | 36                                       | 15                       | 35%                   | EoS                              | NIL                       | Mr. Rahul Moud             |    |
| 6     | Electronics Devices                           | 3EC4-07      | 40                                       | 17                       | 30%                   | EoS                              | NIL                       | Mr. Ronak Shirmal          |   |
| 7     | Electronics Devices Lab                       | 3EC4-21      | 10                                       | 03                       | 12%                   | EoS                              | NIL                       | Mr. Ronak Shirmal          |  |
| 8     | Digital System Design Lab                     | 3EC4-22      | 08                                       | 02                       | 10%                   | EoS                              | NIL                       | Mr. Saurabh Porwal         |  |
| 9     | Signal Processing Lab                         | 3EC4-23      | 10                                       | 02                       | 10%                   | EoS                              | NIL                       | Mr. Naveen Jain            |  |
| 10    | Computer Programming Lab-I                    | 3EC3-24      | 10                                       | 03                       | 10%                   | EoS                              | NIL                       | Ms. Ruchi Vyas             |  |

  
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