

## **Geethanjali College of Engineering and Technology**

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Cheeryal(V), Keesara(M), Medchal Dist., Telangana – 501 301.

# **Value Added Courses for the Academic Year: 2016-17**

**ACADEMIC YEAR**

**2016 – 17**

**ORACLE ACADEMY**

**Database Design and**

**Database Programming**

**With SQL**

## Database Design and Programming with SQL – Course Objectives

### Overview

This course engages students to analyze complex business scenarios and create a data model—a conceptual representation of an organization's information. Participants implement their database design by creating a physical database using SQL. Basic SQL syntax and the rules for constructing valid SQL statements are reviewed. This course culminates with a project that challenges students to design, implement, and demonstrate a database solution for a business or organization.

### Available Curriculum Languages:

- English, Simplified Chinese, Brazilian Portuguese, Spanish, Indonesian

### Duration

- Recommended total course time: 180 hours\*
- Professional education credit hours for educators who complete Oracle Academy training: 60

\* Course time includes instruction, self-study/homework, practices, projects, and assessment

### Target Audiences

#### Educators

- College/university faculty who teach computer programming, information communications technology (ICT), or a related subject
- Secondary school teachers who teach computer programming, ICT, or a related subject

#### Students

- Students who wish to learn the techniques and tools to design, build and extract information from a database
- Students who possess basic mathematical, logical, and analytical problem-solving skills
- Novice programmers, as well as those at advanced levels, to learning the SQL Programming language to an advanced level

### Prerequisites

#### Required

- Ease with using a computer
- General knowledge of databases and query activity

#### Suggested

- None

### Suggested Next Courses

- Database Programming with PL/SQL

  
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## Lesson-by-Lesson Topics and Objectives

### Database Design

#### Section 1 – Introduction

- 1-1 Introduction to the Oracle Academy
  - Give examples of jobs, salaries, and opportunities that are possible by participating in the Academy.
  - Explain how your participation in the Academy can help you take advantage of these opportunities.
- 1-2 Data vs. Information
  - Distinguish between data and information, and provide examples of each
  - Describe and give an example of how data becomes information
- 1-3 History of the Database
  - Describe the evolution of the database and give an example of its role in the business world
  - Name important historical contributions in database development and design
  - List and explain the three major steps in the database development process
- 1-4 Major Transformations in Computing
  - List the major transformations in computing that have occurred since the 1970's.
  - Define and give an example of these terms: hardware, operating system, software
  - Identify examples of businesses that use database software and explain how it is essential to their success
  - Explain the overall mission of the Oracle Corporation

#### Section 2 – Entities and Attributes

- 2-1 Conceptual and Physical Models
  - Explain the importance of clearly communicating and accurately capturing information requirements
  - Distinguish between a conceptual model and its physical implementation
  - List five reasons for building a conceptual data model
  - Give examples of conceptual models and physical models
- 2-2 Entities, Instances, Attributes, and Identifiers
  - Define and give an example of an entity
  - Distinguish between an entity and an instance of an entity
  - Name and describe attributes for a given entity
  - Distinguish between an attribute and its value
  - Distinguish between mandatory and optional attributes, and between volatile and nonvolatile attributes
  - Select and justify a unique identifier (UID) for an entity
- 2-3 Entity Relationship Modeling and ERDs
  - Define the meaning of "implementation-free" as it relates to data models and database design implementation
  - List the four goals of entity relationship modeling
  - Identify an entity relationship diagram (ERD)

#### Section 3 – Relationship Basics

- 3-1 Identifying Relationships
  - Interpret and describe relationship optionality
  - Interpret and describe relationship cardinality
  - Relate (connect or join) entities by applying the rules of cardinality and optionality
- 3-2 ER Diagramming Conventions
  - Construct ER diagram components that represent entities, attributes and relationships according to diagramming conventions
- 3-3 Speaking ERDish and Drawing Relationships
  - State relationships between entities in precise words (ERDish)
  - Draw and label relationships correctly on an ERD
- 3-4 Matrix Diagrams
  - Identify relationships using a matrix diagram
  - Draw an ERD from a matrix diagram

## Section 4 – Super/Sub Types and Business Rules

- 4-1 Supertypes and Subtypes
  - Define and give an example of a subtype
  - Define and give an example of a supertype
  - State the rules relating to entities and subtypes, and give examples of each
  - Apply the rules of supertype and subtype by evaluating the accuracy of ER diagrams that represent them
  - Apply the rules of supertype and subtype and include them in a diagram when appropriate
- 4-2 Documenting Business Rules
  - Define and compose a structural business rule
  - Define and compose a procedural business rule
  - Recognize that some business rules will require programming
  - Diagram business rules when they can be represented in an ER model

## Section 5 – Relationship Fundamentals

- 5-1 Relationship Transferability
  - Describe and give an example of relationship transferability
  - Understand the difference between transferable and nontransferable relationships
  - Illustrate nontransferable relationships on ERDs
- 5-2 Relationship Types
  - Recognize and give examples of a one-to-one relationship
  - Recognize and give examples of a one-to-many relationship
  - Recognize and give examples of a many-to-many relationship
  - Recognize redundant relationships and remove them from the ERD
- 5-3 Resolving Many-to-Many Relationships
  - Identify attributes which belong to many-to-many relationships
  - Demonstrate the steps to resolve a many-to-many relationship using an intersection entity
  - Identify the UID of an intersection entity and represent it in the entity relationship diagram
- 5-4 Understanding CRUD Requirements
  - Create ER models that reflect all business rules gathered during the interview process
  - Identify the create, retrieve, update, and delete (CRUD) requirements of the business
  - Validate your ER model by performing a CRUD analysis

## Section 6 – UIDs and Normalization

- 6-1 Artificial, Composite, and Secondary UIDs
  - Define the different types of unique identifiers (UIDs)
  - Define a candidate UID and explain why an entity can sometimes have more than one candidate UID
  - Analyze business rules and choose the most suitable primary UID from the candidates
  - Recognize and discuss the issues of identification in the real world
- 6-2 Normalization and First Normal Form
  - Define the purpose of normalization in database models
  - Define the rule of First Normal Form in the normalization process
  - Determine if an entity conforms to the rule of First Normal Form
  - Convert an entity to First Normal Form if needed
- 6-3 Second Normal Form
  - Define the rule of Second Normal Form in the normalization process
  - Examine a non-normalized entity and determine which rule, or rules of normalization are being violated
  - Apply the rule of Second Normal Form to resolve a violation in the model
- 6-4 Third Normal Form
  - Identify transitive dependencies in a data model
  - Define the rule of Third Normal Form in the normalization process
  - Examine a non-normalized entity and determine which rule, or rules of normalization are being violated
  - Apply the rule of Third Normal Form to resolve a violation in the model

## Section 7 – Arcs, Hierarchies, and Recursive Modeling

- 7-1 Arcs
  - Define the term "constraint" as it applies to data modeling
  - Identify an exclusive OR relationship in a business scenario
  - Diagram an arc constraint to represent an exclusive OR relationship
  - Distinguish between the use of an arc and a subtype in the data model
- 7-2 Hierarchies and Recursive Relationships
  - Define and give an example of a hierarchical relationship
  - Identify the UIDs in a hierarchical model
  - Define and give an example of a recursive relationship
  - Represent a recursive relationship in an ERD given a scenario
  - Construct a model using both recursion and hierarchies to express the same conceptual meaning

## Section 8 – Changes and Historical Modeling

- 8-1 Modeling Historical Data
  - Identify the need to track data that changes over time
  - Construct ERD models that incorporate elements of "data over time"
  - Identify the UID of an entity that stores historical data; explain and justify the choice of UID
- 8-2 Modeling Change: Time
  - Distinguish between using date as an attribute and DAY as an entity in a data model, depending on business requirements
  - Solve the problem of keeping characteristics of a date by constructing a model that uses DAY as an entity
  - Identify at least three time-related constraints that can result from a time-sensitive model
  - Define and give an example of conditional non-transferability in a time-constrained model
- 8-3 Modeling Change: Price
  - Solve the business requirement of tracking changes in price or values by constructing a model that uses a historical entity
  - Describe the meaning of journaling/logging
  - Identify the business need for journaling/logging and construct a model that addresses this requirement
- 8-4 Drawing Conventions for Readability
  - Apply the Oracle drawing conventions to a data model diagram
  - Identify high volume entities in a data model diagram and explain their significance to the business
  - Redraw a given data model diagram to increase clarity and readability
  - Recognize the usefulness of dividing a complex ERD into a number of functional sub-diagrams

## Section 9 – Mapping

- 9-1 Introduction to Relational Database Concepts
  - Define a primary key
  - Define a foreign key
  - Define a column-integrity rule
  - Identify row, column, primary key, unique key, and foreign key elements given a diagram of a table containing these elements
  - Identify violations of data-integrity rules
- 9-2 Basic Mapping: The Transformation Process
  - Distinguish between a conceptual model and a physical model
  - Apply terminology mapping between the two models
  - Understand and apply the Oracle naming conventions for tables and columns used in physical models
  - Transform an entity into a table diagram
- 9-3 Relationship Mapping
  - Apply the rule of relationship mapping to correctly transform 1:M and barred relationships
  - Apply the rule of relationship mapping to correctly transform M:M relationships
  - Transform 1:1 relationships
  - Apply the rule of relationship mapping to correctly transform relationships in an arc

- 9-4 Subtype Mapping
  - State and apply the table, column, identifiers, relationship, and integrity constraint rules for mapping:
    - supertype implementations
    - subtype implementations
    - supertype and subtype arc implementations

#### Section 10 – Creating Database Projects

- 10-1 System Development Life Cycle
  - List and describe the different stages of the system development life cycle (SDLC)
  - Identify the role of data modeling in the system development life cycle
  - Relate the project tasks to the different stages of the system development life cycle
- 10-2 Project Overview and Getting Started
  - Identify a data-modeling project to solve a business information need
  - Demonstrate essential skills in solving business problems using technology, and professionally presenting these solutions
  - Demonstrate effective team-building skills
- 10-3 Presentation Project Management
  - Track responsibility and progress on a project by using a project-management document
  - Show evidence of progress on the final presentation project by filling in the final project tracking grid
- 10-4 Final Presentation Components
  - Organize the final oral presentation content in logical outline order
  - Identify appropriate content for each part of the presentation
  - Assign presentation roles to each group member

#### Section 11 – Presenting Database Projects

- 11-1 Creating Tables for the Final Presentation
  - Create sample tables from the final project presentation ERD
  - Insert sample data to the created tables
- 11-2 Preparing Written Documentation
  - Compose well-organized written documentation to accompany a presentation
  - Create a rough draft of, review, and finalize the written documentation
- 11-3 Preparing Visual Materials
  - Construct entity relationship diagrams that demonstrate industry conventions
  - Prepare tables and visuals that support their database documentation
  - Demonstrate and provide examples of table formatting for database documentation
  - Demonstrate and refine oral presentation skills during rehearsal and refinement
- 11-4 Final Presentations
  - Demonstrate the use of a central message and supporting arguments for a final presentation
  - Demonstrate logical analysis of the business rules, operations, and processes in a way that is clear and easy for the client to understand
  - Demonstrate the selection of appropriate business attire for a final presentation

  
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# Database Programming with SQL

## Section 1 – Introduction

- 1-1 Oracle Application Express
  - Distinguish between application software and system software and give an example of each
  - Log-in to the Oracle Application Express practice environment
  - Execute a simple query to retrieve information from the Database
  - Apply the rules of SQL to display all columns and a subset of columns specified by criteria
- 1-2 Relational Database Technology
  - Define and give an example of a relational database
  - Identify table-key terms, including row, column, field, primary key, and foreign key
  - Relate the importance of databases to everyday life
- 1-3 Anatomy of a SQL Statement
  - Match projection and selection with their correct capabilities
  - Create a basic SELECT statement
  - Use the correct syntax to display all rows in a table
  - Use the correct syntax to select specific columns in a table, modify the way data is displayed, and perform calculations using arithmetic expressions and operators

## Section 2 – SELECT and WHERE

- 2-1 Columns, Characters, and Rows
  - Apply the concatenation operator to link columns to other columns, arithmetic expressions, or constant values to create a character expression
  - Use column aliases to rename columns in the query result
  - Enter literal values of type character, number, or date into a SELECT statement
  - Define and use DISTINCT to eliminate duplicate rows
  - Edit, execute, and save SQL statements in Oracle Application Express
- 2-2 Limit Rows Selected
  - Apply SQL syntax to restrict the rows returned from a query
  - Demonstrate application of the WHERE clause syntax
  - Explain why it is important, from a business perspective, to be able to easily limit data retrieved from a table
  - Construct and produce output using a SQL query containing character strings and date values
- 2-3 Comparison Operators
  - Apply the proper comparison operator to return a desired result
  - Demonstrate proper use of BETWEEN, IN, and LIKE conditions to return a desired result
  - Distinguish between zero and NULL, the latter of which is unavailable, unassigned, unknown, or inapplicable
  - Explain the use of comparison conditions and NULL

## Section 3 – WHERE, ORDER BY, and Intro to Functions

- 3-1 Logical Comparisons and Precedence Rules
  - Evaluate logical comparisons to restrict the rows returned based on two or more conditions
  - Apply the rules of precedence to determine the order in which expressions are evaluated and calculated
- 3-2 Sorting Rows
  - Construct a query to sort a result set in ascending or descending order
  - State the order in which expressions are evaluated and calculated based on the rules of precedence
  - Construct a query to order a result set using a column alias
  - Construct a query to order a result set for single or multiple columns
- 3-3 Introduction to Functions
  - Identify appropriate applications of single-row functions in query statements
  - Classify a function as a single-row or multi-row function
  - Differentiate between single-row functions and multi-row functions and the results returned by each

## Section 4 – Single Row Functions Part I

- 4-1 Case and Character Manipulation
  - Select and apply single-row functions that perform case conversion and/or character manipulation
  - Select and apply character case-manipulation functions LOWER, UPPER, and INITCAP in a SQL query
  - Select and apply character-manipulation functions CONCAT, SUBSTR, LENGTH, INSTR, LPAD, RPAD, TRIM, and REPLACE in a SQL query
  - Write flexible queries using substitution variables
- 4-2 Number Functions
  - Select and apply the single-row number functions ROUND, TRUNC, and MOD in a SQL query
  - Distinguish between the results obtained when TRUNC is applied to a numeric value and ROUND is applied to a numeric value
  - State the implications for business when applying TRUNC and ROUND to numeric values
- 4-3 Date Functions
  - Demonstrate the use of SYSDATE and date functions
  - State the implications for world businesses to be able to easily manipulate data stored in date format

## Section 5 – Single Row Functions Part II

- 5-1 Conversion Functions
  - Provide an example of an explicit data-type conversion and an implicit data-type conversion
  - Explain why it is important, from a business perspective, for a language to have built-in data-conversion capabilities
  - Construct a SQL query that correctly applies TO\_CHAR, TO\_NUMBER, and TO\_DATE single-row functions to produce a desired result
  - Apply the appropriate date and/or character format model to produce a desired output
  - Explain and apply the use of YY and RR to return the correct year as stored in the database
- 5-2 NULL Functions
  - Demonstrate and explain the evaluation of a nested function
  - List at least four general functions that work with any data type and relate to handling null values
  - Explain the use of the COALESCE and the NVL functions
  - Explain the use of general functions to deal with null values in data
  - Construct and execute a SQL query that correctly applies NVL, NVL2, NULLIF, and COALESCE single-row functions
- 5-3 Conditional Expressions
  - Compare and contrast the DECODE and CASE functions
  - Construct and execute a SQL query that correctly uses the DECODE and CASE functions
  - Construct and execute two methods for implementing IF-THEN-ELSE conditional logic

## Section 6 – JOINS Part I

- 6-1 Cross Joins and Natural Joins
  - Construct and execute a natural join using ANSI-99 SQL join syntax
  - Create a cross join using ANSI-99 SQL join syntax
  - Explain the importance of having a standard for SQL as defined by ANSI
  - Describe a business need for combining information from multiple data sources
- 6-2 Join Clauses
  - Construct and execute a join with the ANSI-99 USING Clause
  - Construct and execute a join with the ANSI-99 ON Clause
  - Construct and execute an ANSI-99 query that joins three tables
- 6-3 Inner versus Outer Joins
  - Compare and contrast an inner and an outer join
  - Construct and execute a query to use a left outer join
  - Construct and execute a query to use a right outer join
  - Construct and execute a query to use a full outer join
- 6-4 Self-Joins and Hierarchical Queries
  - Construct and execute a SELECT statement to join a table to itself using a self-join
  - Interpret the concept of a hierarchical query
  - Create a tree-structured report
  - Format hierarchical data
  - Exclude branches from the tree structure

## Section 7 – JOINS Part II

- 7-1 Oracle Equijoin and Cartesian Product
  - Name the Oracle proprietary joins and their ANSI/ISO SQL: 99 counterparts
  - Construct and execute a SELECT statement that results in a Cartesian product
  - Construct and execute SELECT statements to access data from more than one table using an equijoin
  - Construct and execute SELECT statements that add search conditions using the AND operator
  - Apply the rule for using table aliases in a join statement
- 7-2 Oracle Nonequijoins and Outer Joins
  - Construct and execute a SELECT statement to access data from more than one table using a nonequijoin
  - Create and execute a SELECT statement to access data from more than one table using an Oracle outer join

## Section 8 – Group Functions Part I

- 8-1 Group Functions
  - Define and give an example of the seven group functions: SUM, AVG, COUNT, MIN, MAX, STDDEV, VARIANCE
  - Construct and execute a SQL query using group functions
  - Construct and execute group functions that operate only with numeric data types
- 8-2 COUNT, DISTINCT, NVL
  - Construct and execute a SQL query using the COUNT group function
  - Use DISTINCT and the NVL function with group functions

## Section 9 – Group Functions Part II

- 9-1 Using Group By and Having Clauses
  - Construct and execute a SQL query using GROUP BY
  - Construct and execute a SQL query using GROUP BY ... HAVING
  - Construct and execute a GROUP BY on more than one column
  - Nest group functions
- 9-2 Using Rollup and Cube Operations, and Grouping Sets
  - Use ROLLUP to produce subtotal values
  - Use CUBE to produce cross-tabulation values
  - Use GROUPING SETS to produce a single result set
  - Use the GROUPING function to identify the extra row values created by either a ROLLUP or CUBE operation
- 9-3 Using Set Operators
  - Define and explain the purpose of Set Operators
  - Use a set operator to combine multiple queries into a single query
  - Control the order of rows returned using set operators

## Section 10 – Subqueries

- 10-1 Fundamentals of Subqueries
  - Define and explain the purpose of subqueries for retrieving data
  - Construct and execute a single-row subquery in the WHERE clause
  - Distinguish between single-row and multiple-row subqueries
- 10-2 Single-Row Subqueries
  - Construct and execute a single-row subquery in the WHERE clause or HAVING clause
  - Construct and execute a SELECT statement using more than one subquery
  - Construct and execute a SELECT statement using a group function in the subquery
- 10-3 Multiple-Row Subqueries
  - Correctly use the comparison operators IN, ANY, and ALL in multiple-row subqueries
  - Construct and execute a multiple-row subquery in the WHERE clause or HAVING clause
  - Describe what happens if a multiple-row subquery returns a null value
  - Understand when multiple-row subqueries should be used, and when it is safe to use a single-row subquery
  - Distinguish between pair-wise and non-pair-wise subqueries
- 10-4 Correlated Subqueries
  - Identify when correlated subqueries are needed.
  - Construct and execute correlated subqueries.
  - Create a query using the EXISTS and NOT EXISTS operators to test for returned rows from the subquery
  - Construct and execute named subqueries using the WITH clause.

## Section 11 – Ensuring Quality Queries Part I

- 11-1 Ensuring Quality Query Results
  - Create a query to produce specified data
  - Modify a query to produce specified data

## Section 12 – DML

- 12-1 INSERT Statements
  - Explain the importance of being able to alter the data in a database
  - Construct and execute INSERT statements which insert a single row using a VALUES clause
  - Construct and execute INSERT statements that use special values, null values, and date values
  - Construct and execute INSERT statements that copy rows from one table to another using a subquery
- 12-2 Updating Column Values and Deleting Rows
  - Construct and execute an UPDATE statement
  - Construct and execute a DELETE statement
  - Construct and execute a query that uses a subquery to update and delete data from a table
  - Construct and execute a query that uses a correlated subquery to update and delete from a table
  - Explain how foreign-key and primary-key integrity constraints affect UPDATE and DELETE statements
  - Explain the purpose of the FOR UPDATE Clause in a SELECT statement
- 12-3 DEFAULT Values, MERGE, and Multi-Table Inserts
  - Understand when to specify a DEFAULT value
  - Construct and execute a MERGE statement
  - Construct and execute DML statements using subqueries
  - Construct and execute multi-table inserts

## Section 13 – DDL

- 13-1 Creating Tables
  - List and categorize the main database objects
  - Review a table structure
  - Describe how schema objects are used by the Oracle database
  - Create a table using the appropriate data type for each column
  - Explain the use of external tables
  - Query the Data Dictionary to obtain the names and other attributes of database objects
- 13-2 Using Data Types
  - Create a table using TIMESTAMP and TIMESTAMP WITH TIME ZONE column data types
  - Create a table using INTERVAL YEAR TO MONTH and INTERVAL DAY TO SECOND column data types
  - Give examples of organizations and personal situations where it is important to know to which time zone a date-time value refers
  - List and provide an example of each of the number, date, and character data types
- 13-3 Modifying a Table
  - Explain why it is important to be able to modify a table
  - Explain and provide an example for each of the DDL statements—ALTER, DROP, RENAME, and TRUNCATE—and the effect each has on tables and columns
  - Construct a query and execute the ALTER TABLE commands ADD, MODIFY, and DROP
  - Explain and perform FLASHBACK QUERY on a table
  - Explain and perform FLASHBACK table operations
  - Track the changes to data over a period of time
  - Explain the rationale for using TRUNCATE versus DELETE for tables
  - Add a comment to a table using the COMMENT ON TABLE command
  - Name the changes that can and cannot be made to modify a column
  - Explain when and why the SET UNUSED statement is advantageous

## Section 14 – Constraints

- 14-1 Intro to Constraints; NOT NULL and UNIQUE Constraints
  - Define the term "constraint" as it relates to data integrity
  - State when it is possible to define a constraint at the column level, and when it is possible at the table level
  - State why it is important to give meaningful names to constraints
  - State which data integrity rules are enforced by NOT NULL and UNIQUE constraints
  - Write a CREATE TABLE statement which includes NOT NULL and UNIQUE constraints at the table and column levels
  - Explain how constraints are created at the time of table creation

- 14-2 PRIMARY KEY, FOREIGN KEY, and CHECK Constraints
  - Define and give an example of a PRIMARY KEY, FOREIGN KEY, and CHECK constraint
  - Explain the purpose of defining PRIMARY KEY, FOREIGN KEY, and CHECK constraints
  - Demonstrate the creation of constraints at the column level and table level in a CREATE TABLE statement
  - Evaluate a business problem requiring the addition of a PRIMARY KEY and FOREIGN KEY constraint and write the code to execute the change
- 14-3 Managing Constraints
  - List four different functions that the ALTER statement can perform on constraints
  - Write ALTER TABLE statements to add, drop, disable, and enable constraints
  - Name a business function that would require a DBA to drop, enable, and/or disable a constraint or use the CASCADE syntax
  - Query the data dictionary for USER\_CONSTRAINTS and interpret the information returned

#### Section 15 – Views

- 15-1 Creating Views
  - List three uses for views from the standpoint of a database administrator
  - Explain, from a business perspective, why it is important to be able to create and use logical subsets of data derived from one or more tables
  - Create a view with and without column aliases in the subquery using a single base table
  - Create a complex view that contains group functions to display values from two tables
  - Retrieve data from a view
- 15-2 DML Operations and Views
  - Write and execute a query that performs DML operations on a simple view
  - Name the conditions that restrict your ability to modify a view using DML operations
  - Write and execute a query using the WITH CHECK OPTION clause
  - Explain the use of WITH CHECK OPTION as it applies to integrity constraints and data validation
  - Apply the WITH READ ONLY option to a view to restrict DML operations
- 15-3 Managing Views
  - Create and execute a SQL statement that removes a view
  - Create and execute a query using an inline view
  - Create and execute a top-n-analysis query

#### Section 16 – Sequences and Synonyms

- 16-1 Working With Sequences
  - List at least three useful characteristics of a sequence
  - Write and execute a SQL statement that creates a sequence
  - Query the data dictionary using USER\_SEQUENCES to confirm a sequence definition
  - Apply the rules for using NEXTVAL to generate sequential unique numbers in a table
  - List the advantages and disadvantages of caching sequence values
  - Name three reasons why gaps can occur in a sequence
- 16-2 Indexes and Synonyms
  - Define an index and its use as a schema object
  - Name the conditions that cause an index to be created automatically
  - Create and execute a CREATE INDEX and DROP INDEX statement
  - Create and execute a function-based index
  - Create private and public synonyms

#### Section 17 – Privileges and Regular Expressions

- 17-1 Controlling User Access
  - Compare the difference between object privileges and system privileges
  - Construct the two commands required to enable a user to have access to a database
  - Construct and execute a GRANT... ON ...TO statement to assign privileges to objects in their schema to other users and/or PUBLIC
  - Query the data dictionary to confirm privileges granted

- 17-2 Creating and Revoking Object Privileges
  - Explain what a ROLE is and what its advantages are
  - Construct a statement to create a ROLE and GRANT privileges to it
  - Construct a GRANT .. ON .. TO.. WITH GRANT OPTION statement to assign privileges on objects in your schema to other users and/or PUBLIC
  - Construct and execute a statement to REVOKE object privileges from other users and/or from PUBLIC
  - Distinguish between privileges and roles
  - Explain the purpose of a database link
- 17-3 Regular Expressions
  - Describe regular expressions
  - Use regular expressions to search, match, and replace strings in SQL statements
  - Construct and execute regular expressions and check constraints

#### Section 18 – TCL

- 18-1 Database Transactions
  - Define the terms COMMIT, ROLLBACK, and SAVEPOINT as they relate to data transactions
  - List three advantages of the COMMIT, ROLLBACK, and SAVEPOINT statements
  - Explain why it is important, from a business perspective, to be able to control the flow of transaction processing

#### Section 19 – Final Project and Exam Review

- 19-1 Testing
  - Develop and apply a strategy for testing that a database functions as designed
- 19-2 Final Project Database Creation
  - Apply SQL concepts to create a functional database appropriate for a small business
- 19-3 Final Exam Review
  - Review the key points about case and character manipulation
  - Review number, date, conversion, and general functions
  - Review conditional expressions
  - Review Cartesian product and join operations
  - Review non-equi joins, outer joins, self joins, cross joins, natural joins, and join clauses
  - Review group functions, group by syntax, and having clauses
  - Review single-row and multiple row subqueries
  - Review pair-wise and non-pair-wise subqueries
  - Review correlated subqueries
  - Review DML statements insert, update, delete, merge, and multi-table inserts
  - Review DDL statements CREATE, ALTER, RENAME, TRUNCATE, FLASHBACK TABLE, DROP, and FLASHBACK QUERY
  - Review DCL statements CREATE and REVOKE object privileges

#### Section 20 – Ensuring Quality Queries Part II

- 20-1 Ensuring Quality Query Results - Advanced Techniques
  - Create an advanced query to produce specified data
  - Modify an advanced query to produce specified data

To search and register for events scheduled in your area, visit the [Academy events calendar](#).

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(UGC Autonomous Institution)

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERINGH

### OUTCOMES OF ORACLE ACADEMY TRAINING ON

#### Java Fundamental, Java Programming and Database Design and Programming with SQL

1. With Oracle Academy curriculum, students engage in hands-on learning object-oriented programming skills in Java and also develop problem-solving, and critical-thinking skills to help them advance in computing across industries.
2. Students who have gained fundamental knowledge of object-oriented concepts, and Java terminology and syntax in Java is suited for learning Artificial Intelligence with Machine Learning.
3. Alice allows students to understand fundamentals of programming concepts better through animation programs. By manipulating the objects in their virtual world, students gain experience with all the programming constructs typically taught in an introductory programming course.
4. Green foot is a useful software application to aid in the learning of Java for programmers at an Undergraduate level. The premise of Green foot is to motivate new programmers by allowing them to develop 2D graphical applications such as simulations and interactive games.
5. With Oracle Academy database knowledge and practical skills students gain will help them advance their academic studies in computer science to enter the job market across industries.
6. Students who have completed Java Fundamentals, Java Programming, or Database Design and Database Programming with SQL successfully will be given the Concern Certificate .

  
COURSE COORDINATOR

  
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HEAD OF THE DEPARTMENT

Dept. of Computer Science & Engineering  
Geethanjali College of Engineering & Technology (Autonomous)  
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# Geethanjali College of Engineering and Technology

(UGC Autonomous Institution)

Cheeryal (V), Keesara (M), Medchal-Malkajgiri Dist., Telangana - 501 301

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## Department of Computer Science and Engineering

Date : 27-03-2017

### C I R C U L A R

#### Oracle Certification and Exams

We are happy to inform you that Geethanjali College of ENGINEERING AND Technology(GCET) became Institutional Member of Oracle Academy on 06-01-2017. In this regard Department of CSE is planning to conduct training cum assessment sessions on Database Design and Database Programming in SQL module in GCET, regarding this the details are as follows:

1. Training cum assessment session will be held after college hours i.e., 4:00PM to 05:30PM, conducted by M. Raja Krishna Kumar, Associate. Professor , CSE Department.
2. Schedule as follows

S. No	Name of the Course	Duration	Time
1	Database Design and Database Programming in SQL	03-04-2017 To 28-04-2017	04:00PM to 5:30PM

- 3 Training and assessments are done through online sessions with Oracle Academy Learning website : <https://academy.oracle.com/en/oa-web-overview.html>
4. Certificates will be issued by Oracle Academy Certified Trainer to successfully completed candidates only, who fulfill all the necessary requirements.
5. Training, Assessment and Certification are free of cost.

  
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6. Course Coordinator is requested to encourage B.Tech(All Branches) IV Year students to attend for training. Details(in the given format) of interested students are to be sent to M. Raja Krishna Kumar, Associate. Professor , CSE Department on mail-id :oracleacademy.cse@gcet.edu.in.

S.No	Department	Year	Semester	Roll No.	Name	Eamil-ID	Mobile No	Any Prior Programming knowledge(yes/no)

7. All the registered students will be allotted to the concern lab as per above schedule.

  
COURSE COORDINATOR

  
HEAD OF THE DEPARTMENT

Head  
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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Oracle Academy Training on Database Design and Programming with SQL

### LIST OF REGISTERED STUDENTS

ACADEMIC YEAR 2016-17

S.No.	Roll No	FIRST NAME	LAST NAME
1	13R11A0501	Ashapu	Bharath Kumar
2	13R11A0531	K	Nitya Purnima
3	13R11A0546	Sanjeevu	Tejaswani
4	13R11A0547	Tadiparthi	Christina
5	13R11A0555	A	Jayashree
6	13R11A0560	B	Ranjith
7	13R11A0562	B	Kavyasreemadhuri
8	13R11A0564	B	Divya
9	13R11A0565	B	Tejasree
10	13R11A0566	B	Prasanna
11	13R11A0569	CH	Bhargavireddy
12	13R11A0570	CH	Jyothi
13	13R11A0573	Desham	Srikanthgoud
14	13R11A0574	D	Laxmiprasanna
15	13R11A0575	G	Srilakshmi
16	13R11A0576	Gaddam	Srikanthreddy
17	13R11A0579	J	Susmitha
18	13R11A0583	L	Pruthivi
19	13R11A0585	B	Lakshmiprasanna
20	13R11A0586	M	Swetha
21	13R11A0587	M	Sameera
22	13R11A0590	M	Keerthana
23	13R11A0591	M	Bhargava
24	13R11A0592	MNL	Kashyap
25	13R11A0593	N	Divya
26	13R11A0594	P	Saivamshi
27	13R11A0597	P	Spoorthy
28	13R11A0598	BK	Ramesh
29	13R11A0599	S	Saikiran
30	13R11A05A5	T	Madhurichary
31	13R11A05A6	T	Beulah
32	13R11A05A7	Thota	Aditya Kumar
33	13R11A05B1	C	Vidyabharathi
34	13R11A05H7	Pawar	Abhishek
35	13R11A05H8	A	Lakshmi Prasanna
36	13R11A05J2	CH	Priyanka

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37	13R11A05J3	R	Chandrakanth
38	13R11A05J6	D	Harathi
39	13R11A05J7	E	V.S.Sairam
40	13R11A05K4	G	Lalitha Priyanka
41	13R11A05L2	M	Saritha
42	13R11A05L9	R	Sruthi Reddy
43	13R11A05M4	B	Shravani

  
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HEAD OF THE DEPARTMENT

Head  
Dept. of Computer Science & Engineering  
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20	13R11A0586	M	Swetha	P	P	P	P	P	P	A	P	P	P
21	13R11A0587	M	Sameera	P	A	P	A	P	P	D	P	P	P
22	13R11A0590	M	Keerthana	P	P	P	P	P	P	D	P	P	P
23	13R11A0591	M	Bhargava	P	P	A	P	P	P	P	A	D	P
24	13R11A0592	MNL	Kashyap	P	P	A	P	A	P	P	A	P	P
25	13R11A0593	N	Divya	P	P	A	P	D	A	D	P	A	P
26	13R11A0594	P	Saivamshi	D	P	P	P	P	P	P	P	A	D
27	13R11A0597	P	Spoorthy	P	P	P	A	A	P	P	P	P	P
28	13R11A0598	BK	Ramesh	P	P	P	P	P	A	P	D	P	A
29	13R11A0599	S	Saikiran	P	A	P	P	P	D	A	P	D	P
30	13R11A05A5	T	Madhurichary	P	P	P	P	A	P	P	P	P	P
31	13R11A05A6	T	Beulah	P	A	P	A	P	P	A	P	P	P
32	13R11A05A7	Thota	Aditya Kumar	A	P	P	P	P	D	D	P	P	P
33	13R11A05B1	C	Vidyabharathi	P	A	P	A	P	P	P	A	P	P
34	13R11A05H7	Pawar	Abhishek	P	P	P	P	A	P	P	A	P	P
35	13R11A05H8	A	Prasanna	P	A	P	P	P	D	A	P	A	P
36	13R11A05J2	CH	Priyanka	A	P	A	P	P	P	A	P	D	P
37	13R11A05J3	R	Chandrakanth	P	P	P	P	P	P	A	P	A	P
38	13R11A05J6	D	Harathi	A	P	P	A	A	P	A	P	P	P
39	13R11A05J7	E	V.S.Sairam	P	A	P	P	D	A	P	P	P	A
40	13R11A05K4	G	Lalitha Priyanka	A	P	P	A	P	P	D	A	A	P
41	13R11A05L2	M	Saritha	P	A	P	P	P	A	P	P	P	P
42	13R11A05L9	R	Sruthi Reddy	P	P	P	P	A	P	P	P	A	P
43	13R11A05M4	B	Shravani	P	P	A	P	P	P	P	A	P	A

*Nareet*  
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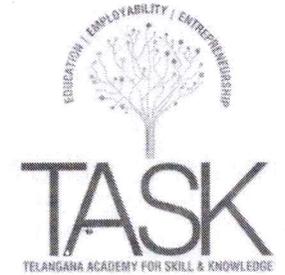
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23	13R11A0591	M	Bhargava	P	P	P	P	A	P	P	P	P	P
24	13R11A0592	MNL	Kashyap	P	A	P	P	P	P	A	P	P	P
25	13R11A0593	N	Divya	P	P	A	P	P	P	A	P	P	P
26	13R11A0594	P	Saivamshi	P	P	P	P	P	P	A	P	A	A
27	13R11A0597	P	Spoorthy	A	A	P	P	P	P	A	P	A	P
28	13R11A0598	BK	Ramesh	P	P	P	P	P	P	P	P	P	P
29	13R11A0599	S	Saikiran	P	P	P	A	P	P	P	P	A	P
30	13R11A05A5	T	Madhurichary	P	P	P	P	A	P	P	P	P	A
31	13R11A05A6	T	Beulah	P	P	A	P	P	P	P	P	P	A
32	13R11A05A7	Thota	Aditya Kumar	P	A	P	P	P	P	P	P	P	P
33	13R11A05B1	C	Vidyabharathi	P	A	P	P	A	P	P	P	P	A
34	13R11A05H7	Pawar	Abhishek	A	P	P	P	A	P	P	P	P	P
35	13R11A05H8	A	Prasanna	P	P	A	P	A	P	P	P	A	P
36	13R11A05J2	CH	Priyanka	P	P	P	A	P	A	P	P	P	A
37	13R11A05J3	R	Chandrakanth	P	A	P	P	P	P	P	P	A	P
38	13R11A05J6	D	Harathi	A	P	P	P	P	P	A	P	P	P
39	13R11A05J7	E	V.S.Sairam	P	P	A	A	P	P	P	P	P	P
40	13R11A05K4	G	Lalitha Priyanka	P	P	P	P	A	P	A	A	A	P
41	13R11A05L2	M	Saritha	P	A	P	P	P	P	P	P	A	P
42	13R11A05L9	R	Sruthi Reddy	P	P	P	P	A	P	P	P	P	P
43	4	B	Shravani	P	P	P	A	P	P	A	P	P	P

*Nareef*  
COURSE COORDINATOR

  
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PRESENTED TO

**Ashapu Bharath Kumar**

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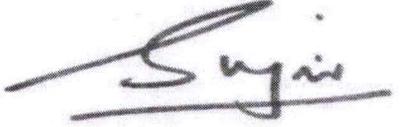
**Database Design and Programming with SQL**

FINAL EXAM

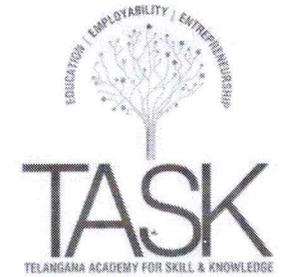
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Chief Executive Officer  
Telangana Academy for Skill and Knowledge  
ITE & C Department, Govt of Telangana

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**K Nitya Purnima**

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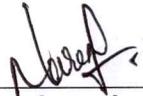
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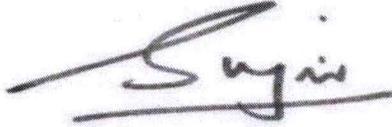
FINAL EXAM

May 08, 2017

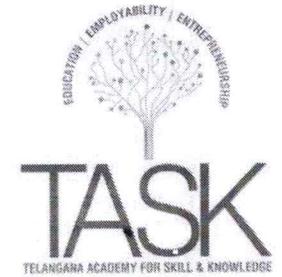
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**Sanjeevu Tejaswani**

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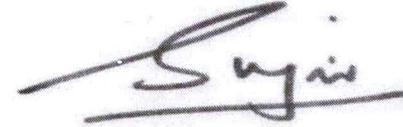
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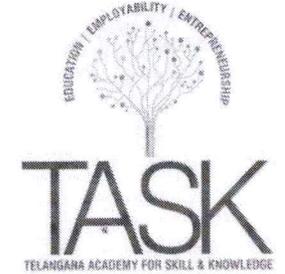
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**Tadiparthi Christina**

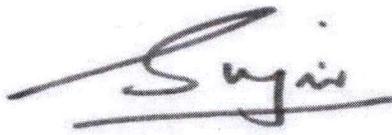
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**Database Design and Programming with SQL**

FINAL EXAM

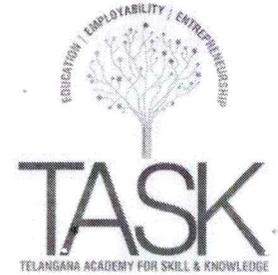
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**A Jayashree**

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**Database Design and Programming with SQL**

FINAL EXAM

May 08, 2017

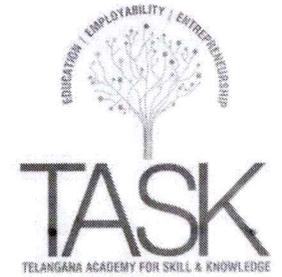
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**Database Design and Programming with SQL**

FINAL EXAM

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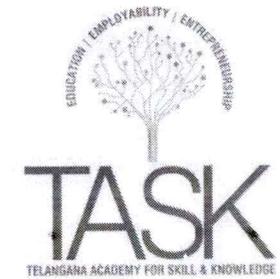
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Chief Executive Officer

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**B Kavyasreemadhuri**

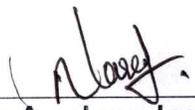
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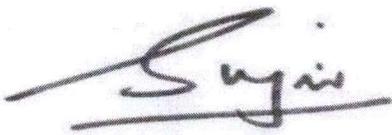
**Database Design and Programming with SQL**

FINAL EXAM

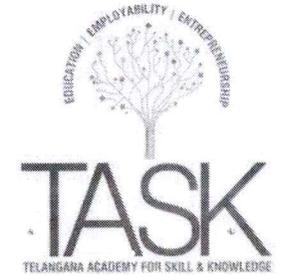
May 08, 2017

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PRESENTED TO

**B Divya**

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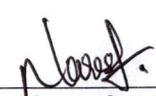
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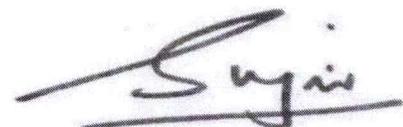
FINAL EXAM

May 08, 2017

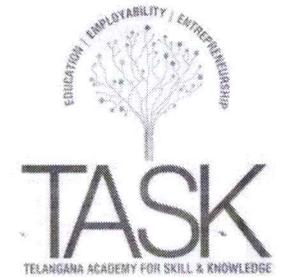
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**B Tejasree**

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**Database Design and Programming with SQL**

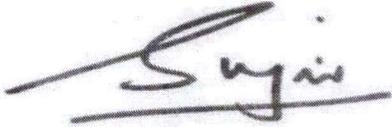
FINAL EXAM

May 08, 2017

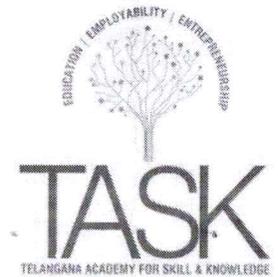
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**D Laxmiprasanna**

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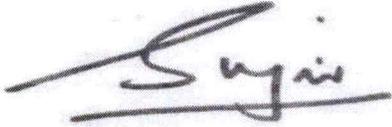
**Database Design and Programming with SQL**

FINAL EXAM

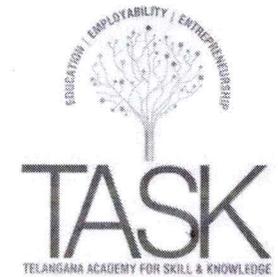
May 08, 2017

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**G Srilakshmi**

FOR SUCCESSFULLY COMPLETING THE ORACLE ACADEMY

**Database Design and Programming with SQL**

FINAL EXAM

May 08, 2017

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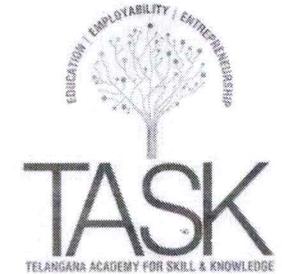
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Chief Executive Officer

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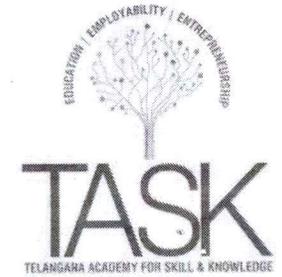
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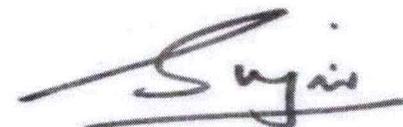
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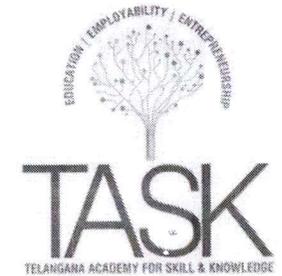
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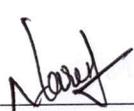
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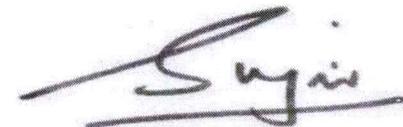
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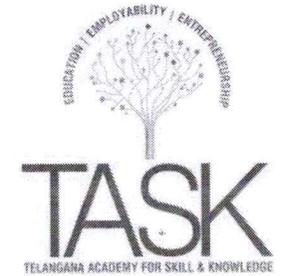
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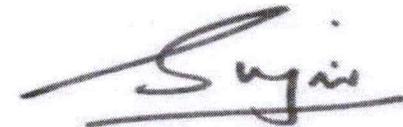
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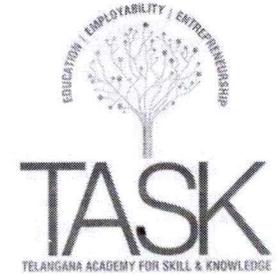
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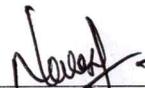
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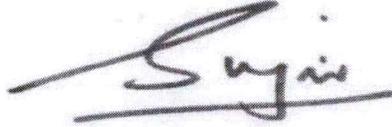
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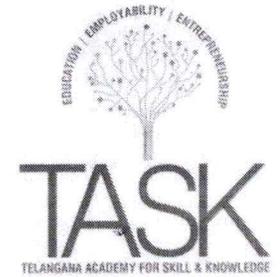
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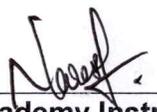
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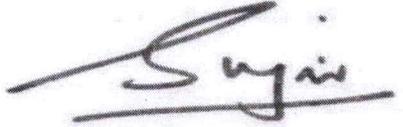
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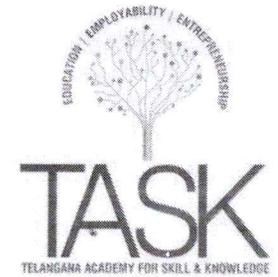
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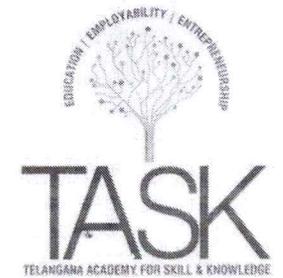
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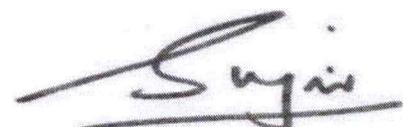
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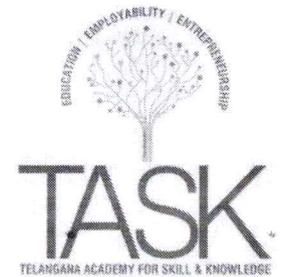
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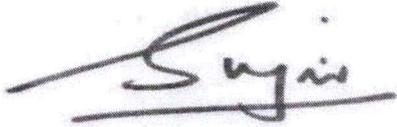
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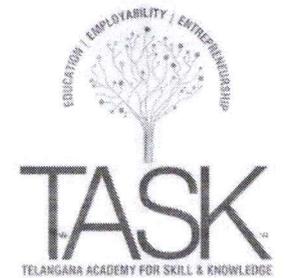
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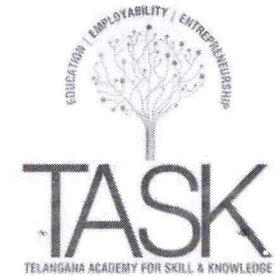
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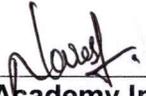
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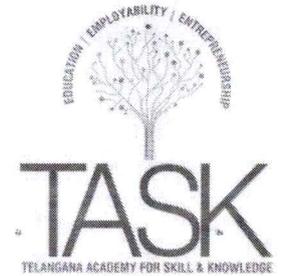
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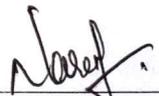
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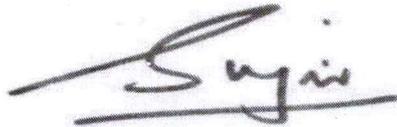
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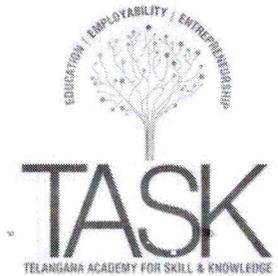
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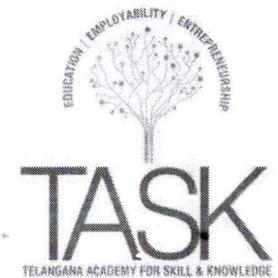
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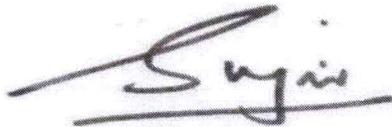
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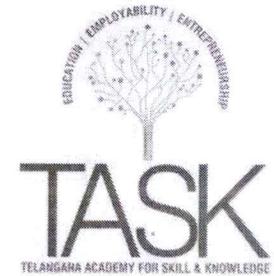
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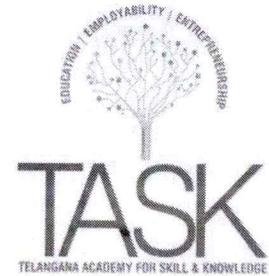
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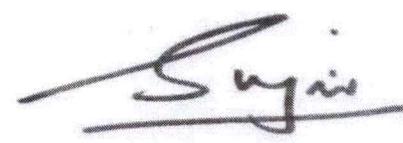
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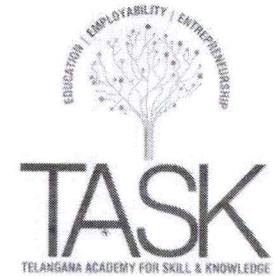
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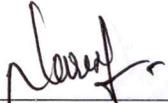
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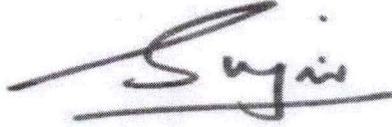
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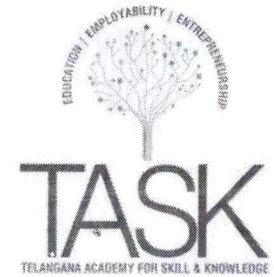
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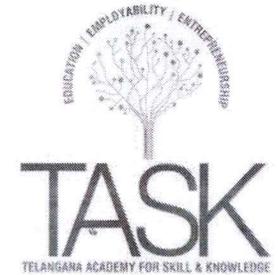
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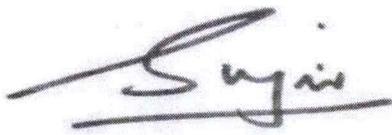
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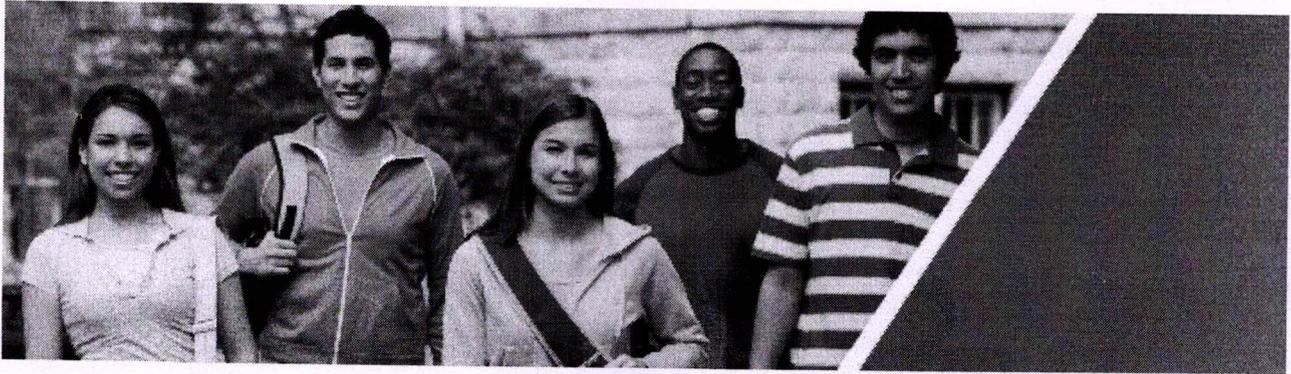
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## An Exploration of Computer Science Subjects and Career Paths

ORACLE ACADEMY VIRTUAL STUDENT DAY



We invite your students to join us for the opportunity to learn about computer science subjects—Big Data, Cloud, and Internet of Things—and explore career paths available within technology fields. The Oracle Academy Virtual Student Day (OAVSD17) will offer your students inspirational speakers who will share technology trends as well as their personal career journey through IT industry.

### EVENT DETAILS

- Friday, March 24, 2017, from 10:00 a.m. to 2:00 p.m. IST
- This virtual student day will take place ONLINE via unique URL link
- Internet connection and computer is required.
- Oracle Academy Individual Membership is required and free (no cost)

### WHO SHOULD ATTEND?

- University/college students who are computer science majors or undecided majors, curious about computer science and technology

### WHAT WILL STUDENTS LEARN?

- Skills needed, accessible learning paths, career journeys taken by employees currently in the industry, and certifications available to help students be ready to achieve a modern career
- Overview of Big Data, Cloud, and Internet of Things
- Gain industry knowledge, learn about latest technology trends

### WHY SHOULD STUDENTS ATTEND?

- Be inspired to achieve their dreams
- Earn a Certificate of Participation by providing feedback on five webinars

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### OUR MISSION

Oracle Academy advances computer science education globally to drive knowledge, innovation, skills development, and diversity in technology fields.



**3.1 MILLION +**  
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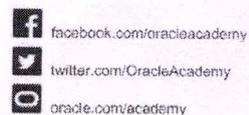


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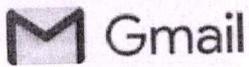
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India  
<http://www.geethanjaliinstitutions.com>

**Phone:** 9703130166

**Institution Type:**4-year College or University

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**Number of students taught annually:**60

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Gharyal (V), Keesam (M), Medchal Dist. (T.S.) - 501 301  
Fri, Jan 6, 2017 at 5:37 PM

**Your Oracle Academy Membership: Order Booked**

1 message

storeadmin\_ww@oracle.com <storeadmin\_ww@oracle.com>  
Reply-To: donotreply@oracle.com  
To: 939raz@gmail.com

Fri, Jan 6, 2017 at 4:35 PM

**ORACLE® Academy**

Dear Raja Krishna Kumar Munagala,

Your Oracle Academy Institution membership order has been processed.

**Order Details**

- **Order Number:** 38049525
- **Customer Support Identifier:** 20957301
- **Order Date:** 06-JAN-17
- **Institution Name:** Geethanjali College Of Engineering & Technology
- **Faculty Contact:** Raja Krishna Kumar Munagala

**Description**

- Oracle Academy Software Bundle
- Oracle Premier Support

**CSI Information** You will receive an alert when your CSI is active for My Oracle Support access. For more information regarding support, visit Oracle Support Resources.

If you have any other questions, contact us.

Kind Regards,  
Oracle Academy

Thank you for using the **Oracle Store!**

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# Certificate of Completion

K Naresh Babu

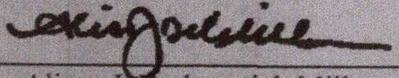
*has successfully completed 120 hours of professional development  
for the following Oracle Academy course:*

## Java Fundamentals and Programming

*on 03 February 2017*

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Alison J. Derbenwick Miller  
Vice President, Oracle Academy

ORACLE ACADEMY

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- [My Oracle Academy](#)

**Personal Details**

Username NARESH.KOSURI@GMAIL.COM

First Name Naresh

Last Name Babu

Email NARESH.KOSURI@GMAIL.COM

Organization Geethanjali College Of Engineering & Technology - Teachers

CSI Number 20957301

End Date 06-Jan-23

What is your area of expertise: (select all that apply)

- Application Development  Big Data/Data Science  Blockchain  Business Applications  CIS, MIS  Cloud Computing  Cybersecurity  Data Analytics  Database
- Engineering & Construction  Operating Systems  Programming  Project Management  Software Engineering  AI MACHINE LEARNING

**Oracle Academy APEX**

**Access Oracle Academy APEX**

Oracle Application Express (APEX) is cloud-based software used for labs and practices in our Database Foundations, Database Design and Programming with SQL, Programming with PL/SQL and Application Development Foundations courses. APEX allows you and your students to create and delete database objects and develop applications.

Please note: Oracle Academy now offers two ways for you to access Application Express. Use the following table to learn which one is right for you.

	Oracle Academy Cloud Program	Oracle Academy APEX
Description	Configure APEX in your Oracle Academy Cloud Program Autonomous Database	A dedicated APEX instance designed specifically for classroom use
Student Accounts	Up to 200 per year of membership	Up to 99 per workspace

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Student Requirements	Must be over the legal age of majority to be granted access	No age restriction
Usage	Students provided with their own Cloud account that they are responsible for administering	Students provided with their own workspaces that educators are responsible for administering
Validity	No expiry while actively used	Valid for 1 year or until Oracle Academy membership expires (whichever occurs first)
Access	Access Oracle Academy Cloud Program	Access APEX19 Cloud

Oracle Academy is committed to providing you with information and resources that help you successfully integrate use of Oracle APEX into your classroom.

Application Express Startup Guide

**Request APEX Workspaces & Accounts**

System is currently experiencing issues and we are working on a solution. If you encounter an error, please come back shortly and try again.

  
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# Directory of Institutional Members

Find the educational institutions who are members of Oracle Academy.

Institution ?

geethanjali

Region ?

- All
- Asia-Pacific
- Europe, Middle East and Africa
- Latin America and the Caribbe
- North America

Country ?

- Honduras
- Hong Kong
- Hungary
- Iceland
- India

State (U.S. only) ?

- All
- Alabama
- Alaska
- Arizona
- Arkansas

City ?

Postal Code ?

501301

Reset  Search

Institution Name	Region	Country	State	City	Postal Code
Geethanjali College Of Engineering & Technology	Asia Pacific	India	TELANGANA	Hyderabad	501301

  
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## ORACLE ACADEMY INDIVIDUAL MEMBERSHIP AGREEMENT

This Oracle Academy Individual Membership Agreement (“Agreement”) is between Oracle India Private Limited (“Oracle”) and the individual that has executed or otherwise accepted and agreed to the terms of this Agreement for the delivery and use of the Benefits.

### DEFINITIONS

- “Benefits” refers to the resources and services provided under this Agreement pursuant to the then-current Oracle Academy individual program description set forth at <https://academy.oracle.com/en/membership-benefits.html> and which may include learning resources, remote hosting, web-based applications or other Oracle services and may not be used for commercial purposes.
- “Academy Website” refers to the Oracle web site located at <https://academy.oracle.com>.

### RESPONSIBILITIES

Oracle will provide the Benefits for use by You subject to the terms and conditions of this Agreement. Oracle may discontinue or revise the Benefits or adjust its responsibilities at its sole discretion upon posted notice.

You must meet any member responsibilities and minimum system requirements for installing and using Benefits that may be detailed at <https://academy.oracle.com/en/membership-benefits.html>. Oracle may adjust such responsibilities and requirements at its sole discretion with at least thirty (30) days notice to You.

### RIGHTS GRANTED

Subject to the terms of this Agreement, You are granted a non-exclusive and non-transferable right and license to access and use the Benefits solely for non-commercial self-education purposes, teaching a non-commercial, educational, and not-for-profit class or for the performance of degree-related research purposes only as part of either a primary school, secondary school, diploma or degree-granting program to which the Benefits apply. You may not distribute any Benefits for use by any third party. If you participate in an Oracle Academy Institution program class as an instructor or a student, such participation shall be governed by terms set forth in a separate agreement with Oracle.

### OWNERSHIP AND RESTRICTIONS

Oracle or its licensors retain all ownership and intellectual property rights to the Benefits. Oracle retains all ownership and intellectual property rights to anything developed by Oracle and delivered to You under this Agreement resulting from the Benefits.

### RECORDS AND AUDITS

You will maintain books and records relating to Your use of the Benefits under this Agreement. Upon at least forty-five (45) days written notice, Oracle may audit Your use of the Benefits and other materials acquired by You under this Agreement. You agree to cooperate with any such audit and provide Oracle with reasonable assistance and access to information, at your own expense.

### TERM AND TERMINATION

This Agreement shall be effective upon You executing it or otherwise accepting and agreeing to the terms of this Agreement and acceptance by Oracle and shall remain in effect for three (3) years, unless terminated as provided herein. All rights and/or licenses to the Benefits under this Agreement shall automatically terminate upon termination or expiration of this Agreement unless the term is renewed by written agreement of the parties.

Either party may terminate this Agreement for convenience at any time upon ninety (90) days written notice. Otherwise, if either party breaches a material term of this Agreement and fails to correct the breach within thirty (30) days of written specification of the breach, then the breaching party is in default and the non-breaching party may terminate this Agreement.

Provisions that survive termination include those relating to warranty disclaimer, limitation of liability, and others, which by their nature are intended to survive. Upon termination or expiration of this Agreement, You will return or destroy all tangible Benefits provided to You under this Agreement.

### WARRANTIES AND DISCLAIMERS

**ORACLE PROVIDES THE BENEFITS “AS IS” WITHOUT WARRANTY. ORACLE DISCLAIMS ALL WARRANTIES AND CONDITIONS, WHETHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES AND CONDITIONS OF NON-INFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE. YOU SHALL NOT MAKE ANY WARRANTY ON ORACLE’S BEHALF.**

You warrant and represent that Your acceptance of free Oracle Academy program membership and/or Benefits (i) will not influence public procurement or any public decision; and (ii) is permitted under Your applicable local laws, regulations and internal policies.

#### **LIMITATION OF LIABILITY**

**NEITHER PARTY SHALL BE LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES, OR ANY LOSS OF PROFITS, REVENUE, DATA, OR DATA USE. ORACLE'S MAXIMUM LIABILITY FOR ANY DAMAGES ARISING OUT OF OR RELATED TO THIS AGREEMENT OR YOUR ORDER, WHETHER IN CONTRACT OR TORT, OR OTHERWISE, SHALL BE LIMITED TO THE GREATER OF THE FEES YOU PAID ORACLE UNDER THIS AGREEMENT OR ONE THOUSAND U.S. DOLLARS (INR 64,027.50).**

#### **ORACLE LOGO AND TRADEMARKS**

Oracle grants You a non-exclusive, non-transferable right and license to use, during the term of this Agreement, the Oracle Academy logo and eBadges. Your use of the Oracle Academy logo and eBadges shall strictly comply with the Oracle Academy Logo Guidelines set forth at [https://academy.oracle.com/pages/academy\\_guidelines.pdf](https://academy.oracle.com/pages/academy_guidelines.pdf). You shall not use the Oracle Academy logo in a manner that misrepresents Your relationship with Oracle or is otherwise misleading, or that reflects negatively on Oracle. If Oracle, in its sole discretion, determines that Your use of the Oracle Academy logo is not in compliance with this Agreement, You shall promptly modify or discontinue Your use of the Oracle Academy logo as directed by Oracle. Oracle may change the Oracle Academy logo and Oracle Academy Logo Guidelines, and, upon reasonable notice from Oracle, You shall promptly modify Your use of the logo to conform to any such changed Oracle Academy logo or Oracle Academy Logo Guidelines. You acknowledge that You are granted no rights with respect to Oracle trademarks except as expressly set forth herein, and agree that any use of the Oracle Academy logo by You shall inure to the sole benefit of Oracle. You agree to provide reasonable assistance to Oracle in connection with the protection and prosecution of Oracle trademarks. You agree not to use Oracle trademarks or potentially confusing variations of Oracle trademarks (including "Ora") as a part of any of Your trademarks, product names, service names, company name, or Internet addresses.

#### **EXPORT**

Export laws and regulations of the United States and any other relevant local export laws and regulations apply to the Benefits. You agree that such export control laws govern Your use of the Benefits and any deliverables provided under this Agreement, and You agree to comply with all such export laws and regulations (including "deemed export" and "deemed re-export" regulations). You agree that no data or information resulting from Benefits (or direct product thereof) will be exported, directly or indirectly, in violation of these laws, or will be used for any purpose prohibited by these laws including, without limitation, nuclear, chemical, or biological weapons proliferation, or development of missile technology.

#### **PARTICIPATION AND PRIVACY**

You agree that Oracle may publicize Your participation in the Oracle Academy. This includes, but is not limited to, details about Your participation. Further, Oracle may collect certain information from You in connection with Your registration for, and Oracle's provision of, certain products and services. With respect to such collected information, Oracle will abide by the Oracle Privacy Policy, a current version of which is set forth at <http://www.oracle.com/privacy>.

#### **ENTIRE AGREEMENT**

You agree that this Agreement and the information which is incorporated into this Agreement by written reference (including reference to information contained in a URL or referenced policy) are the complete agreement for the Benefits, and that this Agreement supersedes all prior or contemporaneous agreements or representations, written or oral, regarding such Benefits. If any term of this Agreement is found to be invalid or unenforceable, the remaining provisions will remain effective and such term shall be replaced with a term consistent with the purpose and intent of this Agreement. It is expressly agreed that the terms of this Agreement and any Oracle ordering document shall supersede the terms in any purchase order or other non-Oracle ordering document and no terms included in any such purchase order or other non-Oracle ordering document shall apply to the programs and/or services ordered. This Agreement may not be modified and the rights and restrictions may not be altered or waived except in a writing signed or accepted online by authorized representatives of You and of Oracle. Any notice required under this Agreement shall be provided to the other party in writing, except that Oracle may provide notice of changes to its Oracle Academy program offering, including changes to Benefits, by posting such information to Oracle Academy members at the Academy Website.

## OTHER

Oracle is an independent contractor and the parties agree that no partnership, joint venture, or agency relationship exists between the parties. Neither party will represent that it has any authority to assume or create any obligation, express or implied, on behalf of the other party, nor to represent the other party as agent, employee, franchisee, or in any other capacity. The relationship between the parties is not exclusive.

This agreement is governed by the substantive and procedural laws of India and You and Oracle agree to submit to the exclusive jurisdiction of, and venue in, the courts in New Delhi in any dispute arising out of or relating to this Agreement.

If You have a dispute with Oracle or if You become subject to insolvency or other similar legal proceedings, You will promptly send written notice to: Oracle India Private Limited at 7th, 8th & 9th Floor, One Horizon Center, DLF Golf Course Road, DLF City V, Sector 43, Gurgaon, Haryana 122003, Attention: General Counsel, Legal Department.

You may not assign this Agreement or give or transfer Benefits or an interest in them to another individual or entity.

Except for actions for nonpayment or breach of Oracle's proprietary rights, no action, regardless of form, arising out of or relating to this Agreement may be brought by either party more than two (2) years after the cause of action has accrued.

You understand that Oracle's business partners are independent of Oracle and are not Oracle's agents. Oracle is not liable for nor bound by any acts of any such business partner, unless the business partner is providing services as an Oracle subcontractor under this Agreement.

Last updated 15 July 2015

  
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## ORACLE ACADEMY INSTITUTION MEMBERSHIP AGREEMENT

This Oracle Academy Institution Membership Agreement ("Agreement") is between Oracle India Private Limited ("Oracle") and the entity that has executed or otherwise accepted and agreed to the terms of this Agreement for the delivery and use of the Benefits.

### DEFINITIONS

- "Programs" refers to (a) Oracle software owned and made available to You for download by Oracle, (b) any product updates acquired through technical support, and (c) web-based applications that Oracle may host remotely for You to access and use in furtherance of this Agreement, including Oracle iLearning and Oracle Application Express or other web-based applications provided by Oracle at its sole discretion. The then-current Programs are identified in the Benefits.
- "Benefits" refers to the Programs, Services, and Materials provided under this Agreement pursuant to the then-current Oracle Academy institution program description set forth at <https://academy.oracle.com/en/membership-benefits.html>.
- "Services" refers to services provided by Oracle to You as part of the Benefits, which may include Materials (as further defined below), remote hosting services, technical support, or other Oracle services.
- "Class" refers to an educational class that (i) You provide to Students in accordance with this Agreement; (ii) includes use of the Benefits; (iii) an Instructor teaches for the sole purpose of teaching Students as part of Your regular curriculum following Your standard class formats; and (iv) You provide for non-commercial, accredited classroom, educational, and not-for-profit class or degree-related research purposes only as part of either a secondary school, diploma or degree-granting program.
- "Instructor" refers to an individual that You authorize to teach a Class and who meets the requirements in the section below entitled *Your Responsibilities*. Each Instructor shall create a membership via the Academy Website to identify themselves as authorized by You to instruct a Class and to obtain access to the applicable Benefits.
- "Instructor Materials" refers to the teaching materials provided by Oracle under this Agreement for Instructors to teach Classes.
- "Student" refers to a student enrolled in a Class.
- "Student Materials" refers to the materials provided by Oracle under this Agreement for use by Students in conjunction with the applicable Class.
- "Materials" refers to Student Materials and Instructor Materials, collectively.
- "Academy Website" refers to the Oracle web site located at <https://academy.oracle.com>.

### ORACLE'S RESPONSIBILITIES

Oracle will provide the Benefits for use by Your Instructors and Students subject to the terms and conditions of this Agreement. Oracle may adjust its responsibilities at its sole discretion with at least thirty (30) days notice to You.

### YOUR RESPONSIBILITIES

You must meet any member responsibilities and minimum system requirements for installing and using Programs that may be detailed at the Program's information page or at <https://academy.oracle.com/en/membership-benefits.html>. Oracle may adjust such responsibilities and requirements at its sole discretion with at least thirty (30) days notice to You. You agree you will be responsible for each Instructor's and each Student's compliance with this Agreement except as set forth in the section below entitled *Student License Agreement*.

### RIGHTS GRANTED

Subject to the terms of this Agreement, You are granted a non-exclusive and non-transferable right and license to:

1. Access and use the Benefits, including receiving technical support services for the Programs, solely for the purpose of teaching a non-commercial, accredited classroom, educational, and not-for-profit class or for the performance of degree-related research purposes only as part of either a primary school, secondary school, diploma or degree-granting program to which the Benefits apply (such use specifically excludes Your use for internal data processing or for production or commercial purposes);
2. Allow each Instructor to access and use the Benefits solely for the purposes set forth in subsection 1 above; and
3. Allow each Student in a Class to access and use the Benefits solely for the purpose or participating in a Class.

Student usage is limited to teaching up to the number of Students specified in each Instructor's registration confirmation. Oracle may discontinue or revise the Benefits or change the fee structure, if any, of the Benefits at any time at its sole discretion with at least thirty (30) days notice to You.

Oracle Academy members transitioning from Oracle Academy Introduction to Computer Science, Oracle Academy Advanced Computer Science, and Oracle Academy Business Applications programs may continue to use Materials previously downloaded in connection with such programs in accordance with the restrictions detailed in this Agreement through May 31, 2016.

### **DISTRIBUTION RESTRICTIONS**

Subject to the terms of this Agreement, You may distribute electronic copies of Materials to:

1. Each Student in the Class for the sole purpose of taking that Class, and
2. The Instructor teaching the relevant Class for the sole purpose of conducting that Class.

Electronic distribution of Materials by You for the authorized purposes noted above is permitted unless otherwise noted within the Materials. You may download Materials directly from Oracle only. Oracle may cease providing support for Materials at its discretion.

You may copy the Programs for Your licensed use in order to teach the relevant Class. You may also make a single copy of the Programs for each Student to use in the Class.

You have the right to host the Programs for the sole purpose of teaching Classes, provided that You make the Programs accessible in a secure manner only to Students enrolled in the offering. You have the right to contract with a third party for hosting services provided that (a) such contract is consistent with this Agreement in its protection and use of the Programs, (b) all such Programs hosting is only for Your benefit and use, and (c) You shall remain fully responsible for the performance of the third party hosting service provider. Oracle will not have any liability to You or any third party for claims related to Your hosting services.

### **STUDENT LICENSE AGREEMENT**

Students will be responsible for their use of Programs on their personal computers provided they first accept and agree to the Oracle Student License Agreement available at <https://academy.oracle.com/en/oa-legal-notice-student-use-agreements.html>. You may not permit or enable Students to install copies of the Programs on their personal computers or computers that do not remain on Your premises (excluding computers that remain on Your premises such as in a computer lab) unless each such Student first accepts and agrees to the Oracle Student License Agreement prior to obtaining and installing any such Programs. For the purpose of this Agreement, Your premises do not include dormitories or other living or dining accommodations.

### **OWNERSHIP AND RESTRICTIONS**

Oracle or its licensors retain all ownership and intellectual property rights to the Programs and Materials. Oracle retains all ownership and intellectual property rights to anything developed by Oracle and delivered to You under this Agreement resulting from the Services.

Third party technology that may be appropriate or necessary for use with some Oracle programs is specified in the Benefits or applicable Program documentation. If such third party technology is delivered by Oracle it is licensed to You under the terms of the specified third party technology license agreement and not under the terms of this Agreement. If such third party technology is delivered by a third party then You and such third party will separately agree on the applicable license terms and Oracle shall have no liability with respect to the use of such third party technology.

You may not:

- remove or modify any Program markings or any notice of Oracle's or its licensors' proprietary rights;
- make the Programs, Materials, or deliverables resulting from the Services available in any manner to any third party for use in the third party's business operations;
- cause or permit reverse engineering (unless required by law for interoperability), disassembly or de-compilation of the Programs (the foregoing prohibition includes but is not limited to review of data structures or similar materials produced by Programs); or
- disclose results of any Programs or Services benchmark tests without Oracle's prior written consent.

### **SUPPORT**

During the term of this Agreement You may receive the following support:

1. Membership and web-based application support: email support accessed through the Academy Website.
2. Technical support for Programs pursuant to Oracle's then current technical support policies (subject to change), available through the following website: <https://support.oracle.com/>.

## RECORDS AND AUDITS

You will maintain books and records relating to the provision of Classes under this Agreement. Upon at least forty-five (45) days written notice, Oracle may audit Your Classes and Your use of the Programs, Services and Materials, and other materials acquired by You under this Agreement. You agree to cooperate with any such audit and provide Oracle with reasonable assistance and access to information. You agree to pay within thirty (30) days of written notification any fees applicable to Your use of the Programs, Services and Materials in excess of Your license rights. If You do not pay, Oracle can end Your support, licenses and this Agreement immediately. You agree that Oracle shall not be responsible for any of Your costs incurred in cooperating with the audit.

## TERM AND TERMINATION

This Agreement shall be effective upon You executing it or otherwise accepting and agreeing to the terms of this Agreement and acceptance by Oracle and shall remain in effect for three (3) years, unless terminated as provided herein. All rights and/or licenses to the Programs, Materials, and Services under this Agreement shall automatically terminate upon termination or expiration of this Agreement unless the term is renewed by agreement of the parties. You may renew this Agreement for additional, successive membership terms subject to Oracle's approval.

Either party may terminate this Agreement for convenience at any time upon ninety (90) days written notice. Further, in the event an Instructor behaves in a manner that Oracle, at its sole discretion, deems unprofessional or not in keeping with the intent of this Agreement while teaching a Class or attending training, Oracle reserves the right to terminate this Agreement and/or terminate such Instructor's participation upon written notice to You, effective on the date of the notice. Otherwise, if either party breaches a material term of this Agreement and fails to correct the breach within thirty (30) days of written specification of the breach, then the breaching party is in default and the non-breaching party may terminate this Agreement.

Provisions that survive termination include those relating to warranty disclaimer, limitation of liability, and others, which by their nature are intended to survive. Upon termination or expiration of this Agreement, You will return or destroy all Programs and Materials provided to You, Your Instructors, and Your Students under this Agreement.

## WARRANTIES AND DISCLAIMERS

**ORACLE PROVIDES THE PROGRAMS, MATERIALS AND SERVICES "AS IS" WITHOUT WARRANTY. ORACLE DISCLAIMS ALL WARRANTIES AND CONDITIONS, WHETHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES AND CONDITIONS OF NON-INFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE. YOU SHALL NOT MAKE ANY WARRANTY ON ORACLE'S BEHALF.**

You warrant and represent that Your acceptance of free Oracle Academy program membership and/or Benefits (i) will not influence public procurement or any public decision; and (ii) is permitted under Your applicable local laws, regulations and internal policies.

## LIMITATION OF LIABILITY

**NEITHER PARTY SHALL BE LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES, OR ANY LOSS OF PROFITS, REVENUE, DATA, OR DATA USE. ORACLE'S MAXIMUM LIABILITY FOR ANY DAMAGES ARISING OUT OF OR RELATED TO THIS AGREEMENT OR YOUR ORDER, WHETHER IN CONTRACT OR TORT, OR OTHERWISE, SHALL BE LIMITED TO THE GREATER OF THE FEES YOU PAID ORACLE UNDER THIS AGREEMENT OR ONE THOUSAND U.S. DOLLARS (INR 64,027.50).**

## NONDISCLOSURE

By virtue of this Agreement, the parties may have access to information that is confidential to one another ("Confidential Information"). We each agree to disclose only information that is required for the performance of obligations under this Agreement. Confidential Information shall be limited to the terms of this Agreement and information required for the performance of obligations under this Agreement that is clearly identified as confidential at the time of disclosure.

A party's Confidential Information shall not include information that: (a) is or becomes a part of the public domain through no act or omission of the other party; (b) was in the other party's lawful possession prior to the disclosure and had not been obtained by the other party either directly or indirectly from the disclosing party; (c) is lawfully disclosed to the other party by a third party without restriction on the disclosure; or (d) is independently developed by the other party.

We each agree not to disclose each other's Confidential Information to any third party other than those set forth in the following sentence for a period of three (3) years from the date of disclosure. We may disclose Confidential Information

  
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only to those employees or agents or subcontractors who are required to protect it against unauthorized disclosure in a manner no less protective than under this Agreement. Nothing shall prevent either party from disclosing the terms under this Agreement in any legal proceeding arising from or in connection with this Agreement or disclosing the Confidential Information to a governmental entity as required by law.

#### **ORACLE LOGO AND TRADEMARKS**

Oracle grants You a non-exclusive, non-transferable right and license to use, during the term of this Agreement, the Oracle Academy logo on Your marketing materials solely to promote Classes in conjunction with Your other course offerings. Your use of the Oracle Academy logo shall strictly comply with the Oracle Academy Logo Guidelines set forth at [https://academy.oracle.com/pages/academy\\_guidelines.pdf](https://academy.oracle.com/pages/academy_guidelines.pdf). You shall not use the Oracle Academy logo in a manner that misrepresents Your relationship with Oracle or is otherwise misleading, or that reflects negatively on Oracle. All products and services in connection with which You use the Oracle Academy logo shall conform to Oracle's quality standards and meet or exceed industry standards. You shall cooperate with Oracle to allow for review of Your use of the Oracle Academy logo and compliance with Oracle's quality standards. If Oracle, in its sole discretion, determines that Your use of the Oracle Academy logo is not in compliance with this Agreement, You shall promptly modify or discontinue Your use of the Oracle Academy logo as directed by Oracle. Oracle may change the Oracle Academy logo and Oracle Academy Logo Guidelines, and, upon reasonable notice from Oracle, You shall promptly modify Your use of the logo to conform to any such changed Oracle Academy logo or Oracle Academy Logo Guidelines. You acknowledge that You are granted no rights with respect to Oracle trademarks except as expressly set forth herein, and agree that any use of the Oracle Academy logo by You shall inure to the sole benefit of Oracle. You agree to provide reasonable assistance to Oracle in connection with the protection and prosecution of Oracle trademarks. You agree not to use Oracle trademarks or potentially confusing variations of Oracle trademarks (including "Ora") as a part of any of Your trademarks, product names, service names, company name, or Internet addresses.

#### **EXPORT**

Export laws and regulations of the United States and any other relevant local export laws and regulations apply to the Programs, Materials and Benefits. You agree that such export control laws govern Your use of the Programs (including technical data) and any Services deliverables provided under this Agreement, and You agree to comply with all such export laws and regulations (including "deemed export" and "deemed re-export" regulations). You agree that no data, information, Program and/or Materials resulting from Services (or direct product thereof) will be exported, directly or indirectly, in violation of these laws, or will be used for any purpose prohibited by these laws including, without limitation, nuclear, chemical, or biological weapons proliferation, or development of missile technology.

#### **PARTICIPATION AND PRIVACY**

You agree that Oracle may publicize Your participation in Oracle Academy. This includes, but is not limited to, details about Your participation. Further, Oracle may collect certain information from You, Your Instructors and Your Students in connection with Your registration for, and Oracle's provision of, certain products and services. With respect to such collected information, Oracle will abide by the Oracle Privacy Policy, a current version of which is set forth at <http://www.oracle.com/privacy>.

#### **ENTIRE AGREEMENT**

You agree that this Agreement and the information which is incorporated into this Agreement by written reference (including reference to information contained in a URL or referenced policy) are the complete agreement for the Benefits, and that this Agreement supersedes all prior or contemporaneous agreements or representations, written or oral, regarding such Benefits. If any term of this Agreement is found to be invalid or unenforceable, the remaining provisions will remain effective and such term shall be replaced with a term consistent with the purpose and intent of this Agreement. It is expressly agreed that the terms of this Agreement and any Oracle ordering document shall supersede the terms in any purchase order or other non-Oracle ordering document and no terms included in any such purchase order or other non-Oracle ordering document shall apply to the programs and/or services ordered. This Agreement may not be modified and the rights and restrictions may not be altered or waived except in a writing signed or accepted online by authorized representatives of You and of Oracle. Any notice required under this Agreement shall be provided to the other party in writing, except that Oracle may provide notice of changes to its Oracle Academy program offering, including changes to Benefits, by posting such information to Oracle Academy members at the Academy Website.

#### **OTHER**

Oracle is an independent contractor and the parties agree that no partnership, joint venture, or agency relationship exists between the parties. Neither party will represent that it has any authority to assume or create any obligation, express or implied, on behalf of the other party, nor to represent the other party as agent, employee, franchisee, or in any other capacity. The relationship between the parties is not exclusive.

If the Ministry of Education (MOE) or equivalent organization in Your country controlling You has executed a master agreement with Oracle ("Master Agreement"), and if You are listed in Appendix 1 of the Master Agreement, such Master Agreement shall supersede and prevail over this Agreement with respect to any conflicting terms during the applicable term of such Master Agreement. You hereby agree that You have reviewed the terms of such Master Agreement and agree that any conflicting terms shall serve to modify this Agreement such that the conflicting terms in the Master Agreement shall apply to this Agreement with full force and effect.

This agreement is governed by the substantive and procedural laws of India and You and Oracle agree to submit to the exclusive jurisdiction of, and venue in, the courts in New Delhi in any dispute arising out of or relating to this Agreement.

If You have a dispute with Oracle or if You become subject to insolvency or other similar legal proceedings, You will promptly send written notice to: Oracle India Private Limited at 7th, 8th & 9th Floor, One Horizon Center, DLF Golf Course Road, DLF City V, Sector 43, Gurgaon, Haryana 122003, Attention: General Counsel, Legal Department.

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Last updated 15 July 2015

  
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ACADEMIC YEAR

**2016–17**

ORACLE ACADEMY

**Java Fundamentals**

## Java Fundamentals – Course Objectives

### Overview

This course engages students with little or no programming experience to create Java programs. Participants are introduced to object-oriented programming concepts, terminology, and syntax, and the steps required to create basic Java programs using the Alice, Greenfoot, and Eclipse interactive development environments. Hand-on practices figure prominently throughout this course so students can experience firsthand the power of computer programming.

### Available Curriculum Languages:

- Arabic, Simplified Chinese, English, French, Indonesian, Japanese, Brazilian Portuguese, Spanish

### Duration

- Recommended total course time: 90 hours\*
- Professional education credit hours for educators who complete Oracle Academy training: 30

\* Course time includes instruction, self-study/homework, practices, projects and assessment

### Target Audiences

#### Educators

- College/university faculty who teach computer programming, information communications technology (ICT), or a related subject
- Secondary school teachers who teach computer programming

#### Students

- Students with little programming experience who wish to learn Java programming and build their Object Oriented Programming experience using fun Java development environments
- This course is a suitable foundational class for computer science majors

### Prerequisites

#### Required

- Basic understanding of at least one programming language
- The ability to follow software installation instructions and install Alice, Greenfoot, and Eclipse on a computer

#### Suggested

- Getting Started with Java Using Alice and Creating Java Programs with Greenfoot or previous experience with at least one programming language

### Suggested Next Courses

- Java Programming

## Lesson-by-Lesson Topics and Objectives

### Section 1 – Introduction

- 1-1 Introduction
  - Examine the course sections
  - State the goal of the course
  - Become familiar with Oracle Academy Member Hub
  - Explain the course map
  - Describe the software used in this course
  - Recognize the IDEs used in this course

### Section 2 – Using Alice 3

- 2-1 Getting Started with Alice 3
  - Identify scene components
  - Create and save a new project
  - Add an object to a scene
  - Communicate the value of saving multiple versions of a scene
  - Code a simple programming instruction
  - Use the copy and undo command
  - Understand the value of testing and debugging
- 2-2 Add and Position Objects
  - Open a saved version of a project
  - Add multiple objects to a scene
  - Describe the difference between precise positioning and drag-and-drop (or imprecise) positioning
  - Use a one-shot procedure to precisely position an object in a scene
  - Edit properties of an object in the Scene editor
  - Describe three-dimensional positioning axes
  - Position the sub-parts of an object in the Scene editor
- 2-3 Procedures and Arguments
  - Toggle between, and describe the visual differences between, the Scene editor and the Code editor
  - Locate and describe the purpose of the methods panel and the procedures tab
  - Use procedures to move objects
  - Add Java programming procedures to the Code editor
  - Demonstrate how procedure values can be altered
  - Create programming comments
  - Reorder, edit, delete, copy, and disable programming statements
  - Test and debug an animation
- 2-4 Rotation and Randomization
  - Correlate storyboard statements with program execution tasks
  - Add a control statement to the Code editor
  - Use random numbers to randomize motion
- 2-5 Declare Procedures
  - Compare and define an animation and a scenario
  - Write a storyboard
  - Flowchart a storyboard
  - Describe inheritance and how traits are passed from superclasses to subclasses
  - Describe when to implement procedural abstraction
  - Demonstrate how to declare a procedure
  - Identify and use procedural abstraction techniques to simplify animation development
- 2-6 Control Statements
  - Define multiple control statements to control animation timing
  - Create an animation that uses a control statement to control animation timing
  - Recognize programming constructs to invoke simultaneous movement
- 2-7 Functions
  - Use functions to control movement based on a return value

  
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- 2-8 IF and WHILE Control Structures
  - Use the IF control structure to effect execution of instructions
  - Use the WHILE control structure to create a conditional loop for repetitive behavior
- 2-9 Expressions
  - Create an expression to perform a math operation
  - Interpret a math expression
- 2-10 Variables
  - Understand variables
  - Understand how variables are used in programming
  - Viewing Alice code as Java Code on the side
- 2-11 Keyboard Controls
  - Create an opening sequence
  - Use keyboard controls to manipulate an animation
  - Save your Class file
  - Using the starter tab
  - Add an existing class file to an animation
- 2-12 Develop a Complete Animation
  - Use functional decomposition to write a scenario and storyboard
  - Complete an animation
  - Test an animation
  - Reposition objects at runtime
  - Upload your animation
  - Plan the presentation of a completed animation project
- 2-13 Java Variables and Data Types
  - Describe variables
  - Describe Java simple types
  - Define arithmetic operators
  - Describe relational and logical operators
  - Describe assignment operators
- 2-14 Java Methods and Classes
  - Describe a method, class, and instance
  - Describe a scenario where an IF control structure would be used
  - Describe a scenario where a WHILE control structure would be used
  - Recognize the syntax for a method, class, function, and procedure
  - Describe input and output

### Section 3 – Using Greenfoot

- 3-1 Getting Started With Greenfoot
  - Download and install Greenfoot
  - Describe the components of the Greenfoot interactive development environment
  - Create an instance of a class
  - Describe classes and subclasses
  - Recognize Java syntax used to correctly create a subclass
- 3-2 Methods, Variables and Parameters
  - Define parameters and how they are used in methods
  - Understand inheritance
  - Describe properties of an object
  - Examine the purpose of a variable
  - Discuss programming concepts and define terminology
- 3-3 Source Code and Documentation
  - Demonstrate source code changes to invoke methods programmatically
  - Demonstrate source code changes to write an if decision statement
  - Describe a method to display object documentation

  
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- 3-4 Developing and Testing an Application
  - Demonstrate program testing strategies
  - Recognize phases for developing a software application
- 3-5 Randomization and Understanding Dot Notation and Constructors
  - Create randomized behaviors
  - Define comparison operators
  - Create if-else control statements
  - Create an instance of a class
  - Recognize and describe dot notation
- 3-6 Defined Methods
  - Describe effective placement of methods in a super or subclass
  - Simplify programming by creating and calling defined methods
  - Handling collisions
- 3-7 Sound and Keyboard Control
  - Write programming statements to include sound in a program
  - Write programming statements to include keyboard movements in a program
  - Write programming statements to include mouse interaction in a program
  - Write programming statements to retrieve information from the user
- 3-8 World Animation and Game End
  - Construct a world object using a constructor method
  - Create an object using a constructor
  - Write programming statements to use the new keyword
  - Define the purpose and syntax of a variable
  - Recognize the syntax to define and test variables
  - Write programming statements to switch between two images
  - Write programming statements to end a game
- 3-9 Abstraction
  - Define abstraction and provide an example of when it is used
  - Define casting
- 3-10 Loops, Variables, and Arrays
  - Create a while loop in a constructor to build a world
  - Describe an infinite loop and how to prevent one from occurring
  - Use an array to store multiple variables used to create a world
  - Create an expression using logic operators
  - Describe the scope of a local variable in a method

#### Section 4 – Java Basics

- 4-1 Getting Started with Eclipse
  - Identify components of Eclipse
  - Identify components of a Java application
  - Compile an application
  - Test to ensure application is complete
  - Write the code for GalToLit.java
  - Modify a program to execute error free
  - Modify a program to use a formula to convert units of measure
- 4-2 Object and Driver Classes
  - Describe the general form of a Java program
  - Describe the difference between an Object class and a Driver class
  - Access a minimum of two Java class APIs
  - Explain and give examples of Java keywords
  - Create an Object class
  - Create a Driver class

  
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- 4-3 Data Types and Operators
  - Use primitive data types in Java code
  - Specify literals for the primitive types and for Strings
  - Demonstrate how to initialize variables
  - Describe the scope rules of a method
  - Recognize when an expression requires a type conversion
  - Apply casting in Java code
  - Use arithmetic operators
  - Use the assignment operator
  - Use a method from the Math class
  - Access a Math class method from the Java API
  
- 4-4 Strings
  - Instantiate (create) a String
  - Describe what happens when a String is modified
  - Use the + and += operators for concatenating Strings
  - Interpret escape sequences in String literals
  - Recognize the difference between a String and a primitive char data type
  - Test Strings with the compareTo() and equals() method
  - Describe why the == operator does not always work when testing String equality
  - Use String methods length(), substring(), indexOf(), and charAt()

## Section 5 – Program Structure

- 5-1 Scanner and Conditional Statements
  - Use Scanner for user input during program execution
  - Use if-else logic and statements
  - Apply switch logic and statements in Java code
  - Use break and default effectively in a switch statement
  - Use the ternary operator
  
- 5-2 Control Statements
  - Create a while loop
  - Create a do-while loop
  - Create a for loop

## Section 6 – Arrays and Exceptions

- 6-1 Arrays
  - Write a single-dimensional array in a Java program using primitive data types
  - Write a single-dimensional array in a Java program using reference (Object) types
  - Write a 2-dimensional array in a Java program using primitive data types
  - Write a 2-dimensional array in a Java program using reference (Object) types
  - Declare an array, initialize an array, and traverse the array
  - Describe array initialization
  - Distinguish between the String method length() and an array's length value
  - Rewrite a Java program to store integers into an array, perform a mathematical calculation, and display the result
  - Use alternative array declaration syntax
  
- 6-2 Handling Errors
  - Describe the different kinds of errors that can occur and how they are handled in Java
  - Describe what exceptions are used for in Java
  - Determine what exceptions are thrown for any foundation class
  - Write code to handle an exception thrown by the method of a foundation class

  
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## Section 7 – Java Classes

- 7-1 Classes, Objects, and Methods
  - Recognize the correct general form of a class
  - Create an object of a class
  - Create methods that compile with no errors
  - Return a value from a method
  - Use parameters in a method
  - Create a driver class and add instances of Object classes
  - Add a constructor to a class
  - Apply the new operator
  - Describe garbage collection and finalizers
  - Apply the this reference
  - Add a constructor to initialize a value
- 7-2 Parameters and Overloading Methods
  - Use access modifiers
  - Pass objects to methods
  - Return objects from methods
  - Use variable argument methods
  - Overload constructors
  - Overload methods
  - Write a class with specified arrays, constructors, and methods
- 7-3 The Static Modifier and Nested Classes
  - Create static variables
  - Use static variables
  - Create static methods
  - Use static methods
  - Create static classes
  - Use static classes
- 7-4 Inheritance
  - Demonstrate and explain UML (Unified Modeling Language) class diagrams
  - Use the extends keyword to inherit a class
  - Compare and contrast superclasses and subclasses
  - Describe how inheritance affects member access
  - Use super to call a superclass constructor
  - Use super to access superclass members
  - Create a multilevel class hierarchy
  - Recognize when constructors are called in a class hierarchy
  - Demonstrate understanding of inheritance through the use of applets
  - Recognize correct parameter changes in an existing applet
- 7-5 Polymorphism
  - Apply superclass references to subclass objects
  - Write code to override methods
  - Use dynamic method dispatch to support polymorphism
  - Create abstract methods and classes
  - Recognize a correct method override
  - Use the final modifier
  - Explain the purpose and importance of the Object class
  - Write code for an applet that displays two triangles of different colors
  - Describe object references

To search and register for events scheduled in your area, visit the [Academy events calendar](#).

# Geethanjali College of Engineering and Technology

(UGC Autonomous Institution)

Cheeryal (V), Keesara (M), Medchal-Malkajgiri Dist., Telangana - 501 301

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Accredited by NBA, ISO 9000:2008 Certified)

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERINGH

### OUTCOMES OF ORACLE ACADEMY TRAINING ON

#### Java Fundamental, Java Programming and Database Design and Programming with SQL

1. With Oracle Academy curriculum, students engage in hands-on learning object-oriented programming skills in Java and also develop problem-solving, and critical-thinking skills to help them advance in computing across industries.
2. Students who have gained fundamental knowledge of object-oriented concepts, and Java terminology and syntax in Java is suited for learning Artificial Intelligence with Machine Learning.
3. Alice allows students to understand fundamentals of programming concepts better through animation programs. By manipulating the objects in their virtual world, students gain experience with all the programming constructs typically taught in an introductory programming course.
4. Green foot is a useful software application to aid in the learning of Java for programmers at an Undergraduate level. The premise of Green foot is to motivate new programmers by allowing them to develop 2D graphical applications such as simulations and interactive games.
5. With Oracle Academy database knowledge and practical skills students gain will help them advance their academic studies in computer science to enter the job market across industries.
6. Students who have completed Java Fundamentals, Java Programming, or Database Design and Database Programming with SQL successfully will be given the Concern Certificate .

  
COURSE COORDINATOR

  
PRINCIPAL

Geethanjali College of Engineering and Technology  
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Cheeryal (V), Keesara (M), Medchal Dist. (T.S.) - 501 301

  
HEAD OF THE DEPARTMENT

Dept. of Computer Science & Engineering  
Geethanjali College of Engineering & Technology (Autonomous)  
Cheeryal (V), Keesara (M), Medchal (D), Telangana. 501301

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## Department of Computer Science and Engineering

Date : 25-01-2017

### CIRCULAR

#### Oracle Certification and Exams

We are happy to inform you that Geethanjali College of ENGINEERING AND Technology(GCET) became Institutional Member of Oracle Academy on 06-01-2017. In this regard Department of CSE is planning to conduct training cum assessment sessions on Java Fundamentals modules in GCET, regarding this the details are as follows:

1. Training cum assessment session will be held after college hours i.e., 4:00PM to 05:30PM, conducted by K. Naresh Babu , Asst.Professor , IT Department .
2. Schedule as follows

S. No	Name of the Course	Venue	Duration	Time
1	Java Fundamentals	Block-I, II-Floor Eclass-Lab-05	01-02-2017 To 01-03-2017	04:00PM to 5:30PM

- 3 Training and assessments are done through online sessions with Oracle Academy Learning website : <https://academy.oracle.com/en/oa-web-overview.html>
4. Certificates will be issued by Oracle Academy Certified Trainer to successfully completed candidates only, who fulfill all the necessary requirements.
5. Training, Assessment and Certification are free of cost.
6. Course Coordinator is requested to encourage B.Tech (All Branches) IV Year students to attend for training. Details(in the given format) of interested students are to be sent to K.Naresh Babu, Asst. Professor, Department of IT on mail-id :oracleacademy.cse@gcet.edu.in.

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S.No	Department	Year	Semester	Roll No.	Name	Eamil-ID	Mobile No	Any Prior Programming knowledge(yes/no)

7. All the registered students will be allotted to the concern lab as per above schedule.

  
**COURSE COORDINATOR**

  
**HEAD OF THE DEPARTMENT**

Head  
 Dept.of Computer Science & Engineering  
**Geethanjali College of Engineering & Technology (Autonomous)**  
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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERINGH**

**Oracle Academy Training on Java Fundamentals**

**LIST OF REGISTERED STUDENTS**

**Academic Year 2016-17**

S.No.	Roll No	FIRST NAME	LAST NAME
1	13R11A0501	Ashapu	Bharath Kumar
2	13R11A0531	K	Nitya Purnima
3	13R11A0546	Sanjeevu	Tejaswani
4	13R11A0547	Tadiparthi	Christina
5	13R11A0555	A	Jayashree
6	13R11A0560	B	Ranjith
7	13R11A0562	B	Kavyasreemadhuri
8	13R11A0564	B	Divya
9	13R11A0565	B	Tejasree
10	13R11A0566	B	Prasanna N
11	13R11A0569	CH	Bhargavireddy
12	13R11A0570	CH	Jyothi
13	13R11A0573	Desham	Srikanthgoud
14	13R11A0574	D	Laxmiprasanna
15	13R11A0575	G	Srilakshmi
16	13R11A0576	Gaddam	Srikanthreddy
17	13R11A0579	J	Susmitha
18	13R11A0583	L	Pruthivi
19	13R11A0585	B	Lakshmi prasanna
20	13R11A0586	M	Swetha
21	13R11A0587	M	Sameera
22	13R11A0590	M	Keerthana
23	13R11A0591	M	Bhargava
24	13R11A0592	MNL	Kashyap
25	13R11A0593	N	Divya
26	13R11A0594	P	Saivamshi
27	13R11A0597	P	Spoorthy
28	13R11A0598	BK	Ramesh
29	13R11A0599	S	Saikiran
30	13R11A05A5	T	Madhurichary
31	13R11A05A6	T	Beulah
32	13R11A05A7	Thota	Aditya Kumar
33	13R11A05B1	C	Vidyabharathi
34	13R11A05H7	Pawar	Abhishek
35	13R11A05H8	A	Lakshmi Prasanna

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36	13R11A05J2	CH	Priyanka
37	13R11A05J3	R	Chandranth
38	13R11A05J6	D	Harathi
39	13R11A05J7	E	V.S.Sairam
40	13R11A05K4	G	Lalitha Priyanka
41	13R11A05L2	M	Saritha
42	13R11A05L9	R	Sruthi Reddy
43	13R11A05M4	B	Shravani

  
COURSE COORDINATOR

  
HEAD OF THE DEPARTMENT

Head  
Dept. of Computer Science & Engineering  
Geethanjali College of Engineering & Technology (Autonomous)  
Chseryal (V), Kaesara (M), Medchal (D), Telangana. 501301

  
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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

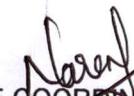
**ACADEMIC YEAR 2016-17**

**ORACLE ACADEMY JAVA FUNDAMENTALS ATTENDANCE**

S.No	Roll Number	First Name	Last name	Date									
				01-02-17	02-02-17	03-02-17	06-02-17	07-02-17	08-02-17	09-02-17	10-02-17	13-02-17	14-02-17
1	13R11A0501	Ashapu	Bharath Kumar	P	A	P	P	A	P	P	P	P	A
2	13R11A0531	K	Nitya Purnima	P	P	P	A	A	P	P	P	P	A
3	13R11A0546	Sanjeevu	Tejaswani	P	P	P	P	P	A	P	P	A	P
4	13R11A0547	Tadiparthi	Christina	P	P	P	P	P	P	P	P	P	P
5	13R11A0555	A	Jayashree	P	A	P	P	P	P	P	P	P	P
6	13R11A0560	B	Ranjith	P	P	P	P	A	P	A	P	P	A
7	13R11A0562	B	uri	A	P	P	P	P	P	P	P	P	P
0	13R11A0564	B	Divya	P	P	A	P	P	A	P	P	P	P
9	13R11A0565	B	Tejasree	P	P	P	P	P	P	P	P	P	A
10	13R11A0566	B	Prasanna	P	A	P	A	A	P	P	P	P	P
11	13R11A0569	CH	Bhargavireddy	P	P	P	P	A	P	P	A	P	P
12	13R11A0570	CH	Jyothi	A	P	P	P	P	P	A	P	A	P
13	13R11A0573	Desham	Srikanthgoud	P	A	A	P	P	P	P	P	P	P
14	13R11A0574	D	Laxmiprasanna	A	P	P	P	P	P	P	A	P	P
15	13R11A0575	G	Srilakshmi	P	A	P	P	P	P	P	P	P	A
16	13R11A0576	Gaddam	Srikanthreddy	P	P	P	P	P	P	P	P	P	P
17	13R11A0579	J	Susmitha	P	P	A	P	A	P	P	P	P	P
18	13R11A0583	L	Pruthivi	A	P	P	A	P	P	A	P	A	P
19	13R11A0585	B	a	P	P	P	A	P	P	P	P	P	P

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20	13R11A0586	M	Swetha	P	P	P	A	P	P	A	P	P	P
21	13R11A0587	M	Sameera	P	P	P	P	P	P	P	P	P	P
22	13R11A0590	M	Keerthana	P	P	P	P	A	P	P	P	P	P
23	13R11A0591	M	Bhargava	P	P	P	A	P	P	P	P	P	P
24	13R11A0592	MNL	Kashyap	P	P	P	P	P	P	P	P	P	P
25	13R11A0593	N	Divya	P	P	P	P	P	P	P	P	P	P
26	13R11A0594	P	Saivamshi	P	P	P	P	P	P	P	P	P	P
27	13R11A0597	P	Spoorthy	A	P	P	P	P	P	P	P	P	P
28	13R11A0598	BK	Ramesh	P	P	P	P	P	P	P	P	P	P
29	13R11A0599	S	Saikiran	P	P	P	P	P	P	P	P	P	P
30	13R11A05A5	T	Madhurichary	P	P	P	P	P	P	P	P	P	P
31	13R11A05A6	T	Beulah	P	P	P	P	P	P	P	P	P	P
32	13R11A05A7	Thota	Aditya Kumar	P	P	P	P	P	P	P	P	P	P
33	13R11A05B1	C	Vidyabharathi	A	P	P	P	P	P	P	P	P	P
34	13R11A05H7	Pawar	Abhishek	P	P	P	P	P	P	P	P	P	P
35	13R11A05H8	A	Prasanna	P	P	P	P	P	P	P	P	P	P
36	13R11A05J2	CH	Priyanka	P	P	P	P	P	P	P	P	P	P
37	13R11A05J3	R	Chandrakanth	P	P	P	P	P	P	P	P	P	P
38	13R11A05J6	D	Harathi	P	P	P	P	P	P	P	P	P	P
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40	13R11A05K4	G	Lalitha Priyanka	P	P	P	P	P	P	P	P	P	P
41	13R11A05L2	M	Saritha	P	P	P	P	P	P	P	P	P	P
42	13R11A05L9	R	Sruthi Reddy	P	P	P	P	P	P	P	P	P	P
43	13R11A05M4	B	Shravani	A	P	P	P	P	P	P	P	P	P

  
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2016-17

## ORACLE ACADEMY JAVA FUNDAMENTALS ATTENDANCE

S.No	Roll Number	First Name	Last name	Date									
				15-02-17	17-02-17	17-02-17	21-02-17	22-02-17	23-02-17	24-02-17	27-02-17	28-02-17	01-03-17
1	13R11A0501	Ashapu	Bharath Kumar	P	P	P	A	P	P	P	P	P	P
2	13R11A0531	K	Nitya Purnima	P	P	P	P	P	P	P	P	P	A
3	13R11A0546	Sanjeevu	Tejaswani	P	P	P	P	P	A	P	P	P	P
4	13R11A0547	Tadiparthi	Christina	P	P	P	A	P	P	P	P	A	P
5	13R11A0555	A	Jayashree	P	A	P	P	P	P	P	P	P	P
6	13R11A0560	B	Ranjith	P	P	P	P	A	P	P	P	P	A
7	13R11A0562	B	uri	P	P	A	P	P	P	A	P	A	P
8	13R11A0564	B	Divya	A	P	P	P	P	P	P	P	P	P
9	13R11A0565	B	Tejasree	P	A	P	A	P	P	P	P	A	P
10	13R11A0566	B	Prasanna	P	A	P	P	A	P	P	P	P	A
11	13R11A0569	CH	Bhargavireddy	P	P	A	P	P	A	P	P	P	P
12	13R11A0570	CH	Jyothi	P	P	P	P	P	P	P	P	A	P
13	13R11A0573	Desham	Srikanthgoud	P	P	A	P	P	P	P	A	P	A
14	13R11A0574	D	Laxmiprasanna	A	P	P	P	A	P	P	P	A	P
15	13R11A0575	G	Srilakshmi	P	P	P	A	P	A	P	P	P	A
16	13R11A0576	Gaddam	Srikanthreddy	A	P	P	A	P	P	A	A	P	P
17	13R11A0579	J	Susmitha	P	A	P	P	A	P	P	A	P	A
18	13R11A0583	L	Pruthivi	A	P	P	P	P	A	A	P	A	P
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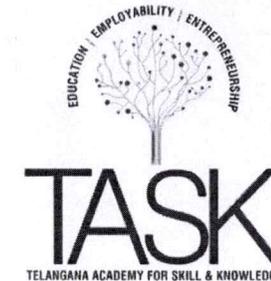
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21	13R11A0587	M	Sameera	P	P	P	P	P	P	P	P	P	P
22	13R11A0590	M	Keerthana	P	P	P	P	P	P	P	P	P	P
23	13R11A0591	M	Bhargava	P	A	P	A	P	P	A	P	P	P
24	13R11A0592	MNL	Kashyap	P	P	P	A	P	P	P	P	P	P
25	13R11A0593	N	Divya	P	A	P	P	A	P	P	P	P	P
26	13R11A0594	P	Saivamshi	P	P	P	A	P	P	P	P	P	A
27	13R11A0597	P	Spoorthy	P	P	A	P	A	A	P	P	P	P
28	13R11A0598	BK	Ramesh	P	A	P	A	P	P	P	P	A	P
29	13R11A0599	S	Saikiran	A	P	P	P	P	A	P	P	P	P
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31	13R11A05A6	T	Beulah	P	A	P	P	P	A	P	P	P	P
32	13R11A05A7	Thota	Aditya Kumar	P	P	P	A	P	P	P	P	P	P
33	13R11A05B1	C	Vidyabharathi	P	P	A	P	P	P	A	P	P	P
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36	13R11A05J2	CH	Priyanka	A	P	A	P	P	P	A	P	P	P
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42	13R11A05L9	R	Sruthi Reddy	P	P	P	P	P	P	A	P	P	P
43	13R11A05M4	B	Shravani	P	P	P	P	P	P	P	A	A	A

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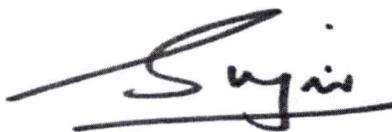
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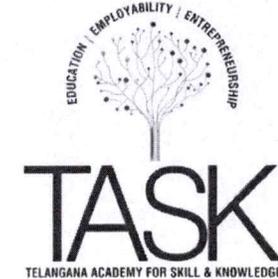
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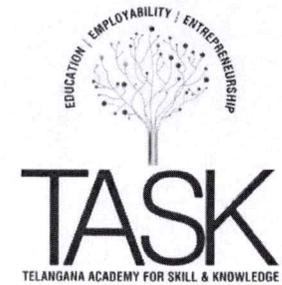
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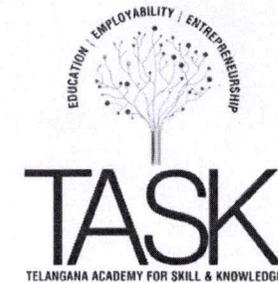
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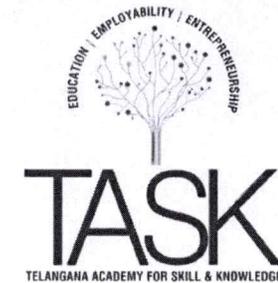
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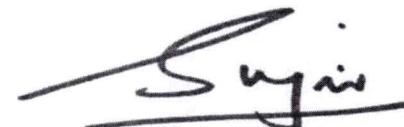
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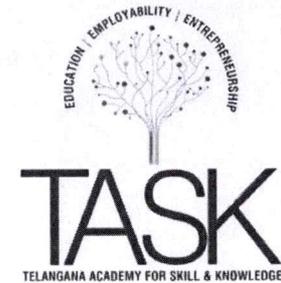
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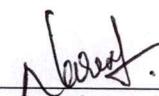
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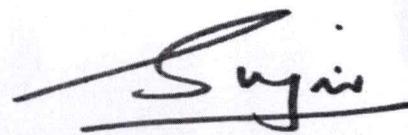
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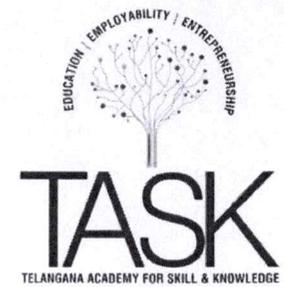
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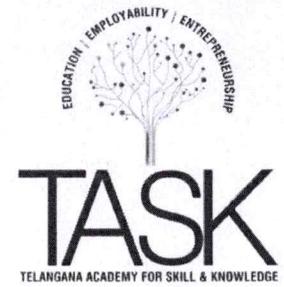
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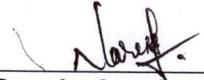
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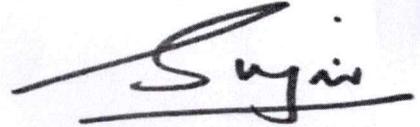
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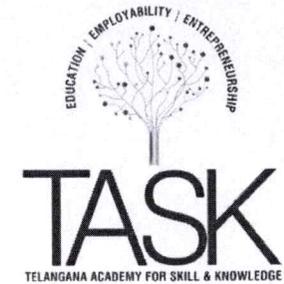
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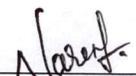
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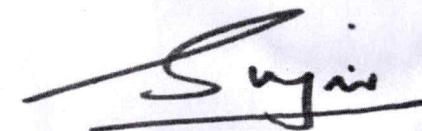
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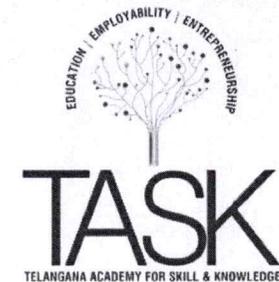
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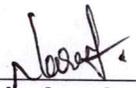
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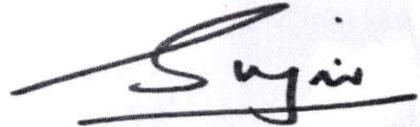
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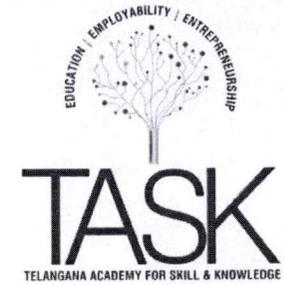
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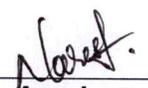
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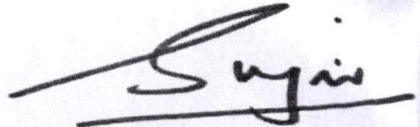
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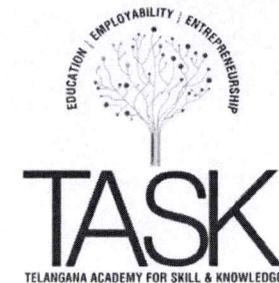
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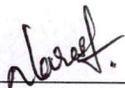
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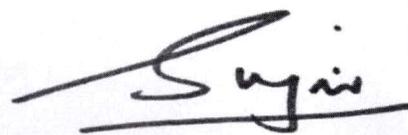
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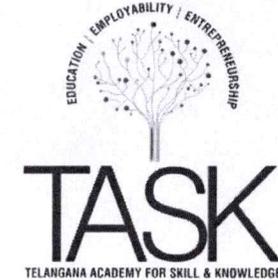
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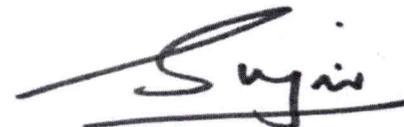
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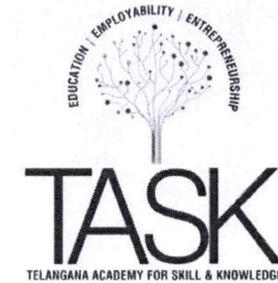
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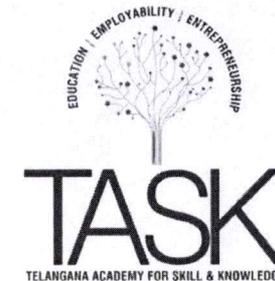
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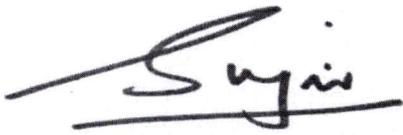
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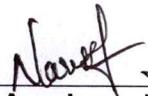
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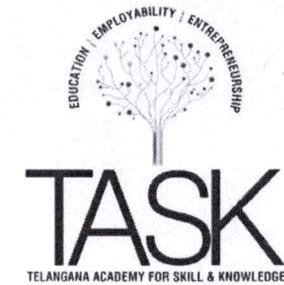
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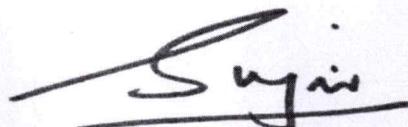
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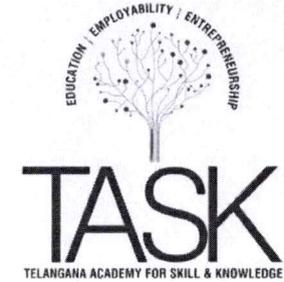
  
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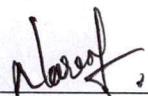
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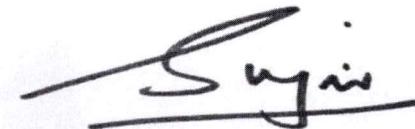
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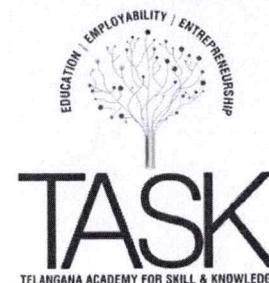


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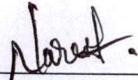
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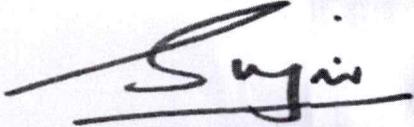
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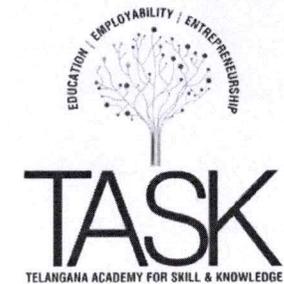
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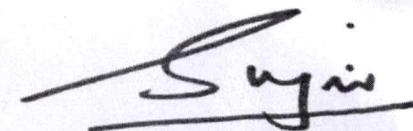
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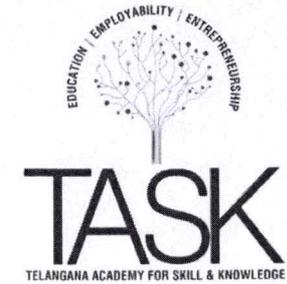
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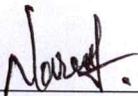
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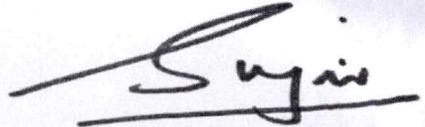
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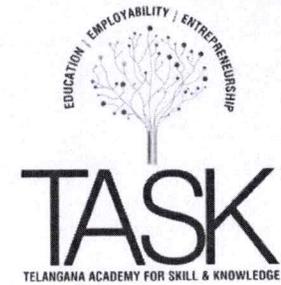
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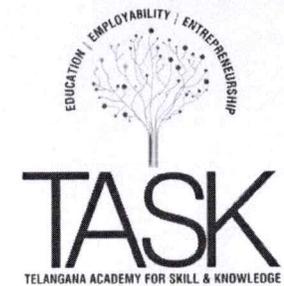
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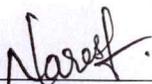
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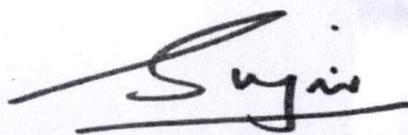
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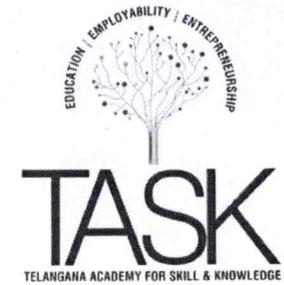
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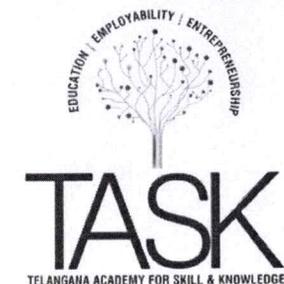
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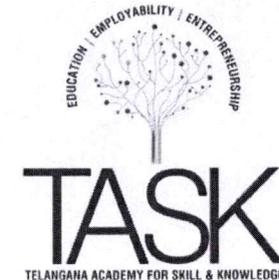
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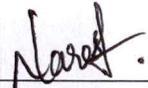
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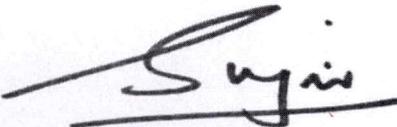
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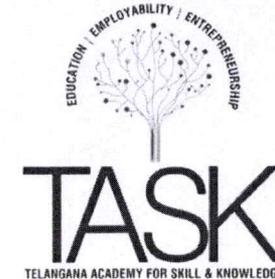
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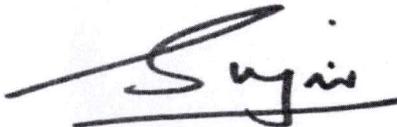
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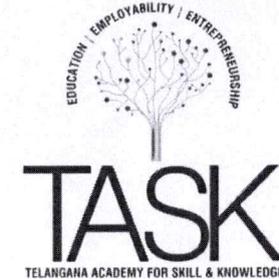
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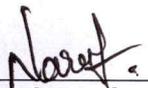
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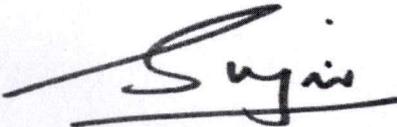
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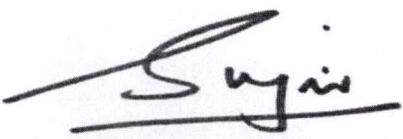
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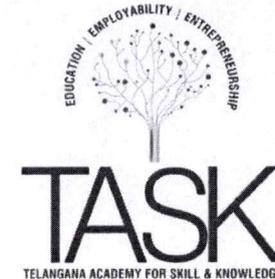
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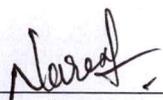
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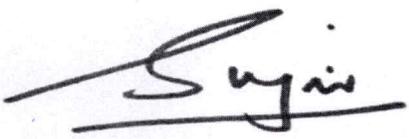
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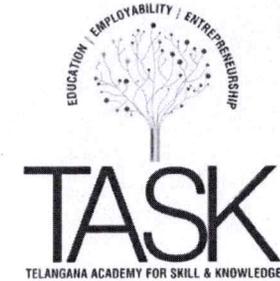
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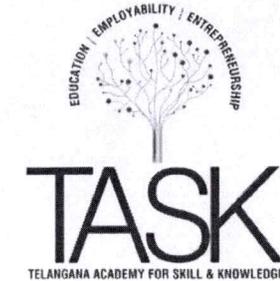
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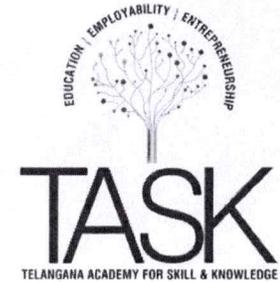
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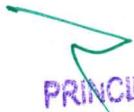
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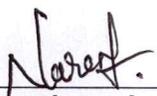
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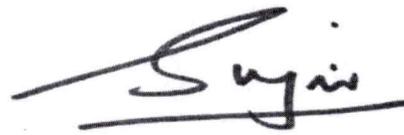
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**ACADEMIC YEAR**

**2016–17**

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**Java Programming**

## Java Programming – Course Objectives

### Overview

This course of study builds on the skills gained by students in Java Fundamentals or Java Foundations to help advance Java programming skills. Students will design object-oriented applications with Java and will create Java programs using hands-on, engaging activities.

### Available Curriculum Languages:

- English

### Duration

- Recommended total course time: 90 hours\*
- Professional education credit hours for educators who complete Oracle Academy training: 30

\* Course time includes instruction, self-study/homework, practices, projects and assessment

### Target Audiences

#### Educators

- Technical, vocational, and 2- and 4-year college and university faculty members who teach computer programming or a related subject
- Secondary and vocational school teachers who teach computer programming

#### Students

- Students who wish to extend their programming experience in Java and develop more complex Java applications
- This course is a suitable foundational class for computer science majors and non-majors alike, and when taught in sequence with Java Fundamentals or Java Foundations, and may be used to prepare students for the AP Computer Science A exam

### Prerequisites

#### Required:

- Fundamental knowledge of object-oriented concepts, terminology, and syntax, and the steps required to create basic Java programs

#### Suggested:

- Either:
  - Oracle Academy Course - Java Fundamentals
  - Oracle Academy Course – Java Foundations
- Previous experience with at least one programming language

### Suggested Next Courses

- Advanced computer programming courses

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## Lesson-by-Lesson Topics and Objectives

### Section 1 – Java Language – What I Should Know

- 1-1 Fundamentals of Java – What I Should Know
  - Review of Java Primitives
  - Review of Strings
  - Review of Logical and Relational Operators
  - Review of Conditional Statements
  - Review of Program Control
  - Review of Object Classes
  - Review of Constructor and Method Overloading
  - Review of Inheritance

### Section 2 – Class Design and Exceptions

- 2-1 Working with Pre-Written Code
  - Read and understand a pre-written Java program consisting of classes and interacting objects
  - Apply the concept of inheritance in the solutions of problems
  - Test classes in isolation
  - Describe when it is more appropriate to use an ArrayList than an Array
- 2-2 Java Class Design – Interfaces
  - Model business problems using Java classes
  - Make classes immutable
  - Use Interfaces
- 2-3 Java Class Design – Abstract Classes
  - Use Abstract Classes
  - Use the instanceof operator to compare object types
  - Use virtual method invocation
  - Use upward and downward casts
- 2-4 Exceptions and Assertions
  - Use exception handling syntax to create reliable applications
  - Use try and throw statements
  - Use the catch, multi-catch, and finally statements
  - Recognize common exception classes and categories
  - Create custom exception and auto-closeable resources
  - Test invariants by using assertions

### Section 3 – Data Structures: Generics and Collections

- 3-1 Generics
  - Create a custom generic class
  - Use the type interface diamond to create an object
  - Use generic methods
  - Use wildcards
  - Use enumerated types
- 3-2 Collections – Part 1
  - Create a collection without using generics
  - Create a collection using generics
  - Implement an ArrayList
  - Implement a Set
- 3-3 Collections – Part 2
  - Implement a HashMap
  - Implement a stack by using a deque
  - Define a link list
  - Define a queue
  - Implement a comparable interface

  
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- 3-4 Sorting and Searching
  - Recognize the sort order of primitive types and objects
  - Trace and write code to perform a simple Bubble Sort of integers
  - Trace and write code to perform a Selection Sort of integers
  - Trace and write code to perform a Binary Search of integers
  - Compare and contrast search and sort algorithms
  - Analyze the Big-O for various sort algorithms

#### Section 4 – Strings, Regular Expressions, and Recursion

- 4-1 String Processing
  - Read, search, and parse Strings
  - Use StringBuilder to create Strings
- 4-2 Use Regular Expressions
  - Use regular expressions
  - Use regular expressions to:
    - Search Strings
    - Parse Strings
    - Replace Strings
- 4-3 Recursion
  - Create linear recursive methods
  - Create non-linear recursive methods
  - Compare the pros and cons of recursion

#### Section 5 – Input and Output

- 5-1 Basics of Input and Output
  - Describe the basics of input and output in Java
  - Read data from and write data to the console
- 5-2 Input and Output Fundamentals
  - Use streams to read and write files
  - Read and write objects by using serialization
- 5-3 Deploying an Application
  - Describe the concept of packages
  - Describe how to deploy an application
  - Describe a complete Java application that includes a database back end

#### Section 6 – JDBC

- 6-1 JDBC Introduction
  - Describe the JDBC
  - Introduce the Oracle JDBC driver
  - Outline the steps in JDBC programming
  - Describe the JDBC statement
- 6-2 JDBC Basics
  - JDBC Data Types
  - Programming with JDBC PreparedStatement
  - Programming with Use JDBC CallableStatement
  - Reading MetaData from Database

#### Section 7 – Java Memory and the JVM

- 7-1 Introduction to JVM Architecture
  - What is Java Technology?
  - Primary goals of Java Technology
  - The Java Virtual Machine architecture
  - JVM runtime area

  
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- 7-2 Java Memory Structure
  - Introduce Java Heap Memory
  - Garbage collection
  - Analyze the memory allocation in JVM

## Section 8 – class File and the JDK

- 8-1 JDK Tools
  - Introduce the javac command
  - Introduce the java command
  - How to use the jps command
  - How to use the jstat command
  - Introduce and use the javap command
  - How to use the jdb command
  - Introduce the jvisualvm tool
  - Introduce the hsdis plugin
- 8-2 class File
  - Understand the class file structure
  - Identify the access field
  - Identify the method structure and bytecode
    - Method Info: Code\_attribute
    - Code Attribute: LineNumberTable\_attribute
    - Class Attribute: SourceFile\_attribute

## Section 9 – Bytecode and ClassLoader

- 9-1 Java Bytecode
  - Understanding Bytecode
    - How to obtain bytecode listings
    - How to read bytecode
    - How the language constructs are mirrored by the compiler: calculation, method calls
- 9-2 ClassLoader
  - The Class Loading Overview
  - ClassLoader loading procedure
  - JDK ClassLoader Class
  - ClassLoader Hierarchy
  - Custom ClassLoader
  - Class Linking

To search and register for events scheduled in your area, visit the [Academy events calendar](#).

  
**PRINCIPAL**  
Geethanjali College of Engineering and Technology  
(Autonomous)  
Cheruvu (V), Keesara (M), Medchal Dist. (T.S.) - 501 301

# Geethanjali College of Engineering and Technology

(UGC Autonomous Institution)

Cheeryal (V), Keesara (M), Medchal-Malkajgiri Dist., Telangana - 501 301

(Approved by AICTE, Permanently Affiliated to JNTUH, Accredited by NAAC with 'A' Grade,  
Accredited by NBA, ISO 9000:2008 Certified)

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERINGH

### OUTCOMES OF ORACLE ACADEMY TRAINING ON

#### Java Fundamental, Java Programming and Database Design and Programming with SQL

1. With Oracle Academy curriculum, students engage in hands-on learning object-oriented programming skills in Java and also develop problem-solving, and critical-thinking skills to help them advance in computing across industries.
2. Students who have gained fundamental knowledge of object-oriented concepts, and Java terminology and syntax in Java is suited for learning Artificial Intelligence with Machine Learning.
3. Alice allows students to understand fundamentals of programming concepts better through animation programs. By manipulating the objects in their virtual world, students gain experience with all the programming constructs typically taught in an introductory programming course.
4. Green foot is a useful software application to aid in the learning of Java for programmers at an Undergraduate level. The premise of Green foot is to motivate new programmers by allowing them to develop 2D graphical applications such as simulations and interactive games.
5. With Oracle Academy database knowledge and practical skills students gain will help them advance their academic studies in computer science to enter the job market across industries.
6. Students who have completed Java Fundamentals, Java Programming, or Database Design and Database Programming with SQL successfully will be given the Concern Certificate .

  
COURSE COORDINATOR

  
PRINCIPAL

Geethanjali College of Engineering and Technology  
(Autonomous)  
Cheeryal (V), Keesara (M), Medchal Dist. (T.S.) - 501 301

  
HEAD OF THE DEPARTMENT

Dept. of Computer Science & Engineering  
Geethanjali College of Engineering & Technology (Autonomous)  
Cheeryal (V), Keesara (M), Medchal (D), Telangana. 501301

# Geethanjali College of Engineering and Technology

(UGC Autonomous Institution)

Cheeryal (V), Keesara (M), Medchal-Malkajgiri Dist., Telangana - 501 301  
(Approved by AICTE, Permanently Affiliated to JNTUH, Accredited by NAAC with 'A' Grade,  
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## Department of Computer Science and Engineering

Date : 02-03-2017

### C I R C U L A R

#### Oracle Certification and Exams

We are happy to inform you that Geethanjali College of ENGINEERING AND Technology(GCET) became Institutional Member of Oracle Academy on 06-01-2017. In this regard Department of CSE is planning to conduct training cum assessment sessions on Java Programming modules in GCET, regarding this the details are as follows:

1. Training cum assessment session will be held after college hours i.e., 4:00PM to 05:30PM, conducted by K. Naresh Babu , Asst.Professor , IT Department .
2. Schedule as follows

S. No	Name of the Course	Venue	Duration	Time
1	Java Programming	Block-I, II-Floor Eclass-Lab-05	06-03-2017 To 01-04-2017	04:00PM to 5:30PM

- 3 Training and assessments are done through online sessions with Oracle Academy Learning website : <https://academy.oracle.com/en/oa-web-overview.html>
4. Certificates will be issued by Oracle Academy Certified Trainer to successfully completed candidates only, who fulfill all the necessary requirements.
5. Training, Assessment and Certification are free of cost.
6. Course Coordinator is requested to encourage B.Tech(All Branches) IV Year students to attend for training. Details(in the given format) of interested students are to be sent to K.Naresh Babu, Asst. Professor, Department of IT on mail-id :oracleacademy.cse@gcet.edu.in.

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S.No	Department	Year	Semester	Roll No.	Name	Eamil-ID	Mobile No	Any Prior Programming knowledge(yes/no)

7. All the registered students will be allotted to the concern lab as per above schedule.

  
**COURSE COORDINATOR**

  
**HEAD OF THE DEPARTMENT**  
 Head  
 Dept. of Computer Science & Engineering  
 Geethanjali College of Engineering & Technology (Autonomous)  
 Cheerayal (V), Keesara (M), Medchal Dist. (T.S.) - 501301

  
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# Geethanjali College of Engineering and Technology

(UGC Autonomous Institution)

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Oracle Academy Training on Java Programming

#### LIST OF REGISTERED STUDENTS

Academic Year 2016-17

S.No.	Roll No	FIRST NAME	LAST NAME
1	13R11A0546	Sanjeevu	Tejaswani
2	13R11A0547	Tadiparthi	Christina
3	13R11A0555	A	Jayashree
4	13R11A0560	B	Ranjith
5	13R11A0562	B	Kavyasreemadhuri
6	13R11A0564	B	Divya
7	13R11A0565	B	Tejasree
8	13R11A0566	B	Prasanna
9	13R11A0569	CH	Bhargavireddy
10	13R11A0570	CH	Jyothi
11	13R11A0573	Desham	Srikanthgoud
12	13R11A0574	D	Laxmiprasanna
13	13R11A0575	G	Srilakshmi
14	13R11A0576	Gaddam	Srikanthreddy
15	13R11A0579	J	Susmitha
16	13R11A0583	L	Pruthivi
17	13R11A0585	B	Lakshmiprasanna
18	13R11A0586	M	Swetha
19	13R11A0587	M	Sameera
20	13R11A0590	M	Keerthana
21	13R11A0591	M	Bhargava
22	13R11A0593	N	Divya
23	13R11A0594	P	Saivamshi
24	13R11A0597	P	Spoorthy
25	13R11A0598	BK	Ramesh
26	13R11A0599	S	Saikiran
27	13R11A05A5	T	Madhurichary
28	13R11A05A7	Thota	Aditya Kumar
29	13R11A05B1	C	Vidyabharathi
30	13R11A05H7	Pawar	Abhishek
31	13R11A05H8	A	Lakshmi Prasanna
32	13R11A05J2	CH	Priyanka
33	13R11A05J6	D	Harathi
34	13R11A05J7	E	V.S.Sairam
35	13R11A05K4	G	Lalitha Priyanka

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36	13R11A05L2	M	Saritha
37	13R11A05L9	R	Sruthi Reddy
38	13R11A05M4	B	Shravani

  
COURSE COORDINATOR

  
HEAD OF THE DEPARTMENT  
Head  
Dept. of Computer Science & Engineering  
Geethanjali College of Engineering & Technology (Autonomous)  
Keesam (M), Medchal Dist., Telangana, 501301

  
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# Geethanjali College of Engineering and Technology

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**ACADEMIC YEAR 2016-17**

ORACLE ACADEMY JAVA PROGRAMMING ATTENDANCE

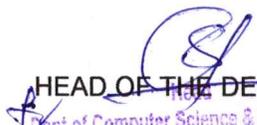
S.No	Roll Number	First Name	Last name	Date									
				07-03-16	08-03-16	09-03-16	10-03-16	11-03-16	14-03-16	15-03-16	16-03-16	17-03-16	18-03-16
1	13R11A0501	Ashapu	Bharath Kumar	P	P	P	P	A	P	P	A	P	A
2	13R11A0531	K	Nitya Purnima	P	P	P	P	P	P	P	P	P	P
3	13R11A0546	Sanjeevu	Tejaswani	P	A	P	P	P	P	P	P	P	P
4	13R11A0547	Tadiparthi	Christina	P	P	P	P	P	P	P	P	P	A
5	13R11A0555	A	Jayashree	P	A	P	P	P	P	P	P	P	P
6	13R11A0560	B	Ranjith	P	P	P	A	P	P	P	A	P	P
7	13R11A0562	B	uri	A	P	P	P	A	P	P	P	A	P
8	13R11A0564	B	Divya	P	P	A	P	P	P	P	P	P	A
9	13R11A0565	B	Tejasree	P	P	A	P	A	P	P	A	A	P
10	13R11A0566	B	Prasanna	P	A	P	A	P	P	A	P	P	P
11	13R11A0569	CH	Bhargavireddy	A	P	P	P	P	A	P	P	P	P
12	13R11A0570	CH	Jyothi	P	P	P	A	P	P	A	A	P	P
13	13R11A0573	Desham	Srikanthgoud	A	P	P	P	P	P	P	P	P	P
14	13R11A0574	D	Laxmiprasanna	P	A	A	P	A	P	A	P	P	A
15	13R11A0575	G	Srilakshmi	P	P	P	P	A	P	P	P	A	P
16	13R11A0576	Gaddam	Srikanthreddy	P	P	P	A	P	P	P	P	P	P
17	13R11A0579	J	Susmitha	A	A	A	P	P	P	A	P	P	P
18	13R11A0583	L	Pruthivi	P	A	P	P	P	A	P	P	P	P
19	13R11A0585	B	a	P	P	A	P	P	P	A	P	P	P

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20	13R11A0586	M	Swetha	P	P	P	P	A	P	P	P	P	A
21	13R11A0587	M	Sameera	P	P	A	P	P	P	P	P	P	P
22	13R11A0590	M	Keerthana	P	P	P	P	P	P	P	P	P	P
23	13R11A0591	M	Bhargava	P	A	P	A	A	P	A	P	P	P
24	13R11A0592	MNL	Kashyap	P	P	P	P	P	A	P	P	P	P
25	13R11A0593	N	Divya	P	A	P	P	P	A	P	P	P	P
26	13R11A0594	P	Saivamshi	A	P	P	P	P	P	P	A	P	P
27	13R11A0597	P	Spoorthy	P	P	P	P	P	A	P	P	P	A
28	13R11A0598	BK	Ramesh	A	P	P	P	A	P	P	P	A	P
29	13R11A0599	S	Saikiran	P	P	P	P	P	A	P	P	P	P
30	13R11A05A5	T	Madhurichary	A	A	P	P	A	P	P	P	P	P
31	13R11A05A6	T	Beulah	P	P	P	P	P	P	A	P	P	P
32	13R11A05A7	Thota	Aditya Kumar	A	P	A	P	P	A	P	P	P	P
33	13R11A05B1	C	Vidyabharathi	P	P	P	A	P	P	P	A	A	P
34	13R11A05H7	Pawar	Abhishek	A	P	P	P	P	A	P	P	P	P
35	13R11A05H8	A	Prasanna	P	A	P	A	P	P	P	P	A	P
36	13R11A05J2	CH	Priyanka	P	P	P	P	P	A	P	P	P	P
37	13R11A05J3	R	Chandrakanth	P	P	P	P	A	P	P	P	P	A
38	13R11A05J6	D	Harathi	A	P	P	P	P	A	P	P	P	P
39	13R11A05J7	E	V.S.Sairam	P	P	P	P	A	P	P	P	P	P
40	13R11A05K4	G	Lalitha Priyanka	A	P	P	A	P	P	P	P	P	P
41	13R11A05L2	M	Saritha	P	P	P	P	A	P	P	P	P	A
42	13R11A05L9	R	Sruthi Reddy	A	P	P	P	A	P	P	P	P	P
43	13R11A05M4	B	Shravani	P	A	P	P	P	P	P	P	P	P

  
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COURSE COORDINATOR 

  
**HEAD OF THE DEPARTMENT**  
 Dept. of Computer Science & Engineering  
 Geethanjali College of Engineering & Technology (Autonomous)  
 Cheeryal (V), Keesara (M), Medchal (D), Telangana. 501301

# Geethanjali College of Engineering and Technology

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**ACADEMIC YEAR 2016-17**

ORACLE ACADEMY JAVA PROGRAMMING ATTENDANCE

S.No	Roll Number	First Name	Last name	Date									
				21-03-16	22-03-16	23-03-16	24-03-16	25-03-16	28-03-16	29-03-16	30-03-16	31-03-16	01-04-16
1	13R11A0501	Ashapu	Bharath Kumar	P	P	P	A	P	P	A	P	P	P
2	13R11A0531	K	Nitya Purnima	P	P	P	P	P	P	A	P	P	P
3	13R11A0546	Sanjeevu	Tejaswani	P	P	P	P	P	P	P	P	P	P
4	13R11A0547	Tadiparthi	Christina	P	P	P	P	P	P	P	P	P	P
5	13R11A0555	A	Jayashree	P	P	P	P	P	P	P	P	A	P
6	13R11A0560	B	Ranjith	P	A	P	P	P	P	P	P	P	P
7	13R11A0562	B	uri	A	P	P	P	A	P	P	P	P	P
8	13R11A0564	B	Divya	P	P	A	P	P	P	P	A	P	P
9	13R11A0565	B	Tejasree	P	P	P	P	P	P	P	P	A	P
10	13R11A0566	B	Prasanna	A	P	P	P	P	P	P	P	P	A
11	13R11A0569	CH	Bhargavireddy	P	P	P	A	P	P	P	A	P	P
12	13R11A0570	CH	Jyothi	P	P	P	P	A	P	A	P	A	P
13	13R11A0573	Desham	Srikanthgoud	P	P	A	P	A	P	P	P	P	A
14	13R11A0574	D	Laxmiprasanna	P	P	P	P	A	P	A	P	P	P
15	13R11A0575	G	Srilakshmi	A	P	P	P	P	A	P	P	P	P
16	13R11A0576	Gaddam	Srikanthreddy	P	A	P	P	P	P	A	P	P	P
17	13R11A0579	J	Susmitha	A	P	P	P	P	P	P	A	P	P
18	13R11A0583	L	Pruthivi	P	A	P	P	P	A	P	A	P	P
19	13R11A0585	B	a	P	P	A	P	P	P	P	P	A	P

20	13R11A0586	M	Swetha	P	P	A	P	P	P	P	P	A	P
21	13R11A0587	M	Sameera	P	P	A	P	P	P	A	P	P	P
22	13R11A0590	M	Keerthana	P	P	A	P	P	P	P	P	A	P
23	13R11A0591	M	Bhargava	P	P	P	P	P	P	P	P	A	P
24	13R11A0592	MNL	Kashyap	P	P	P	P	P	P	P	P	P	P
25	13R11A0593	N	Divya	P	P	P	A	P	A	P	P	P	P
26	13R11A0594	P	Saivamshi	P	P	P	A	P	P	P	A	P	P
27	13R11A0597	P	Spoorthy	P	P	P	A	P	P	A	P	P	P
28	13R11A0598	BK	Ramesh	P	P	A	P	P	P	P	P	P	A
29	13R11A0599	S	Saikiran	P	P	P	A	P	P	P	A	P	P
30	13R11A05A5	T	Madhurichary	P	A	P	A	P	P	P	P	P	P
31	13R11A05A6	T	Beulah	P	P	P	P	A	P	A	P	P	P
32	13R11A05A7	Thota	Aditya Kumar	P	A	P	P	P	A	P	P	P	P
33	13R11A05B1	C	Vidyabharathi	P	P	P	P	P	P	P	A	A	P
34	13R11A05H7	Pawar	Abhishek	P	A	P	P	P	A	P	P	P	A
35	13R11A05H8	A	Prasanna	P	P	P	P	A	P	A	P	A	P
36	13R11A05J2	CH	Priyanka	P	P	P	P	P	A	P	P	P	A
37	13R11A05J3	R	Chandrakanth	A	P	A	P	P	P	P	P	P	A
38	13R11A05J6	D	Harathi	P	P	P	A	P	P	P	P	P	A
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41	13R11A05L2	M	Saritha	P	A	P	P	A	P	P	P	P	P
42	13R11A05L9	R	Sruthi Reddy	P	P	A	P	A	P	A	P	A	P
43	4	B	Shravani	A	P	P	P	A	A	P	P	P	P

  
COURSE COORDINATOR

  
PRINCIPAL  
Geethanjali College of Engineering and Technology  
(Autonomous)  
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HEAD OF THE DEPARTMENT  
Dept. of Computer Science & Engineering  
Geethanjali College of Engineering & Technology (Autonomous)  
Cheeray (V), Kesera (M), Medchal (D), Telangana. 501301

**ORACLE** ACADEMY



# AWARD *of* ACHIEVEMENT

PRESENTED TO

**Sanjeevu Tejaswani**

FOR SUCCESSFULLY COMPLETING THE ORACLE ACADEMY

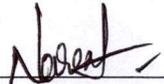
**Java Programming**

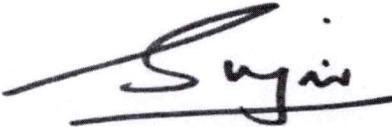
FINAL EXAM

May 08, 2017

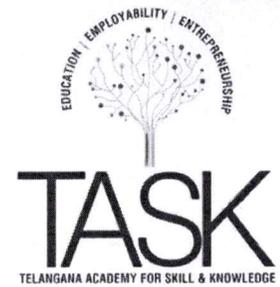
PRINCIPAL

Geethanjali College of Engineering and Technology  
(Autonomous)  
Cheruvu (V), Keerasani (M), Medchal Dist. (T.S.) - 501 301

  
Oracle Academy Instructor



Chief Executive Officer  
Telangana Academy for Skill and Knowledge  
ITE & C Department, Govt of Telangana



# AWARD *of* ACHIEVEMENT

PRESENTED TO

Tadiparthi Christina

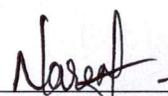
FOR SUCCESSFULLY COMPLETING THE ORACLE ACADEMY

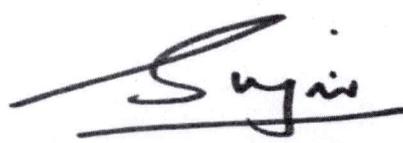
Java Programming

FINAL EXAM

May 08, 2017

PRINCIPAL  
Geethanjali College of Engineering and Technology  
(Autonomous)  
Cheruvu (V), Keeravani (M), Medchal Dist. (T.S.) - 501 301

  
Oracle Academy Instructor

  
Chief Executive Officer  
Telangana Academy for Skill and Knowledge  
ITE & C Department, Govt of Telangana

**ORACLE** ACADEMY



# AWARD *of* ACHIEVEMENT

PRESENTED TO

**A Jayashree**

FOR SUCCESSFULLY COMPLETING THE ORACLE ACADEMY

**Java Programming**

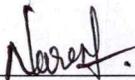
FINAL EXAM

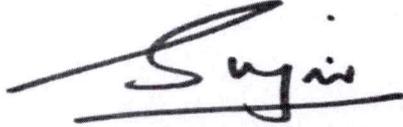
May 08, 2017

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(Autonomous)

Chesani (V), Keeravani (M), Medchal Dist. (T.S.) - 501 301

  
Oracle Academy Instructor



**Chief Executive Officer**  
Telangana Academy for Skill and Knowledge  
ITE & C Department, Govt of Telangana

**ORACLE** ACADEMY



# AWARD *of* ACHIEVEMENT

PRESENTED TO

**B Ranjith**

FOR SUCCESSFULLY COMPLETING THE ORACLE ACADEMY

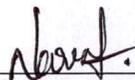
**Java Programming**

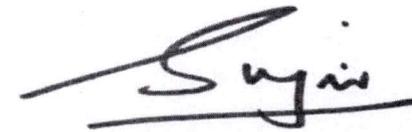
FINAL EXAM

May 08, 2017

PRINCIPAL

Geethanjali College of Engineering and Technology  
(Autonomous)  
Chowdary (V), Keesara (M), Medchal Dist. (T.S.) - 501 301

  
Oracle Academy Instructor



Chief Executive Officer  
Telangana Academy for Skill and Knowledge  
ITE & C Department, Govt of Telangana

**ORACLE** ACADEMY



# AWARD *of* ACHIEVEMENT

PRESENTED TO

**B Kavyasreemadhuri**

FOR SUCCESSFULLY COMPLETING THE ORACLE ACADEMY

**Java Programming**

FINAL EXAM

May 08, 2017

PRINCIPAL

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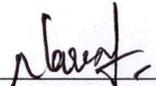
**Java Programming**

FINAL EXAM

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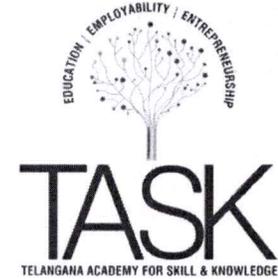
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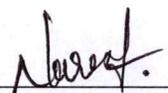
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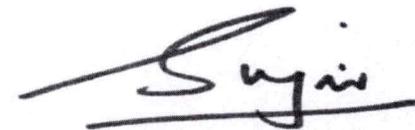
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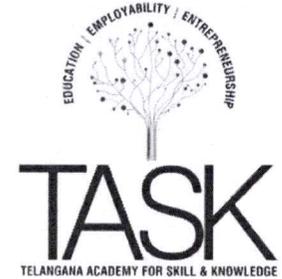
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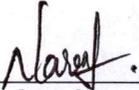
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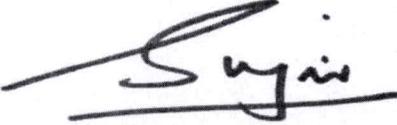
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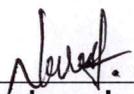
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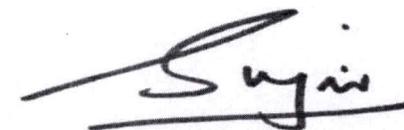
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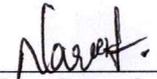
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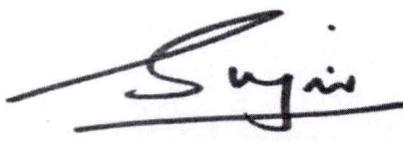
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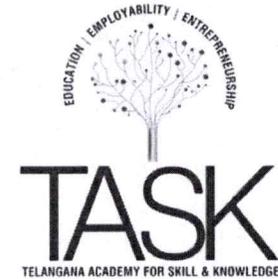
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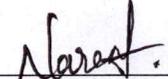
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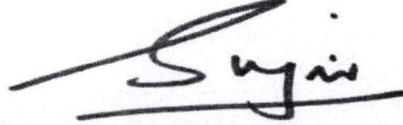
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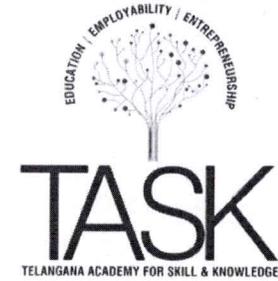
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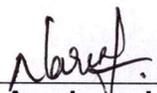
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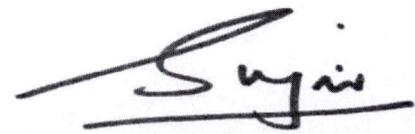
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FINAL EXAM

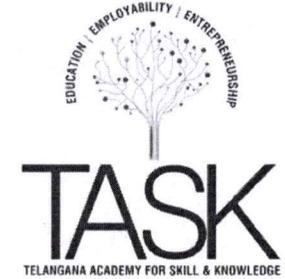
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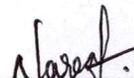
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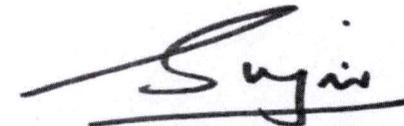
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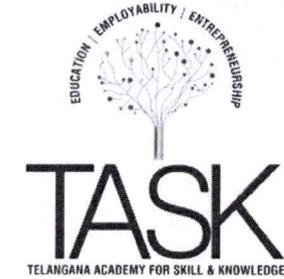
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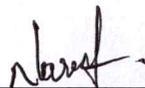
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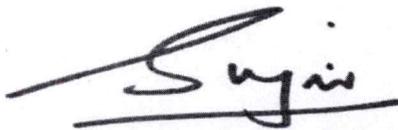
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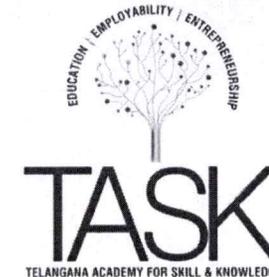
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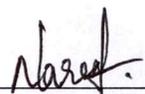
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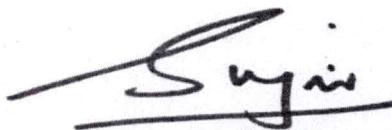
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*(Signature)*

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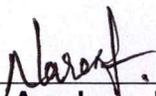
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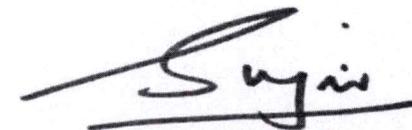
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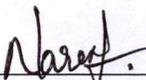
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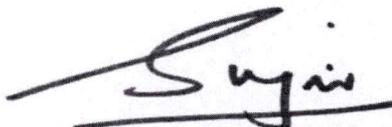
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**N Divya**

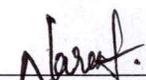
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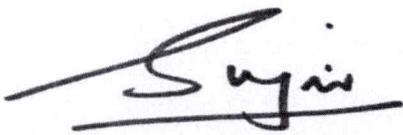
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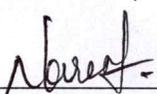
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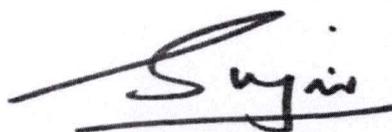
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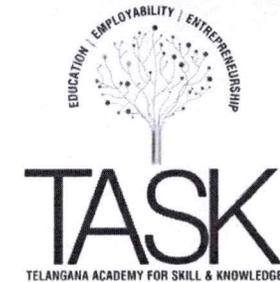
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**P Spoorthy**

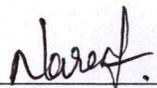
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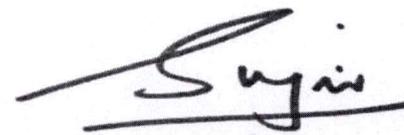
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**B K Ramesh**

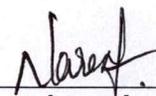
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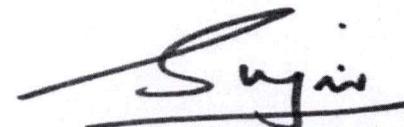
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**S Saikiran**

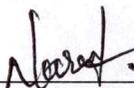
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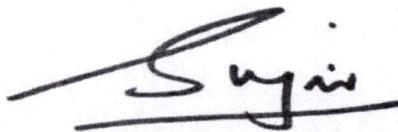
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**T Madhurichary**

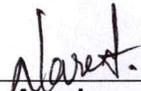
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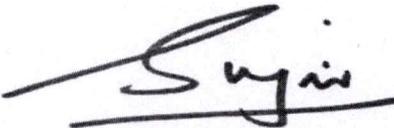
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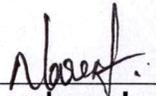
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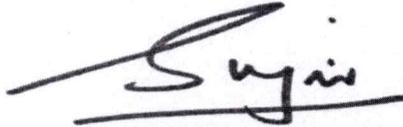
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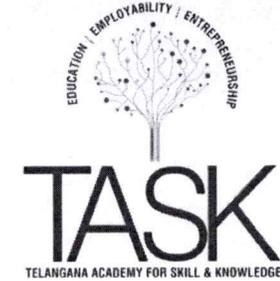
  
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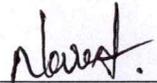
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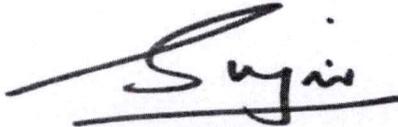
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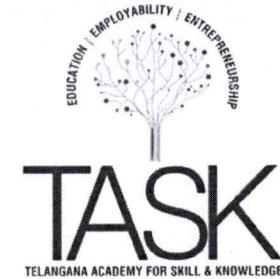
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**Pawar Abhishek**

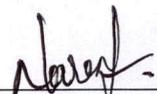
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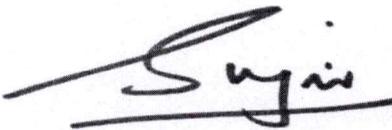
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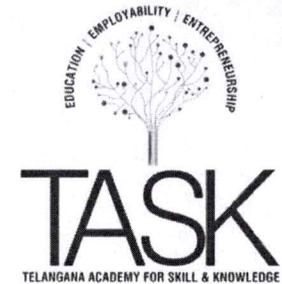
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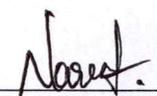
**Java Programming**

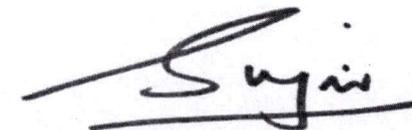
FINAL EXAM

May 08, 2017

  
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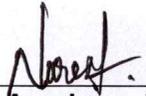
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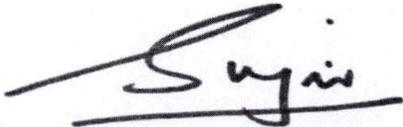
**Java Programming**

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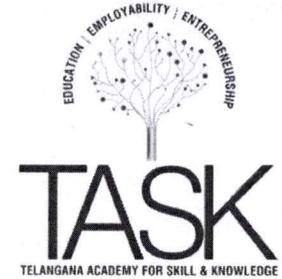
  
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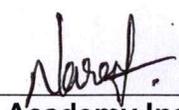
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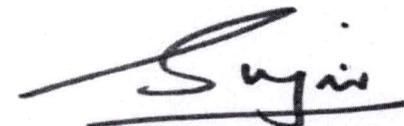
**Java Programming**

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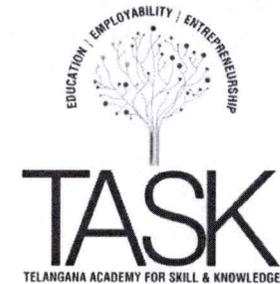
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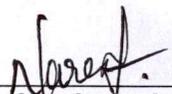
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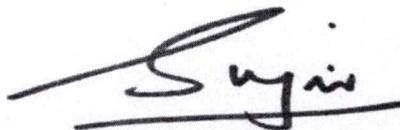
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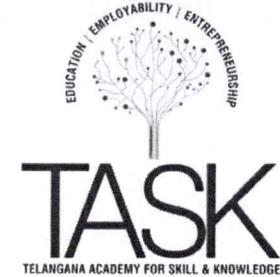
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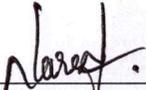
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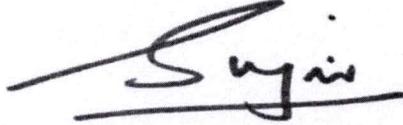
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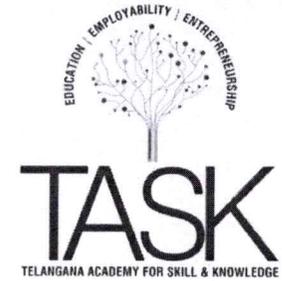
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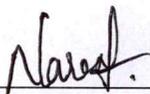
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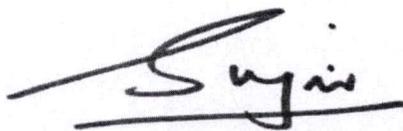
**Java Programming**

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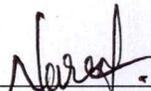
**Java Programming**

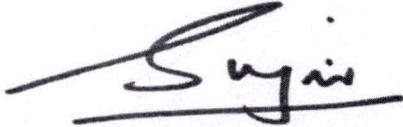
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# GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Cheeryal (V), Hyderabad-501301

## DEPARTMENT OF MECHANICAL ENGINEERING

### PTC CREO Course Content/Syllabus

- Introduction to Creo Parametric 4.0
- Advanced Modeling using Creo Parametric 4.0
- Advanced Assembly Design using Creo Parametric 4.0
- Introduction to Creo Simulate 4.0
- Detailing using Creo Parametric 4.0
- Surfacing using Creo Parametric 4.0
- Sheet metal using Creo Parametric 4.0
- Milling using Creo Parametric 4.0
- Introduction to Model Based Definition with Creo Parametric 4.0
- Introduction to Creo Direct 4.0
- Introduction to Creo Layout 4.0
- Introduction to Creo Options Modeler 4.0
- Introduction to Schematics 4.0
- Cabling using Creo Parametric 4.0
- Mechanism Design using Creo Parametric 4.0
- Mechanism Simulation using Creo Parametric 4.0



Dr. S. Shyam Kumar

Head  
Dept. of Mechanical Engineering  
Geethanjali College of Engineering & Technology  
Cheeryal (V), Keesara (M) Medchal (Dist.)



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# GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Cheeryal (V), Hyderabad-501301

## DEPARTMENT OF MECHANICAL ENGINEERING

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### PTC CREO Course out comes

The student will be able to

1. Use motion and interference checking to ensure that parts will not interfere throughout their complete range of motion.
2. Use CAD software collaboratively when designing on a team.
3. Make appropriate selection of CAD functionality to use as tools in the design process.
4. Communicate effectively the geometry and intent of design features.



Dr. S. Shyam Kumar

Head  
Dept. of Mechanical Engineering  
Geethanjali College of Engineering & Technology  
Cheeryal (V), Keesara (M) Medchal (Dist.)



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(UGC Autonomous Institution)

AICTE Approved, Permanently Affiliated to JNTUH, Accredited NAAC with 'A' Grade and NBA  
CHEERYAL (V), KEESARA (M), R.R. DIST. 501 301

## DEPARTMENT OF MECHANICAL ENGINEERING

Date: 04/01/2017

### CIRCULAR

This is to inform all the III - B. Tech II Semester (A&B) Mechanical engineering students that, department of mechanical engineering is going to conduct CREO training program from 21/01/2017 (every Saturday), and duration of program is 5 weeks (40 hours). So, all the students of III B. Tech of Mechanical Engineering are requested to join the program and make use of this for adding feathers in your resume. So, detailed schedule is given below.

S. No	Week	Date	Time	Topics
1	Week-1	21.01.2017	9:30 am to 1:30 pm Lunch break 2:00 pm to 5:30 pm	Introduction to CREO, Part Drawings
2	Week-2	28.01.2017		Part Drawings
3	Week-3	04.02.2017		Part Drawings
4	Week-4	11.02.2017		Assembly Drawings
5	Week-5	18.02.2017		Assembly Drawings, Project

Coordinators

Mr. K Vijay

HoD - ME

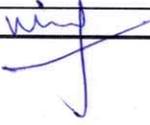
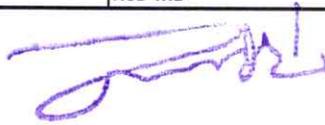
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Head  
Dept. of Mechanical Engineering  
Geethanjali College of Engineering & Technology  
Cheeryal (V), Keesara (M) Medchal (Dist.)

GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY				
AUTONOMOUS				
DEPARTMENT OF MECHANICAL ENGINEERING				
A.Y:2016-17				III B.Tech, SEM:II
FOR CREO TRAINING			Email ID	
S.No	HALL TICKET NUMBER	COMPLETE STUDENT NAME AS PER THE RECORDS	PHONE NUMBER	EMAIL ID
1	14R11A0307	ARCOT BALRAJ TANMAIYEE	9963683993	arcotk25@gmail.com
2	14R11A0318	JAKKAM KRANTHI KIRAN	9848376928	kranthikiran naidu.j@gmail.com
3	14R11A0322	KARNA KOTI REDDY	9493880449	karna.raghavareddy@gmail.com
4	14R11A0324	KATTA SHIVA PRASAD REDDY	9492435948	kshiva293@gmail.com
5	14R11A0333	NUKALA SATYA GUHA	9440024644	nukala.chainlu@gmail.com
6	14R11A0346	TANNERU SAIKUMAR	9440024644	saikumar.tanneru@gmail.co
7	14R11A0347	TANGALLAPALLY VENU	7075703970	NA
8	14R11A0348	THANGALLAPALLY VENU	9573724031	krrishkittu143@gmail.com
9	14R11A0349	THANGALLAPALLY VENU	9177620093	kuncham nikhil1@gmail.com
10	14R11A0349	KUNCHAM NIKHIL SAI	9666770079	jagadishkunchangi1987@gma
11	15R15A0301	KUNCHANGI JAGADISH	8099117456	NA
12	15R15A0302	GOSANGI TARUN	9703373300	ratan.56@gmail.com
13	14R11A0353	ARDHENDU CHAKRABORTY	9010742669	venuioab@rediffmail.com
14	14R11A0358	C GAUTHAM	8297825259	gannojusrikanthchary@gmail.com
15	14R11A0364	G SRIKANTH CHARY	9849454877	sai.gnaneshwar9@gmail.com
16	14R11A0377	NAYANI SAI GNANESHWAR	9849551156	santoshkirans@gmail.com
17	14R11A0383	S JWALA KIRAN	9394883848	gurureddysirigi07@gmail.com
18	14R11A0384	S UMAMAHESHWAR REDDY	9440967127	anoopchandran7991@gmail.com
19	14R11A0389	H ANOOP CHANDRAN	9989677620	vishal-mai@yahoo.com
20	14R11A0392	VARAKALA VISHAL MAI	7842211134	annaramvinaykumar058@gmail.com
21	15R15A0312	ANNARAM VINAY KUMAR	9704862678	
Sign of coordinator				HoD-ME

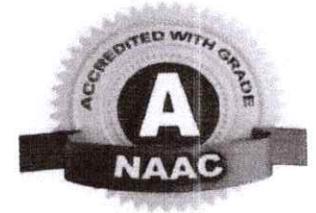
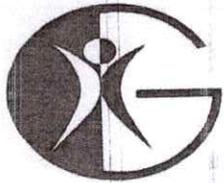

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## Department of Mechanical Engineering

### Certificate of Participation

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**Mr.K. Vijay**  
Trainer

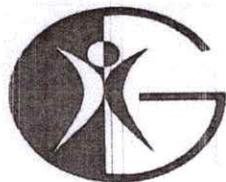
  
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HOD

  
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## Department of Mechanical Engineering

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**Mr.K. Vijay**  
Trainer

  
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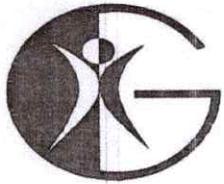
  
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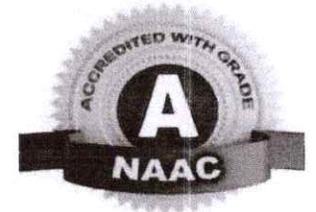
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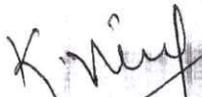


## Department of Mechanical Engineering



### Certificate of Participation

**This is to certify that KUNCHANGI JAGADISH of Class III B.TECH has participated in the 5 weeks Training Program on "PTC CREO SOFTWARE" organized by the Department of Mechanical Engineering during 21-01-2017 to 18-02-2017.**

  
**Mr.K. Vijay**  
Trainer

  
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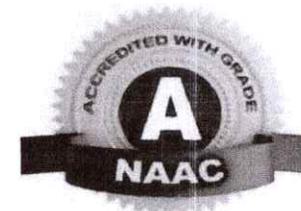
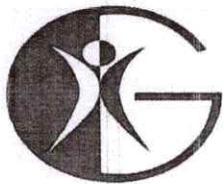
  
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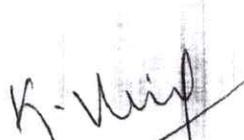
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Trainer

  
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***This is to certify that H ANOOP CHANDRAN of Class III B.TECH has participated in the 5 weeks Training Program on "PTC CREO SOFTWARE" organized by the Department of Mechanical Engineering during 21-01-2017 to 18-02-2017.***

  
**Mr.K. Vijay**  
Trainer

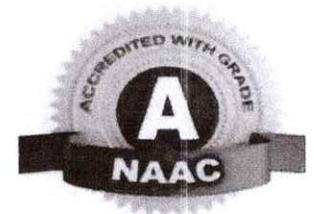
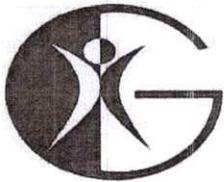
  
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**Mr.K. Vijay**  
Trainer

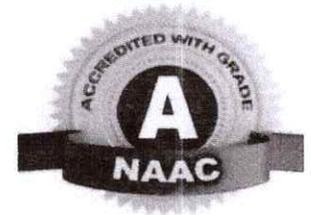
  
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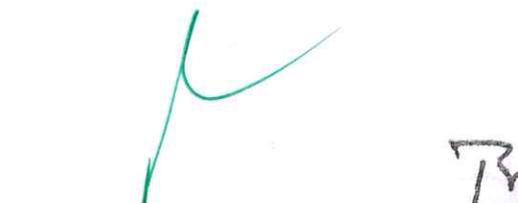


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**Mr.K. Vijay**  
Trainer

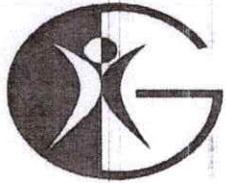
  
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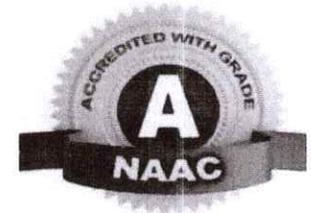
  
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## Department of Mechanical Engineering



### Certificate of Participation

**This is to certify that NAYANI SAI GNANESHWAR of Class III B.TECH has participated in the 5 weeks Training Program on "PTC CREO SOFTWARE" organized by the Department of Mechanical Engineering during 21-01-2017 to 18-02-2017.**

  
**Mr.K. Vijay**  
Trainer

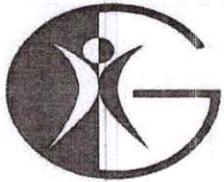
  
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Cheeryal (V), Keesara (M), Medchal Dist. (T.S.) - 501301

  
**Dr.T. Siva Prasad**  
HOD

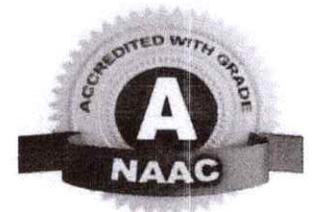
  
**Dr.S. Udaya Kumar**  
Principal

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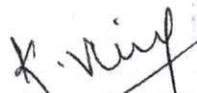


## Department of Mechanical Engineering



### Certificate of Participation

**This is to certify that G SHRIKANTH CHARY of Class III B.TECH has participated in the 5 weeks Training Program on "PTC CREO SOFTWARE" organized by the Department of Mechanical Engineering during 21-01-2017 to 18-02-2017.**

  
**Mr.K. Vijay**  
Trainer

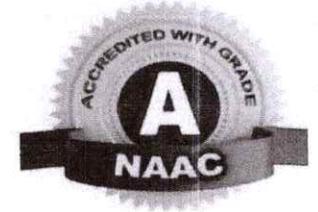
  
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**Dr.S. Udaya Kumar**  
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## Department of Mechanical Engineering

### Certificate of Participation

**This is to certify that C GAUTHAM of Class III B.TECH has participated in the 5 weeks Training Program on "PTC CREO SOFTWARE" organized by the Department of Mechanical Engineering during 21-01-2017 to 18-02-2017.**

  
**Mr.K. Vijay**  
Trainer

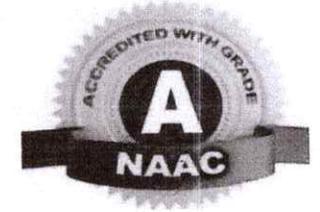
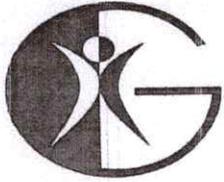
  
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**Dr.T. Siva Prasad**  
HOD

  
**Dr.S. Udaya Kumar**  
Principal

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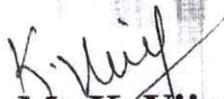
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## Department of Mechanical Engineering

### Certificate of Participation

**This is to certify that ARDHENDU CHAKRABORTY of Class III B.TECH has participated in the 5 weeks Training Program on "PTC CREO SOFTWARE" organized by the Department of Mechanical Engineering during 21-01-2017 to 18-02-2017.**

  
**Mr.K. Vijay**  
Trainer

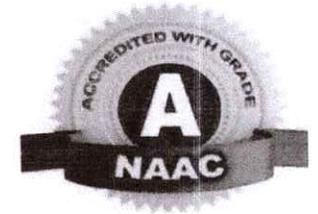
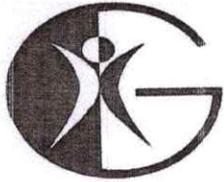
  
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## Department of Mechanical Engineering

### Certificate of Participation

**This is to certify that KUNCHAM NIKHIL SAI of Class III B.TECH has participated in the 5 weeks Training Program on "PTC CREO SOFTWARE" organized by the Department of Mechanical Engineering during 21-01-2017 to 18-02-2017.**

  
**Mr.K. Vijay**  
Trainer

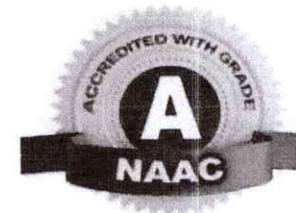
  
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## Department of Mechanical Engineering

### Certificate of Participation

**This is to certify that VEMULA KRISHNA of Class III B.TECH has participated in the 5 weeks Training Program on "PTC CREO SOFTWARE" organized by the Department of Mechanical Engineering during 21-01-2017 to 18-02-2017.**

  
**Mr. K. Vijay**  
Trainer

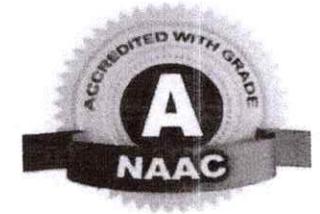
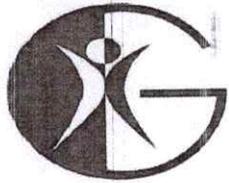
  
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**Dr. T. Siva Prasad**  
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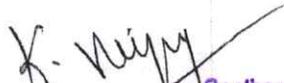
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## Department of Mechanical Engineering

### Certificate of Participation

**This is to certify that THANGALLAPALLY VENU of Class III B.TECH has participated in the 5 weeks Training Program on "PTC CREO SOFTWARE" organized by the Department of Mechanical Engineering during 21-01-2017 to 18-02-2017.**

  
**Mr. K. Vijay**  
Trainer

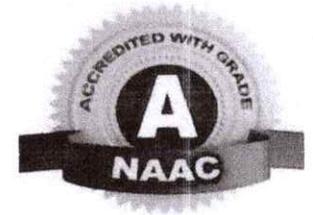
  
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**Dr. T. Siva Prasad**  
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**Dr. S. Udaya Kumar**  
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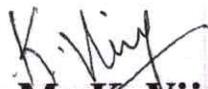
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## Department of Mechanical Engineering

### Certificate of Participation

**This is to certify that TANNERU SAI KUMAR of Class III B.TECH has participated in the 5 weeks Training Program on "PTC CREO SOFTWARE" organized by the Department of Mechanical Engineering during 21-01-2017 to 18-02-2017.**

  
**Mr. K. Vijay**  
Trainer

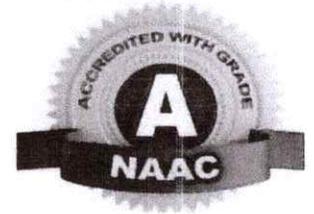
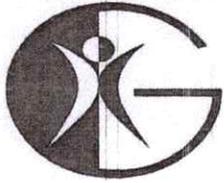
  
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**Dr. S. Udaya Kumar**  
Principal

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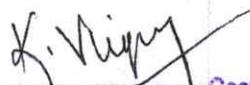
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## Department of Mechanical Engineering

### Certificate of Participation

**This is to certify that NUKALA SATYA GUHA of Class III B.TECH has participated in the 5 weeks Training Program on "PTC CREO SOFTWARE" organized by the Department of Mechanical Engineering during 21-01-2017 to 18-02-2017.**

  
**Mr. K. Vijay**  
Trainer

  
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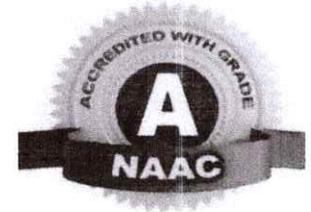
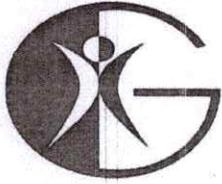
  
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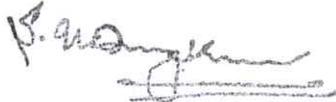
### Certificate of Participation

**This is to certify that KATTA SHIVA PRASAD REDDY of Class III B.TECH has participated in the 5 weeks Training Program on "PTC CREO SOFTWARE" organized by the Department of Mechanical Engineering during 21-01-2017 to 18-02-2017.**

  
**Mr. K. Vijay**  
Trainer

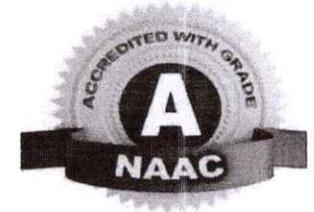
  
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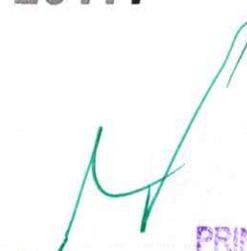


## Department of Mechanical Engineering

### Certificate of Participation

**This is to certify that KARNA KOTI REDDY of Class III B.TECH has participated in the 5 weeks Training Program on "PTC CREO SOFTWARE" organized by the Department of Mechanical Engineering during 21-01-2017 to 18-02-2017.**

  
**Mr. K. Vijay**  
Trainer

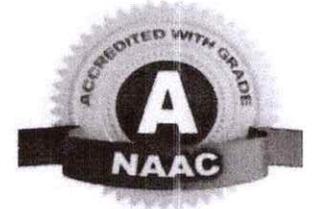
  
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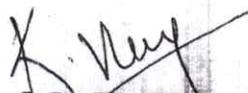
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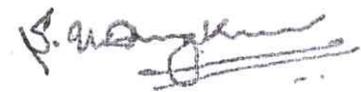
## Department of Mechanical Engineering

### Certificate of Participation

**This is to certify that JAKKAM KRANTHI KIRAN of Class III B.TECH has participated in the 5 weeks Training Program on "PTC CREO SOFTWARE" organized by the Department of Mechanical Engineering during 21-01-2017 to 18-02-2017.**

  
**Mr. K. Vijay**  
Trainer

  
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## Department of Mechanical Engineering



### Certificate of Participation

**This is to certify that ARCOT BALRAJ TANMAYIEE of Class III B.TECH has participated in the 5 weeks Training Program on "PTC CREO SOFTWARE" organized by the Department of Mechanical Engineering during 21-01-2017 to 18-02-2017.**

  
**Mr.K. Vijay**  
Trainer

  
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**Dr.S. Udaya Kumar**  
Principal

**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**

**AUTONOMOUS**

**DEPARTMENT OF MECHANICAL ENGINEERING**

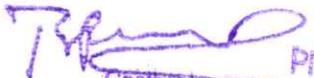
A.Y:2016-17

III B.Tech

SEM:II

**FEED BACK ON " CREO TRAINING "**

S.No	HALL TICKET NUMBER	COMPLETE STUDENT NAME AS PER THE RECORDS	PHONE NUMBER	EMAIL ID	The content was as described in materials	The Training was applicable to my Core Stream	i will recommend this training to other conservators	The program was well paced within the allotted time	The instructor was a good communicator	The instructor was knowledgeable on the topic	I would be interested in attending a follow-up, more advanced trainings on this course	In your opinion, this training was	Please rate the program in overall
1	14R11A0307	ARCOT BALRAJ TANMAIYEE	9963683993	arcotk25@gmail.com	Agree	Strongly agree	Yes	Agree	Agree	Agree	Maybe	Intermediate	5
2	14R11A0318	JAKKAM KRANTHI KIRAN	9848376928	kranthikiran.naidu.j@gmail.com	Agree	Agree	Yes	Agree	Agree	Agree	Maybe	Advanced	5
3	14R11A0322	KARNA KOTI REDDY	9493880449	karna.raghavareddy@gmail.com	Agree	Agree	Yes	Agree	Neutral	Agree	Maybe	Intermediate	4
4	14R11A0324	KATTA SHIVA PRASAD REDDY	9492435948	kshiva293@gmail.com	Neutral	Neutral	Maybe	Neutral	Neutral	Agree	Yes	Intermediate	3
5	14R11A0333	NUKALA SATYA GUHA	9440024644	nukala.chainlu@gmail.com	Agree	Strongly agree	Yes	Agree	Strongly agree	Strongly agree	Yes	Intermediate	4
6	14R11A0346	TANNERU SAIKUMAR	7075703970	saikumar.tanneru@gmail.co	Strongly agree	Strongly agree	Yes	Agree	Agree	Agree	Yes	Intermediate	4
7	14R11A0347	THANGALLAPALLY VENU	9573724031	NA	Agree	Agree	Yes	Agree	Agree	Agree	Yes	Intermediate	4
8	14R11A0348	VEMULA KRISHNA	9177620093	krrishkittu143@gmail.com	Agree	Agree	Yes	Agree	Neutral	Agree	Maybe	Intermediate	5
9	14R11A0349	KUNCHAM NIKHIL SAI	9666770079	kuncham.nikhil1@gmail.com	Strongly agree	Strongly agree	Yes	Agree	Agree	Agree	Yes	Intermediate	5
10	15R15A0301	KUNCHANGI JAGADISH	8099117456	jagadishkunchangi1987@gma	Agree	Strongly agree	Yes	Agree	Agree	Strongly agree	Yes	Intermediate	4
11	15R15A0302	GOSANGI TARUN	9703373300	NA	Neutral	Strongly agree	Yes	Agree	Agree	Strongly agree	Yes	Intermediate	4
12	14R11A0353	ARDHENDU CHAKRABORTY	9010742669	ratan.56@gmail.com	Strongly agree	Strongly agree	Maybe	Strongly agree	Strongly agree	Strongly agree	Yes	Advanced	5
13	14R11A0358	C GAUTHAM	8297825259	venuio@rediffmail.com	Strongly agree	Strongly agree	Yes	Strongly agree	Strongly agree	Strongly agree	Yes	Advanced	5
14	14R11A0364	G SRIKANTH CHARY	9849454877	gannojusrikanthchary@gmail.com	Agree	Agree	Yes	Agree	Agree	Agree	Yes	Intermediate	5
15	14R11A0377	NAYANI SAI GNANESHWAR	9849551156	sai.gnaneshwar9@gmail.com	Agree	Agree	Yes	Agree	Agree	Agree	Yes	Intermediate	5
16	14R11A0383	S JWALA KIRAN	9394883848	santoshkirans@gmail.com	Neutral	Strongly agree	Maybe	Disagree	Disagree	Neutral	Maybe	Intermediate	3
17	14R11A0384	S UMAMAHESHWAR REDDY	9440967127	gurureddysirigi07@gmail.com	Agree	Agree	Maybe	Agree	Neutral	Agree	Maybe	Intermediate	4
18	14R11A0389	H ANOOP CHANDRAN	9989677620	anoopchandran7991@gmail.com	Agree	Agree	Yes	Agree	Agree	Agree	Yes	Advanced	5
19	14R11A0392	VARAKALA VISHAL MAI	7842211134	vishal-mai@yahoo.com	Agree	Agree	Yes	Agree	Agree	Strongly agree	Yes	Intermediate	4
20	15R15A0312	ANNARAM VINAY KUMAR	9704862678	annaramvinaykumar058@gmail.com	Strongly agree	Strongly agree	Yes	Strongly agree	Strongly agree	Strongly agree	Yes	Introductory	5
		<b>Sign of coordinator</b>											
										<b>HoD-ME</b>			

  
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 Head  
 Dept. of Mechanical Engineering (Autonomous)  
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Cheeryal (V), Hyderabad-501301  
DEPARTMENT OF MECHANICAL ENGINEERING**

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**NX-CAD Course Content/Syllabus**

The Course provides in depth coverage of the following important modules.

**1. Part modeling**

- Introduction to NX CAD
- Direct Sketch
- Feature Modeling
- Synchronous Modeling

**2. Assembly**

- Component Control

**3. Drafting**

- Viewing the object
- Dimensioning
- Apply Annotation

**4. Sheet metal**

- Basic Sheet metal operations

  
Dr. S. Shyam Kumar

Head  
Dept. of Mechanical Engineering  
Geethanjali College of Engineering & Technology  
Cheeryal (V), Keasara (M) Medchal (Dist.)

  
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DEPARTMENT OF MECHANICAL ENGINEERING**

---

**NX-CAD Course Outcomes**

The student will be able to

1. Use basic and advanced features of current CAD software.
2. Understand how CAD technology can be leveraged in the design process
3. Design a part or assembly of parts using Computer-Aided Design software.
4. Use parametric modeling techniques to reflect engineering requirements.
5. Apply top-down design principles to model a design.

*[Faint background text: GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS), Cheeryal (V), Hyderabad-501301, DEPARTMENT OF MECHANICAL ENGINEERING]*

*[Handwritten signature: Dr. S. Shyam]*

*[Stamp: Dept of Mechanical Engineering, Geethanjali College of Engineering & Technology]*

*[Handwritten signature]*

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(UGC Autonomous Institution)

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## DEPARTMENT OF MECHANICAL ENGINEERING

Date: 14/07/2016

### CIRCULAR

This is to inform all the IV - B. Tech I Semester (A&B) Mechanical engineering students that, department of mechanical engineering is going to conduct NX-CAD training program from 06/08/2016 (every Saturday), and duration of program is 5 weeks (40 hours). So, all the students of IV B. Tech of Mechanical Engineering are requested to join the program and make use of this for adding feathers in your resume. So, detailed schedule is given below.

S. No	Week	Date	Time	Topics
1	Week-1	06.08.2016	9:30 am to 1:30 pm Lunch break 2:00 pm to 5:30 pm	Introduction to NX-CAD, Part Drawings
2	Week-2	13.08.2016		Part Drawings
3	Week-3	20.08.2016		Part Drawings, Sheet Metal Drawings
4	Week-4	27.08.2016		Assembly Drawings
5	Week-5	03.09.2016		Assembly Drawings, Project

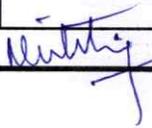
#### Coordinators

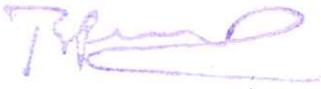
Mr. J. Nithin Kumar

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HoD ME

Head  
Dept. of Mechanical Engineering  
Geethanjali College of Engineering & Technology  
Cheeryal (V), Keesara (M) Medchal (Dist.)

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DEPARTMENT OF MECHANICAL ENGINEERING			
A.Y: 2016-17			SEM: I
STUDENT LIST FOR NX-CAD TRAINING			
S.No	HALL TICKET	COMPLETE STUDENT NAME AS PER THE RECORDS	PHONE NUMBER
1	13R11A0304	ARAVALLI MOULIKA	9989133438
2	13R11A0310	D EMMANUEL RAJU	7702904509
3	13R11A0316	DEVARAJU MAHADEV BHATT	9989647848
4	13R11A0325	KONALA SATYANARAYANA	9492528797
5	13R11A0342	RUTHWIK EDARA	8374322888
6	13R11A0347	SREERAM SAI	9912844910
7	13R11A0351	THUGGILI SINDHURANJALI	7207698182
8	13R11A0328	M LAVANYA	9848045183
9	13R11A0313	DASARI SAI PAVAN	9390096370
10	13R11A0301	A BHAVYA VANGMAYI	9492956104
11	13R11A0361	A RAHUL	9703596019
12	13R11A0363	ANKARLA BHARATH	9848774090
13	13R11A0367	BEERA KISHORE	9908208983
14	13R11A0372	CHERUKURI SAI SUDEEP	9347578926
15	13R11A0376	DOODALA SAI KIRAN	9849627692
16	13R11A0383	KHANDAVILLI ANIRUDH	9948704382
17	13R11A0390	PEDDOLLA PRASHANTH	9490929035
18	13R11A0394	P KARTHIK VARMA	9494243845
19	13R11A03A5	VELDANDA PUSHYA MITHRA	9059935563
20	14R15A0301	G KARTHIK KUMAR	9010200125
Sign of coordinator 			HoD-ME

  
 Head  
 Dept. of Mechanical Engineering  
 Geethanjali College of Engineering & Technology  
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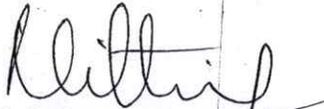
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### Certificate of Participation

**This is to certify that G KARTHIK KUMAR of Class IV B.TECH has participated in the 5 weeks Training Program on "NX-CAD SOFTWARE" organized by the Department of Mechanical Engineering during 06-08-2016 to 03-09-2016.**

  
**Mr. J. Nithin Kumar**  
Trainer

  
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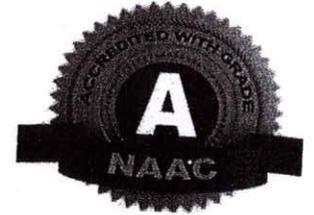
  
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### Certificate of Participation

**This is to certify that P KARTHIK VARMA of Class IV B.TECH has participated in the 5 weeks Training Program on "NX-CAD SOFTWARE" organized by the Department of Mechanical Engineering during 06-08-2016 to 03-09-2016.**

  
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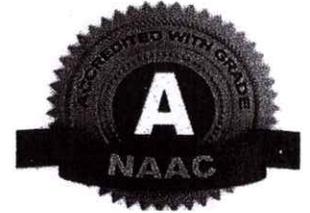
  
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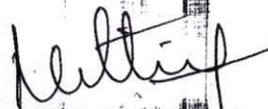


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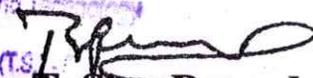


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**This is to certify that VELDANDA PUSHYA MITHRA of Class IV B.TECH has participated in the 5 weeks Training Program on "NX-CAD SOFTWARE" organized by the Department of Mechanical Engineering during 06-08-2016 to 03-09-2016.**

  
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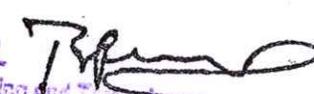


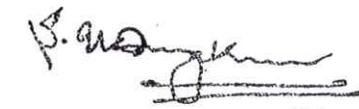
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**This is to certify that A BHAVYA VANGMAYI of Class IV B.TECH has participated in the 5 weeks Training Program on "NX-CAD SOFTWARE" organized by the Department of Mechanical Engineering during 06-08-2016 to 03-09-2016.**

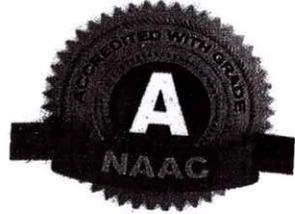
  
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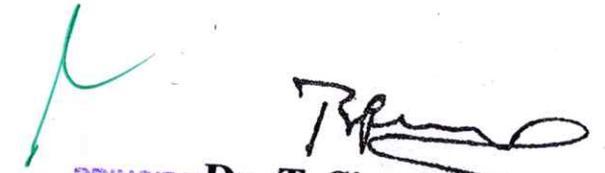


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**This is to certify that M LAVANYA of Class IV B.TECH has participated in the 5 weeks Training Program on "NX-CAD SOFTWARE" organized by the Department of Mechanical Engineering during 06-08-2016 to 03-09-2016.**

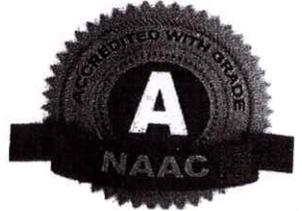
  
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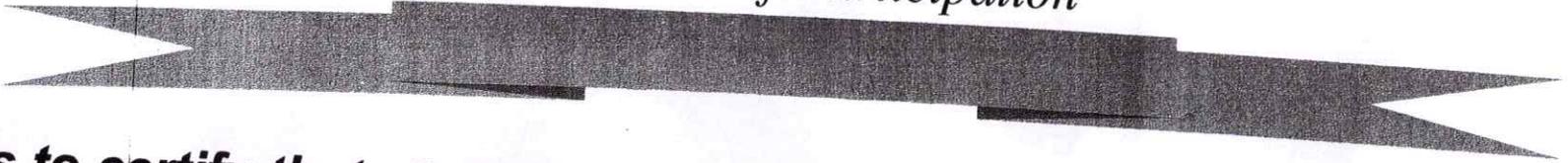
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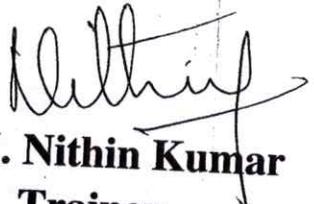


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**This is to certify that SREERAM SAI of Class IV B.TECH has participated in the 5 weeks Training Program on "NX-CAD SOFTWARE" organized by the Department of Mechanical Engineering during 06-08-2016 to 03-09-2016.**

  
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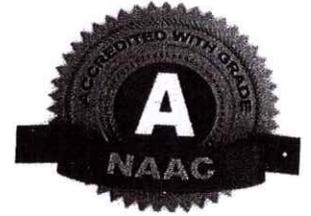
  
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This is to certify that **THUGGILI SINDHURANJALI** of **Class IV B.TECH** has participated in the 5 weeks Training Program on "NX-CAD SOFTWARE" organized by the Department of Mechanical Engineering during 06-08-2016 to 03-09-2016.

  
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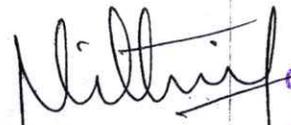


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**This is to certify that A RAHUL of Class IV B.TECH has participated in the 5 weeks Training Program on "NX-CAD SOFTWARE" organized by the Department of Mechanical Engineering during 06-08-2016 to 03-09-2016.**

  
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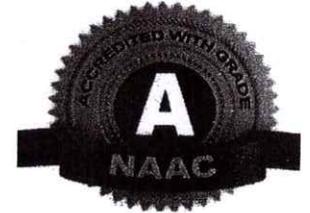
  
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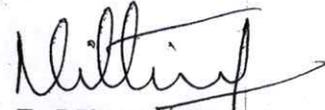


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### Certificate of Participation

**This is to certify that PEDDOLLA PRASHANTH of Class IV B.TECH has participated in the 5 weeks Training Program on "NX-CAD SOFTWARE" organized by the Department of Mechanical Engineering during 06-08-2016 to 03-09-2016.**

  
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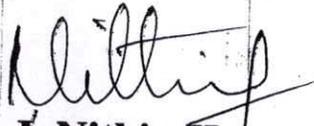


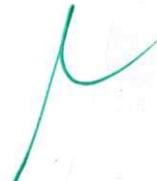
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### Certificate of Participation

**This is to certify that *KHANDAVILLI ANIRUDH* of *Class IV B.TECH* has participated in the 5 weeks Training Program on "NX-CAD SOFTWARE" organized by the Department of Mechanical Engineering during 06-08-2016 to 03-09-2016.**

  
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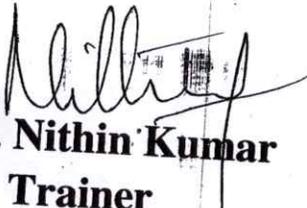


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### Certificate of Participation

This is to certify that **DOODALA SAI KIRAN** of **Class IV B.TECH** has participated in the 5 weeks Training Program on "NX-CAD SOFTWARE" organized by the Department of Mechanical Engineering during 06-08-2016 to 03-09-2016.

  
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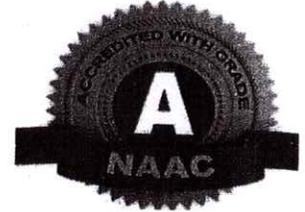
  
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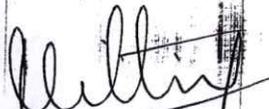


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### Certificate of Participation

**This is to certify that *CHERUKURI SAI SUDEEP* of *Class IV B.TECH* has participated in the 5 weeks Training Program on "NX-CAD SOFTWARE" organized by the Department of Mechanical Engineering during 06-08-2016 to 03-09-2016.**

  
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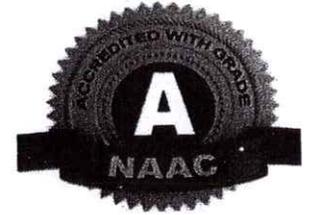
  
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**This is to certify that BEERA KISHORE of Class IV B.TECH has participated in the 5 weeks Training Program on "NX-CAD SOFTWARE" organized by the Department of Mechanical Engineering during 06-08-2016 to 03-09-2016.**

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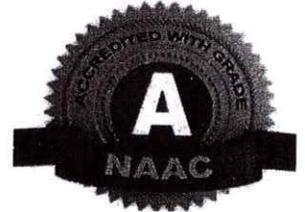
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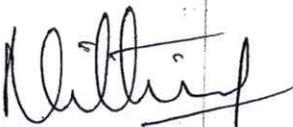


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### Certificate of Participation

**This is to certify that ANKARLA BHARATH of Class IV B.TECH has participated in the 5 weeks Training Program on "NX-CAD SOFTWARE" organized by the Department of Mechanical Engineering during 06-08-2016 to 03-09-2016.**

  
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Trainer

  
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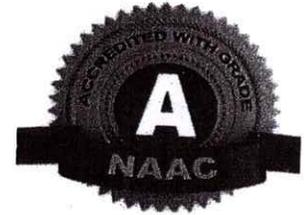
  
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*This is to certify that DASARI SAI PAVAN of Class IV B.TECH has participated in the 5 weeks Training Program on "NX-CAD SOFTWARE" organized by the Department of Mechanical Engineering during 06-08-2016 to 03-09-2016.*

**Mr. J. Nithin Kumar**  
Trainer

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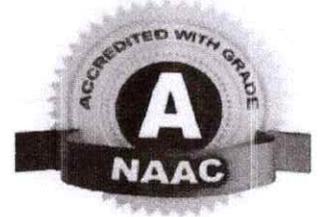
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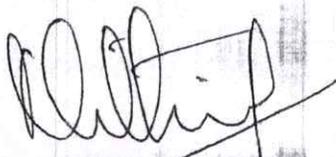


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**This is to certify that RUTHWIK EDARA of Class IV B.TECH has participated in the 5 weeks Training Program on "NX-CAD SOFTWARE" organized by the Department of Mechanical Engineering during 06-08-2016 to 03-09-2016.**

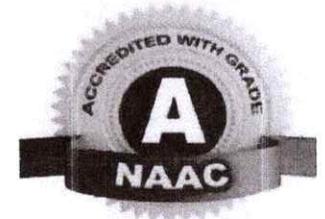
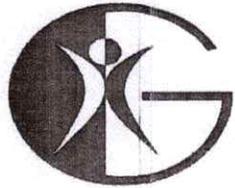
  
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**This is to certify that D EMMANUEL RAJU of Class IV B.TECH has participated in the 5 weeks Training Program on "NX-CAD SOFTWARE" organized by the Department of Mechanical Engineering during 06-08-2016 to 03-09-2016.**

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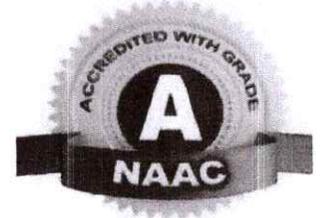
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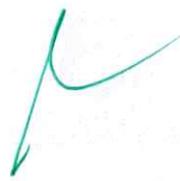
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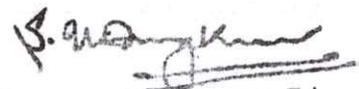
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**This is to certify that *ARAVALLI MOULIKA* of *Class IV B.TECH* has participated in the 5 weeks Training Program on "NX-CAD SOFTWARE" organized by the Department of Mechanical Engineering during 06-08-2016 to 03-09-2016.**

  
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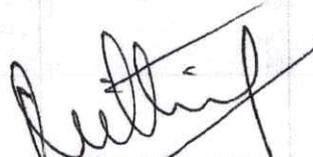


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**This is to certify that KONALA SATYANARAYANA of Class IV B.TECH has participated in the 5 weeks Training Program on "NX-CAD SOFTWARE" organized by the Department of Mechanical Engineering during 06-08-2016 to 03-09-2016.**

  
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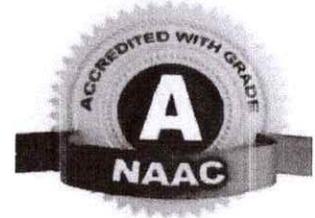
  
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**This is to certify that *DEVARAJU MAHADEV BHATT* of *Class IV B.TECH* has participated in the 5 weeks Training Program on “NX-CAD SOFTWARE” organized by the Department of Mechanical Engineering during 06-08-2016 to 03-09-2016.**

  
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(Autonomous)  
Cheeryal (V), Keesara (M), Medchal (Dist. T.S.)  
**Dr. T. Siva Prasad**  
HOD

  
**Dr. S. Udaya Kumar**  
Principal

**GEETHANJALI COLLEGE OF ENGINEERING AND TECHNOLOGY**

**AUTONOMOUS**

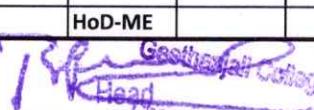
**DEPARTMENT OF MECHANICAL ENGINEERING**

**A.Y: 2016-17**

**SEM: I**

**FEED BACK ON " NX-CAD TRAINING "**

S.No	HALL TICKET NUMBER	COMPLETE STUDENT NAME AS PER THE RECORDS	PHONE NUMBER	The content was as described in materials	The Training was applicable to my Core Stream	I will recommend this training to other conservators	The program was well paced within the allotted time	The instructor was a good communicator	The instructor was knowledgeable on the topic	I would be interested in attending a follow-up, more Advanced trainings on this course	In your opinion, this training was	Please rate the program in overall
1	13R11A0304	ARAVALLI MOULIKA	9989133438	Agree	Strongly agree	Yes	Agree	Agree	Agree	Maybe	Intermediate	5
2	13R11A0310	D EMMANUEL RAJU	7702904509	Agree	Agree	Yes	Agree	Agree	Agree	Maybe	Advanced	5
3	13R11A0316	DEVARAJU MAHADEV BHATT	9989647848	Agree	Agree	Yes	Agree	Neutral	Agree	Maybe	Intermediate	4
4	13R11A0325	KONALA SATYANARAYANA	9492528797	Neutral	Neutral	Maybe	Neutral	Neutral	Agree	Yes	Intermediate	3
5	13R11A0342	RUTHWIK EDARA	8374322888	Agree	Strongly agree	Yes	Agree	Strongly agree	Strongly agree	Yes	Intermediate	4
6	13R11A0347	SREERAM SAI	9912844910	Strongly agree	Strongly agree	Yes	Agree	Agree	Agree	Yes	Intermediate	4
7	13R11A0351	THUGGILI SINDHURANJALI	7207698182	Agree	Agree	Yes	Agree	Agree	Agree	Yes	Intermediate	4
8	13R11A0328	M LAVANYA	9848045183	Agree	Agree	Yes	Agree	Neutral	Agree	Maybe	Intermediate	5
9	13R11A0313	DASARI SAI PAVAN	9390096370	Strongly agree	Strongly agree	Yes	Agree	Agree	Agree	Yes	Intermediate	5
10	13R11A0301	A BHAVYA VANGMAYI	9492956104	Agree	Strongly agree	Yes	Agree	Agree	Strongly agree	Yes	Intermediate	4
11	13R11A0361	A RAHUL	9703596019	Neutral	Strongly agree	Yes	Agree	Agree	Strongly agree	Yes	Intermediate	4
12	13R11A0363	ANKARLA BHARATH	9848774090	Strongly agree	Strongly agree	Maybe	Strongly agree	Strongly agree	Strongly agree	Yes	Advanced	5
13	13R11A0367	BEERA KISHORE	9908208983	Strongly agree	Strongly agree	Yes	Strongly agree	Strongly agree	Strongly agree	Yes	Advanced	5
14	13R11A0372	CHERUKURI SAI SUDEEP	9347578926	Agree	Agree	Yes	Agree	Agree	Agree	Yes	Intermediate	5
15	13R11A0376	DOODALA SAI KIRAN	9849627692	Agree	Agree	Yes	Agree	Agree	Agree	Yes	Intermediate	5
16	13R11A0383	KHANDAVILLI ANIRUDH	9948704382	Neutral	Strongly agree	Maybe	Disagree	Disagree	Neutral	Maybe	Intermediate	3
17	13R11A0390	PEDDOLLA PRASHANTH	9490929035	Agree	Agree	Maybe	Agree	Neutral	Agree	Maybe	Intermediate	4
18	13R11A0394	P KARTHIK VARMA	9494243845	Agree	Agree	Yes	Agree	Agree	Agree	Yes	Advanced	5
19	13R11A03A5	VELDANDA PUSHYA MITHRA	9059935563	Agree	Agree	Yes	Agree	Agree	Strongly agree	Yes	Intermediate	4
20	14R15A0301	G KARTHIK KUMAR	9010200125	Strongly agree	Strongly agree	Yes	Strongly agree	Strongly agree	Strongly agree	Yes	Introductory	5
		Sign of coordinator										

  
 Geethanjali College of Engineering and Technology  
 (Autonomous)  
 Dept. of Mechanical Engineering (M. Mech)  
 Geethanjali College of Engineering & Technology