SAMBHRAM INASTITUTE OF TECHNOLOGY
DEPARTMENT OF INFORAMTION SCIENCE AND ENGINEERING
VALUE ADDED COURSES

SLNO	ACADMIC YEAR	COURSE NAME
1	2018-19	• PYTHON • UNIX PROGRAMMNG • ATRIFICIAL INTELLIGENCE

Head of the Department of
Information Science Engineering
Sambhram Institute of Technology
Bangalore - 560 097.

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Sambhram Institute of Technology
M.S. Palya, Bangalore - 560 097

GENESIS TRAINING

MULTIPLE CHOICE QUESTIONIRE

GENESIS T R A I N I N G

COURSE NAME: Python
SEM:

ACADEMIC YEAR:
USN:

1. What is the key difference between a list and a tuple in Python?

a) Lists are immutable, while tuples are mutable.

b) Lists are heterogeneous collections, while tuples are homogeneous collections.

c) Tuples are immutable, while lists are mutable.

d) Lists support indexing and slicing, while tuples do not.

2. In Python, what does the *args syntax represent in a function definition?

a) It represents a variable number of keyword arguments.

b) It represents a single variable argument.

c) It represents a tuple of positional arguments.

d) It represents a variable number of positional arguments.

3. Which of the following statements regarding Python's global keyword is true?

a) It allows a variable to be modified outside of the current scope.

b) It allows a variable to be accessed from any scope within the program.

c) It creates a new variable within the local scope.

d) It allows a variable to be defined as constant within a function.

4. What is the purpose of the _init_() method in Python classes?

a) It is used to initialize class variables.

b) It is called when an object is created from the class.

c) It is a constructor method for the class.

d) All of the above.

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5. Which of the following is true about Python's garbage collection?

a) It immediately deletes objects that are no longer referenced.

b) It uses reference counting to track object lifetimes.

c) It is always deterministic and predictable.

d) It is not applicable to immutable objects.

6. What is the purpose of the _str_() method in Python?

a) It converts an object to a string representation.

b) It is used to compare two objects for equality.

c) It is called when an object is created.

d) It is used to serialize an object.

7. In Python, what is the key difference between sets and frozensets?

a) Sets are immutable, while frozensets are mutable.

b) Sets allow duplicate elements, while frozensets do not.

c) Sets are unordered collections, while frozensets are ordered.

d) Sets are mutable, while frozensets are immutable.

8. What is the difference between deep copy and shallow copy in Python?

a) Deep copy creates a new object and inserts references to the objects found in the original, while shallow copy creates a new object and recursively inserts copies of objects found in the original.

b) Deep copy creates a new object and inserts copies of objects found in the original, while shallow copy creates a new object and inserts references to the objects found in the original.

c) Deep copy creates a new object and inserts references to the objects found in the original, while shallow copy creates a new object with the same memory address as the original.

d) Deep copy and shallow copy are the same in Python.

9. Which of the following is true about Python's lambda expressions?

a) They can contain multiple expressions.

b) They can have a return statement.

c) They are anonymous functions.

d) They can be used to define class methods.

10. What is the purpose of the @staticmethod decorator in Python?

a) It marks a method as a class method.

b) It marks a method as a static method.

c) It marks a method as a private method.

d) It marks a method as a special method.

11. What does the enumerate() function in Python do?

a) Returns an iterator that generates tuples containing indices and values from an iterable.

b) Returns an iterator that generates tuples containing indices and keys from a dictionary.

c) Returns an iterator that generates tuples containing values and keys from a dictionary.

d) Returns an iterator that generates tuples containing values and indices from an iterable.

12. Which of the following statements is true about Python's * operator?

a) It is used for exponentiation.

b) It is used for floor division.

c) It is used for matrix multiplication.

d) It is used for unpacking iterable objects.

13. What does the _next_() method do in Python?

a) It returns the next item in an iterable.

b) It returns the current item in an iterable.

c) It returns the previous item in an iterable.

d) It returns the first item in an iterable.

14. What is the purpose of the _eq_() method in Python?

a) It is called when an object is instantiated.

b) It is called to compare two objects for identity.

c) It is called to compare two objects for equality.

d) It is called when an object is deleted.

15. What does the super() function do in Python?

a) It returns the superclass of a class.

b) It calls the constructor of the superclass.

c) It returns a reference to the current instance of a class.

d) It is used to invoke methods of the superclass.

16. What is the purpose of the _repr_() method in Python?

a) It is used to represent an object as a string for debugging purposes.

b) It is used to initialize an object with default values.

c) It is used to compare two objects for equality.

d) It is called when an object is deleted.

17. Which of the following is true about Python's zip() function?

a) It combines two or more iterables into a single iterable of tuples.

b) It returns an iterator that generates tuples containing indices and values from an iterable.

c) It returns an iterator that generates tuples containing values and indices from an iterable.

d) It combines two or more dictionaries into a single dictionary.

18. What does the _enter_() method do in Python's context managers?

a) It is called when a context manager is created.

b) It is used to initialize the context manager.

c) It returns the context manager object.

d) It is called when entering the context managed block.

19. What is the difference between Python's range() and xrange() functions?

a) There is no difference; they are interchangeable.

b) range() returns a list, while xrange() returns an iterator.

c) range() is used for generating sequences of numbers, while xrange() is used for generating sequences of characters.
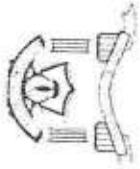
d) range() is used in Python 2.x, while xrange() is used in Python 3.x.

20. What is the purpose of the _exit_() method in Python's context managers?
a) It is called when a context manager is exited.
b) It is used to raise exceptions in the context manager.
c) It is used to handle exceptions raised within the context managed block.
d) It is called when entering the context managed block.

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from 1ST Oct 2018 to 6th Oct 2018.
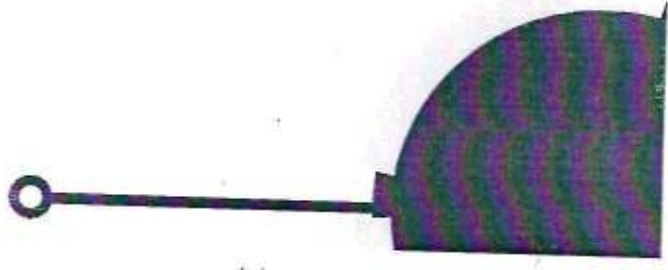
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Genesis Training, Bengaluru

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CURRICULUM

COURSE NAME: **Unix programming**

ACADEMIC YEAR : 2018-2019

- Introduction of Unix and Linux: Basics of Unix and Linux, commands and utilities, lists of Directories
- File Management and Directory Management: Basics operations, LS commands, Std Unix streams, Relative paths
- Unix Permissions and Permission Environment, Accessing mode using chmode , Unix Process, Networking, Quoting Mechanism
- Loop control, Decision making, Shell substitution, Interposes Communication, Unix Programming, Helps and Functions
- Directory Structures Mounting and Unmounting : Introduction , File Nevigation commands, Unix user Admin, Unix performance, Signals in unix
- Interrupt, Trap, File Directories and Complete Reviews

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MULTIPLE CHOICE QUESTIONIRE

COURSE NAME : COMPLETE UNIX AND LINUX OS FUNDAMENTALS TRAINING

ACADEMIC YEAR :

SEM :   USN:

1. Which of the following command can be used to change the permission of the directory "sample_dir" along with all the files and sub directories inside it to "665"?
a) Chmod 665 sample_dir/
b) Chmod -r 665 sample_dir
c) Chmod -R 665 sample_dir
d) All of the above
Ans: c) Chmod -R 665 sample_dir

2. Which of the following commands create a read only file for the user in the current directory?
a) Touch file chmod 400
b) Touch file chmod 640
c) Touch file chmod 004
d) Touch file chmode 604
Ans: a) Touch file chmod 400

3. Hidden files are preceded with which of the following?
a) .
b) _
c) ^
d) @
Ans: a) .

4. Which of the following option will take a backup of the file, while moving that file to a another directory?
a) -i
b) .b
c) -b
d) -backup
Ans: b) .b

5. What is the purpose of option -i in grep command?
a) Invert the output of matching
b) Ask for conformation from user
c) Perform case sensitive matching
d) Perform case insensitive matching
Ans: d) Perform case insensitive matching

6. Which of the below keys can be used to move from command mode to insert mode?
a) i
b) A
c) o
d) All of the above
Ans : d) All of the above

7. Which character can be used to delete a character at the cursor position in vi?
   a) – a
   b) – b
   c) – x
   d) – y
   Ans : c) -x

8. Which of following used to translate a domain name to IP address?
   a) NIS
   b) DNS
   c) SMB
   d) NFS
   Ans: b) DNS

9. Total primary partitions that can exist on one drive is ------?
   a) 1
   b) 2
   c) 16
   d) 4
   Ans : d) a

10. GNU stands for---- ?
    a) Greek Needed Unix
    b) General Unix
    c) GNU's Not Unix
    d) General Nobel Unix
Ans : c) GNU's Not Unix

11. What is the core of the Linux Operating System?
a) Terminal
b) Kernel
c) Command
d) Terminals
Ans: b) Kernel

12. Identify the OS which is not based on Linux?
a) Ubuntu
b) BSD
c) CentOS
d) Red Hat
Ans: B

13. Which command is used to print a file?
a) wc
b) pg
c) lp
d) print
Ans: c) lp

14. Choose the following statement is true or false ?
"Directory is a type of file"
a) True
b) False
Ans: a) True

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15. Which of the following is used to represent the top-level directory?

a) *

b) $

c) #

d) /

Ans : d) /

16. Which of the following command is used to display and create file ?

a) cat

b) lyrix

c) vi

d) ed

Ans : a) cat

17. OSS stands for-----

a) Original source software

b) Open system software

c) Original system server

d) Open source software

Ans : d) Open source software

18. What is the use of " cd " command?

a) Make new directory

b) Current directory

c) Change directory

d) Confirm directory

Ans : C) Change directory

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19. In which language UNIX is written?
 a) C++
 b) C
 c) Java
 d) python
Ans : b) C

20. Which process is immediately set up by the kernel when we log on to a UNIX system?
 a) System
 b) bash
 c) shell
 d) parent
Ans : c) shell

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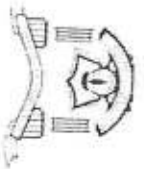
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bearing USN 1ST17IS001 of Semester 3rd

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UNIX PROGRAMMING

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Akshay V Agasthya
Vice President - Learning and Development
Genesis Training, Bengaluru

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Sambhram Institute of Technology
M.S. Palya, Bangalore - 560 097

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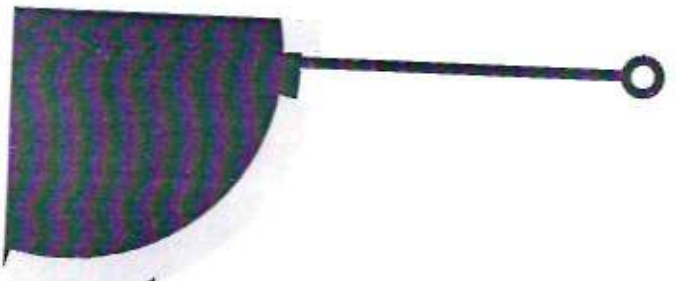
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CURRICULUM

COURSE NAME: CRASH COURSE ON ARTIFICIAL INTELLIGENCE
ACADEMIC YEAR: 2018-19

- Introduction to Artificial Intelligence
- Introduction to Neural Networks and Deep Learning
- Multilayer Preceptron
- Introduction to Tensorflow and Keras
- Back Propagation
- Batch Normalization
- Neural Networks in R
- Stock Price Predictions using Deep Learning
- Learning Videos – Bank Defaulters using ANN
- Introduction to NLP
- Textblob
- Machine Transaltion
- Text Classification in NLP

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GENESIS TRAINING

MULTIPLE CHOICE QUESTIONIRE

Q1.Which of the following is not a type of AI?

A) Artificial Narrow Intelligence (ANI)
B) Artificial General Intelligence (AGI)
C) Artificial Super Intelligence (ASI)
D) Artificial Simple Intelligence (ASI)

Q2. What is the primary goal of machine learning?

A) To develop software that can think
B) To enable machines to make decisions based on data
C) To create a general AI
D) To replicate human emotions in machines

Q3.Which algorithm is used for supervised learning?

A) K-means Clustering.
B) Apriori.
C) Decision Trees.
D) DBSCAN.

Q4. What is the main difference between supervised and unsupervised learning?

A) Supervised learning uses labeled data, while unsupervised learning uses unlabeled data
B) Supervised learning does not require a training phase
C) Unsupervised learning provides feedback to the system
D) There is no difference:

Q5.Which of the following is an example of reinforcement learning?

A) Training a model to recognize images of cats

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B) Teaching an AI to play chess by playing against itself
C) Clustering similar customer data
D) Finding the shortest path in a graph.

Q6.Which of the following is a popular programming language for AI development?

 A) HTML
B) CSS
C) Python
D) SQL

Q7.In natural language processing (NLP), what does "tokenization" refer to?

A) Combining multiple words into a single token
B) Splitting text into individual words or phrases
C) Translating text from one language to another
D) Removing stop words from the text

Q8.What is a neural network's basic building block?

A) Neuron
B) Node
C) Synapse
D) Layer

Q9.Which of the following is not a component of a typical neural network?

 A) Input layer
B) Hidden layer
C) Output layer
D) Command layer

Q10.Which AI technique is primarily used for classification and regression tasks?

 A) Clustering
B) Linear Regression
C) Decision Trees
D) Both B and C

Q11. What is a neural network?

A) A type of programming language
B) A set of algorithms modeled loosely after the human brain
C) A hardware component used in computers
D) A type of database

Q12.In a neural network, what is the role of the activation function? A) To initialize the weights
B) To transform the input into a usable output
C) To adjust the learning rate
D) To add non-linearity to the model

Q13.Which of the following is a popular activation function in neural networks?

A) Sigmoid
B) ReLU (Rectified Linear Unit)
C) Tanh
D) All of the above

14.Which of the following is not a layer type typically found in a Convolutional Neural Network (CNN)?

A) Convolutional layer
B) Pooling layer
C) Fully connected layer
D) Recurrent layer

Q15.Which R package is commonly used for creating neural networks?

A) ggplot2
B) dplyr
C) neuralnet
D) caret

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Q16.What function in the `neuralnet` package is used to train a neural network model?
A) train()
B) neuralnet()
C) fit()
D) model().

Q17.Which function in R can be used for cross-validation when training neural networks?
A) cv.glm()
B) cv.neuralnet()
C) kfold()
D) crossval()

Q18. To scale the input data for a neural network in R, which package is commonly used?
A) scale
B) dplyr
C) caret
D) normalize

Q19.Which parameter in the `neuralnet` function determines the maximum steps for the training process?
A) stepmax
B) max.steps
C) epochs
D) iter.max

Q20.What type of neural network can be created using the `neuralnet` package?
A) Convolutional Neural Network (CNN)
B) Recurrent Neural Network (RNN)
C) Feedforward Neural Network

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INTRODUCTION TO ARTIFICIAL INTELLIGENCE

from 17Th Sept 2018 to 22nd Sept 2018.

Akshay V Agasthya
**Vice President - Learning and
Development**
Genesis Training, Bengaluru

PRINCIPAL
Sambhram Institute of Technology
M.S. Palya, Bangalore - 560 097

Dr. H.G. Chandrakanth
Principal
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DEPARTMENT OF INFORAMTION SCIENCE AND ENGINEERING
VALUE ADDED COURSES

SLNO	ACADMIC YEAR	COURSE NAME
1	2019-20	• IOT • BLOCK CHAIN TECHNOLOGY • PYTHON PROGRAMMING

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Bangalore - 560 097.

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CURRICULUM

COURSE NAME: FUNDAMENTALS OF IOT   ACADEMIC YEAR: 2019-20

- Introduction to IoT, Sensors, Actuators, Classification of IOT boards
- Programming with Arduino: Introduction to Arduino, Features, Components, Arduino IDE, Program elements-Structure, Variables and constants, Data types, Operators, Control statements, Loops, Functions, Arrays, String objects; Time, I/O function, Display, Random numbers
- Analog and Digital Communication with Arduino: Introduction-Serial communication, Parallel communication, Interfacing LCD character display
- UART Communication: UART protocol, Serial communication, Interfacing ESP8266 module
- I2C Communication: I2C protocol, ADXL345 module, Interfacing BMP180 module
- SPI Communication: SPI protocol, SD card interfacing, Ethernet module interfacing

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COMMENT ON VAC

Some Students undergone value added courses more than one course in some academic years. Hence they have produced more than one certificate in that academic year.

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GENESIS TRAINING

MULTIPLE CHOICE QUESTIONIRE

COURSE NAME: FUNDAMENTALS OF IOT

SEM:

ACADEMIC YEAR: 2019 - 20

USN:

1. **What does sensor sensitivity refer to?**
   A. How closely the sensor's output signal matches the actual physical quantity being measured.
   B. How well the sensor responds to small changes in the physical quantity it's measuring.
   C. The smallest change in the physical quantity that the sensor can detect.
   D. The time it takes for the sensor to respond to a change in the physical quantity.

2. **Which characteristic of a sensor defines the minimum and maximum values it can measure?**
   A. Accuracy
   B. Range
   C. Resolution
   D. Response time

3. **What type of sensors measure a single physical quantity like temperature or pressure?**
   A. Analog Sensors
   B. Scalar Sensors
   C. Vector Sensors
   D. Digital Sensors

4. **Which type of actuator uses pressurized fluid to create linear or rotary motion and is commonly found in construction equipment and industrial machinery?**
   A. Electric Actuators
   B. Hydraulic Actuators
   C. Pneumatic Actuators
   D. Virtual Sensors

5. **What is the main of the microcontroller in an Arduino?**
   A. Processing code and controlling I/O operations
   B. Providing power to the Arduino
   C. Displaying output on a screen

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D. Connecting to the internet wirelessly

6. **Which aspect makes Arduino accessible for individuals with no prior programming experience?**
   A. Requiring advanced coding skills
   B. Being compatible only with Windows OS
   C. Using a simplified version of C++
   D. Having a complex hardware design

7. **What type of pins on an Arduino are used to connect sensors and actuators?**
   A. Power Pins
   B. Ground Pins
   C. Analog and Digital Input/Output (I/O) Pins
   D. Communication Pins

8. **What feature of Arduino allows for customization and community support?**
   A. Closed-source proprietary components
   B. Limited processing power
   C. Open-source hardware design and software
   D. Exclusive compatibility with Mac OS

9. **What component of the Arduino board is responsible for regulating incoming voltage to ensure proper operation?**
   A. Voltage Regulator
   B. USB Connector
   C. Power Supply
   D. Arduino IDE

10. **Which feature of the Arduino IDE allows you to write, compile, and upload code to your Arduino board?**
    A. Text Editor
    B. Compiler
    C. Debugger
    D. Integrated Development Environment

11. **In Arduino programming, which type of elements are used to define the of data a variable hold?**
    A. Variables and Constants
    B. Structure
    C. Data Types
    D. Operators

12. What do you call reusable blocks of code in Arduino that perform specific tasks?
   A. Functions
   B. Loops
   C. Control Statements
   D. Program Elements

13. What type of data elements do arrays typically contain?
   A. Different types
   B. Random values
   C. Elements of the same type
   D. Sequential values

14. What is the primary purpose of libraries when interacting with the ESP8266 Wi-Fi functionality?

   A. To measure acceleration in various directions
   B. To send AT commands through serial communication
   C. To simplify interacting with the ESP8266 Wi-Fi functionality
   D. To communicate with Arduino via I2C protocol

15. What is the maximum number of devices that can be connected to a single I2C bus?
   A. 128
   B. 512
   C. 256
   D. 64

16. What is the primary function of the ADXL345 module?
   A. To connect to a wired network
   B. To provide external storage
   C. To measure atmospheric pressure
   D. To measure acceleration in various directions

17. What is the primary advantage of SPI communication over I2C?
   A. SPI uses separate lines for clock and data
   B. SPI is used for wired network communication
   C. SPI is more widely used
   D. SPI is slower than I2C

18. What communication protocol is used to access and manage data on an SD card?
   A. Ethernet
   B. I2C
   C. AT commands
   D. SPI

19. What is the primary method of data transmission used in serial communication?
   A. Through I2C protocol

B. Multiple bits simultaneously
C. Using parallel communication
D. One bit at a time

20. What is the purpose of the UART protocol?
A. To provide a simpler hardware setup
B. To define the format for transmitting and receiving data asynchronously
C. To show text and basic symbols on character displays
D. To connect Arduino to the internet

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bearing USN 1ST17IS004 of Semester 5TH

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INTERNET OF THINGS

from 26TH Aug 2019 TO 4TH Sept 2019

Akshay V Agasthya
**Vice President - Learning and
Development**
Genesis Training, Bengaluru

PRINCIPAL
Sambhram Institute of Technology
M.S. Palya, Bangalore - 560 097

Dr. H.G. Chandrakanth
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COURSE NAME: BLOCK CHAIN AND TECHNOLOGY   ACADEMIC YEAR : 2019-2020

- Introduction, Purpose and Scope, Results of the Public Comment Period, Document Structure, Blockchain Categorization.

- Permissionless, Permissioned, Blockchain Components, Cryptographic Nonce, Transactions, Asymmetric-Key Cryptography.

- Introduction to Cryptography & Cryptocurrencies, Cryptographic Hash Functions, Hash Pointers and Data Structures, Digital Signatures.
- Public Keys as Identities, A Simple Cryptocurrency, How Bitcoin

- Achieves Decentralization, Centralization vs. Decentralization, Distributed consensus, Consensus without identity using a block chain, Incentives and proof of work

- Mechanics of Bitcoin, Bitcoin transactions, Bitcoin Scripts, Applicationsof Bitcoin scripts, Bitcoin blocks, The Bitcoin network, Limitations and improvements.

- Blockchain Limitations and Misconceptions, Application ConsiderationsAdditional Blockchain Consideration

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MULTIPLE CHOICE QUESTIONIRE

COURSE NAME : BLOCK CHAIN AND TECHNOLOGY　　**ACADEMIC YEAR :2019-20**
SEM :　　　　　　　　　　　　　　　　　　　　**USN:**

1. Blockchain is a peer-to-peer_____distributed ledger technology that makes the records of any digital asset transparent and unchangeable.
   A. Decentralized
   B. Demanding
   C. Secure
   D. Popular

2. **Block chain networks are much_____and deal with no real single point of failure.**
   A. Simpler
   B. Easier to scale
   C. Convenient
   D. Faster

3. Bit coin is a crypto currency, which is an application of Block chain.
   A. True
   B. False

4. Block chain can perform user transactions without involving any third-party intermediaries.
   A. With the help of the third party
   B. Without involving any third party
   C. Without involving any owned
   D. Without involving any authenticated

5. What does P2P stand for?
   A. Peer to Peer
   B. Product to Product
   C. Password to Password
   D. None of the above

6. Blockchain has_____versions.
   A. 2
   B. 3
   C. 4
   D. 5

7. Who introduced the digital online crypto currency known as Bit coin?
   A. Satoshi Nakamoto
   B. Nick Szabo
   C. Wei Dai
   D. Hal Finney

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8. A block chain enables peer-to-peer transfer of digital currency without any intermediaries such as banks.

    A. False
    B. True

9. Did Block chain enable a centralized or a decentralized system for the exchange of value?
    A. Decentralized
    B. Centralized
    C. None of the above
    D. Can't say

10. What does a block in a Blockchain have?
    A. Header & Digital ledger
    B. Bitcoins & Input
    C. Transactions & Bitcoins
    D. Header & Transaction

11. What does UTXO stand for?
    A. Unspent Trade Offer
    B. Unspent Transaction xeroxed Output
    C. Unique Transaction Offer
    D. Unspent Transaction Output

12. Does a transaction generate new UTXOs for transferring the amount specified in the input UTXOS?
    A. False

13. Transaction 0 in every block of the bitcoin blockchain_____.
    A. Is for paying the miner fees
    B. Does not have any input UTXO
    C. Is called the coinbase transaction
    D. All of the above

14. What is the genesis block?
    A. Any block created by the founder
    B. The last block created in the Blockchain
    C. The first block of a Blockchain
    D. The first transaction in each block

15. ____hosts the software needed for transaction initiation, validation, mining, block creation, and smart contract execution.
    A. External Account
    B. EVM
    C. Ethereum full node
    D. Smart Contract

16. _____receive verify, gather and execute transactions.
    A. Miner nodes
    B. Smart Contracts
    C. Light wallets
    D. Ethereum full node

17. What is Blockchain?
    A. A currency

B. A ledger
C. A type of currency
D. A distributed ledger on a peer-to-peer network

18. Bitcoin is based on_____blockchain.
   A. Private
   B. Public
   C. Public Permissioned
   D. Permissioned

19. BATM stands for_____.
   A. Bounded access transaction machine
   B. Broadcast ATM
   C. Bit coin ATM
   D. Block chain ATM

20. Smart Contract characteristics do not include:
   A. Alterable
   B. Fast and cost-effective
   C. A high degree of accuracy
   D. Transparency

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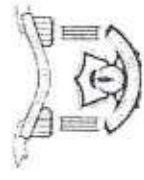
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BLOCK CHAIN TECHNOLOGY

from 26TH Aug 2019 TO 4TH Sept 2019

Akshay V Agasthya
Vice President - Learning and Development
Genesis Training, Bengaluru

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Dr. H.G. Chandrakanth
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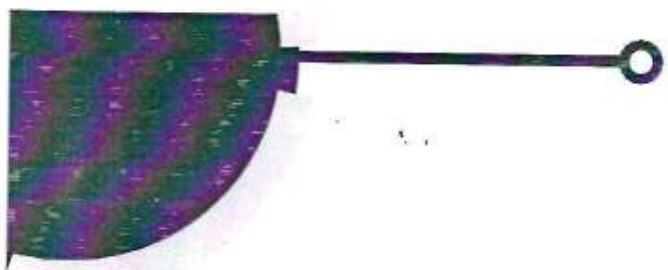
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CURRICULUM

COURSE NAME: Python   **ACADEMIC YEAR:** 2019 - 20

LEARNING Python:

- Python Objects and Data Structure Basics
- Python Comparison Operators
- Python Statements
- Methods and Functions
- Object Oriented Programming
- Modules and Packages
- Errors and Exceptions Handling
- Python Decorators
- Python Generators
- Advanced Python Modules
- Web Scraping with Python
- Working with Images with Python
- Working with PDFs and Spreadsheets CSV Files
- Emails with Python
- Advanced Python Objects and Data Structures

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5. Which of the following is true about Python's garbage collection?

a) It immediately deletes objects that are no longer referenced.

b) It uses reference counting to track object lifetimes.

c) It is always deterministic and predictable.

d) It is not applicable to immutable objects.

6. What is the purpose of the _str_() method in Python?

a) It converts an object to a string representation.

b) It is used to compare two objects for equality.

c) It is called when an object is created.

d) It is used to serialize an object.

7. In Python, what is the key difference between sets and frozensets?

a) Sets are immutable, while frozensets are mutable.

b) Sets allow duplicate elements, while frozensets do not.

c) Sets are unordered collections, while frozensets are ordered.

d) Sets are mutable, while frozensets are immutable.

8. What is the difference between deep copy and shallow copy in Python?

a) Deep copy creates a new object and inserts references to the objects found in the original, while shallow copy creates a new object and recursively inserts copies of objects found in the original.

b) Deep copy creates a new object and inserts copies of objects found in the original, while shallow copy creates a new object and inserts references to the objects found in the original.

c) Deep copy creates a new object and inserts references to the objects found in the original, while shallow copy creates a new object with the same memory address as the original.

d) Deep copy and shallow copy are the same in Python.

9. Which of the following is true about Python's lambda expressions?

a) They can contain multiple expressions.

b) They can have a return statement.

H6 c lambda

GENESIS T R A I N I N G

GENESIS TRAINING

MULTIPLE CHOICE QUESTIONIRE

COURSE NAME: Python

SEM:

ACADEMIC YEAR:

USN:

1. What is the key difference between a list and a tuple in Python?

a) Lists are immutable, while tuples are mutable.

b) Lists are heterogeneous collections, while tuples are homogeneous collections.

c) Tuples are immutable, while lists are mutable.

d) Lists support indexing and slicing, while tuples do not.

2. In Python, what does the *args syntax represent in a function definition?

a) It represents a variable number of keyword arguments.

b) It represents a single variable argument.

c) It represents a tuple of positional arguments.

d) It represents a variable number of positional arguments.

3. Which of the following statements regarding Python's global keyword is true?

a) It allows a variable to be modified outside of the current scope.

b) It allows a variable to be accessed from any scope within the program.

c) It creates a new variable within the local scope.

d) It allows a variable to be defined as constant within a function.

4. What is the purpose of the _init_() method in Python classes?

a) It is used to initialize class variables.

b) It is called when an object is created from the class.

c) It is a constructor method for the class.

d) All of the above.

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c) They are anonymous functions.

d) They can be used to define class methods.

10. What is the purpose of the @staticmethod decorator in Python?

a) It marks a method as a class method.

b) It marks a method as a static method.

c) It marks a method as a private method.

d) It marks a method as a special method.

11. What does the enumerate() function in Python do?

a) Returns an iterator that generates tuples containing indices and values from an iterable.

b) Returns an iterator that generates tuples containing indices and keys from a dictionary.

c) Returns an iterator that generates tuples containing values and keys from a dictionary.

d) Returns an iterator that generates tuples containing values and indices from an iterable.

12. Which of the following statements is true about Python's * operator?

a) It is used for exponentiation.

b) It is used for floor division.

c) It is used for matrix multiplication.

d) It is used for unpacking iterable objects.

13. What does the _next_() method do in Python?

a) It returns the next item in an iterable.

b) It returns the current item in an iterable.

c) It returns the previous item in an iterable.

d) It returns the first item in an iterable.

14. What is the purpose of the _eq_() method in Python?

a) It is called when an object is instantiated.

b) It is called to compare two objects for identity.

c) It is called to compare two objects for equality.

d) It is called when an object is deleted.

15. What does the super() function do in Python?

a) It returns the superclass of a class.

b) It calls the constructor of the superclass.

c) It returns a reference to the current instance of a class.

d) It is used to invoke methods of the superclass.

16. What is the purpose of the _repr_() method in Python?

a) It is used to represent an object as a string for debugging purposes.

b) It is used to initialize an object with default values.

c) It is used to compare two objects for equality.

d) It is called when an object is deleted.

17. Which of the following is true about Python's zip() function?

a) It combines two or more iterables into a single iterable of tuples.

b) It returns an iterator that generates tuples containing indices and values from an iterable.

c) It returns an iterator that generates tuples containing values and indices from an iterable.

d) It combines two or more dictionaries into a single dictionary.

18. What does the _enter_() method do in Python's context managers?

a) It is called when a context manager is created.

b) It is used to initialize the context manager.

c) It returns the context manager object.

d) It is called when entering the context managed block.

19. What is the difference between Python's range() and xrange() functions?

a) There is no difference; they are interchangeable.

b) range() returns a list, while xrange() returns an iterator.

c) range() is used for generating sequences of numbers, while xrange() is used for generating sequences of characters.

H 6 c

d) range() is used in Python 2.x, while xrange() is used in Python 3.x.

20. What is the purpose of the _exit_() method in Python's context managers?
a) It is called when a context manager is exited.
b) It is used to raise exceptions in the context manager.
c) It is used to handle exceptions raised within the context managed block.
d) It is called when entering the context managed block.

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PYTHON PROGRAMMING

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Akshay V Agasthya
Vice President - Learning and
Development
Genesis Training, Bengaluru

Dr. H.G. Chandrakanth
Principal
Sambhram Institute Of
Technology

PRINCIPAL,
Sambhram Institute of Technology
M.S. Palya, Bangalore - 560 097

2019-20

SAMBHRAM INASTITUTE OF TECHNOLOGY
DEPARTMENT OF INFORAMTION SCIENCE AND ENGINEERING
VALUE ADDED COURSES

SLNO	ACADMIC YEAR	COURSE NAME
1	2020-21	• CYBER SECURITY & ETHICAL HACKING • BIG DATA ANALYTICS • MACHINE LEARNING

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CURRICULUM

COURSE NAME : Cyber Security & Ethical Hacking ACADEMIC YEAR: 2020-21

- **Introduction to cyber security**, Ethical Hacking, Types and Kinds of Hackers, Phases of Hacking, Types of Ethical Hacking Certifications, Security Triangle, Cyber kill Chain.

- **Sniffing**, Introduction to Sniffing, Types of Sniffing, Practical Hands-on on Various Sniffing Techniques and Methodologies, Capturing Passwords with Wireshark.

- **Steganography & cryptography,** Introduction to Steganography & Cryptography, Types of Steganography & Cryptography, Hands-on on Various Steganography &Cryptography Tools, Extraction of Various Hidden Files/Information, and Text, Encryption and Decryption of Sensitive, Information.

- **Basic attacks and security**, Introduction to cyber security, basic phishing, advanced phishing, Gmail password cracking using memory analysis, IDN homograph attack, fake emails, header analysis, social engineering techniques.

- **Google hacks**, Introduction to cyber security, Google for hacking, using various operators of Google, Shodan search engine, finding network webcams, target networks, and vulnerable websites.

- **Wireless attacks**, Introduction to cyber security, introduction to wireless attacks, recovery of stored Wi-Fi passwords through general & advanced technique

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GENESIS TRAINING

MULTIPLE CHOICE QUESTIONS

COURSE NAME: Ethical Hacking and Cyber Security   ACADEMIC YEAR:2020-21
SEM: USN:

1. What is the ethics behind training how to hack a system?
a) To think like hackers and know how to defend such attacks
b) To hack a system without the permission
c) To hack a network that is vulnerable
d) To corrupt software or service using malware

2. Performing a shoulder surfing in order to check other's password is _____ ethical practice.
a) a good
b) not so good
c) very good social engineering practice
d) a bad

3. _____ has now evolved to be one of the most popular automated tools for unethical hacking.
a) Automated apps
b) Database software
c) Malware
d) Worms

4. Leaking your company data to the outside network without prior permission of senior authority is a crime.
a) True
b) False

5. _____ is the technique used in business organizations and firms to protect IT assets.
a) Ethical hacking
b) Unethical hacking
c) Fixing bugs
d) Internal data-breach

6. The legal risks of ethical hacking include lawsuits due to _____ of personal data.
a) stealing
b) disclosure
c) deleting
d) hacking

7. Before performing any penetration test, through legal procedure, which key points listed below is not mandatory?

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a) Know the nature of the organization
b) Characteristics of work done in the firm
c) System and network
d) Type of broadband company used by the firm

8. An ethical hacker must ensure that proprietary information of the firm does not get leaked.
a) True

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CYBER SECURITY AND ETHICAL HACKING

from 3 NOV 2020 to 10th NOV 2020

Akshay V Agasthya
Vice President - Learning and Development
Genesis Training, Bengaluru

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CURRICULUM

COURSE NAME: BIG DATA ANALYSTICS   ACADEMIC YEAR: 2020-21

- Handoop: Master your Big Data

- Hive: Big data SQL

- Sample Solution : Yellow taxi trip analysis using Hive

- Spark: Stream and Analyse the Big data

- Sample Solution: Churn analysis using Spark

- Apache kafka – Distributed Streaming Platform

- Advanced Spark

HG

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GENESIS T R A I N I N G

MULTIPLE CHOICE QUESTIONIRE

1. What is the primary goal of big data analytics?
a) To store large volumes of data
b) To analyze and extract insights from large datasets
c) To minimize data storage costs
d) To visualize data for easy interpretation

2. Which of the following is not a characteristic of big data?
a) Volume
b) Variety
c) Velocity
d) Validity

3. Which technology is commonly used for distributed storage and processing of big data?
a) Hadoop
b) MySQL
c) MongoDB
d) PostgreSQL

4. Which programming language is often used for big data processing and analysis?
a) Java
b) Python
c) C++
d) Ruby

5. What is the purpose of MapReduce in the context of big data processing?
a) To visualize data
b) To query large datasets
c) To store data in a distributed manner
d) To process large volumes of data in parallel

6. Which of the following is a commonly used tool for real-time processing of streaming data?
a) Apache Spark
b) Apache Hadoop
c) Apache Kafka
d) Apache Flink

7. What is the role of machine learning in big data analytics?
a) To create big data

H6 c

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b) To automate data processing tasks

c) To secure data storage

d) To organize data into relational databases

8. Which of the following is an example of structured data?

a) Social media posts

b) Sensor data from IoT devices

c) Images

d) Tabular data in a database

9. Which data storage technology is optimized for handling unstructured data?

a) Relational databases

b) NoSQL databases

c) Data warehouses

d) Data lakes

10. What is the main advantage of using cloud services for big data analytics?

a) Higher initial setup costs

b) Limited scalability

c) Pay-as-you-go pricing model

d) Lower security measures

11. What is the primary function of Big Data SQL?

a) Data visualization

b) Data analysis

c) Data storage

d) Data querying

12. Which technology is commonly used for querying Big Data using SQL?

a) Hadoop

b) Spark

c) Hive

d) Kafka

13. Which of the following SQL-on-Hadoop engines is known for its compatibility with Apache Hive?

a) Impala

b) Presto

c) Apache Drill

d) Apache Phoenix

14. What is the purpose of integrating SQL with Big Data technologies?

a) To improve data storage efficiency

b) To enable traditional SQL queries on Big Data platforms

c) To eliminate the need for data visualization tools

d) To increase data security

15. Which of the following is a benefit of using SQL for querying Big Data?
a) Limited scalability
b) Complex syntax
c) Familiarity for SQL-trained professionals
d) Slow query performance

16. What is the role of a query optimizer in Big Data SQL?
a) To improve query performance
b) To encrypt data
c) To store metadata
d) To distribute data evenly

17. Which SQL function is commonly used for aggregating data in Big Data SQL?
a) SUM()
b) JOIN()
c) SUBSTRING()
d) GROUP BY()

18. Which Big Data SQL feature allows users to query data across multiple data sources seamlessly?
a) Federation
b) Partitioning
c) Replication
d) Indexing

19. Which of the following is NOT a typical characteristic of Big Data SQL?
a) Real-time querying capabilities
b) Scalability
c) High availability
d) Limited data variety support

20. Which SQL clause is used to filter data in Big Data SQL?
a) SELECT
b) FROM
c) WHERE
d) GROUP BY

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BIGDATA ANAYTICS

from 3 NOV 2020 to 10th NOV 2020

Akshay V Agasthya
Vice President - Learning and Development
Genesis Training, Bengaluru

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CURRICULUM

COURSE NAME: MACHINE LEARNING

ACADEMIC YEAR: 202021

LEARNING Machine Learning:

- Machine Learning Introduction
- Python for Machine Learning
- Preparing and Learning about Data
- Data Visualisation
- Supervised Machine Learning
- Unsupervised Machine Learning
- Machine Learning Model Deployment
- Reinforcement Learning
- Automated Machine Learning (AutoML)
- Deep Learning
- Model Evaluation and Selection
- Ethical and Fairness Considerations
- Quantum Machine Learning
- Recurrent Neural Networks (RNNs)

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GENESIS TRAINING

GENESIS T R A I N I N G

MULTIPLE CHOICE QUESTIONIRE

COURSE NAME: Machine Learning

SEM:

ACADEMIC YEAR:

USN:

1. Which of the following is NOT a type of machine learning?
a) Supervised Learning
b) Unsupervised Learning
c) Reinforcement Learning
d) Deterministic Learning

2. What is the primary goal of supervised learning?
a) To find hidden patterns in data
b) To maximize rewards through trial and error
c) To make predictions based on labeled data
d) To group data points into clusters

3. Which algorithm is commonly used for classification tasks in machine learning?
a) K-means clustering
b) Linear regression
c) Decision trees
d) PCA (Principal Component Analysis)

4. What evaluation metric is typically used for binary classification problems?
a) Mean Absolute Error (MAE)
b) Root Mean Squared Error (RMSE)
c) Accuracy
d) R-squared (R2)

5. Which of the following is an example of an unsupervised learning algorithm?
a) K-nearest neighbors (KNN)
b) Support Vector Machine (SVM)
c) K-means clustering
d) Decision trees

6. What does a confusion matrix represent in the context of machine learning?
a) A matrix showing the correlation between features in a dataset
b) A matrix showing the distribution of classes predicted by a model compared to the actual classes
c) A matrix used to calculate the gradient during backpropagation in neural networks
d) A matrix representing the variance of features in a dataset

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7. Which activation function is commonly used in the output layer of a binary classification neural network?
a) ReLU (Rectified Linear Unit)
b) Sigmoid
c) Tanh (Hyperbolic Tangent)
d) Softmax

8. Which technique is used to combat overfitting in machine learning models?
a) Increasing the model complexity
b) Decreasing the amount of training data
c) Regularization
d) Using a large learning rate

9. Which library is commonly used for building and training deep learning models in Python?
a) SciPy
b) Matplotlib
c) TensorFlow
d) NumPy

10. What is the purpose of feature scaling in machine learning?
a) To reduce the number of features in a dataset
b) To increase the interpretability of the model
c) To ensure that features have the same scale or range
d) To add new features to the dataset

11. What is the purpose of cross-validation in machine learning?
a) To divide the dataset into training and test sets
b) To assess how well a model generalizes to unseen data
c) To visualize the distribution of data points
d) To train multiple models simultaneously

12. In the context of feature selection, what does the term "curse of dimensionality" refer to?
a) The difficulty of visualizing high-dimensional data
b) The challenge of selecting the most relevant features from a large number of options
c) The tendency of models to overfit when trained on datasets with many features
d) The exponential increase in computational resources required as the number of features grows

13. Which algorithm is suitable for handling imbalanced datasets in classification tasks?
a) Decision trees
b) K-means clustering
c) Random Forests

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Vice President - Learning and Development
Genesis Training, Bengaluru

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VALUE ADDED COURSES

SLNO	ACADMIC YEAR	COURSE NAME
1	2021-22	• ARTIFICIAL INTELLIGENCE • DEEP LAENING • AGILE TECHNOLOGY & SCRUM

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CURRICULUM

COURSE NAME: CRASH COURSE ON ARTIFICIAL INTELLIGENCE
ACADEMIC YEAR: 2021-22

- Introduction to Artificial Intelligence

- Introduction to Neural Networks and Deep Learning

- Multilayer Preceptron

- Introduction to Tensorflow and Keras

- Back Propagation

- Batch Normalization

- Neural Networks in R

- Stock Price Predictions using Deep Learning

- Learning Videos – Bank Defaulters using ANN

- Introduction to NLP

- Textblob

- Machine Transaltion

- Text Classification in NLP

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GENESIS TRAINING

MULTIPLE CHOICE QUESTIONIRE

COURSE NAME: ARTIFICIAL INTELLIGENCE   **ACADEMIC YEAR:**

SEM: **USN:**

Q1.Which of the following is not a type of AI?

A) Artificial Narrow Intelligence (ANI)
B) Artificial General Intelligence (AGI)
C) Artificial Super Intelligence (ASI)
D) Artificial Simple Intelligence (ASI)

Q2. What is the primary goal of machine learning?

A) To develop software that can think
B) To enable machines to make decisions based on data
C) To create a general AI
D) To replicate human emotions in machines

Q3.Which algorithm is used for supervised learning?

A) K-means Clustering.
B) Apriori.
C) Decision Trees.
D) DBSCAN.

Q4. What is the main difference between supervised and unsupervised learning?

A) Supervised learning uses labeled data, while unsupervised learning uses unlabeled data
B) Supervised learning does not require a training phase
C) Unsupervised learning provides feedback to the system
D) There is no difference:

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Q5.Which of the following is an example of reinforcement learning?

A) Training a model to recognize images of cats
B) Teaching an AI to play chess by playing against itself
C) Clustering similar customer data
D) Finding the shortest path in a graph.

Q6.Which of the following is a popular programming language for AI development?

A) HTML
B) CSS
C) Python
D) SQL

Q7.In natural language processing (NLP), what does "tokenization" refer to?

A) Combining multiple words into a single token
B) Splitting text into individual words or phrases
C) Translating text from one language to another
D) Removing stop words from the text

Q8.What is a neural network's basic building block?

A) Neuron
B) Node
C) Synapse
D) Layer

Q9.Which of the following is not a component of a typical neural network?

A) Input layer
B) Hidden layer
C) Output layer
D) Command layer

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A) Clustering
B) Linear Regression
C) Decision Trees
D) Both B and C

Q11. What is a neural network?

A) A type of programming language
B) A set of algorithms modeled loosely after the human brain
C) A hardware component used in computers
D) A type of database

Q12.In a neural network, what is the role of the activation function? A) To initialize the weights
B) To transform the input into a usable output
C) To adjust the learning rate
D) To add non-linearity to the model

Q13.Which of the following is a popular activation function in neural networks?
A) Sigmoid
B) ReLU (Rectified Linear Unit)
C) Tanh
D) All of the above

14.Which of the following is not a layer type typically found in a Convolutional Neural Network (CNN)?

A) Convolutional layer
B) Pooling layer

C) Fully connected layer

D) Recurrent layer

Q15.Which R package is commonly used for creating neural networks?

A) ggplot2

B) dplyr

C) neuralnet

D) caret

Q16.What function in the neuralnet package is used to train a neural network model?

A) train()

B) neuralnet()

C) fit()

D) model().

Q17.Which function in R can be used for cross-validation when training neural networks?

A) cv.glm()

B) cv.neuralnet()

C) kfold()

D) crossval()

Q18. To scale the input data for a neural network in R, which package is commonly used?

A) scale

B) dplyr

C) caret

D) normalize

Q19.Which parameter in the `neuralnet` function determines the
for the training process?

A) stepmax
B) max.steps
C) epochs
D) iter.max

Q20.What type of neural network can be created using the `neuralnet` package?
A) Convolutional Neural Network (CNN)
B) Recurrent Neural Network (RNN)
C) Feedforward Neural Network
D) Generative Adversarial Network (GAN)

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course on

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Akshay V Agasthya
**Vice President - Learning and
Development**
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Dr. H.G. Chandrakanth
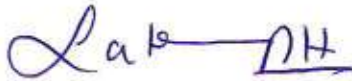**Principal**
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GENESIS TRAINING

COURSE NAME: DEEP LEARNING   **ACADEMIC YEAR: 2021-22**

- Introduction to Deep Learning, Bayesian Learning, Decision Surfaces

- Introduction Convolution Neural Network,

- Introduction to Neural Network, Multilayer Perceptron,

- Unsupervised Learning with Deep Network

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MULTIPLE CHOICE QUESTIONIRE

COURSE NAME: DEEP LEARNING

SEM:

ACADEMIC YEAR:

USN:

Q1. Which of the following statement(s) correctly represents a real neuron?

A. A neuron has a single input and a single output only

B. A neuron has multiple inputs but a single output only

C. A neuron has a single input but multiple outputs

D. A neuron has multiple inputs and multiple outputs

E. All of the above statements are valid

Q2. Will a line equation $(y = mx + c)$ fall into the category of a neuron?

A. Yes B. No

Q3. Suppose X1 is 0 and X2 is 1 its XOR, what will be the output for the above neural network?

A. 0   B. 1

Q4. In a neural network, knowing the weight and bias of each neuron is the most important step. If you can somehow get the correct value of weight and bias for each neuron, you can approximate any function. What would be the best way to approach this?

A. Assign random values and pray to God they are correct

B. Search every possible combination of weights and biases till you get the best value

C. Iteratively check that after assigning a value how far you are from the best values, and slightly change the assigned values values to make them better

D. None of these

Q5 When does a neural network model become a deep learning model?

A. When you add more hidden layers and increase depth of neural networkB. When there is higher dimensionality of data

C. When the problem is an image recognition problem

D. None of these

Q6. "Convolutional Neural Networks can perform various types of transformation (rotations or scaling) in an input". Is the statement correct True or False?

A. True

B. False

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Q7. Which of the following techniques perform similar operations as dropout in a neural network?

.A Bagging
B. Boosting
C. Stacking
D. None of these

Q 8. Which of the following gives non-linearity to a neural network?
A. Stochastic Gradient Descent
B. Rectified Linear Unit
C. Convolution function
D. None of the above

Q9 Which of the following is true about model capacity (where model capacity means the ability of neural network to approximate complex functions) ?
A. As number of hidden layers increase, model capacity increases
B. As dropout ratio increases, model capacity increases
C. As learning rate increases, model capacity increases
D. None of these

Q10. If you increase the number of hidden layers in a Multi Layer Perceptron, the classification error of test data always decreases.

A. True B. False

Q11 What is the sequence of the following tasks in a perceptron?
1. Initialize weights of perceptron randomly
2. Go to the next batch of dataset
3. If the prediction does not match the output, change the weights
4. For a sample input, compute an output

A. 1, 2, 3, 4   B. 4, 3, 2, 1 C. 3, 1, 2, 4 D. 1, 4, 3, 2

Q12. Suppose that you have to minimize the cost function by changing the parameters. Which of the following technique could be used for this?
A. Exhaustive Search   B. Random Search C. Bayesian Optimization
D. Any of these

Q12 Can a neural network model the function (y=1/x)?
A. Yes B. No

Q13 In which neural net architecture, does weight sharing occur?
A. Convolutional neural Network
B. Recurrent Neural Network
C. Fully Connected Neural Network

D. Both A and B

Q14 Batch Normalization is helpful because

A. It normalizes (changes) all the input before sending it to the next layer
B. It returns back the normalized mean and standard deviation of weights
C. It is a very efficient back propagation technique
D. None of these

Q15. The number of neurons in the output layer should match the number of classes (Where the number of classes is greater than 2) in a supervised learning task. True or False?
A. True B. False

Q16. In a neural network, which of the following techniques is used to deal with overfitting?
A. Dropout
B. Regularization
C. Batch Normalization
D. All of these

Q17. What is a dead unit in a neural network?
A. A unit which doesn't update during training by any of its neighbor
B. A unit which does not respond completely to any of the training patterns
C. The unit which produces the biggest sum-squared error
D. None of these

Q18. Suppose a convolutional neural network is trained on ImageNet dataset (Object recognition dataset). This trained model is then given a completely white image as an input.The output probabilities for this input would be equal for all classes. True or False?

A. TrueB. False

Q19. When pooling layer is added in a convolutional neural network, translation invariance is preserved. True or False?

A. TrueB. False

Q20.Which gradient technique is more advantageous when the data is too big to handle in RAM simultaneously?
A. Full Batch Gradient Descent B. Stochastic Gradient Descent

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CURRICULUM

COURSE NAME: AGILE TECHNOLOGIES & SCRUM   ACADEMIC YEAR: 2021-22

LEARNING AGILE:

- Agile methodology
- The purpose of each practice in Agile.
- The first steps followed in the new methodology

AGILE PRINCIPLES

- Principles of Agile software.
- Effective communication in Agile
- connections among the principles of Agile

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GENESIS TRAINING

MULTIPLE CHOICE QUESTIONIRE

COURSE NAME: AGILE TECHNOLOGY AND SCRUM   ACADEMIC YEAR:
SEM:
                                                                USN:

Q #1) Which of the following is delivered at the end of the Sprint?
a. A document containing test cases for the current sprint
b. An architectural design of the solution
c. An increment of Done software
d. Wireframes designs for User Interface

Q #2) Product Backlog should be ordered on the basis of?
a. Value of the items being delivered
b. The complexity of the items being delivered
c. Size of the items being delivered
d. The risk associated with the items
e. Based on the Scrum Team choice

Q #3) In an Agile environment, what is the main responsibility of a tester?
a. Create test scenarios and test cases
b. Finding bugs
c. Create automation scripts
d. Send test execution reports to the stakeholders
e. There is no role as a Tester in Scrum

Q #4) When is a Sprint Retrospective ceremony performed?
a. Whenever the team suggests
b. At the end of each Sprint
c. Whenever needed
d. Whenever the Product Owner suggests
e. Whenever the Scrum Master suggests

Q #5) When can a Sprint be canceled?
a. The Sprint items are no longer needed
b. Sprint can never be canceled
c. When Development is unable to complete the work
d. Information required to start the development is not available

Q #6) What should a Development Team do during a Sprint Planning meeting when they have realized that they have selected more than the items they can complete in a Sprint?

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a. Get more developers onboard
b. Seek help from the other Scrum Team Members
c. Work overtime
d. Inform the Product Owner
e. Take a call to remove some of the Sprint Backlog Items

Q #7) Who is responsible to measure the Project's performance?
a. The Scrum Master
b. The Delivery Manager
c. The Product Owner
d. The Development Team
e. The Scrum Team

Q #8) What are the main responsibilities of a self-organizing development team?
a. Develop the Sprint Backlog items
b. Estimate the items to be picked up for the upcoming Sprint
c. Monitor the Project's performance and send a report to stakeholders
d. Create new Product Backlog items
e. Tasking the current Sprint Items

Q #9) What does a Burn Down Chart display?
a. Project Progress
b. Amount of remaining work with respect to time
c. The velocity of the team
d. The capacity of the team members
e. How many more items can be picked up in a Sprint

Q #10) What are the main responsibilities of a Scrum Master?
a. Removing Impediments
b. Facilitating meeting as and when requested
c. Helps the Product Owner order the Product Backlog
d. Consulting the Development Team and Product Owner
e. Bridging the Gap between the Team and the Customer

Q #11) In Scrum, when is a Sprint Over?
a. When all the Sprint Backlog Items are completed
b. When the Product Owner suggests
c. When all the Sprint Backlog tasks are completed
d. When the final testing is completed
e. When the time box expires

Q #12) What is the significance of determining a Definition of Done?
a. Determines the objective behind each sprint
b. Determines the number of tasks being completed for each Sprint Backlog item
c. Increases Transparency
d. Increments delivered are more effective and potentially releasable

e. Develops a common understanding amongst all the team members as to what all needs to be completed to mark every item complete.

Q #13) What is done during a Sprint Review Meeting?
a. Demo of the Increment
b. The team discusses the improvements that can be applied for the upcoming sprints
c. Present the Project's performance to the Stakeholders
d. Inspect progress towards the Sprint Goal
e. Discuss the architectural and technical aspects of the project

Q #14) What is a Sprint Review?
a. Activity to Introspect and Adapt
b. Activity to improve Scrum Processes
c. Activity to seek approval for the work done
d. Activity to plan for the next Sprint
e. Activity to plan for the release

Q #15) What do we mean by a cross-functional Development Team?
a. Each of the Development Team members should be cross-functional
b. The developer should able to create test cases and execute them
c. The Development Team should collaborate with the other Development Teams
d. The Development Team consist of Developers and Testers
e. The Development Team should have all the skills necessary to deliver the Done Increment

Q #16) Who should necessarily attend the Daily Standup meeting?
a. The Development Team
b. The Scrum Team
c. The Development Team and the Product Owner
d. The Development Team and the Scrum Master
e. The Scrum Team and the Stakeholders
Q #17) What happens when all the Sprint Items cannot be completed?
a. The Sprint should be extended
b. The Sprint ends with the done items
c. The Sprint should be canceled
d. The unfinished Sprint items should be removed from the Sprint Backlog
e. Start the next Sprint with the unfinished items first
Q #18) What should be the size of the Development Team?
a. 5+-3
b. 5+-4
c. 6+-4
d. 6+-3
e. 6+-2
Q #19) What activities are a part of Product Backlog Refinement?
a. Estimate the Product Backlog Items
b. The ordering of the Product Backlog Items
c. Creating the Definition of Done

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d. Creation of tasks
e. Brainstorming on the Product Backlog Items
Q #20) Which of the following activity is not time boxed?
a. Sprint Retrospective
b. Sprint
c. Product Backlog Refinement
d. Daily Scrum
e. Sprint Review

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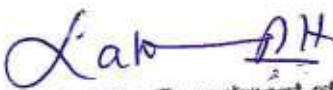
SAMBHRAM INASTITUTE OF TECHNOLOGY
DEPARTMENT OF INFORAMTION SCIENCE AND ENGINEERING
VALUE ADDED COURSES

SLNO	ACADMIC YEAR	COURSE NAME
1	2022-23	• WEB DEVELOPMENT • DATA SCIENCE • ARTIFICAL INTEELIGENCE

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CURRICULUM

COURSE NAME: WEB DEVELOPER FUNDAMENTS ACADEMIC YEAR: 2022-23

LEARNING DREAMWEAVER CC :
- Inroduction to dreamweaver cc.
- The purpose of each practice in Dreamweaver cc.
- The steps followed in the Dreamweaver cc.

LEARNING HTML,CSS &XML :
- Inroduction to html&css
- The purpose of each practice in html&css.
- The steps followed in the html&css.
- The steps followed in the xml.

LEARNING BOOTSTRAP:
- Inroduction to bootstrap.
- The purpose of each practice in bootstrap.
- The steps followed in the bootstrap.

LEARNING JQUERY:
- Inroduction to jquery.
- The purpose of each practice in jquery.
- The steps followed in the jquery.

LEARNING ANGULARJS:
- Inroduction to angularjs.
- The purpose of each practice in angularjs.
- The steps followed in the angularjs.

LEARNING PYTHON:
- Inroduction to python.
- The purpose of each practice in python.
- The steps followed in the python.

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COURSE NAME:WEB DEVELOPER FUNDAMENTS   ACADEMIC YEAR: 2022-23
SEM   **USN**

ASSIGNMETS/QUIZ
https://www.udemy.com/course/become-a-web-
developer/learn/lecture/21821568?start=210#overview

udemy

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Instructors Fatah Gabrial

Jayanth.P

Date June 12, 2023

Length 33.5 total hours

Certificate no: UC-988176ec-255c-4fcc-847e-0d...

Certificate url: ude.my/UC-988176ec-255c-4fcc-847e-0d79...

Reference Number: ...099

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CURRICULUM

COURSE NAME: Data Science   **ACADEMIC YEAR: 2022-23**

MODULE

- Career insights in Data Science
  - What is Data Science?
  - Why Data Science?
  - Data Science Jobs Roles
  - Tools for Data Science

- Introduction to Data Science and field clarity
  - Understanding Data Science Discipline
  - Difference between Data Science, Machine Learning
  - Motivation & Inspiration to start a career in Data Science/AI/ML Field
  - Traditional Approach v/s Data Science Approach
  - Data Science Application explained with Real-world problem

- Business Analytics with Excel
  - Understanding Business Metrics
  - Learn Business Analytics with Excel

- o Business Analytics with Excel(Basics, Functions, Pivot Tables, Dashboarding,
- o Business Analytics, Stats)
- o Advance Data Visualization
- Fundamentals of SQL
  - o Introduction to Database
  - o Introduction to MySQL and NoSQL for Data Science
  - o DDL v/s DML v/s DCL v/sTCL
  - o Basics of Database
  - o Basic and Advanced Queries
  - o Filtering Data using WHERE and ORDER BY Clause
  - o Displaying Data from Multiple tables
- Python for Data Science
  - o Introduction to Anaconda
  - o Overview of Anaconda and Jupyter Notebook
  - o Python or R Language, what to learn?
  - o Basics of Python Programming
  - o Python Functions and Classes
  - o Solving Basic Programs in Python
  - o Data Wrangling using NumPy
  - o Data Wrangling using Pandas
  - o Python for Visualization: Matplotlib & Seaborn

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MULTIPLE CHOICE QUESTIONIRE

COURSE NAME: Data Science

SEM:

1. Among the below, what is not a data type in Tableau?
   - o Numerical
   - o Strings
   - o Boolean
   - o None of the Above

2. Join is mandatory if we have 2 tables in logic but we have to extract output from only one of the tables
   - o True
   - o False

3. Find the mode in the following numbers: 9,8,15,8,20
   - o 15
   - o 8
   - o 9
   - o 20

4. Performance testing can be done by loading Testing Tableau Server with TabJolt
   - o True
   - o False

5. Sheets can be saved on local machine when using tableau public
   - o True
   - o False

6. Excel can be called as
   - o Spreadsheet
   - o Word Processing
   - o Presentation program
   - o None of these

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THIS CERTIFICATE IS AWARDED TO

Pradeep M

for Successfully Completing Learning Path in

Data Science

March 20, 2023

ISSUED DATE

Sumesh

CEO, Board Infinity
Sumesh Nair

BI22AD33455329

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CURRICULUM

COURSE NAME: AI   **ACADEMIC YEAR: 2022-23**

- Introduction to Artificial Intelligence

- Introduction to Neural Networks and Deep Learning

- Multilayer Preceptron

- Introduction to Tensorflow and Keras

- Back Propagation

- Batch Normalization

- Neural Networks in R

- Stock Price Predictions using Deep Learning

- Learning Videos – Bank Defaulters using ANN

- Introduction to NLP

- Textblob

- Machine Transaltion

- Text Classification in NLP

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Department of ISE
Consolidated Details-2023-24 Value Added Course

Sl.	Name of student	Name of course	Company Name	Hours	Signature
1	Bindu H L	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	Bidu HL
2	Deepak S	MACHINE LEARING	Dotch Endeavours Pvt.Ltd	30	
3	Bharath Gowda R	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	
4	Mohith G	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	Mohith
5	Bharath kumar H N	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	Bharath Kumar HN
6	Raunak RAJ	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	
7	N R Divya Ram	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	NR Divya Ram
8	Nandish R	MACHINE LEARING	Dotch Endeavours Pvt.Ltd	30	
9	Rishikesh Ranjan	Artificial Intelligence	Great Learing Academy	30	Rishikesh Ranjan
10	Rohini Reddy	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	R.
11	Kumarswamy S	MACHINE LEARING	Dotch Endeavours Pvt.Ltd	30	
12	Vivek Murthy S R	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	Vivek Murthy
13	Jaleti lokesh sai	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	
14	Navya N	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	
15	Darshan P C	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	DarshanPC
16	Jayin Tech	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	
17	Prince Raj	Advanced Wireless Hacking	INFOSYS/Springboard	30	Prince Raj
18	Vinay K V	Advanced Wireless Hacking	INFOSYS/Springboard	30	Vinay KV
19	Prathima K	MACHINE LEARING	Dotch Endeavours Pvt.Ltd	30	Prathima-k
20	Neetu Kumari	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	Netu Kumari
21	Shobitha R	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	Shobitha R
22	Chandana G	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	Chandana-G
23	Nandan V	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	
24	Ajay D Hegde	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	
25	Arjita Awasthi	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	
26	Arya Mishra	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	
27	Prajwal Gowda	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	Arya
28	Girish R	MACHINE LEARING	Dotch Endeavours Pvt.Ltd	30	Prajwal
29	N Thippeswamy	MACHINE LEARING	Dotch Endeavours Pvt.Ltd	30	
30	Phalguni Jogi BR	MACHINE LEARING	Dotch Endeavours Pvt.Ltd	30	
31	Swetha V M	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	Phaya
32	Vaishnavi Gopal Bhat	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	Swetha.VM
33	Lisha D Gowda	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	Vishal
34	Keerthana Gururaj	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	Lishagoda
35	Noor Unnisa	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	Keertha
36	Smrity Rani	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	R
37	Anamika Kumari	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	Smrity Rani
38	Bhavana Gowda	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	
39	Sirisha D	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	Bhavana G
40	Ramya T	MACHINE LEARING	Dotch Endeavours Pvt.Ltd	30	Shisha
41	Shoban Babu	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	Ramya T
42	Swapne E	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	
43	A P Tejasri	UNIX &Linux OS Fundamentals	INFOSYS/Springboard	30	Swapne
44	Vijeth R V	Newbie to Pro Web Bootcamp	Udemy	30	Tejasri
				30	Vijeth

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98	M J Rakshitha	Data Science	BOARD INFINITY	30	Rakshitha
99	Amulya R	Data Science	BOARD INFINITY	30	Amulya
100	Kushal L Gowda	Cybersecurity Essentials	CISCO Networking	30	Kushal
101	Supreeth C	Data Science	BOARD INFINITY	30	Smith
102	Suneela R	Machine Learning Models	VOIS	30	Suneela.R
103	Shreya K N	Digital101 Journey	NASSCOM	30	Shreya K N
104					Shreya
105	Sharanya D	Digital101 Journey	NASSCOM	30	Sharanya
106	Anvitha S M	Data Science	BOARD INFINITY	30	Anvitha S M
107	Jeevan Jeeva	Data Science	BOARD INFINITY	30	Jeevan
108	Harshitha	Digital101 Journey	NASSCOM	30	Harshitha.B
109	Aishwaryagowda M	Data Science	BOARD INFINITY	30	
110	Bhumika D	Data Science	BOARD INFINITY	30	Bhumika
111	Sagar D	Data Science	BOARD INFINITY	30	Sagar.D
112	Kanika Kumari	Data Science	BOARD INFINITY	30	Kani
113	Thilak B K	Digital101 Journey	NASSCOM	30	Thil
114	SreeDevi	Data Science	BOARD INFINITY	30	Sreedevi
115	Varsha Sagar	Digital101 Journey	NASSCOM	30	Varsha
116	Vinisha K	Data Science	BOARD INFINITY	30	Vish
117	Prarthana K N	Data Science	BOARD INFINITY	30	Prarthana KN
118	Prerana R Hiremath	Virtual Internship program	ICTACADEMY	30	preranaH
119	Abhijeet Kumar	Java Full Stack Web Development	CA	30	Abhijeet
120	Saksham Shreyansh	Java Full Stack Web Development	CA	30	Saksham
121	Ashish Kumar Das	Java Full Stack Web Development	CA	30	Ashish
122	Guru Prasad	Cybersecurity Essentials	CISCO Networking	30	S.Guruy
123	Amulya R	Data Science	BOARD INFINITY	30	
124	M J Rakshitha	Data Science	BOARD INFINITY	30	Rakshith
125	Pavithra S	Digital101 Journey	NASSCOM	30	Pavithra.S
126	Nagaraj H	Data Science	BOARD INFINITY	30	Nagaraj
127	Aabha	Data Science	BOARD INFINITY	30	aabha
128	Bishakha debanath	Web Development Internship program	The website Maker	30	Bishaka
129	Gowrav gowda	Data Science	BOARD INFINITY	30	gowrav
130	Kiran S	Data Science	BOARD INFINITY	30	Kiran

2022-23

Sl.	Name of student	Name of course	Company Name	Hours	Signature
1	Harshitha	Python for beginners	Skillup	30	Harshitha.B
2	Vinisha K	Python for beginners	Skillup	30	Vish
3	Kiran S	DATASCIENCE	Pantech e Leanring Pvt, Ltd	30	Kiran
4	Impana K B	DATASCIENCE	Pantech e Leanring Pvt, Ltd	30	Impana k
5	Aabha pandey	Masterclasas OnAmazon Web Services	Pantech e Leanring Pvt, Ltd	30	aabh
6	Sanjay G	Masterclass on Internet of Things	Pantech e Leanring Pvt, Ltd	30	Sanjo
7	Dhanyashree L	Masterclass on Electric Vehicle Design	Pantech e Leanring Pvt, Ltd	30	Dhanyshree
8	Tanushree C M	Masterclass on Electric Vehicle Design	Pantech e Leanring Pvt, Ltd	30	Tanushri
9	Dhanushree B	Masterclass on Electric Vehicle Design	Pantech e Leanring Pvt, Ltd	30	Dhany
10	Mr.Mohan Rao	Masterclass on python fullstack	Pantech e Leanring Pvt, Ltd	30	

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43	Sushan J S	Masterclass on Data Analytics	Pantech e Leanring Pvt, Ltd	30	
44	Hanumanth Gowda V	Masterclass on Internet of Things	Pantech e Leanring Pvt, Ltd	30	
45	Amulya R	Masterclass on Data Analytics	Pantech e Leanring Pvt, Ltd	30	
46	Anvitha SM	Masterclass on Data Analytics	Pantech e Leanring Pvt, Ltd	30	Anvitha S. M
47	Darshan G S	Masterclass on Electric Vehicle Design	Pantech e Leanring Pvt, Ltd	30	
48	S Guruprasad	Masterclasas On Amazon Web Services	Pantech e Leanring Pvt, Ltd	30	S. Guru...
49	Thilak B K	DATASCIENCE	Pantech e Leanring Pvt, Ltd	30	
50	Jeevan S Y	Masterclass on python fullstack	Pantech e Leanring Pvt, Ltd	30	
51	Rakshitha M J	Masterclass on python fullstack	Pantech e Leanring Pvt, Ltd	30	
52	Sreedevi N B	Masterclass on Electric Vehicle Design	Pantech e Leanring Pvt, Ltd	30	Sreedevi N B
53	Sowjanya N	Masterclass on Data Analytics	Pantech e Leanring Pvt, Ltd	30	Sowjanya N.
54	Kanika K	Introduction to Cyber security	Skilllep	30	Kani...
55	Vinayaka C	Masterclass on Artificial Intelligence	Pantech Prolabs India Pvt	30	
56	Deekshitha S	Masterclass on Data Analytics	Pantech e Leanring Pvt, Ltd	30	
57	Shreya K N	Masterclasas On Amazon Web Services	Pantech e Leanring Pvt, Ltd	30	Shreya KN
58	Bhavya K	Masterclass on Data Analytics	Pantech e Leanring Pvt, Ltd	30	
59	Ithihas M S	Digital 101 Journey	NASSCOM	30	
60	Suneela R	Google Flutter&Dart	TDA	30	Suneela.R.
61	~~Suneel~~	~~skillBuild program~~	~~eedunet~~	30	
62	Aishwarya M Y	Masterclasas On Amazon Web Services	Pantech e Leanring Pvt, Ltd	30	
63	Prarthana K N	Ethical Hacking	Great Learing	30	Prarthana KN
64	Mayukhi Eshwar	Enablement program	paypal	30	
65	Nayanashree S L	Enablement program	paypal	30	
66	Jayanth P	Front-End Web Development Course	Udemy	30	
67	Lipika V	MEAN Stack Development	LERNX	30	Lipika
68	Divya D H	Artificial Intelligence	Great Learing Academy	30	Divya
69	Ali Akbar P	Python for Data Science	Lernx	30	Ali
70	Priyanka S	DSA and IOT program	iNeuron	30	
71	Divya D H	MEAN Stack Development	Lernx	30	divya
72	Lipika Vijay	Front-End Development	Great Learning	30	Lipika

2021-2022

Sl.	Name of student	Name of course	Company Name	Hours	Signature
1	ALI AKBAR P	Artificial Intelligence	GENSIS	30	Ali
2	DIVYA D H	Artificial Intelligence	GENSIS	30	Divya
3	JAYANTH P	Artificial Intelligence	GENSIS	30	Jayanth
4	LIPIKA	Artificial Intelligence	GENSIS	30	Lipik
5	PRIYANKA S	Artificial Intelligence	GENSIS	30	Priya
6	Bindu.K (SC)	Deep learning	GENSIS	30	

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2020-2021

Sl.	Name of student	Name of course	Company Name	Hours	Signature
1	Bindu.K (SC)	Cyber security and ethical hacking	GENSIS	30	
2	Chandan mk	Cyber security and ethical hacking	GENSIS	30	
3	Harshith H R	Cyber security and ethical hacking	GENSIS	30	
4	Harshitha S C	Cyber security and ethical hacking	GENSIS	30	
5	Mayukhi Eshwar	Cyber security and ethical hacking	GENSIS	30	
6	Mohammed binyamin	Cyber security and ethical hacking	GENSIS	30	
7	Naveen s kumasgi	Cyber security and ethical hacking	GENSIS	30	
8	Nayanashree (SC)	Cyber security and ethical hacking	GENSIS	30	
9	Somnath Roy	Cyber security and ethical hacking	GENSIS	30	
10	Srusti totagi	Cyber security and ethical hacking	GENSIS	30	
11	Surya Prakash	Cyber security and ethical hacking	GENSIS	30	
12	Thanushree .K	Cyber security and ethical hacking	GENSIS	30	
13	Vidyasagar K M	Cyber security and ethical hacking	GENSIS	30	
14	Anurag Singh	Cyber security and ethical hacking	GENSIS	30	
15	Chethan.C.Gowda	Cyber security and ethical hacking	GENSIS	30	
16	Nuthan Prasad Babu	Cyber security and ethical hacking	GENSIS	30	
17	Shallet. Clinton	Cyber security and ethical hacking	GENSIS	30	
18	Suhas D Rao	Cyber security and ethical hacking	GENSIS	30	
19	Varun T	Cyber security and ethical hacking	GENSIS	30	
20	Ashitosh Biradar	Cyber security and ethical hacking	GENSIS	30	
21	ESTHER P	Big data analytics	GENSIS	30	
22	Abhishek Kumar	Big data analytics	GENSIS	30	
23	Amrutha p	Big data analytics	GENSIS	30	
24	Ashritha s	Big data analytics	GENSIS	30	
25	Ayesha siddiqua	Big data analytics	GENSIS	30	
26	Deepanshu kumar	Big data analytics	GENSIS	30	
27	Dheemanth T	Big data analytics	GENSIS	30	
28	Dhruvil Sorathia	Big data analytics	GENSIS	30	
29	Gowtham gowda MC	Big data analytics	GENSIS	30	
30	Karthik Adiga	Big data analytics	GENSIS	30	
31	Manish C	Big data analytics	GENSIS	30	
32	Mohammad Aatif Salir	Big data analytics	GENSIS	30	
33	Murali S	Big data analytics	GENSIS	30	
34	Poornima Hegde	Big data analytics	GENSIS	30	
35	Prathibha m	Big data analytics	GENSIS	30	
36	Roopa G	Big data analytics	GENSIS	30	
37	Shalini SR	Big data analytics	GENSIS	30	
38	Srilekha.G	Big data analytics	GENSIS	30	
39	Suraj kumar Sah	Big data analytics	GENSIS	30	
40	Suraj Prasad Chourasiy	Big data analytics	GENSIS	30	
41	Vaishnavi B R	Big data analytics	GENSIS	30	
42	Vikas L Halikatti	Big data analytics	GENSIS	30	
43	ADITYA ANIL	Machine learning	GENSIS	30	
44	ANUSHREE MR	Machine learning	GENSIS	30	
45	APTHASHREE T P	Machine learning	GENSIS	30	
46	ARPITHA G REDDY	Machine learning	GENSIS	30	
47	BHAVANA N B	Machine learning	GENSIS	30	
48	BHOOMIKA K B	Machine learning	GENSIS	30	
49	BHOOMIKA L	Machine learning	GENSIS	30	
50	BHOOMIKA N	Machine learning	GENSIS	30	
51	BIKKY KUMAR S	Machine learning	GENSIS	30	
52	CHAITHRA B R	Machine learning	GENSIS	30	
53	DARSHAN G	Machine learning	GENSIS	30	

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15	Prathibha m	Python	GENSIS	30	
16	Roopa G	Python	GENSIS	30	
17	Shalini SR	Python	GENSIS	30	
18	Srilekha.G	Python	GENSIS	30	
19	Suraj kumar Sah	Python	GENSIS	30	
20	Suraj Prasad Chourasiy	Python	GENSIS	30	
21	Vaishnavi B R	Python	GENSIS	30	
22	Vikas L Halikatti	Python	GENSIS	30	
23	ANAMIKA SINGH	IOT	GENSIS	30	
24	A P PRATYUSHA	IOT	GENSIS	30	
25	ABHISHEK SINGH	IOT	GENSIS	30	
26	AKHILA K	IOT	GENSIS	30	
27	ANUSHA K	IOT	GENSIS	30	
28	ANUSHA P	IOT	GENSIS	30	
29	BHAVANA H N	IOT	GENSIS	30	
30	CHAITRA G R	IOT	GENSIS	30	
31	HARSHITHA N	IOT	GENSIS	30	
32	HIMA BINDU M	IOT	GENSIS	30	
33	MEERA E	IOT	GENSIS	30	
34	NITHYA D	IOT	GENSIS	30	
35	PRATHEETH S	IOT	GENSIS	30	
36	PRIYANKA D	IOT	GENSIS	30	
37	R REKHA	IOT	GENSIS	30	
38	R SAIRAJATH	IOT	GENSIS	30	
39	RAMYASHREE R	IOT	GENSIS	30	
40	ROSHAN KUMAR SA	IOT	GENSIS	30	
41	SACHIN S M	IOT	GENSIS	30	
42	SADANA C	IOT	GENSIS	30	
43	SANJAY KUMAR SA	IOT	GENSIS	30	
44	SNEHA N	IOT	GENSIS	30	
45	SWAROOP U S	IOT	GENSIS	30	
46	V MANISH	IOT	GENSIS	30	
47	VARSHITHA G N	IOT	GENSIS	30	
48	ZEENIYA NOOR	IOT	GENSIS	30	
49	ARJUN R	IOT	GENSIS	30	
50	RABI KRISHNA YAD	IOT	GENSIS	30	
51	ADITYA ANIL	Block chain	GENSIS	30	
52	ANUSHREE MR	Block chain	GENSIS	30	
53	APTHASHREE T P	Block chain	GENSIS	30	
54	ARPITHA G REDDY	Block chain	GENSIS	30	
55	BHAVANA N B	Block chain	GENSIS	30	
56	BHOOMIKA K B	Block chain	GENSIS	30	
57	BHOOMIKA L	Block chain	GENSIS	30	
58	BHOOMIKA N	Block chain	GENSIS	30	
59	BIKKY KUMAR S	Block chain	GENSIS	30	
60	CHAITHRA B R	Block chain	GENSIS	30	
61	DARSHAN G	Block chain	GENSIS	30	
62	DEEKSHITA M	Block chain	GENSIS	30	
63	HARSHA M	Block chain	GENSIS	30	
64	HARSHINI N S	Block chain	GENSIS	30	
65	HARSHITHA R	Block chain	GENSIS	30	
66	KEZIA HENRY H R	Block chain	GENSIS	30	
67	LAKSHIT SINGH	Block chain	GENSIS	30	
68	MUKESH KUMAR S	Block chain	GENSIS	30	
69	NABIN YADAV	Block chain	GENSIS	30	
70	NANDA KUMAR P	Block chain	GENSIS	30	
71	NIDHI DWIVEDI	Block chain	GENSIS	30	
72	NIRAJAN C	Block chain	GENSIS	30	
73	PUSHPAVATHI C	Block chain	GENSIS	30	

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SAMBHRAM INSTITUTE OF TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

VALUE ADDED COURSES

SL.NO	ACADEMIC YEAR	COURSE NAME
		Auto CAD 2D and 3D
1.	2019-20	

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2019-20

Sl.no	Name of Student	USN	Name of course	Company Name	# Hours	Signature
1	AMARJEET KUMAR	1ST14CV010	Auto CAD 2D & 3D	Genesis	40	
2	POOJA N S	1ST14CV073	Auto CAD 2D & 3D	Genesis	40	
3	AMRUTHA H C	1ST14CV702	Auto CAD 2D & 3D	Genesis	40	
4	SHRAWAN GUPTA	1ST14CV745	Auto CAD 2D & 3D	Genesis	40	
5	SUBRAMANI H R	1ST14CV750	Auto CAD 2D & 3D	Genesis	40	
6	AGANY AROP	1ST15CV010	Auto CAD 2D & 3D	Genesis	40	
7	AJMAL CK	1ST15CV015	Auto CAD 2D & 3D	Genesis	40	
8	BINOD GIRI	1ST15CV029	Auto CAD 2D & 3D	Genesis	40	
9	CHANDRA KUMAR N	1ST15CV037	Auto CAD 2D & 3D	Genesis	40	
10	CHOOK MAYOM	1ST15CV038	Auto CAD 2D & 3D	Genesis	40	
11	MD RAQEEB HUSSAIN	1ST15CV064	Auto CAD 2D & 3D	Genesis	40	
12	SAUGAT CHAULAGAIN	1ST15CV097	Auto CAD 2D & 3D	Genesis	40	
13	SUMANTH M P	1ST15CV110	Auto CAD 2D & 3D	Genesis	40	
14	MYTHRI K	1ST15CV713	Auto CAD 2D & 3D	Genesis	40	
15	SHRIDDHI GOPALI	1ST15CV724	Auto CAD 2D & 3D	Genesis	40	
16	AJAY KUMAR MEHTA	1ST16CV003	Auto CAD 2D & 3D	Genesis	40	
17	AMAN KUMAR KAPER	1ST16CV007	Auto CAD 2D & 3D	Genesis	40	
18	AMARJEET KUMAR SAH	1ST16CV008	Auto CAD 2D & 3D	Genesis	40	
19	AMRIT BIKRAM SAH	1ST16CV009	Auto CAD 2D & 3D	Genesis	40	
20	ANIL KUMAR JHA	1ST16CV010	Auto CAD 2D & 3D	Genesis	40	
21	ASHWINI B MATH	1ST16CV012	Auto CAD 2D & 3D	Genesis	40	
22	AVINASH R	1ST16CV013	Auto CAD 2D & 3D	Genesis	40	
23	BHARATH S	1ST16CV017	Auto CAD 2D & 3D	Genesis	40	
24	BHAVYASHREE S	1ST16CV018	Auto CAD 2D & 3D	Genesis	40	
25	BINOD KUMAR SAH	1ST16CV021	Auto CAD 2D & 3D	Genesis	40	
26	BIVEK KUMAR YADAV	1ST16CV022	Auto CAD 2D & 3D	Genesis	40	
27	CHITRA BAHADUR KUNWAR	1ST16CV024	Auto CAD 2D & 3D	Genesis	40	
28	DEEPAK GOWDA B T	1ST16CV026	Auto CAD 2D & 3D	Genesis	40	

Sl. No	Name	Register No	Course		Hours	Signature
29	DODDAMMATHAYI	1ST16CV029	Auto CAD 2D & 3D	Genesis	40	
30	GOPI SHARMA	1ST16CV031	Auto CAD 2D & 3D	Genesis	40	
31	HEMA N	1ST16CV033	Auto CAD 2D & 3D	Genesis	40	
32	HEMANT DHAMI	1ST16CV034	Auto CAD 2D & 3D	Genesis	40	
33	IMRAN HUSSAIN SIKDAR	1ST16CV036	Auto CAD 2D & 3D	Genesis	40	
34	IRENGBAM POLIN MANGANG	1ST16CV037	Auto CAD 2D & 3D	Genesis	40	
35	JAYANTHI G	1ST16CV039	Auto CAD 2D & 3D	Genesis	40	
36	KIMUDU SWATHI	1ST16CV042	Auto CAD 2D & 3D	Genesis	40	
37	LALIT KUMAR YADAV	1ST16CV043	Auto CAD 2D & 3D	Genesis	40	
38	MADHUSUDAN KUSHWAHA	1ST16CV046	Auto CAD 2D & 3D	Genesis	40	
39	MAHAMAD IMRAN BABU	1ST16CV047	Auto CAD 2D & 3D	Genesis	40	
40	MANAS PAUDEL	1ST16CV049	Auto CAD 2D & 3D	Genesis	40	
41	MANISH KUMAR MANDAL	1ST16CV050	Auto CAD 2D & 3D	Genesis	40	
42	MANISH KUMAR SAHANI	1ST16CV051	Auto CAD 2D & 3D	Genesis	40	
43	MD JAMAL HUSAIN	1ST16CV053	Auto CAD 2D & 3D	Genesis	40	
44	MOHAMMED ALI KHAZI	1ST16CV056	Auto CAD 2D & 3D	Genesis	40	
45	MUKESH KUMAR YADAV (N)	1ST16CV058	Auto CAD 2D & 3D	Genesis	40	
46	MUKESH KUMAR YADAV(D)	1ST16CV059	Auto CAD 2D & 3D	Genesis	40	
47	NM PRAVEEN	1ST16CV060	Auto CAD 2D & 3D	Genesis	40	
48	NARAHARI KM	1ST16CV062	Auto CAD 2D & 3D	Genesis	40	
49	NIRMAL SHAH	1ST16CV064	Auto CAD 2D & 3D	Genesis	40	
50	SALMAN KHAN	1ST16CV432	Auto CAD 2D & 3D	Genesis	40	
51	ARUN KUMAR K J	1ST17CV400	Auto CAD 2D & 3D	Genesis	40	
52	LAVANYA G V	1ST17CV402	Auto CAD 2D & 3D	Genesis	40	
53	NIROSHA.ARASANALU	1ST17CV403	Auto CAD 2D & 3D	Genesis	40	

Sl No	Name	Register Number	Course			Signature
54	FAISAL MANZOOR SOFI	1ST17CV409	Auto CAD 2D & 3D	Genesis	40	
55	AJITH KUMAR S	1ST15CV014	Auto CAD 2D & 3D	Genesis	40	
56	SUHAIL AHMED	1ST15CV107	Auto CAD 2D & 3D	Genesis	40	
57	SUPRIYA	1ST15CV111	Auto CAD 2D & 3D	Genesis	40	
58	SYED HAMDAN	1ST15CV113	Auto CAD 2D & 3D	Genesis	40	
59	TUSHAR B V	1ST15CV116	Auto CAD 2D & 3D	Genesis	40	
60	PALLAVI Y M	1ST16CV068	Auto CAD 2D & 3D	Genesis	40	
61	PARASH KUMAR RANA	1ST16CV069	Auto CAD 2D & 3D	Genesis	40	
62	PAVANKUMAR M	1ST16CV070	Auto CAD 2D & 3D	Genesis	40	
63	PAVITHRA. M	1ST16CV071	Auto CAD 2D & 3D	Genesis	40	
64	PINAZ RAHMAN	1ST16CV072	Auto CAD 2D & 3D	Genesis	40	
65	PRAMOD KUMAR SAH	1ST16CV074	Auto CAD 2D & 3D	Genesis	40	
66	PUNEETH HOTTI	1ST16CV076	Auto CAD 2D & 3D	Genesis	40	
67	PUSHPA M	1ST16CV077	Auto CAD 2D & 3D	Genesis	40	
68	RABINDRA KUMAR MAHATO	1ST16CV078	Auto CAD 2D & 3D	Genesis	40	
69	RAJA BABU RAUT	1ST16CV080	Auto CAD 2D & 3D	Genesis	40	
70	RAJESH KUMAR YADAV	1ST16CV081	Auto CAD 2D & 3D	Genesis	40	
71	RAJKUMAR PANDIT	1ST16CV082	Auto CAD 2D & 3D	Genesis	40	
72	RAJU KUMAR YADAV	1ST16CV083	Auto CAD 2D & 3D	Genesis	40	
73	RAKESH KUMAR DEO	1ST16CV084	Auto CAD 2D & 3D	Genesis	40	
74	RAKESH KUMAR MANDAL	1ST16CV085	Auto CAD 2D & 3D	Genesis	40	
75	RAKESH S	1ST16CV086	Auto CAD 2D & 3D	Genesis	40	
76	ROSHAN RAY	1ST16CV089	Auto CAD 2D & 3D	Genesis	40	
77	SACHIN A	1ST16CV091	Auto CAD 2D & 3D	Genesis	40	
78	SAHIL SUMAN	1ST16CV094	Auto CAD 2D & 3D	Genesis	40	
79	SAILENDRA SINGH	1ST16CV095	Auto CAD 2D & 3D	Genesis	40	
80	SANDHYA ARUN PARDHE	1ST16CV096	Auto CAD 2D & 3D	Genesis	40	
81	SANJAY DALLAKOTI	1ST16CV097	Auto CAD 2D & 3D	Genesis	40	
82	SANTHOSH BABU H S	1ST16CV098	Auto CAD 2D & 3D	Genesis	40	

Sl. No	Name	Register No	Course	Marks		Signature
83	SANTOSH KUMAR RAUT	1ST16CV099	Auto CAD 2D & 3D	40	Genesis	
84	SHASHI RAJAK	1ST16CV101	Auto CAD 2D & 3D	40	Genesis	
85	SNEHA K S	1ST16CV104	Auto CAD 2D & 3D	40	Genesis	
86	SOUNDARYA G	1ST16CV105	Auto CAD 2D & 3D	40	Genesis	
87	SUBASH DEUJA	1ST16CV106	Auto CAD 2D & 3D	40	Genesis	
88	SUMIR KUMAR	1ST16CV107	Auto CAD 2D & 3D	40	Genesis	
89	SUSHMA S	1ST16CV108	Auto CAD 2D & 3D	40	Genesis	
90	SWATHI K R	1ST16CV109	Auto CAD 2D & 3D	40	Genesis	
91	VIKAS G	1ST16CV111	Auto CAD 2D & 3D	40	Genesis	
92	YASHASWINI R	1ST16CV113	Auto CAD 2D & 3D	40	Genesis	
93	ANU KISHORE	1ST16CV700	Auto CAD 2D & 3D	40	Genesis	
94	JAGADEESH B	1ST16CV703	Auto CAD 2D & 3D	40	Genesis	
95	RAKESH KUMAR B S	1ST16CV706	Auto CAD 2D & 3D	40	Genesis	
96	VIJAPURADA SUBHASHINI	1ST16CV707	Auto CAD 2D & 3D	40	Genesis	
97	RANJITH D C	1ST17CV404	Auto CAD 2D & 3D	40	Genesis	
98	SAHANA C S	1ST17CV405	Auto CAD 2D & 3D	40	Genesis	
99	SANJAY KUMAR B R	1ST17CV406	Auto CAD 2D & 3D	40	Genesis	
100	ABHISHEK RAJ	1ST14CV002	Auto CAD 2D & 3D	40	Genesis	
101	PRAJWAL K M	1ST14CV736	Auto CAD 2D & 3D	40	Genesis	
102	SIBIN RAJ P V	1ST15CV103	Auto CAD 2D & 3D	40	Genesis	
103	VEERESH O	1ST15CV120	Auto CAD 2D & 3D	40	Genesis	
104	J RAHUL	1ST16CV115	Auto CAD 2D & 3D	40	Genesis	
105	DEEKSHITH R	1ST17CV401	Auto CAD 2D & 3D	40	Genesis	
106	ARJUN G P	1ST16CV011	Auto CAD 2D & 3D	40	Genesis	
107	BHIMARAYAGOUDA R K	1ST16CV019	Auto CAD 2D & 3D	40	Genesis	
108	BIMLESH PANDIT	1ST16CV020	Auto CAD 2D & 3D	40	Genesis	
109	JAYANTH N	1ST16CV038	Auto CAD 2D & 3D	40	Genesis	
110	AALOK KUMAR KUSHWAHA	1ST17CV001	Auto CAD 2D & 3D	40	Genesis	
111	ABHISHEK SINGH CHAUHAN	1ST17CV002	Auto CAD 2D & 3D	40	Genesis	

No.	Name	USN	Course	Provider	Marks	Signature
112	AJIT YADAV	1ST17CV004	Auto CAD 2D & 3D	Genesis	40	*signature*
113	AKHLAQ UR RAHMAN	1ST17CV008	Auto CAD 2D & 3D	Genesis	40	*signature*
114	AKSHITHA R	1ST17CV009	Auto CAD 2D & 3D	Genesis	40	akshitha
115	AMRESH KUMAR SAH	1ST17CV010	Auto CAD 2D & 3D	Genesis	40	*signature*
116	ARYAN DIPAK RAUT	1ST17CV011	Auto CAD 2D & 3D	Genesis	40	*signature*
117	BALRAM KUMAR PASMAN	1ST17CV013	Auto CAD 2D & 3D	Genesis	40	Balram
118	BIJAY KUMAR MANDAL	1ST17CV016	Auto CAD 2D & 3D	Genesis	40	Kumar
119	BITTU YADAV	1ST17CV017	Auto CAD 2D & 3D	Genesis	40	*signature*
120	GUDDU PRASAD GUPTA	1ST17CV019	Auto CAD 2D & 3D	Genesis	40	Guddu
121	INDRAJEET KUMAR YADAV	1ST17CV020	Auto CAD 2D & 3D	Genesis	40	Indrajet
122	KISHORE N	1ST17CV022	Auto CAD 2D & 3D	Genesis	40	Kishore N
123	KRISHNA THAKUR	1ST17CV023	Auto CAD 2D & 3D	Genesis	40	Thakur
124	KUSESHWAR KUMAR MANDAL	1ST17CV024	Auto CAD 2D & 3D	Genesis	40	Kuseshwar
125	LOUREMBAM MAICHEL SINGH	1ST17CV025	Auto CAD 2D & 3D	Genesis	40	*signature*
126	MANISH KUMAR SINGH THARU	1ST17CV026	Auto CAD 2D & 3D	Genesis	40	Manish
127	MOHAMMAD ASIF	1ST17CV031	Auto CAD 2D & 3D	Genesis	40	Asif
128	MUHAMMED FARSEEN K K	1ST17CV032	Auto CAD 2D & 3D	Genesis	40	farseen
129	MUKESH YADAV	1ST17CV034	Auto CAD 2D & 3D	Genesis	40	Mukesh Yadav
130	NAND KUMAR YADAV	1ST17CV036	Auto CAD 2D & 3D	Genesis	40	Nand
131	NAVEEN YADAV	1ST17CV037	Auto CAD 2D & 3D	Genesis	40	Naveen
132	NAYANA S V	1ST17CV038	Auto CAD 2D & 3D	Genesis	40	Nayan
133	NITHIN R C	1ST17CV040	Auto CAD 2D & 3D	Genesis	40	Nithin
134	PRAMOD KUMAR SHAHU	1ST17CV043	Auto CAD 2D & 3D	Genesis	40	Promod
135	SWAPNA P R	1ST17CV079	Auto CAD 2D & 3D	Genesis	40	Swapna
136	MD SHADIQUE ALI	1ST15CV068	Auto CAD 2D & 3D	Genesis	40	Shadique
137	REHAN ASHRAF	1ST15CV090	Auto CAD 2D & 3D	Genesis	40	Rehan

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Sl No	Name	Register No	Course		Marks	Signature
138	LUNJA SHRESTHA	1ST16CV045	Auto CAD 2D & 3D	Genesis	40	Lunja
139	PRUTHVIKA C	1ST16CV075	Auto CAD 2D & 3D	Genesis	40	Pruthvika
140	VIDYA V	1ST16CV110	Auto CAD 2D & 3D	Genesis	40	Vidya
141	WAAD ABUELGASIM MUSTAFA AHMED	1ST16CV112	Auto CAD 2D & 3D	Genesis	40	Waad
142	YASHASH C	1ST16CV709	Auto CAD 2D & 3D	Genesis	40	Yashash
143	KAILASH SEEGI	1ST17CV021	Auto CAD 2D & 3D	Genesis	40	Kailash
144	MANOJ KUMAR K N	1ST17CV028	Auto CAD 2D & 3D	Genesis	40	Manoj
145	NANAGOWDA Y	1ST17CV035	Auto CAD 2D & 3D	Genesis	40	nanagowda
146	PINTU JAISWAL	1ST17CV042	Auto CAD 2D & 3D	Genesis	40	Pintu
147	RABI KUMAR BHAGAT	1ST17CV046	Auto CAD 2D & 3D	Genesis	40	Rabi
148	RABINDRA KUMAR MAHATO	1ST17CV047	Auto CAD 2D & 3D	Genesis	40	Rabindra
149	RABINDRA KUMAR YADAV	1ST17CV048	Auto CAD 2D & 3D	Genesis	40	Rabindra
150	RAGHU K	1ST17CV050	Auto CAD 2D & 3D	Genesis	40	Raghu
151	RAHUL KUMAR	1ST17CV051	Auto CAD 2D & 3D	Genesis	40	GRN
152	RAMESH KUMAR KUSHWAHA	1ST17CV052	Auto CAD 2D & 3D	Genesis	40	Ramesh
153	SAJAN PRASAD GUPTA	1ST17CV058	Auto CAD 2D & 3D	Genesis	40	
154	SANJAY B S	1ST17CV059	Auto CAD 2D & 3D	Genesis	40	
155	SANTOSH KUMAR SAH	1ST17CV062	Auto CAD 2D & 3D	Genesis	40	Santosh
156	SANTOSH KUMAR YADAV	1ST17CV063	Auto CAD 2D & 3D	Genesis	40	bol
157	SANTOSH YADAV	1ST17CV064	Auto CAD 2D & 3D	Genesis	40	Santhosh
158	SAURAV ADHIKARI	1ST17CV065	Auto CAD 2D & 3D	Genesis	40	Sadhikari
159	SHEKH ALTAF	1ST17CV066	Auto CAD 2D & 3D	Genesis	40	Altaf
160	SHEKH UDAY HUSAIN	1ST17CV067	Auto CAD 2D & 3D	Genesis	40	Uday
161	SHRAVAN KUMAR YADAV	1ST17CV070	Auto CAD 2D & 3D	Genesis	40	Shravan
162	SUDHIR KUMAR YADAV	1ST17CV072	Auto CAD 2D & 3D	Genesis	40	Sudhir
163	SUNIL KUMAR YADAV	1ST17CV074	Auto CAD 2D & 3D	Genesis	40	Sunilkumar

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No.	Name	Register No	Course	Provider	Marks	Signature
164	SUNNY KUSHWAHA	1ST17CV075	Auto CAD 2D & 3D	Genesis	40	Sunny
165	SURAJ KUMAR SAH	1ST17CV076	Auto CAD 2D & 3D	Genesis	40	Suraj Kumar Sah
166	SURYANARAYAN PRASAD KUSHWAHA	1ST17CV078	Auto CAD 2D & 3D	Genesis	40	Suryanarayan
167	UDAY KUMAR CHAURASIYA	1ST17CV080	Auto CAD 2D & 3D	Genesis	40	Uday
168	VINAYAK T K	1ST17CV084	Auto CAD 2D & 3D	Genesis	40	Vinayak TK
169	SACHIN S	1ST18CV403	Auto CAD 2D & 3D	Genesis	40	Sachin S
170	SHEEBA AZIZ	1ST18CV404	Auto CAD 2D & 3D	Genesis	40	Sh
171	ADNAN KHAN	1ST17CV003	Auto CAD 2D & 3D	Genesis	40	Adnan Khan
172	SHIGNESHWAR	1ST17CV068	Auto CAD 2D & 3D	Genesis	40	Shigneshwar
173	SHYAMRAJ JOSHI N K	1ST17CV071	Auto CAD 2D & 3D	Genesis	40	Shyamraj
174	SUKSHITH V	1ST17CV073	Auto CAD 2D & 3D	Genesis	40	Sukshith V
175	SURAJ YADAV	1ST17CV077	Auto CAD 2D & 3D	Genesis	40	Suraj
176	UDAY PRASAD SAH	1ST17CV081	Auto CAD 2D & 3D	Genesis	40	Uday
177	SAGAR S GUDDALLI	1ST17CV701	Auto CAD 2D & 3D	Genesis	40	Sagar
178	AMIT KUMAR YADAV	1ST18CV002	Auto CAD 2D & 3D	Genesis	40	Amit
179	ANUPAMA M	1ST18CV003	Auto CAD 2D & 3D	Genesis	40	Anupama
180	AQUIB ALEE	1ST18CV004	Auto CAD 2D & 3D	Genesis	40	Aqlib
181	ARUN KUMAR SINGH	1ST18CV005	Auto CAD 2D & 3D	Genesis	40	Arun
182	BRIJMOHAN KUMAR SHARMA LOHAR	1ST18CV007	Auto CAD 2D & 3D	Genesis	40	Brij
183	DARSHAN K N	1ST18CV010	Auto CAD 2D & 3D	Genesis	40	Darshan
184	DILEEP KUMAR CHAUDHARY	1ST18CV011	Auto CAD 2D & 3D	Genesis	40	Dileep
185	KRISHAN KUMAR MANDAL	1ST18CV016	Auto CAD 2D & 3D	Genesis	40	Krishan
186	KUSHAL H R	1ST18CV017	Auto CAD 2D & 3D	Genesis	40	Kushal
187	LIKITHA K	1ST18CV018	Auto CAD 2D & 3D	Genesis	40	Likitha
188	MAHESH M	1ST18CV019	Auto CAD 2D & 3D	Genesis	40	Mahesh
189	MANISH LUITEL	1ST18CV020	Auto CAD 2D & 3D	Genesis	40	Manish
190	MANJUNATH D	1ST18CV021	Auto CAD 2D & 3D	Genesis	40	Manjunath

191	MD ALTAF RAJA	1ST18CV022	Auto CAD 2D & 3D	Genesis	40	*(signature)*
192	MRITYUNJAY	1ST18CV023	Auto CAD 2D & 3D	Genesis	40	*(signature)*
193	PUNEETH T B	1ST18CV026	Auto CAD 2D & 3D	Genesis	40	*(signature)*
194	RAKESH SAH	1ST18CV027	Auto CAD 2D & 3D	Genesis	40	*(signature)*
195	RAM KEBAL SINGH KUSHBAHA	1ST18CV028	Auto CAD 2D & 3D	Genesis	40	*(signature)*
196	ROSHAN BHATTARAI	1ST18CV030	Auto CAD 2D & 3D	Genesis	40	*(signature)*
197	SAIF UR RAHMAN	1ST18CV032	Auto CAD 2D & 3D	Genesis	40	*(signature)*
198	SAMARTH PATIL	1ST18CV033	Auto CAD 2D & 3D	Genesis	40	*(signature)*
199	SANDEEP SINGH CHAUHAN	1ST18CV034	Auto CAD 2D & 3D	Genesis	40	*(signature)*
200	SANTOSH KUMAR YADAV	1ST18CV035	Auto CAD 2D & 3D	Genesis	40	*(signature)*
201	SHYAM BABU PD YADAV	1ST18CV037	Auto CAD 2D & 3D	Genesis	40	*(signature)*
202	SIYARAM SAH	1ST18CV038	Auto CAD 2D & 3D	Genesis	40	*(signature)*
203	SUNIL SAH	1ST18CV040	Auto CAD 2D & 3D	Genesis	40	*(signature)*
204	SUNNY SAH GODH	1ST18CV041	Auto CAD 2D & 3D	Genesis	40	*(signature)*
205	SURAJ KUMAR GUPTA	1ST18CV042	Auto CAD 2D & 3D	Genesis	40	*(signature)*
206	SYED MASRUF AHMAD	1ST18CV043	Auto CAD 2D & 3D	Genesis	40	*(signature)*
207	UMESH KUMAR SAHANI	1ST18CV045	Auto CAD 2D & 3D	Genesis	40	*(signature)*
208	VIVEK KUMAR SINGH	1ST18CV048	Auto CAD 2D & 3D	Genesis	40	*(signature)*

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CURRICULUM

COURSE NAME: AUTO CAD 2D and 3D   **ACADEMIC YEAR- 2019-20**

Sl.No	Content
1	**Introduction to AutoCAD:** Overview of CAD software, Understanding the AutoCAD user interface, Basic navigation and settings.
2	**Drawing Setup and Tools:** Setting up drawing units and scales Drawing lines, circles, arcs, and polygons, Using drawing aids such as grids and snap modes, Editing and modifying drawing objects.
3	**Drawing Precision and Annotation:** Using object snaps and tracking for precise drawing, Adding text and dimensions to drawings, Creating and editing layers, Managing drawing properties and attributes.
4	**Advanced Drawing Techniques:** Creating and editing blocks and symbols, Using hatching and gradients, Working with external references, Exploring parametric constraints.
5	**Layouts and Printing:** Creating and managing layout tabs, Setting up viewports and plotting to scale, Printing and publishing drawings.
6	**Introduction to AutoCAD 3D:** Understanding 3D workspace and navigation,Creating basic 3D objects (extrude, loft, revolve), Editing and modifying 3D object.

| 7 | **Advanced 3D Modeling:**

Creating complex 3D objects (sweeps, blends, fillets), Working with surfaces and meshes, Using solid modeling techniques, Creating 3D assemblies and component. |
|---|---|
| 8 | **Visualization and Rendering:**

Applying materials and textures to 3D objects, Setting up lighting and cameras, Rendering still images and animation. |
| 9 | **Annotation and Documentation in 3D:**

Adding annotations and dimensions to 3D models, Creating section views and detail views, Generating 2D drawings from 3D models. |

GENESIS
TRAINING

GENESIS TRAINING

MULTIPLE CHOICE QUESTIONS

COURSE NAME:Auto CAD 2D and 3D
SEM: √II

Academic Year : 2019-20
USN: 1ST16CV062

1. What is the command used to draw a line in AutoCAD?

   a) CIRCLE

   b) RECTANGLE

   c) LINE

   d) ARC

2. Which option allows you to snap to the endpoint of a line in AutoCAD?

   a) Endpoint

   b) Midpoint

   c) Intersection

   d) Nearest

3. Which command is used to create a mirror image of an object in AutoCAD?

   a) COPY

   b) MOVE

   c) MIRROR

   d) ROTATE

4. What is the purpose of the OFFSET command in AutoCAD?

   a) To move an object to a new location

   b) To create a duplicate copy of an object

   c) To draw parallel lines or curves at a specified distance from an existing object

   d) To rotate an object around a specified axis

5. Which command is used to change the properties of an object in AutoCAD, such as its color or line type?

   a) DIM

   b) PROP

   c) CHPROP

   d) LAYER

6. Which command is used to create a 3D solid box in AutoCAD?

    a) BOX

    b) RECTANGLE

    c) CUBE

    d) SOLID

7. How do you switch to 3D modeling workspace in AutoCAD?

    a) By clicking on the "3D Basics" workspace from the workspace dropdown menu

    b) By typing "3D" and pressing Enter

    c) By selecting the "Model" tab from the ribbon

    d) By using the "3D Modeling" workspace icon in the status bar

8. What command is used to extrude a 2D shape into a 3D object in AutoCAD? a) EXTEND

    b) EXTRUDE

    c) STRETCH

    d) PRESSPULL

9. Which option is used to change the viewpoint in a 3D model in AutoCAD?

    a) ZOOM

    b) PAN

    c) VIEW

    d) DVIEW

10. Which command is used to create a 3D fillet between two 3D objects in AutoCAD?

    a) FILLET

    b) CHAMFER

    c) BLEND

    d) ROUNDEDGE

11. Which command is used to create a circle with a specified radius in AutoCAD?

    a) CIRCLE

    b) SPHERE

    c) RADIUS

    d) ARC

12. What does the FILLET command do in AutoCAD?

    a) Creates a curved transition between two lines or objects

    b) Adds text to the drawing

    c) Copies an object to a new location

    d) Deletes selected objects

13. Which AutoCAD command is used to control the visibility of layers?

    a) LAYER

    b) VPLAYER

    c) LAYOFF

    d) LAYISO

14. What is the purpose of the TRIM command in AutoCAD?

    a) To extend an object to meet another object

    b) To remove unnecessary geometry between two intersecting objects

    c) To move an object to a new location

    d) To rotate an object around a specified axis

15. Which AutoCAD command is used to measure the distance between two points?

    a) DIST

    b) MEASURE

    c) DISTANCE

    d) LENGTH

16. Which command is used to rotate a 3D object around an axis in AutoCAD?

    a) ROTATE3D

    b) 3DROTATE

    c) TWIST

    d) REVOLVE

17. What does the UNION command do in AutoCAD 3D?

    a) Creates a solid object by combining two or more overlapping 3D objects

    b) Separates a 3D object into individual components

    c) Aligns multiple 3D objects along a common axis

    d) Adds text to the drawing

18. Which AutoCAD command is used to change the UCS (User Coordinate System) in 3D space?

    a) UCS

    b) UCSICON

    c) UCSMAN

    d) UCSORG

19. What is the purpose of the SOLVIEW command in AutoCAD 3D?

    a) To create a 3D view of a selected solid object

    b) To create a 2D view of a selected 3D model

    c) To generate a rendering of a 3D scene

d) To add lights to a 3D model

20. Which AutoCAD command is used to create a lofted surface between two or more 2D profiles?

a) LOFT

b) SWEEP

c) EXTRUDE

d) THICKEN

17/20

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CERTIFICATE OF COMPLETION

This is to Certify that Ms./Mr. NARAHARI K M

bearing USN 1SI16CV062 of Semester VII

has successfully completed the 40-hours Value-Added course on

AUTO CAD 2D and 3D

from 23rd September 2019 to 25th September 2019.

Akshay V Agasthya
Vice President - Learning and Development
Genesis Training, Bengaluru

PRINCIPAL
Sambhram Institute of Technology
M.S. Palya, Bangalore - 560 097

Dr. H.G. Chandrakanth
Prinicipal
Sambhram Institute Of
Technology

SAMBHRAM INSTITUTE OF TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

VALUE ADDED COURSES

SL.NO	ACADEMIC YEAR	COURSE NAME
		STAAD Pro
1.	2020-21	

Sl.No	Content
1	**Introduction to STRUCTURAL ENGINEERING** Introduction toSTAAD.Pro.V8i, Getting familiar with STAAD window, Model generation using STAAD editor
2	**Introduction to Snap Node/Beam Editor Model generation using Node /Beam Editor** Introduction to Translational Repeat, Model generation using Translational Repeat
3	**Assigning Properties** Assigning Supports, Assigning Loads, Structure Analysis
4	**Simply Supported Beam Analysis of Framed Structure** Applying Floor Loads
5	**Wind Analysis** Seismic Analysis, Creating Load Combinations
6	**Column & Beam Design** Reinforced Concrete Design
7	**Slab Design** Circular Water Tank Design Rectangular Water Tank Design Moving Loads
8	**Staircase Analysis Steel Design Pushover Analysis**

COURSE NAME: **STAAD PRO**

SEM:VII

Academic Year : 2020-21

USN: 1ST15CV103

1. What is STAAD.Pro primarily used for?

    a) Architectural design

    b) Structural analysis and design

    c) Electrical engineering

    d) HVAC system design

2. Which of the following is NOT a type of analysis supported by STAAD.Pro?

    a) Static analysis

    b) Dynamic analysis

    c) Thermal analysis

    d) Buckling analysis

3. What type of loads can be applied in STAAD.Pro?

    a) Only dead loads

    b) Only live loads

    c) Dead loads, live loads, wind loads, and seismic loads

    d) Only wind loads

4. Which feature of STAAD.Pro allows users to view graphical representations of analysis results?

    a) Analysis Viewer

    b) Post-Processor

    c) Results Viewer

    d) Visualization Module

5. What does STAAD stand for?

    a) Structural Analysis and Design Tool

    b) Structural Testing and Analysis Device

    c) Structural Automation and Design Tool

    d) Structural Analysis and Assessment Device

6. Which file format is commonly used for importing and exporting data in STAAD.Pro?

a) .STP

b) .DWG

c) .IFC

d) .STAAD

7. What is the purpose of the Design module in STAAD.Pro?

a) To generate 3D models

b) To perform structural analysis

c) To design structural members based on analysis results

d) To create project documentation

8. Which type of analysis in STAAD.Pro is used to determine the natural frequencies and mode shapes of a structure?

a) Static analysis

b) Dynamic analysis

c) Eigenvalue analysis

d) Buckling analysis

9. Which feature of STAAD.Pro allows users to define boundary conditions and supports for a structure?

a) Geometry Editor

b) Support Definition Tool

c) Constraint Manager

d) Model Generator

10. What is the main advantage of using STAAD.Pro for structural analysis and design?

a) It is free to use

b) It provides accurate results quickly

c) It only requires basic computer skills

d) It is primarily used for architectural design

11. Which of the following is NOT a material type that can be defined in STAAD.Pro?

a) Concrete

b) Steel

c) Timber

d) Glass

12. In STAAD.Pro, what does the term "support" refer to?

a) The physical foundation of the structure

b) The connections between structural members

c) The restraint conditions applied to nodes

d) The load combinations acting on the structure

13 .What is the purpose of the Load Combination Generator in STAAD.Pro?

a) To analyze the stability of the structure

b) To perform dynamic analysis

c) To apply multiple load cases simultaneously

d) To generate graphical reports of analysis results

14.Which analysis method is used in STAAD.Pro to analyze structures subjected to seismic loads?

a) Response spectrum analysis

b) Eigenvalue analysis

c) Time history analysis

d) Buckling analysis

15. What does the term "meshing" refer to in the context of STAAD.Pro?

a) Applying mesh textures to 3D models

b) Generating finite element meshes for analysis

c) Defining mesh networks for communication between nodes

d) Embedding structural members within a mesh framework

16. Which tool in STAAD.Pro is used to analyze the stability of slender structural members under compressive loads?

a) Buckling Analysis Wizard

b) Stability Check Tool

c) Compression Analysis Module

d) Strut Stability Utility

17.What does the term "parametric modeling" mean in STAAD.Pro?

a) Modifying structural parameters using mathematical equations

b) Generating 3D models based on user-defined parameters

c) Applying parametric constraints to structural elements

d) Creating models with parametric shapes and dimensions

18.Which file format is commonly used for exchanging structural models between STAAD.Pro and other software applications?

a) .STAAD

b) .IFC

c) .STEP

d) .PDF

14. What is the purpose of the "Modeler" module in STAAD.Pro?

a) To generate 3D models of structures

b) To perform structural analysis

c) To design structural members

d) To post-process analysis results

20. Which STAAD.Pro feature allows users to analyze and design concrete beams, columns, and slabs according to international design codes?

a) Concrete Designer

b) Reinforcement Layout Tool

c) Concrete Wizard

d) Prestressed Concrete Module

18/20

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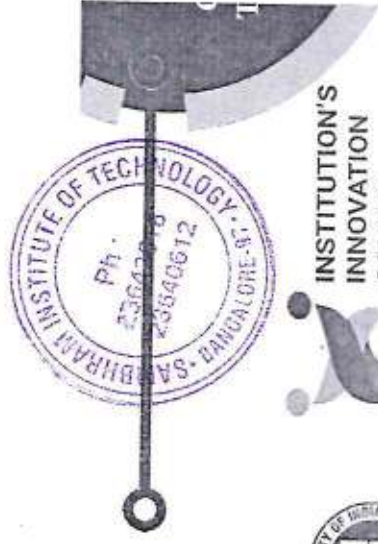
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CERTIFICATE OF COMPLETION

This is to Certify that Ms./Mr. SIBIN RAJ P V

bearing USN 1ST15CV103 of Semester VII

has successfully completed the 40-hours Value-Added course on

STAAD PRO

from 9th November 2020 to 11th November 2020.

Akshay V Agasthya
Vice President - Learning and Development
Genesis Training, Bengaluru

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Sambhram Institute of Technology
M.S. Palya, Bangalore - 560 097

Dr. H.G. Chandrakanth
Principal
Sambhram Institute Of Technology

Sl.no	Name of Student	USN	Name of course	Company Name	# Hours	Signature
1	ABHISHEK RAJ	1ST14CV002	STAAD Pro	Genesis	40	
2	PRAJWAL K M	1ST14CV736	STAAD Pro	Genesis	40	
3	SIBIN RAJ P V	1ST15CV103	STAAD Pro	Genesis	40	
4	VEERESH O	1ST15CV120	STAAD Pro	Genesis	40	
5	J RAHUL	1ST16CV115	STAAD Pro	Genesis	40	
6	DEEKSHITH R	1ST17CV401	STAAD Pro	Genesis	40	
7	ARJUN G P	1ST16CV011	STAAD Pro	Genesis	40	
8	BHIMARAYAGOUDA R K	1ST16CV019	STAAD Pro	Genesis	40	
9	BIMLESH PANDIT	1ST16CV020	STAAD Pro	Genesis	40	
10	JAYANTH N	1ST16CV038	STAAD Pro	Genesis	40	
11	AALOK KUMAR KUSHWAHA	1ST17CV001	STAAD Pro	Genesis	40	
12	ABHISHEK SINGH CHAUHAN	1ST17CV002	STAAD Pro	Genesis	40	
13	AJIT YADAV	1ST17CV004	STAAD Pro	Genesis	40	
14	AKHLAQ UR RAHMAN	1ST17CV008	STAAD Pro	Genesis	40	
15	AKSHITHA R	1ST17CV009	STAAD Pro	Genesis	40	
16	AMRESH KUMAR SAH	1ST17CV010	STAAD Pro	Genesis	40	
17	ARYAN DIPAK RAUT	1ST17CV011	STAAD Pro	Genesis	40	
18	BALRAM KUMAR PASMAN	1ST17CV013	STAAD Pro	Genesis	40	
19	BIJAY KUMAR MANDAL	1ST17CV016	STAAD Pro	Genesis	40	
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25	KUSESHWAR KUMAR MANDAL	1ST17CV024	STAAD Pro	Genesis	40	
26	LOUREMBAM MAICHEL SINGH	1ST17CV025	STAAD Pro	Genesis	40	
27	MANISH KUMAR SINGH THARU	1ST17CV026	STAAD Pro	Genesis	40	
28	MOHAMMAD ASIF	1ST17CV031	STAAD Pro	Genesis	40	
29	MUHAMMED FARSEEN K K	1ST17CV032	STAAD Pro	Genesis	40	
30	MUKESH YADAV	1ST17CV034	STAAD Pro	Genesis	40	

2020-21

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#	Name	USN			Marks	Signature
31	NAND KUMAR YADAV	1ST17CV036	STAAD Pro	Genesis	40	
32	NAVEEN YADAV	1ST17CV037	STAAD Pro	Genesis	40	
33	NAYANA S V	1ST17CV038	STAAD Pro	Genesis	40	
34	NITHIN R C	1ST17CV040	STAAD Pro	Genesis	40	
35	PRAMOD KUMAR SHAHU	1ST17CV043	STAAD Pro	Genesis	40	
36	SWAPNA P R	1ST17CV079	STAAD Pro	Genesis	40	
37	MD SHADIQUE ALI	1ST15CV068	STAAD Pro	Genesis	40	
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41	VIDYA V	1ST16CV110	STAAD Pro	Genesis	40	
42	WAAD ABUELGASIM MUSTAFA AHMED	1ST16CV112	STAAD Pro	Genesis	40	
43	YASHASH C	1ST16CV709	STAAD Pro	Genesis	40	
44	KAILASH SEEGI	1ST17CV021	STAAD Pro	Genesis	40	
45	MANOJ KUMAR K N	1ST17CV028	STAAD Pro	Genesis	40	
46	NANAGOWDA Y	1ST17CV035	STAAD Pro	Genesis	40	
47	PINTU JAISWAL	1ST17CV042	STAAD Pro	Genesis	40	
48	RABI KUMAR BHAGAT	1ST17CV046	STAAD Pro	Genesis	40	
49	RABINDRA KUMAR MAHATO	1ST17CV047	STAAD Pro	Genesis	40	
50	RABINDRA KUMAR YADAV	1ST17CV048	STAAD Pro	Genesis	40	
51	RAGHU K	1ST17CV050	STAAD Pro	Genesis	40	
52	RAHUL KUMAR	1ST17CV051	STAAD Pro	Genesis	40	
53	RAMESH KUMAR KUSHWAHA	1ST17CV052	STAAD Pro	Genesis	40	
54	SAJAN PRASAD GUPTA	1ST17CV058	STAAD Pro	Genesis	40	
55	SANJAY B S	1ST17CV059	STAAD Pro	Genesis	40	
56	SANTOSH KUMAR SAH	1ST17CV062	STAAD Pro	Genesis	40	
57	SANTOSH KUMAR YADAV	1ST17CV063	STAAD Pro	Genesis	40	
58	SANTOSH YADAV	1ST17CV064	STAAD Pro	Genesis	40	
59	SAURAV ADHIKARI	1ST17CV065	STAAD Pro	Genesis	40	
60	SHEKH ALTAF	1ST17CV066	STAAD Pro	Genesis	40	
61	SHEKH UDAY HUSAIN	1ST17CV067	STAAD Pro	Genesis	40	

No	Name	USN	Software	Software	Marks	Signature
62	SHRAVAN KUMAR YADAV	1ST17CV070	STAAD Pro	Genesis	40	
63	SUDHIR KUMAR YADAV	1ST17CV072	STAAD Pro	Genesis	40	
64	SUNIL KUMAR YADAV	1ST17CV074	STAAD Pro	Genesis	40	
65	SUNNY KUSHWAHA	1ST17CV075	STAAD Pro	Genesis	40	
66	SURAJ KUMAR SAH	1ST17CV076	STAAD Pro	Genesis	40	
67	SURYANARAYAN PRASAD KUSHWAHA	1ST17CV078	STAAD Pro	Genesis	40	
68	UDAY KUMAR CHAURASIYA	1ST17CV080	STAAD Pro	Genesis	40	
69	VINAYAK T K	1ST17CV084	STAAD Pro	Genesis	40	
70	SACHIN S	1ST18CV403	STAAD Pro	Genesis	40	
71	SHEEBA AZIZ	1ST18CV404	STAAD Pro	Genesis	40	
72	ADNAN KHAN	1ST17CV003	STAAD Pro	Genesis	40	
73	SHIGNESHWAR	1ST17CV068	STAAD Pro	Genesis	40	
74	SHYAMRAJ JOSHI N K	1ST17CV071	STAAD Pro	Genesis	40	
75	SUKSHITH V	1ST17CV073	STAAD Pro	Genesis	40	
76	SURAJ YADAV	1ST17CV077	STAAD Pro	Genesis	40	
77	UDAY PRASAD SAH	1ST17CV081	STAAD Pro	Genesis	40	
78	SAGAR S GUDDALLI	1ST17CV701	STAAD Pro	Genesis	40	
79	AMIT KUMAR YADAV	1ST18CV002	STAAD Pro	Genesis	40	
80	ANUPAMA M	1ST18CV003	STAAD Pro	Genesis	40	
81	AQUIB ALEE	1ST18CV004	STAAD Pro	Genesis	40	
82	ARUN KUMAR SINGH	1ST18CV005	STAAD Pro	Genesis	40	
83	BRIJMOHAN KUMAR SHARMA LOHAR	1ST18CV007	STAAD Pro	Genesis	40	
84	DARSHAN K N	1ST18CV010	STAAD Pro	Genesis	40	
85	DILEEP KUMAR CHAUDHARY	1ST18CV011	STAAD Pro	Genesis	40	
86	KRISHAN KUMAR MANDAL	1ST18CV016	STAAD Pro	Genesis	40	
87	KUSHAL H R	1ST18CV017	STAAD Pro	Genesis	40	
88	LIKITHA K	1ST18CV018	STAAD Pro	Genesis	40	
89	MAHESH M	1ST18CV019	STAAD Pro	Genesis	40	
90	MANISH LUITEL	1ST18CV020	STAAD Pro	Genesis	40	
91	MANJUNATH D	1ST18CV021	STAAD Pro	Genesis	40	

Sl.No	Name	USN			Marks	Signature
92	MD ALTAF RAJA	1ST18CV022	STAAD Pro	Genesis	40	
93	MRITYUNJAY	1ST18CV023	STAAD Pro	Genesis	40	
94	PUNEETH T B	1ST18CV026	STAAD Pro	Genesis	40	
95	RAKESH SAH	1ST18CV027	STAAD Pro	Genesis	40	
96	RAM KEBAL SINGH KUSHWAHA	1ST18CV028	STAAD Pro	Genesis	40	
97	ROSHAN BHATTARAI	1ST18CV030	STAAD Pro	Genesis	40	
98	SAIF UR RAHMAN	1ST18CV032	STAAD Pro	Genesis	40	
99	SAMARTH PATIL	1ST18CV033	STAAD Pro	Genesis	40	
100	SANDEEP SINGH CHAUHAN	1ST18CV034	STAAD Pro	Genesis	40	
101	SANTOSH KUMAR YADAV	1ST18CV035	STAAD Pro	Genesis	40	
102	SHYAM BABU PD YADAV	1ST18CV037	STAAD Pro	Genesis	40	
103	SIYARAM SAH	1ST18CV038	STAAD Pro	Genesis	40	
104	SUNIL SAH	1ST18CV040	STAAD Pro	Genesis	40	
105	SUNNY SAH GODH	1ST18CV041	STAAD Pro	Genesis	40	
106	SURAJ KUMAR GUPTA	1ST18CV042	STAAD Pro	Genesis	40	
107	SYED MASRUF AHMAD	1ST18CV043	STAAD Pro	Genesis	40	
108	UMESH KUMAR SAHANI	1ST18CV045	STAAD Pro	Genesis	40	
109	VIVEK KUMAR SINGH	1ST18CV048	STAAD Pro	Genesis	40	
110	RAGHAVENDRA	1ST15CV086	STAAD Pro	Genesis	40	
111	NITHISH KUMAR	1ST15CV125	STAAD Pro	Genesis	40	
112	SUBI BABU	1ST15CV726	STAAD Pro	Genesis	40	
113	CHARAN RAJ	1ST16CV023	STAAD Pro	Genesis	40	
114	HEMANTH SAGAR .B.L	1ST16CV035	STAAD Pro	Genesis	40	
115	YESHWANTH B.S	1ST16CV114	STAAD Pro	Genesis	40	
116	ASHIKA	1ST17CV012	STAAD Pro	Genesis	40	
117	RANGANATH .N.K	1ST17CV054	STAAD Pro	Genesis	40	
118	YAIPHABA OINAM	1ST17CV085	STAAD Pro	Genesis	40	
119	MADHU SUDHAN . D	1ST18CV401	STAAD Pro	Genesis	40	
120	REINARD MARTIN PHILIP	1ST18CV402	STAAD Pro	Genesis	40	
121	SHIVAKUMAR	1ST18CV405	STAAD Pro	Genesis	40	
122	SHIV MAHATO	1ST17CV069	STAAD Pro	Genesis	40	
123	AJEET	1ST18CV001	STAAD Pro	Genesis	40	

Sl. No	Name	USN			Marks	Signature
124	CHANDAN L	1ST18CV008	STAAD Pro	Genesis	40	Ch
125	JAYANTH B S	1ST18CV014	STAAD Pro	Genesis	40	Jayanth
126	UDAY KUMAR T N	1ST18CV044	STAAD Pro	Genesis	40	Uday
127	NISCHAY R	1ST18CV049	STAAD Pro	Genesis	40	Nischay
128	SHARIQUE BHAT	1ST18CV050	STAAD Pro	Genesis	40	AB
129	ABHINAV KASHYAP	1ST18CV700	STAAD Pro	Genesis	40	Abhinav
130	SAHANA K C	1ST18CV701	STAAD Pro	Genesis	40	Sahana
131	AMAL GANESH	1ST19CV001	STAAD Pro	Genesis	40	Amal
132	AMIT GOWDA	1ST19CV002	STAAD Pro	Genesis	40	Amit
133	BASAVRAJ S KOPPAD	1ST19CV003	STAAD Pro	Genesis	40	Basavraj
134	BHARATH C	1ST19CV004	STAAD Pro	Genesis	40	Bharath
135	DILEEP C J	1ST19CV005	STAAD Pro	Genesis	40	Dileep
136	GAGAN S	1ST19CV006	STAAD Pro	Genesis	40	Gagan
137	GOPIKA G M	1ST19CV007	STAAD Pro	Genesis	40	Gopika
138	JAYBIR GURUNG	1ST19CV009	STAAD Pro	Genesis	40	Jaybir
139	KHUDESHWAR PRASAD SAH	1ST19CV011	STAAD Pro	Genesis	40	AB
140	KUSHAL M	1ST19CV012	STAAD Pro	Genesis	40	K
141	MANJUNATHA K G	1ST19CV013	STAAD Pro	Genesis	40	Manjunath
142	RANJAN KUMAR SAH	1ST19CV014	STAAD Pro	Genesis	40	AB
143	RANJAN YADAV	1ST19CV015	STAAD Pro	Genesis	40	Ranjan
144	S DHINADAYALAN	1ST19CV016	STAAD Pro	Genesis	40	AB
145	SANJAY KUMAR CHAUDHARY	1ST19CV017	STAAD Pro	Genesis	40	S
146	SURENDRA BAHADUR KHADKA	1ST19CV018	STAAD Pro	Genesis	40	Surendra
147	SANJEEVA S PATIL	1ST20CV400	STAAD Pro	Genesis	40	AB

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SAMBHRAM INSTITUTE OF TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

VALUE ADDED COURSES

SL.NO	ACADEMIC YEAR	COURSE NAME
1.	2021-22	PRIMAVERA

Sl.no	Name of Student	USN	Name of course	Company Name	# Hours	Signature
1	ADNAN KHAN	1ST17CV003	Primavera	Genesis	40	
2	SHIGNESHWAR	1ST17CV068	Primavera	Genesis	40	
3	SHYAMRAJ JOSHI N K	1ST17CV071	Primavera	Genesis	40	
4	SUKSHITH V	1ST17CV073	Primavera	Genesis	40	
5	SURAJ YADAV	1ST17CV077	Primavera	Genesis	40	
6	UDAY PRASAD SAH	1ST17CV081	Primavera	Genesis	40	
7	SAGAR S GUDDALLI	1ST17CV701	Primavera	Genesis	40	
8	AMIT KUMAR YADAV	1ST18CV002	Primavera	Genesis	40	
9	ANUPAMA M	1ST18CV003	Primavera	Genesis	40	
10	AQUIB ALEE	1ST18CV004	Primavera	Genesis	40	
11	ARUN KUMAR SINGH	1ST18CV005	Primavera	Genesis	40	
12	BRIJMOHAN KUMAR SHARMA LOHAR	1ST18CV007	Primavera	Genesis	40	
13	DARSHAN K N	1ST18CV010	Primavera	Genesis	40	
14	DILEEP KUMAR CHAUDHARY	1ST18CV011	Primavera	Genesis	40	
15	KRISHAN KUMAR MANDAL	1ST18CV016	Primavera	Genesis	40	
16	KUSHAL H R	1ST18CV017	Primavera	Genesis	40	
17	LIKITHA K	1ST18CV018	Primavera	Genesis	40	
18	MAHESH M	1ST18CV019	Primavera	Genesis	40	
19	MANISH LUITEL	1ST18CV020	Primavera	Genesis	40	
20	MANJUNATH D	1ST18CV021	Primavera	Genesis	40	
21	MD ALTAF RAJA	1ST18CV022	Primavera	Genesis	40	
22	MRITYUNJAY	1ST18CV023	Primavera	Genesis	40	
23	PUNEETH T B	1ST18CV026	Primavera	Genesis	40	
24	RAKESH SAH	1ST18CV027	Primavera	Genesis	40	
25	RAM KEBAL SINGH KUSHBAHA	1ST18CV028	Primavera	Genesis	40	
26	ROSHAN BHATTARAI	1ST18CV030	Primavera	Genesis	40	
27	SAIF UR RAHMAN	1ST18CV032	Primavera	Genesis	40	

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#	Name	USN				Signature
28	SAMARTH PATIL	1ST18CV033	Primavera	Genesis	40	
29	SANDEEP SINGH CHAUHAN	1ST18CV034	Primavera	Genesis	40	
30	SANTOSH KUMAR YADAV	1ST18CV035	Primavera	Genesis	40	
31	SHYAM BABU PD YADAV	1ST18CV037	Primavera	Genesis	40	
32	SIYARAM SAH	1ST18CV038	Primavera	Genesis	40	
33	SUNIL SAH	1ST18CV040	Primavera	Genesis	40	
34	SUNNY SAH GODH	1ST18CV041	Primavera	Genesis	40	
35	SURAJ KUMAR GUPTA	1ST18CV042	Primavera	Genesis	40	
36	SYED MASRUF AHMAD	1ST18CV043	Primavera	Genesis	40	
37	UMESH KUMAR SAHANI	1ST18CV045	Primavera	Genesis	40	
38	VIVEK KUMAR SINGH	1ST18CV048	Primavera	Genesis	40	
39	RAGHAVENDRA	1ST15CV086	Primavera	Genesis	40	
40	NITHISH KUMAR	1ST15CV125	Primavera	Genesis	40	
41	SUBI BABU	1ST15CV726	Primavera	Genesis	40	
42	CHARAN RAJ	1ST16CV023	Primavera	Genesis	40	
43	HEMANTH SAGAR .B.L	1ST16CV035	Primavera	Genesis	40	
44	YESHWANTH B.S	1ST16CV114	Primavera	Genesis	40	
45	ASHIKA	1ST17CV012	Primavera	Genesis	40	
46	RANGANATH .N.K	1ST17CV054	Primavera	Genesis	40	
47	YAIPHABA OINAM	1ST17CV085	Primavera	Genesis	40	
48	MADHU SUDHAN . D	1ST18CV401	Primavera	Genesis	40	
49	REINARD MARTIN PHILIP	1ST18CV402	Primavera	Genesis	40	
50	SHIVAKUMAR	1ST18CV405	Primavera	Genesis	40	
51	SHIV MAHATO	1ST17CV069	Primavera	Genesis	40	
52	AJEET	1ST18CV001	Primavera	Genesis	40	
53	CHANDAN L	1ST18CV008	Primavera	Genesis	40	
54	JAYANTH B S	1ST18CV014	Primavera	Genesis	40	
55	UDAY KUMAR T N	1ST18CV044	Primavera	Genesis	40	
56	NISCHAY R	1ST18CV049	Primavera	Genesis	40	
57	SHARIQUE BHAT	1ST18CV050	Primavera	Genesis	40	
58	ABHINAV KASHYAP	1ST18CV700	Primavera	Genesis	40	
59	SAHANA K C	1ST18CV701	Primavera	Genesis	40	

Sl No	Name	USN				Signature
60	AMAL GANESH	1ST19CV001	Primavera	Genesis	40	
61	AMIT GOWDA	1ST19CV002	Primavera	Genesis	40	
62	BASAVRAJ S KOPPAD	1ST19CV003	Primavera	Genesis	40	
63	BHARATH C	1ST19CV004	Primavera	Genesis	40	
64	DILEEP C J	1ST19CV005	Primavera	Genesis	40	
65	GAGAN S	1ST19CV006	Primavera	Genesis	40	
66	GOPIKA G M	1ST19CV007	Primavera	Genesis	40	
67	JAYBIR GURUNG	1ST19CV009	Primavera	Genesis	40	
68	KHUDESHWAR PRASAD SAH	1ST19CV011	Primavera	Genesis	40	
69	KUSHAL M	1ST19CV012	Primavera	Genesis	40	
70	MANJUNATHA K G	1ST19CV013	Primavera	Genesis	40	
71	RANJAN KUMAR SAH	1ST19CV014	Primavera	Genesis	40	
72	RANJAN YADAV	1ST19CV015	Primavera	Genesis	40	
73	S DHINADAYALAN	1ST19CV016	Primavera	Genesis	40	
74	SANJAY KUMAR CHAUDHARY	1ST19CV017	Primavera	Genesis	40	
75	SURENDRA BAHADUR KHADKA	1ST19CV018	Primavera	Genesis	40	
76	SANJEEVA S PATIL	1ST20CV400	Primavera	Genesis	40	
77	DEEKSHITHA H	1ST20CV001	Primavera	Genesis	40	
78	DHANUSH	1ST20CV002	Primavera	Genesis	40	
79	AHMED FAKHRELDIN OSMAN MOHAMED	1ST20CV004	Primavera	Genesis	40	
80	BINDUSHREE	1ST21CV400	Primavera	Genesis	40	
81	NITHYA T	1ST21CV401	Primavera	Genesis	40	

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CURRICULUM

COURSE NAME: PRIMAVERA   **ACADEMIC YEAR- 2021-22**

Sl.No	Content
1	**INTRODUCTION** Introduction about Portfolio, Program and Project, Introduction to Project Management, Introduction to Primavera, History of Planning, Skills required for Planning
2	**Primavera P6 Architecture** Primavera P6 PPM vs EPPM vs Cloud, Primavera Architecture in detail.
3	**Portfolio Program & Project Structure Creation** Setting up Enterprise Project Structure (EPS), Setting up Organizational BreakdownStructure (OBS), User Administration, User control & Limited Access Provisions, Setting User Preferences, Creating a Project.
4	**Project Code and Calendars** Project Codes, Calendar, Global Calendar, Project Calendar, Resource Calendar.
5	**Project Time Management, WBS & Activities** Creating Work Breakdown Structure (WBS), Defining Work Package & Creating Project Activities, Activity Codes, Activity Types, Duration Types, Percentage Completion Types, Activity Resource units loading, Applying activities relationships (Logical connection), Relationship Types, Creating Activity Steps, Feeding Activity information to Execution Team, Activity Summary, Notebooks.
6	**Scheduling and Constraints** Scheduling Types, Retained Logic, Progress Override, Actual Dates, Scheduling Option, Scheduling Logs, Applying Constraint, Types of Constraints.
7	**Project Resource management** Types of Resources, Units of Measures, Creating Resource, Default & Maximum units per time, Resource Price revisions, Resource Shift Creation, Assigning the resource to activities Resource Codes.
8	**Project Cost Management** Project Funding Sources, Activity Costing, Expenses, Estimating Budgeted and Actual cost for Activities, Establishing budgets for Work Packages, Estimating Project Budgets, Preparing Project Cash Flow, Cost Comparison Analysis.
9	**Project Risk Management** Identifying Project Risk, Categorizing Risk, Risk Status.
10	**Project Monitoring & Control** Setting up & Assigning Baseline, Apply Actuals, Progress Update, Look Ahead Schedule Delay Impact Analysis, Earned Value Analysis, S-Curve Analysis.
11	**Schedule Comparison** Importance of Schedule Comparison, Visualizer Tool, Comparing different version of projects, Comparing different version of baselines, Comparison general and advanced

	options in P6, Hands-on Practicals, Creating new comparison, Creating new comparison report version using existing version and opening the existing application version, Analyzing the comparison report.
12	**Reflections** Copying Project and Reflection, Difference between Project Copying and reflection, Merging the changes to Source Project.
13	**Reporting** Default Reports, Global Reports, Project reports, Creating Report groups, Creating Reports using Report Editor, Creating Reports using Report Wizard, Template Reporting, Modifying existing reports, Batch Reports – Creating and Running Batch Reports.
14	**Other Important Features** Managing Multiple Projects, Project Work Products & Documents, Creating Layouts and Maintaining layouts, User Defined Fields, Global Change, Store Period Performances, Recalculate Assignment Cost, Import & Export the project data.
15	**Projects** Commercial Building Planning loaded with 50+ Activities, Residential Building - Villa Type, Residential Building - Apartment Type, Bridge Construction, Power Plant Construction, Maintenance of Oil & Gas Plant.

MULTIPLE CHOICE QUESTIONS

COURSE NAME: PRIMAVERA   Academic Year: 2021-22

SEM: VIII   USN: 1ST18CV042

1.What type of projects is Primavera software primarily designed for?
a)Personal projects
b)Small businesses
c)Large and complex projects
d)Creative design projects

2.Which module in Primavera is used to create and manage project schedules and Gantt charts?
a)PERT Analysis
b)Resource Management
c)Primavera P6
d)Portfolio Management

3.In Primavera, what does WBS stand for?
a)Work Breakdown Structure
b)Work-Based Schedule
c)Workflow Blueprint System
d)Workload Balance Sheet

4.Which feature in Primavera allows project managers to allocate and track resources for tasksand projects?
a)Critical Path Method
b)Risk Analysis
c)Resource Management
d)Cost Control

5.What is the purpose of a "baseline" in Primavera?
a)It's a type of project report.
b)It's the original schedule of the project.
c)It's a reference point or comparing project performance.
d)It's a type of resource allocation

6. Select the true statement regarding Global Preferences inPrimavera P6 EPPM WebInterface.
A. Global Preferences are shared among all users.
B. Global Preferences are customized at the user level.

C. Global Preferences are controlled by the System Administrator

d. Global Preferences are controlled by Global Security Profiles.

7. What is Primavera?
a) A type of flower
b) Project management software
c) A famous Italian pasta dish
d) A Spanish music genre

8. Which company developed Primavera?
a) Microsoft
b) Oracle
c) IBM
d) Google

9. What is the primary purpose of Primavera software?
a) Graphic design
b) Project scheduling and management
c) Social media analytics
d) Video editing

10. Which industry commonly uses Primavera for project management?
a) Agriculture
b) Healthcare
c) Construction
d) Retail

11. Which of the following is NOT a feature of Primavera?
a) Resource allocation
b) Cost management
c) Inventory tracking
d) Critical path analysis

12. What does PERT stand for in Primavera PERT analysis?
a) Program Evaluation and Review Technique
b) Project Evaluation and Reporting Tool
c) Project Execution and Resource Tracking
d) Process Efficiency and Resource Testing

13. Which of the following is NOT a module in Primavera P6?
a) Risk Management
b) Project Portfolio Management
c) Document Management
d) Customer Relationship Management

14. What is a Gantt chart commonly used for in Primavera?
a) Resource levelling
b) Time tracking
c) Schedule visualization
d) Cost estimation

15. Which programming language is Primavera primarily written in?
a) Java
b) C++
c) Python
d) JavaScript

16. What is the latest version of Primavera software as of 2022?
a) Primavera P5
b) Primavera P6
c) Primavera P7
d) Primavera P8

17. What is the purpose of Primavera's Earned Value Management (EVM) feature? a)
a) Resource allocation
b) Cost management
c) Schedule visualization
d) Document management

18. In Primavera, what is a "WBS"?
a) Work Breakdown Structure
b) Work Balance Sheet
c) Work Budget Schedule
d) Work Baseline Scenario

19. Which of the following is NOT a type of constraint in Primavera?
a) Start On
b) Finish On
c) Start After
d) Finish Before

20. What does CPM stand for in the context of Primavera?
a) Critical Program Management
b) Critical Project Management
c) Critical Path Method
d) Cost Performance Management

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INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)

Department of Civil Engineering

In association with

Genesis Training

CERTIFICATE OF COMPLETION

This is to Certify that Ms./Mr. SURAJ KUMAR GUPTA
bearing USN 1ST18CV042 of Semester VIII
has successfully completed the 40-hours Value-Added course on

PRIMAVERA

from 20th June 2021 to 22nd June 2021.

Akshay V Agasthya
Vice President - Learning and Development
Genesis Training, Bengaluru

PRINCIPAL
Sambhram Institute of Technology
M.S. Palya, Bangalore - 560 097

Dr. H.G. Chandrakanth
Prinicipal
Sambhram Institute Of Technology

SAMBHRAM INSTITUTE OF TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

VALUE ADDED COURSES

SL.NO	ACADEMIC YEAR	COURSE NAME
1.	2022-23	Revit - BIM

2022-23

Sl.no	Name of Student	USN	Name of course	Company Name	# Hours	Signature
1	SHIV MAHATO	1ST17CV069	Revit-BIM	SAI CADD	40	
2	AJEET	1ST18CV001	Revit-BIM	SAI CADD	40	
3	CHANDAN L	1ST18CV008	Revit-BIM	SAI CADD	40	
4	JAYANTH B S	1ST18CV014	Revit-BIM	SAI CADD	40	
5	UDAY KUMAR T N	1ST18CV044	Revit-BIM	SAI CADD	40	
6	NISCHAY R	1ST18CV049	Revit-BIM	SAI CADD	40	
7	SHARIQUE BHAT	1ST18CV050	Revit-BIM	SAI CADD	40	
8	ABHINAV KASHYAP	1ST18CV700	Revit-BIM	SAI CADD	40	
9	SAHANA K C	1ST18CV701	Revit-BIM	SAI CADD	40	
10	AMAL GANESH	1ST19CV001	Revit-BIM	SAI CADD	40	
11	AMIT GOWDA	1ST19CV002	Revit-BIM	SAI CADD	40	
12	BASAVRAJ S KOPPAD	1ST19CV003	Revit-BIM	SAI CADD	40	
13	BHARATH C	1ST19CV004	Revit-BIM	SAI CADD	40	
14	DILEEP C J	1ST19CV005	Revit-BIM	SAI CADD	40	
15	GAGAN S	1ST19CV006	Revit-BIM	SAI CADD	40	
16	GOPIKA G M	1ST19CV007	Revit-BIM	SAI CADD	40	
17	JAYBIR GURUNG	1ST19CV009	Revit-BIM	SAI CADD	40	
18	KHUDESHWAR PRASAD SAH	1ST19CV011	Revit-BIM	SAI CADD	40	
19	KUSHAL M	1ST19CV012	Revit-BIM	SAI CADD	40	
20	MANJUNATHA K G	1ST19CV013	Revit-BIM	SAI CADD	40	
21	RANJAN KUMAR SAH	1ST19CV014	Revit-BIM	SAI CADD	40	
22	RANJAN YADAV	1ST19CV015	Revit-BIM	SAI CADD	40	
23	S DHINADAYALAN	1ST19CV016	Revit-BIM	SAI CADD	40	
24	SANJAY KUMAR CHAUDHARY	1ST19CV017	Revit-BIM	SAI CADD	40	

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Sl. No	Name	USN				Sign
25	SURENDRA BAHADUR KHADKA	1ST19CV018	Revit-BIM	SAI CADD	40	
26	SANJEEVA S PATIL	1ST20CV400	Revit-BIM	SAI CADD	40	
27	DEEKSHITHA H	1ST20CV001	Revit-BIM	SAI CADD	40	
28	DHANUSH	1ST20CV002	Revit-BIM	SAI CADD	40	
29	AHMED FAKHRELDIN OSMAN MOHAMED	1ST20CV004	Revit-BIM	SAI CADD	40	
30	BINDUSHREE	1ST21CV400	Revit-BIM	SAI CADD	40	
31	NITHYA T	1ST21CV401	Revit-BIM	SAI CADD	40	
32	AJAHARUDDIN RAEEN	1ST21CV001	Revit-BIM	SAI CADD	40	
33	AMEGH S KUMAR	1ST21CV002	Revit-BIM	SAI CADD	40	
34	AYUSH CHAUDHARY	1ST21CV004	Revit-BIM	SAI CADD	40	
35	DAIAPHI LAMARE	1ST21CV005	Revit-BIM	SAI CADD	40	
36	DEVRAJ G	1ST21CV006	Revit-BIM	SAI CADD	40	
37	DEVRAJU B	1ST21CV007	Revit-BIM	SAI CADD	40	
38	RAKESH CHAVAN	1ST21CV008	Revit-BIM	SAI CADD	40	
39	THRIBUVAN BIND S D	1ST21CV009	Revit-BIM	SAI CADD	40	
40	IRESH	1ST22CV400	Revit-BIM	SAI CADD	40	
41	NITISH KUMAR	1ST22CV401	Revit-BIM	SAI CADD	40	

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SAMBHRAM INSTITUTE OF TECHNOLOGY
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CURRICULUM

COURSE NAME: REVIT- BIM   **ACADEMIC YEAR- 2022-23**

Sl.No	Content
1	**Introduction** Building Information Modelling, Revit Architecture, Projects, Project Templates, Default Project Template, Revit File Types, Exploring the User Interface, Building Elements, Revit Elements and Families.
2	**Drawing Aids** Project Units, Listening and Temporary Dimensions, Levels, Adding Levels, Creating New Level Element Type, Constrain Level Lines, Remove Level Lines.
3	**Walls** Wall Properties, Arc Walls, Creating a wall element type, Vertically Compound Walls, Adding Sweeps and Reveals, Wall Shapes and Openings.
4	**Editing Commands** Move, Copy, Paste, Editing Pasted Elements, Paste Aligned, Create Similar, Rotate, Mirror Array, Scale, Trim/Extend, Offset, Align. • Doors Placing Doors, Door Properties, Load From Family. • Windows Placing Windows, Window Properties Constraint Doors/Windows Match Visibility Graphics.
5	**Components** Loading Component, Placing Components, Modifying Properties, Introduction to Modern Medium Library, Managing Views, Floor Plan View, Ceiling Plan View, Cutting a Plan View, Plan Region, Elevation View, Section View, 3D Views, Cropping a View, Visibility and Graphics Display.
6	**Dimensions** Temporary Dimensions, Permanent Dimensions.
7	**Floors**

	Creating Floors, Placing Elements on a Sloped Floor, Ceilings.
8	**Roofs** Roof by Footprint, Roof by Extrusion, Join/unjoin roofs, Roof Ridges Openings On Face, Vertical Opening, Shaft opening, Dormer opening.
9	**Curtain Walls** Creating Curtain Walls, Curtain Grids, Mullions, Reshaping Curtain Wall Panels, Merging Curtain Wall Panels, Adding Curtain Door Panel.
10	**Text &Tag** Call out views, Creating Details, Inserting a Detail Component, Drafting Views, Import from CAD.
11	**Rooms** Room Plans, Room Separation Line and Boundaries, Room Schedule Areas Area Schemes, Area Plans, Area Boundaries, Area Tags, Color Scheme.
12	**Sheet** Title Block, Adding a Sheet, Adding Views to a Sheet, Modifying a View on a Sheet, Creating a Title Sheet, Printing.

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MULTIPLE CHOICE QUESTIONS

COURSE NAME: Revit – BIM

Academic Year : 2022-23

SEM: **V**

USN: **IST19CV017**

1. When you first start Revit Architecture, the program opens to:
a) A new project
b) The configuration dialogue
c) The last project you worked on
d) The Recent files window

2. When you select an element in a Revit model:
a) You can change the type using the Type Selector.
b) The Type Selector becomes inactive.
c) The Type Selector lets you change the element properties.
d) The Type Selector appears in the Architecture contextual ribbon.

3. When no element is selected, the Properties Palette:
a) Is grayed out.
b) Shows the properties of the last element selected.
c) Shows the properties of the current view.
d) Is not visible.

4. When you make a change to a building object in one view:
a) That change only appears in that particular view.
b) The change is propagated in all views.
c) You should save the Revit project file.
d) A new family component is created.

5. When you work with grids:
a) You can only create grids when working in a Plan view.
b) Grids appear in any view that is perpendicular to the grid lines.
c) You must open the grid type properties if you want to change the grid number.
d) Grid labels only appear in the view in which the grid was created.

6. To change the type of window or door, you should:
a) Change the family type.
b) Change the wall type.
c) Change the instance properties.
d) Modify its type properties.

7. How do you add a door in a curtain wall?
a) Use the door tool as you would for any other type of wall.
b) Change the panel type to a curtain wall door panel.

c) Doors cannot be added to a curtain wall.
d) Use the curtain wall door tool.

8. When creating a Roof by footprint, the Define slopes setting:
a) Lets you specify the slopes of the roof.
b) Creates a flat roof.
c) Causes the roof to slope perpendicular to the slope-defining edge.
d) Causes the roof to slope parallel to the slope-defining edge

9. When creating a roof by extrusion, the slope of the roof is defined:
a) In the instance properties dialog for the roof.
b) In the type properties dialog for the roof.
c) By the top profile of the roof.
d) Using the slope arrow tool.

10. When creating a wall, you can:
a) Pick lines.
b) Pick the layer.
c) Add a door.
d) Create an extrusion.

11. What does BIM stand for in the context of construction and design?
a) Building Implementation Model
b) Building Information Management
c) Building Information Modeling
d) Building Infrastructure Management

12. Which software is commonly used for BIM in the architecture, engineering, and construction (AEC) industry?
a) AutoCAD
b) SketchUp
c) Revit
d) Photoshop

13. What is the primary advantage of using BIM in construction projects?
a) Improved communication among project stakeholders
b) Better visualization of design concepts
c) Enhanced project scheduling
d) Cost reduction in material procurement

14. Which of the following elements can be included in a BIM model?
a) 2D drawings
b) 3D geometry
c) Cost estimations
d) All of the above

15. In Revit, what is the purpose of the "Family Editor"?
a) To create families for use in projects
b) To edit existing project families
c) To manage project team members
d) To generate project reports

16. Which Revit feature allows users to analyze energy performance of a building? a) Revit Structure
b) Revit MEP
c) Revit Architecture
d) Insight

17. What is a "Workset" in Revit used for?
a) Organizing project views
b) Managing collaboration among team members
c) Creating construction documents
d) Analyzing structural integrity

18. Which file format is commonly used for sharing Revit models with stakeholders who don't have Revit installed?
a) .RVT
b) .DWG
c) .IFC
d) .PDF

19. What is the purpose of "Phases" in a Revit project?
a) To track project milestones
b) To manage project timelines
c) To simulate construction sequencing
d) To create project backups

20. Which Revit tool allows for coordination between architectural, structural, and MEP (mechanical, electrical, plumbing) disciplines?
a) Clash Detection
b) Interference Check
c) Coordination Review
d) Collaboration Tool

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DEPARTMENT OF CIVIL ENGINEERING

CERTIFICATE

This is to certify that Mr. / Ms. .... *Ahmed Fakhrildin Osman* ....

USN .... has participated in 3 days free workshop on
"REVIT - BIM" Building Information Modeling software conducted by
Department of Civil Engineering,
Sambhram Institute of Technology, Department of Civil Engineering,
Bengaluru in association with SAI CADD, Bengaluru from 6th July to 8th July 2022.

Dr. H. G. CHANDRAKANTH
Principal - SaIT

Dr. U. B. MALLIKARJUNA
Head of the Department
Department of Civil Engineering
SaIT.

MONICA M.S.
DILNA JOSE
CADD Workshop Coordinators
SaIT.

M. Manjunath Reddy
Proprietor / Instructor
SAI CADD

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CADD Training / CADD Projects / CADD Placements

No : 131, 2nd Floor, 1st Main, 2nd Stage, Kengeri Satellite Town, (Beside Union Bank of India) Bangalore - 560 060, INDIA
Cell : 99019 95109 / 93413 46619 / Email : training@saicadd.com, www.saicadd.com

SAMBHRAM INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION

VALUE ADDED COURSES

SL NO.	ACADEMIC YEAR	COURSE NAME
1	2018-19	• DIGITAL SYSTEMS • COMPUTER ARCHITECTURE • RF/ANTENNA FUNDAMENTALS

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Amba Bhavani Temple Road, M.S.Palya, Vidyaranyapura Post, Bangalore-560097.

DEPARTMENT OF ELECTRONICS & COMMUNICATION : Consolidated Details of Value Added Course (2018-19)

SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
1	1ST15EC028	DEEPAK R	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
2	1ST16EC016	BISHAL CHAURASIYA	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
3	1ST17EC001	ABHISHEK SARKAR	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
4	1ST17EC002	AJAY KUMAR	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
5	1ST17EC003	AKSHATHA H R	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
6	1ST17EC004	ALIYA KOUSAR N	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
7	1ST17EC005	ANAND KUMAR	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
8	1ST17EC007	APARNA P V	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
9	1ST17EC008	ARGHYADEEP ROY	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
10	1ST17EC010	ASHA RAMESH KAGAWAD	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
11	1ST17EC011	B S NISHANTH	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
12	1ST17EC012	BACHASPATIMAYUM ARJUN SHARMA	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
13	1ST17EC013	BAIBHAV PADHY	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
14	1ST17EC014	BHARATH S L	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
15	1ST17EC016	BHUVANESHWARI M	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
16	1ST17EC018	C S CHANDANA	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
17	1ST17EC019	CHANDANA H	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
18	1ST17EC020	CHARAN RAO S L	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
19	1ST17EC021	CHETHAN R G	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
20	1ST17EC023	DHRUVA B	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
21	1ST17EC024	DIVYA A	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
22	1ST17EC025	G JAYAVARDHAN REDDY	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
23	1ST17EC026	GANESH NAIDU	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
24	1ST17EC027	GANESH S E	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
25	1ST17EC028	GANTI SAI SAGAR	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
26	1ST17EC030	KARTHIK K	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	

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SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
27	1ST17EC031	KARTIK	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
28	1ST17EC033	KUNAPALLI MAHESH	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
29	1ST17EC034	LAVANYA K	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
30	1ST17EC035	MALLIKARJUN	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
31	1ST17EC037	MUNIT KUMAR YADAV	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
32	1ST17EC038	NAMRATHA S	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
33	1ST17EC040	PARIJATHA	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
34	1ST17EC041	POOJA V H	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
35	1ST17EC042	PRASHANAT KUMAR	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
36	1ST17EC043	PRASHANT K S	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
37	1ST17EC044	PRATHAMESH N	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
38	1ST17EC045	PRIYA M	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
39	1ST17EC048	R HIMASWETHA	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
40	1ST17EC050	RAJESHWARI PATIL	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
41	1ST17EC051	RAKSHITHA R	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
42	1ST17EC052	RAMYA	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
43	1ST17EC053	RAMYA S H	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
44	1ST17EC055	SAJAL NAYAN	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
45	1ST17EC056	SANDEEP SINGH	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
46	1ST17EC057	SANJAY KUMAR S	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
47	1ST17EC058	SANJAY T S	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
48	1ST17EC059	SHAIK ZAINUDDIN	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
49	1ST17EC060	SHARANYA S	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
50	1ST17EC061	SHIVAM GOYAL	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
51	1ST17EC062	SHRINIVAS H MEDUR	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
52	1ST17EC063	SNEHA PRAMANIK	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
53	1ST17EC064	SNEHA S	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
54	1ST17EC065	SOMA SHEKAR N	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
55	1ST17EC066	STANDLEY DAVID	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
56	1ST17EC067	SWETHA V P	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
57	1ST17EC068	TEJASWINI G	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
58	1ST17EC069	VANDHANA M K	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	

SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
59	1ST17EC070	VASANTH KUMAR V	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
60	1ST17EC071	VIDYASHREE M	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
61	1ST17EC072	VISHWAS G	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
62	1ST17EC074	YENUMULA LIKITHA	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
63	1ST17EC077	MAMATHA	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
64	1ST17EC700	BHAMINI P	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
65	1ST17EC701	HARISH B	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
66	1ST17EC702	MANJUNATH L	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
67	1ST17EC705	RAKESH C S	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
68	1ST18EC401	DILEEP KUMAR K S	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
69	1ST18EC402	NEHA KUMARI	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
70	1ST15EC011	ANUPAM PRIYA	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
71	1ST15EC019	CLARY CHRISTION	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
72	1ST15EC096	SAHIL	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
73	1ST15EC116	SUNIL KUMAR R	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
74	1ST15EC118	SURAKSHITH	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
75	1ST15EC127	VAISHNAVI BHAT	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
76	1ST15EC711	UMESH G	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
77	1ST16EC004	AKHILESH KALAL	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
78	1ST16EC011	ARUN K	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
79	1ST16EC024	DIVYA G	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
80	1ST16EC030	JEEVAN BALAJI G V	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
81	1ST16EC031	KEVIN RAJ	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
82	1ST16EC042	NIDHI V KAVYA	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
83	1ST16EC058	SACHIN S	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
84	1ST16EC067	SURAJ J JHA	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
85	1ST16EC070	SAYED TABREZ PASHA	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
86	1ST17EC401	BHARATH K K	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
87	1ST14EC038	DIVYA SWETA	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
88	1ST15EC007	AMBARESH K N	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
89	1ST15EC134	GINNAM MAHA LAKSHMI	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
90	1ST16EC014	BHUVANESH S	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	

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SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
91	1ST16EC032	KISHOR CHANDRA K S	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
92	1ST16EC404	KANCHANA A S	Digital Systems	Genesis	30 hours	19-02-2019	23-02-2019	
1	1ST14EC002	ABHISHEK N	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
2	1ST14EC008	AKSHITH A S	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
3	1ST15EC002	ABHISHEK A S	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
4	1ST15EC013	ASHIKA D	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
5	1ST15EC024	CHETHAN J	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
6	1ST15EC036	HEMANTH KUMAR C	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
7	1ST15EC043	KAVYA	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
8	1ST15EC053	MD ZEESHAL	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
9	1ST15EC073	PRASHANTH C N	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
10	1ST15EC103	SIREESHA L	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
11	1ST15EC114	SUMANTH B M	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
12	1ST15EC120	SUSMITHA M S	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
13	1ST15EC122	SYEDA ARSHIYA	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
14	1ST15EC129	VARUN M	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
15	1ST15EC132	VIVEK A	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
16	1ST15EC135	VICKY M	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
17	1ST15EC700	AISHWARYA R	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
18	1ST15EC701	AJAY KUMAR H	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
19	1ST15EC708	RONALD C	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
20	1ST15EC709	SHARANYA S V	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
21	1ST15EC712	RAHUL RAJ	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
22	1ST16EC001	ABHIGNAN L KRUPA	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
23	1ST16EC002	ABHISHEK SINGH	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
24	1ST16EC003	AGALYA PRIYA DARSINI S S	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
25	1ST16EC005	ANANYA D B	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
26	1ST16EC006	ANUJA B	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
27	1ST16EC007	ANUSHA K T	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
28	1ST16EC008	ANUSHA U	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
29	1ST16EC009	ARAVIND KUMAR P	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
30	1ST16EC010	ARPITHA S	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	

SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
31	1ST16EC013	BASANAGOUDA V P	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
32	1ST16EC015	BHUVANESHWARI R	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
33	1ST16EC017	BRUNDA T M	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
34	1ST16EC018	CHITRANJALI TANWAR	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
35	1ST16EC019	DAKSHAYINI S	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
36	1ST16EC020	DARSHAN P	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
37	1ST16EC021	DEEPAK K	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
38	1ST16EC022	DHANUSHREE N	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
39	1ST16EC023	DIMPLE SINGH S	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
40	1ST16EC025	GAGANA R	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
41	1ST16EC026	GINNAM GOWRI PRIYA	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
42	1ST16EC027	GIRIDHAR C GARADIMANI	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
43	1ST16EC028	HARSHITHA S	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
44	1ST16EC029	HEMKUMAR S	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
45	1ST16EC034	MAHIMA G K	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
46	1ST16EC035	MAMATHA B	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
47	1ST16EC037	MEGHANA M	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
48	1ST16EC039	MYTHRI M HEGADE	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
49	1ST16EC040	N LAXMI SOWMYA	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
50	1ST16EC041	NAMRATHA PRAKASH	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
51	1ST16EC043	NITHYASHREE K	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
52	1ST16EC044	NIVEDITHA S N	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
53	1ST16EC047	PHANINDRA D	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
54	1ST16EC048	PRAMOD T	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
55	1ST16EC050	RACHANA G B	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
56	1ST16EC051	RACHANA. S IYENGAR	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
57	1ST16EC052	RAHUL RAMESH	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
58	1ST16EC053	RANJITHA DANANJAY N	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
59	1ST16EC055	RESHMI SUSAN CHACKO	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
60	1ST16EC056	REVATHI K	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
61	1ST16EC057	RUSHIKESH SHYAM BARVE	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
62	1ST16EC059	SAROJ KUMAR MANDAL	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	

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SL.NO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
63	1ST16EC061	SHASHANK	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
64	1ST16EC062	SHASHANK S	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
65	1ST16EC063	SHIVAKUMAR B	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
66	1ST16EC065	SRINIVAS D	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
67	1ST16EC066	SUPREETH R KALLURAYA	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
68	1ST16EC068	SUSHIL LAMSAL	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
69	1ST16EC069	SWATHI S R	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
70	1ST16EC071	UDAY A R	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
71	1ST16EC073	VEERAMMA MALLIKARJUNA ANGADI	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
72	1ST16EC074	VIDHYA VIKRAMAN	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
73	1ST16EC077	YASODHA	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
74	1ST16EC078	SKANDANA S PANDIT	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
75	1ST16EC079	ASHWITHA R	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
76	1ST16EC408	NISARGA D	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
77	1ST16EC700	AISHWARYA G	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
78	1ST16EC701	ANKITHA NB	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
79	1ST16EC704	MANMOHAN M H	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
80	1ST16EC706	SHILPA H NAIK	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
81	1ST17EC400	ADARSH V	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
82	1ST17EC403	SREEKANTH	Computer architecture	Genesis	30 hours	11-03-2019	23-02-2019	
1	1ST13EC054	JUNAID	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	
2	1ST15EC001	AAKANKSHA DUBEY	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	
3	1ST15EC004	ADITYA SHRIDHAR BHAT	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	
4	1ST15EC005	AKSHAY N DIVATE	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	
5	1ST15EC006	AMAR GANAPATI HEGDE	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	
6	1ST15EC008	AMIT PRIYADARSHI	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	
7	1ST15EC010	ANKITHA V	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	
8	1ST15EC017	BANU KIRAN G R	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	
9	1ST15EC020	CHANDANA S	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	
10	1ST15EC021	CHANDRIKA SINGH M	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	
11	1ST15EC022	CHARAN A	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	

SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
12	1ST15EC025	CHOODAMANI P	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	
13	1ST15EC026	D MANJUNATHA REDDY	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	
14	1ST15EC029	DHIRENDRA KUMAR PATEL	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	
15	1ST15EC030	DIPTEE B L	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	
16	1ST15EC031	DIVYA A M	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	
17	1ST15EC034	GIRISH B O	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	
18	1ST15EC037	JAISHREE M N	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	
19	1ST15EC038	JANHAVI M IYENGAR	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	
20	1ST15EC039	K M SALONI TIWARI	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	
21	1ST15EC040	KARUNA K	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	
22	1ST15EC041	KAVANA SIRI M A	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	
23	1ST15EC043	KAVYA A	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	
24	1ST15EC047	KUBRA BANU	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	
25	1ST15EC050	LIKHITH K A	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	
26	1ST15EC054	MANDARA C.Y	RF/Antenna Fundamentals	Genesis	30 hours	08-04-2019	12-04-2019	

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CERTIFICATE OF COMPLETION

This is to Certify that Ms./Mr. _____ PRATHAMESH N _____

bearing USN _____ 1ST17EC071 _____ of Semester _____ 3rd _____ has

successfully completed the 48-hours Value-Added course on

DIGITAL SYSTEMS

from 19th FEB 2019 to 23th FEB 2019.

Akshay V Agasthya
Vice President - Learning and Development
Genesis Training, Bengaluru

PRINCIPAL
Sambhram Institute of Technology
M.S. Palya, Bangalore - 560 097

Dr. H.G. Chandrakanth
Prinicipal
Sambhram Institute Of Technology

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SAMBHRAM INSTITUTE OF TECHNOLOGY
IN ASSOCIATION WITH
GENESIS TRAINING

CURRICULUM

Course: Sensor system technology   **Academic Year:** 2018-19

Contents:

1. **Types of Sensors**
   - Temperature Sensors (Thermocouples, RTDs)
   - Proximity Sensors (Inductive, Capacitive, Ultrasonic)
   - Accelerometers and Gyroscopes
   - Optical Sensors (Photodiodes, Phototransistors)
   - Chemical Sensors

2. **Sensor Characteristics and Specifications**
   - Sensitivity, accuracy, precision
   - Resolution
   - Range

3. **Challenges in Sensor Design and Implementation**
   - Environmental Effects
   - Power Consumption
   - Miniaturization

4. **Sensor fundamentals and characteristics**
   - Sensor Classification, Performance and Types, Error Analysis characteristics

5. **Optical Sources and Detectors**
   - Electronic and Optical properties of semiconductor as sensors, LED, Semiconductor lasers, Fiber optic sensors, Thermal detectors, Photo multipliers, photoconductive detectors, Photodiodes, Avalanche photodiodes, CCDs.

GENESIS TRAINING

Course: Sensor system technology

Academic year: 2018-19

Semester:

USN:

1. **Change in output of** sensor with change in input is _____
   a) Threshold
   b) Slew rate
   c) Sensitivity
   d) None of the mentioned

2.

3. **Which of the following can be cause for non-zero output when zero input?**
   a) Bias
   b) Slew
   c) Offset
   d) Offset or bias

4. **Which of the following is NOT the application of capacitive element sensors?**
   a) Level control of liquids
   b) Small vessel pump control
   c) Pollution detection
   d) Metrology applications to measure shape errors

5. **Proximity sensors are used to _____.**
   a) Detect non magnetic but conductive materials
   b) Measure strain
   c) Measure distance
   d) Measure temperature

6. **Which of the following defines smartness of sensor?**
   a) Quality of data
   b) Circuit size
   c) Circuit components
   d) All of the mentioned

6. Which network is used by a sensor?

    a) PAN and LAN
    b) PAN and HAN
    c) HAN and LAN
    d) HAN, PAN, and LAN

7. In sensor systems, what does 'calibration' refer to?

    a) Installing the sensor
    b) Adjusting the sensor to ensure accuracy
    c) Replacing the sensor
    d) Cleaning the sensor

8. LIDAR is a technology commonly used in autonomous vehicles. What does LIDAR stand for?

    a) Light Detection and Ranging
    b) Laser Infrared Detection and Ranging
    c) Light Interference Distance and Ranging
    d) Laser Interference Distance and Ranging

9. Which type of sensor can be used to measure distance without physical contact?

    a) Capacitive sensor
    b) Inductive sensor
    c) Ultrasonic sensor
    d) Pressure sensor

10. Which sensor is typically used in a smoke detector?

    a) Infrared sensor
    b) Optical sensor
    c) Chemical sensor
    d) Acoustic sensor

11. What does an accelerometer measure?

    a) Temperature
    b) Pressure
    c) Acceleration
    d) Humidity

12. What is the principle behind a capacitive touch sensor?

    a) Measuring light intensity
    b) Detecting changes in electrical capacitance
    c) Sensing temperature changes
    d) Measuring sound waves

13. **Application of Tactile sensors is** _____.
   a) Elevator touch-sensitive buttons
   b) Smart mobile phones
   c) Cars
   d) Both a and b

14. **In LDR sensor, if the intensity of light applied is more, its resistance value becomes** _____.
   a) Less
   b) High
   c) Zero
   d) Infinity

15. **What is the resistance value of the LDR sensor in presence of light** _____.
   a) Several mega ohms
   b) 100 ohms
   c) 10-100ohms
   d) 10,0000 ohms

16. **What is the resistance value of the LDR sensor in absence of light** _____.
   a) Several mega ohms
   b) 100's of megaohms
   c) 10-100ohms
   d) 10,0000 ohms

17. **What is the maximum voltage value of the LDR sensor at 0 lux?**
   a) 200V
   b) 100V
   c) 250V
   d) 300V

18. **In** _____ **step of chemical sensor molecules interact selectively with receptor type molecules.**
   a) Transduction
   b) Recognition
   c) Both a and b
   d) None of the above

19. **Which of the following are the typical kind of biometric materials used for the development of sensors?**
   a) Aptamers
   b) Molecularly imprinted polymers
   c) Both a and b

d) None of the above

20. Digital sensors converter measure input value to digital form in _____ method.
   a) Direct
   b) Indirect
   c) Both a and
   d) None of the above

SAMBHRAM INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION

VALUE ADDED COURSES

SL NO.	ACADEMIC YEAR	COURSE NAME
1	2019-20	• DIGITAL DESIGN USING VERILOG • MICROPROCESSOR/MICROCONTROLLER • DESIGN AND VERIFICATION OF DIGITAL CIRCUITS

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Sambhram Institute of Technology
M.S, Palya, Bangalore - 560 097

SAMBHRAM INSTITUTE OF TECHNOLOGY

Amba Bhavani Temple Road, M.S.Palya, Vidyaranyapura Post, Bangalore-560097.

DEPARTMENT OF ELECTRONICS & COMMUNICATION : Consolidated Details of Value Added Course (2019-20)

SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
1	1ST18EC001	ALSTEN GEO ANAND	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
2	1ST18EC002	ANIL KUMAR YADAV	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
3	1ST18EC005	ARPITHA H S	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
4	1ST18EC006	CHAYA V	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
5	1ST18EC007	DEEPIKA S R	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
6	1ST18EC008	HEMANTH K GOWDA	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
7	1ST18EC009	INDUSHREE S	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
8	1ST18EC010	KAVERI P HATTIKATAGI	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
9	1ST18EC012	LEELAVATHI K	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
10	1ST18EC013	LEONS G	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
11	1ST18EC015	MADHUSHREE R	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
12	1ST18EC016	MALLAMMA	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
13	1ST18EC017	MANISH KUMAR	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	

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SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
14	1ST18EC018	MILIND KUMAR MISHRA	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
15	1ST18EC020	MONIKA D	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
16	1ST18EC021	MRITUNJAY SHARMA	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
17	1ST18EC022	NAMITHA K	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
18	1ST18EC025	PAVEEN KUMAR	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
19	1ST18EC026	POOJA K S	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
20	1ST18EC027	POOJASHREE K	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
21	1ST18EC029	PRASHANT KUMAR	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
22	1ST18EC030	RAGHAVENDRA H	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
23	1ST18EC031	RAKESH KUMAR	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
24	1ST18EC032	RAKSHITHA N	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
25	1ST18EC033	RAMYA P	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
26	1ST18EC034	SAHANA H K	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
27	1ST18EC035	SAHANA M	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
28	1ST18EC036	SANDEEP S	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	

SL.NO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
29	1ST18EC037	SANDESH R	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
30	1ST18EC038	SHARATH R PUTHRAN	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
31	1ST18EC039	SHASHANTH GOWDA H C	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
32	1ST18EC040	SHASHI KUMAR R	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
33	1ST18EC041	SHUBHAM KUMAR	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
34	1ST18EC042	SOUJANYA KALAL	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
35	1ST18EC043	SUKANYA KALAL	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
36	1ST18EC046	SWATI G SHANBHAG	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
37	1ST18EC047	TANYA R	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
38	1ST18EC048	THAMINI V	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
39	1ST18EC049	VARSHA V	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
40	1ST18EC050	VEDASHREE R	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
41	1ST18EC051	VIJAY KUMAR S	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
42	1ST18EC052	YOGANANDA M N	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
43	1ST19EC400	RAJINI V	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	
44	1ST19EC401	BHAVANA B V	Digital design using verilog	Genesis	30 hours	19-06-2019	23-06-2019	

SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
1	IST15EC028	DEEPAK R	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
2	IST16EC016	BISHAL CHAURASIYA	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
3	IST17EC001	ABHISHEK SARKAR	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
4	IST17EC002	AJAY KUMAR	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
5	IST17EC003	AKSHATHA H R	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
6	IST17EC004	ALIYA KOUSAR N	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
7	IST17EC005	ANAND KUMAR	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
8	IST17EC007	APARNA P V	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
9	IST17EC008	ARGHYADEEP ROY	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
10	IST17EC010	ASHA RAMESH KAGAWAD	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
11	IST17EC011	B S NISHANTH	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
12	IST17EC012	BACHASPATIMAYUM ARJU	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
13	IST17EC013	BAIBHAV PADHY	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
14	IST17EC014	BHARATH S L	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
15	IST17EC016	BHUVANESHWARI M	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
16	IST17EC018	C S CHANDANA	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	

SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
17	1ST17EC019	CHANDANA H	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
18	1ST17EC020	CHARAN RAO S L	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
19	1ST17EC021	CHETHAN R G	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
20	1ST17EC023	DHRUVA B	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
21	1ST17EC024	DIVYA A	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
22	1ST17EC025	G JAYAVARDHAN REDDY	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
23	1ST17EC026	GANESH NAIDU	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
24	1ST17EC027	GANESH S E	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
25	1ST17EC028	GANTI SAI SAGAR	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
26	1ST17EC030	KARTHIK K	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
27	1ST17EC031	KARTIK	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
28	1ST17EC033	KUNAPALLI MAHESH	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
29	1ST17EC034	LAVANYA K	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
30	1ST17EC035	MALLIKARJUN	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
31	1ST17EC037	MUNIT KUMAR YADAV	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
32	1ST17EC038	NAMRATHA S	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	

SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
33	1ST17EC040	PARIJATHA	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
34	1ST17EC041	POOJA V H	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
35	1ST17EC042	PRASHANAT KUMAR	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
36	1ST17EC043	PRASHANT K S	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
37	1ST17EC044	PRATHAMESH N	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
38	1ST17EC045	PRIYA M	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
39	1ST17EC048	R HIMASWETHA	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
40	1ST17EC050	RAJESHWARI PATIL	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
41	1ST17EC051	RAKSHITHA R	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
42	1ST17EC052	RAMYA	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
43	1ST17EC053	RAMYA S H	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
44	1ST17EC055	SAJAL NAYAN	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
45	1ST17EC056	SANDEEP SINGH	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
46	1ST17EC057	SANJAY KUMAR S	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
47	1ST17EC058	SANJAY T S	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
48	1ST17EC059	SHAIK ZAINUDDIN	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	

SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
49	1ST17EC060	SHARANYA S	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
50	1ST17EC061	SHIVAM GOYAL	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
51	1ST17EC062	SHRINIVAS H MEDUR	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
52	1ST17EC063	SNEHA PRAMANIK	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
53	1ST17EC064	SNEHA S	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
54	1ST17EC065	SOMA SHEKAR N	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
55	1ST17EC066	STANDLEY DAVID	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
56	1ST17EC067	SWETHA V P	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
57	1ST17EC068	TEJASWINI G	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
58	1ST17EC069	VANDHANA M K	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
59	1ST17EC070	VASANTH KUMAR V	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
60	1ST17EC071	VIDYASHREE M	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
61	1ST17EC072	VISHWAS G	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
62	1ST17EC074	YENUMULA LIKITHA	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
63	1ST17EC077	MAMATHA	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
64	1ST17EC700	BHAMINI P	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	

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SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
65	1ST17EC701	HARISH B	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
67	1ST17EC705	RAKESH C S	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
68	1ST18EC401	DILEEP KUMAR K S	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
69	1ST18EC402	NEHA KUMARI	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
70	1ST15EC011	ANUPAM PRIYA	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
71	1ST15EC019	CLARY CHRISTION	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
72	1ST15EC096	SAHIL	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
73	1ST15EC116	SUNIL KUMAR R	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
74	1ST15EC118	SURAKSHITH	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
75	1ST15EC127	VAISHNAVI BHAT	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
76	1ST15EC711	UMESH G	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
77	1ST16EC004	AKHILESH KALAL	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
78	1ST16EC011	ARUN K	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
79	1ST16EC024	DIVYA G	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
80	1ST16EC030	JEEVAN BALAJI G V	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
81	1ST16EC031	KEVIN RAJ	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	

SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
82	1ST16EC042	NIDHI V KAVYA	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
83	1ST16EC058	SACHIN S	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
84	1ST16EC067	SURAJ J JHA	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
85	1ST16EC070	SAYED TABREZ PASHA	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
86	1ST17EC401	BHARATH K K	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
87	1ST14EC038	DIVYA SWETA	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
88	1ST15EC007	AMBARESH K N	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
89	1ST15EC134	GINNAM MAHA LAKSHMI	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
90	1ST16EC014	BHUVANESH S	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
91	1ST16EC032	KISHOR CHANDRA K S	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
92	1ST16EC404	KANCHANA A S	Microprocessor/Microcontroller	Genesis	30 hours	21-10-2019	26-10-2019	
1	1ST14EC002	ABHISHEK N	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
2	1ST14EC008	AKSHITH A S	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
3	1ST15EC002	ABHISHEK A S	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
4	1ST15EC013	ASHIKA D	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
5	1ST15EC024	CHETHAN J	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	

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SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
6	1ST15EC036	HEMANTH KUMAR C	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
7	1ST15EC043	KAVYA	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
8	1ST15EC053	MD ZEESHAL	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
9	1ST15EC073	PRASHANTH C N	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
10	1ST15EC103	SIREESHA L	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
11	1ST15EC114	SUMANTH B M	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
12	1ST15EC120	SUSMITHA M S	Design & Verification of digital circuits	Genesis	33 hours	05-06-2019	09-06-2019	
13	1ST15EC122	SYEDA ARSHIYA	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
14	1ST15EC129	VARUN M	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
15	1ST15EC132	VIVEK A	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
16	1ST15EC135	VICKY M	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
17	1ST15EC700	AISHWARYA R	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
18	1ST15EC701	AJAY KUMAR H	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
19	1ST15EC708	RONALD C	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
20	1ST15EC709	SHARANYA S V	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
21	1ST15EC712	RAHUL RAJ	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	

SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
22	1ST16EC001	ABHIGNAN L KRUPA	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
23	1ST16EC002	ABHISHEK SINGH	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
24	1ST16EC003	AGALYA PRIYA DARSINI S	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
25	1ST16EC005	ANANYA D B	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
26	1ST16EC006	ANUJA B	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
27	1ST16EC007	ANUSHA K T	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
28	1ST16EC008	ANUSHA U	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
29	1ST16EC009	ARAVIND KUMAR P	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
30	1ST16EC010	ARPITHA S	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
31	1ST16EC013	BASANAGOUDA V P	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
32	1ST16EC015	BHUVANESHWARI R	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
33	1ST16EC017	BRUNDA TM	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
34	1ST16EC018	CHITRANJALI TANWAR	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
35	1ST16EC019	DAKSHAYINI S	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
36	1ST16EC020	DARSHAN P	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
37	1ST16EC021	DEEPAK K	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	

SL NO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
38	1ST16EC022	DHANUSHREE N	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
39	1ST16EC023	DIMPLE SINGH S	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
40	1ST16EC025	GAGANA R	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
41	1ST16EC026	GINNAM GOWRI PRIYA	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
42	1ST16EC027	GIRIDHAR C GARADIMANI	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
43	1ST16EC028	HARSHITHA S	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
44	1ST16EC029	HEMKUMAR S	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
45	1ST16EC034	MAHIMA G K	Design & Verification of digital circuits	Genesis	31 hours	05-06-2019	09-06-2019	
46	1ST16EC035	MAMATHA B	Design & Verification of digital circuits	Genesis	32 hours	05-06-2019	09-06-2019	
47	1ST16EC037	MEGHANA M	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
48	1ST16EC039	MYTHRI M HEGADE	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
49	1ST16EC040	N LAXMI SOWMYA	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
50	1ST16EC041	NAMRATHA PRAKASH	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
51	1ST16EC043	NITHYASHREE K	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
52	1ST16EC044	NIVEDITHA S N	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
53	1ST16EC047	PHANINDRA D	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	

SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
54	1ST16EC048	PRAMOD T	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
55	1ST16EC050	RACHANA G B	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
56	1ST16EC051	RACHANA. S IYENGAR	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
57	1ST16EC052	RAHUL RAMESH	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
58	1ST16EC053	RANJITHA DANANJAY N	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
59	1ST16EC055	RESHMI SUSAN CHACKO	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
60	1ST16EC056	REVATHI K	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
61	1ST16EC057	RUSHIKESH SHYAM BARVE	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
62	1ST16EC059	SAROJ KUMAR MANDAL	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
63	1ST16EC061	SHASHANK	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
64	1ST16EC062	SHASHANK S	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
65	1ST16EC063	SHIVAKUMAR B	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
66	1ST16EC065	SRINIVAS D	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
67	1ST16EC066	SUPREETH R KALLURAYA	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
68	1ST16EC068	SUSHIL LAMSAL	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
69	1ST16EC069	SWATHI S R	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	

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SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
70	1ST16EC071	UDAY A R	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
71	1ST16EC073	VEERAMMA MALLIKARJUNA ANGADI	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
72	1ST16EC074	VIDHYA VIKRAMAN	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
73	1ST16EC077	YASODHA	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
74	1ST16EC078	SKANDANA S PANDIT	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
75	1ST16EC079	ASHWITHA R	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
76	1ST16EC408	NISARGA D	Design & Verification of digital circuits	Genesis	32 hours	05-06-2019	09-06-2019	
77	1ST16EC700	AISHWARYA G	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
78	1ST16EC701	ANKITHA NB	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
79	1ST16EC704	MANMOHAN M H	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
80	1ST16EC706	SHILPA H NAIK	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
81	1ST17EC400	ADARSH V	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	
82	1ST17EC403	SREEKANTH	Design & Verification of digital circuits	Genesis	30 hours	05-06-2019	09-06-2019	

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This is to Certify that Ms./Mr. _____ APARNA P.V _____

bearing USN _____ 1ST17EC007 _____ of Semester _____ 5th _____

has successfully completed the 48-hours Value-Added course on

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Akshay V Agasthya
Vice President - Learning and
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SAMBHRAM INSTITUTE OF TECHNOLOGY
IN ASSOCIATION WITH
GENESIS TRAINING
CURRICULUM

Course Name: Design and Verification of digital circuits   **Academic Year:** 2019-20

Contents

Introduction of digital systems. Number system

Number representation: BCD, floating point numbers

Boolean algebra, application of Boolean algebra in minimization of Boolean expressions

Boolean minimization using K-map and Quine McCluskey method. Introduction to Verilog

MSI Logic: Multiplexer, encoder, decoder

Arthimetic circuits: Adder, subtractor, multiplier, comparator

Latches and flipflop (SR, JK, T, D), counters

Sequential logic like Registers, introduction to behavior modeling in Verilog

Finite state machine, state graphs and tables.

Reduction of state table and state assignments. Arithmetic circuits using sequential design.

Register transfer level (RTL) design, RTL design examples

FPGA, VLSI design flow using HDL, introduction to behavior, logic and physical synthesis.

GENESIS TRAINING

Course: Design and Verification of digital circuits

Academic year:2019-20

Semester: 3rd

USN:

1.One application of a digital de-multiplexer is to facilitate:

a) Data generation

b) serial-to-parallel conversion

c) parity checking

d) data selector

2.Which of the following device can be used for data compression:;

a) Encoder

b) Decoder

c) De-multiplexer

d) comparator

3.In Parameter left hand side can be:

a) reg

b) wire

c) integer

d) A,C

4.In the below code, a=5'b10100; what is the value c?

C=a>>>2;

a)5'b00101

b) 5'b11101

c) 5'bxx101

d) high impedance

5.Implicit events are recommended only for

a) combinational circuits

b) sequential circuits

c) both a and b

d) all of the above

6.If a=1'b1, assign y=(a=2'b11) then value of y (2bits) will be

a) 2'b11

b) 2'b01

c) 2'b00

d) 2'b10

7.Variable value can be overridden at module instance by

a) include

b) define

c) ifdef

d) none

8. What is the default size of time datatype

a) 32 bit signed

b)32 bit unsigned

c) 64 bit signed

d) 64 bit unsigned

9. Which construct is used to terminate active procedures?

a) $finish

b) $stop

c) disable

d) exit

10. How many no. of flipflops are required for designing a circuit for generating a sequence 110110?

a)2

b) 6

c)3

d) 4

11."assign" within a procedural block gives

a) compilation error

b) elaboration error

c) simulation error

d) none

12. In Verilog 'h1234 is a

a) 16 bit hexadecimal number

b)32 bit hexadecimal number

c) 4 bit hexadecimal number

d)8 bit hexadecimal number

13.A latch is an example of

a) Monostable multivibrator

b) Bi-stable multivibrator

c) Astable multivibrator

d) 555 timer

14. Which of the following is reprogrammed electrically by the user ?

a) ROM

b)PROM

c) EEPROM

d) EPROM

15. Parameter constants can be overridden by using

a) defparam

b)include

c) ifdef

d) timescale

16. When both inputs of NAND based SR Latch has input S=R=0, output is

a) Reset

b) Set

c) No change

d) Invalid

17. According to more circuit, the output of synchronous sequential circuit depend's on_____of flipflop?

a) next state

b) state transition

c) present state

d) external inputs

18.A MOD-16 ripple up counter is holding the count 1001. What will be count be after 686 clock pulses?

a) 1000

b) 1010

b)1011

d)0111

19. Why was PROM introduced?

a) To increase the storage capacity

b)To provide flexibility

c) To increase the address locations

d) To reduce the size

20. The inputs in the PLD are given through_____

a) OR gates

b) NAND gates

c) NOR gates

d) AND gates

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION

VALUE ADDED COURSES

SL NO.	ACADEMIC YEAR	COURSE NAME
1	2020-21	• DIGITAL DESIGN USING VERILOG • DIGITAL SIGNAL PROCESSING APPLICATIONS • SIGNAL PROCESSING USING MATLAB

H G

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DEPARTMENT OF ELECTRONICS & COMMUNICATION : Consolidated Details of Value Added Course (2020-21)

SLNO.	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
1	1ST18EC003	ANU J	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
2	1ST18EC004	ARATHI M L	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
3	1ST18EC014	VINAY KRISHNA M.S	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
4	1ST18EC024	NEVIL SEBASTIAN	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
5	1ST18EC044	SUMIT NAYAK	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
6	1ST18EC045	SUNIL KUMAR	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
7	1ST18EC700	MAHESH BABU S	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
8	1ST19EC001	ABHISHEK	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
9	1ST19EC002	AMBIKA S .BHAT	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
10	1ST19EC003	A CHIRUDEEPESH REDDY	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
11	1ST19EC004	BHAVANA SHREE M	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
12	1ST19EC005	BHAVYA .S	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
13	1ST19EC006	CHRISTOPER	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
14	1ST19EC007	DASAM VENKATA MANIKAN	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
15	1ST19EC009	DHANUSH A NAYAKA	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
16	1ST19EC010	DHANUSH B GANGATKAR	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
17	1ST19EC011	GAUTAM C	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
18	1ST19EC012	GONUGUNTLA PRASAD	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
19	1ST19EC013	GOWTHAM R	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
20	1ST19EC014	HARSHITHA.S	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
21	1ST19EC015	K.SAMARA SIMHA REDDY	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
22	1ST19EC016	KAVYASHREE V	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
23	1ST19EC017	HARISH .K	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
24	1ST19EC018	LAKSHMI.R	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
25	1ST19EC020	MANU D	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
26	1ST19EC021	MOBARK AHMED YOUS OG	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
27	1ST19EC022	PRANAV RAO J	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	

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M.S. Palya, Bangalore - 560 097

SLNO.	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
28	1ST19EC023	PRUTHIVI DM	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
29	1ST19EC024	R LEENA JAYASHREE	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
30	1ST19EC025	RAKESH KUMAR	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
31	1ST19EC026	SAI SANSHAR.G	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
32	1ST19EC027	SANJAY.T	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
33	1ST19EC028	SHARON VARGHESE	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
34	1ST19EC029	SPURTHI J HIREMATH	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
35	1ST19EC030	SUHAS .V	Digital Design using Verilog	Genesis	30 hours	04-05-2021	08-05-2021	
1	1ST18EC001	ALSTEN GEO ANAND	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
2	1ST18EC002	ANIL KUMAR YADAV	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
3	1ST18EC005	ARPITHA H S	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
4	1ST18EC006	CHAYA V	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
5	1ST18EC007	DEEPIKA S R	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
6	1ST18EC008	HEMANTH K GOWDA	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
7	1ST18EC009	INDUSHREE S	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
8	1ST18EC010	KAVERI P HATTIKATAGI	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
9	1ST18EC012	LEELAVATHI K	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
10	1ST18EC013	LEONS G	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
11	1ST18EC015	MADHUSHREE R	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
12	1ST18EC016	MALLAMMA	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
13	1ST18EC017	MANISH KUMAR	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
14	1ST18EC018	MILIND KUMAR MISHRA	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
15	1ST18EC020	MONIKA D	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	

SLNO.	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
16	1ST18EC021	MRITUNJAY SHARMA	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
17	1ST18EC022	NAMITHA K	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
18	1ST18EC025	PAVEEN KUMAR	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
19	1ST18EC026	POOJA K S	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
20	1ST18EC027	POOJASHREE K	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
21	1ST18EC029	PRASHANT KUMAR	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
22	1ST18EC030	RAGHAVENDRA H	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
23	1ST18EC031	RAKESH KUMAR	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
24	1ST18EC032	RAKSHITHA N	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
25	1ST18EC033	RAMYA P	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
26	1ST18EC034	SAHANA H K	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
27	1ST18EC035	SAHANA M	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
28	1ST18EC036	SANDEEP S	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
29	1ST18EC037	SANDESH R	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
30	1ST18EC038	SHARATH R PUTHRAN	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
31	1ST18EC039	SHASHANTH GOWDA H C	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
32	1ST18EC040	SHASHI KUMAR R	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
33	1ST18EC041	SHUBHAM KUMAR	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
34	1ST18EC042	SOUJANYA KALAL	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
35	1ST18EC043	SUKANYA KALAL	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
36	1ST18EC046	SWATI G SHANBHAG	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	

SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
37	1ST18EC047	TANYA R	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
38	1ST18EC048	THAMINI V	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
39	1ST18EC049	VARSHA V	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
40	1ST18EC050	VEDASHREE R	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
41	1ST18EC051	VIJAY KUMAR S	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
42	1ST18EC052	YOGANANDA M N	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
43	1ST19EC400	RAJINI V	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
44	1ST19EC401	BHAVANA B V	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
45	1ST15EC032	DIVYASHREE J.A	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
46	1ST17EC006	ANKITHA G A	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
47	1ST17EC009	ARPITHA K.H	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
48	1ST17EC015	BHAVYASHREE .R	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
49	1ST17EC017	BLESSICA SARADONA	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
50	1ST17EC039	NIDHI.G	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
51	1ST17EC073	YASHWANTH S	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
52	1ST17EC704	RAJAT JEEVAN V	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
53	1ST18EC403	VINOD KUMAR S	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
54	1ST15EC117	SUPRITHA.H	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
55	1ST16EC036	MANOJ M.R	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
56	1ST16EC045	NUMAN SHARIFF R	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
57	1ST16EC046	PALLAVI B A	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	

SLNO.	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
60	1ST20EC400	NAGARJUNA N	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
59	1ST16EC080	ANANDHAN V S	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
58	1ST16EC064	SNEHA M G	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
1	1ST15EC028	DEEPAK R	Digital Signal Processing applications	Genesis	30 hours	30-03-2021	03-04-2021	
2	1ST16EC016	BISHAL CHAURASIYA	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
3	1ST17EC001	ABHISHEK SARKAR	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
4	1ST17EC002	AJAY KUMAR	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
5	1ST17EC003	AKSHATHA H R	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
6	1ST17EC004	ALIYA KOUSAR N	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
7	1ST17EC005	ANAND KUMAR	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
8	1ST17EC007	APARNA P V	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
9	1ST17EC008	ARGHYADEEP ROY	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
10	1ST17EC010	ASHA RAMESH KAGAWAD	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
11	1ST17EC011	B S NISHANTH	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
12	1ST17EC012	BACHASPATIMAYUM ARJUN	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
13	1ST17EC013	BAIBHAV PADHY	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
14	1ST17EC014	BHARATH S L	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
15	1ST17EC016	BHUVANESHWARI M	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
16	1ST17EC018	C S CHANDANA	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
17	1ST17EC019	CHANDANA H	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
18	1ST17EC020	CHARAN RAO S L	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
19	1ST17EC021	CHETHAN R G	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
20	1ST17EC023	DHRUVA B	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
21	1ST17EC024	DIVYA A	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
22	1ST17EC025	G JAYAVARDHAN REDDY	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
23	1ST17EC026	GANESH NAIDU	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
24	1ST17EC027	GANESH S E	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
25	1ST17EC028	GANTI SAI SAGAR	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
26	1ST17EC030	KARTHIK K	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
27	1ST17EC031	KARTIK	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
28	1ST17EC033	KUNAPALLI MAHESH	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	

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SLNO.	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
29	1ST17EC034	LAVANYA K	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
30	1ST17EC035	MALLIKARJUN	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
31	1ST17EC037	MUNIT KUMAR YADAV	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
32	1ST17EC038	NAMRATHA S	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
33	1ST17EC040	PARIJATHA	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
34	1ST17EC041	POOJA V H	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
35	1ST17EC042	PRASHANAT KUMAR	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
36	1ST17EC043	PRASHANT K S	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
37	1ST17EC044	PRATHAMESH N	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
38	1ST17EC045	PRIYA M	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
39	1ST17EC048	R HIMASWETHA	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
40	1ST17EC050	RAJESHWARI PATIL	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
41	1ST17EC051	RAKSHITHA R	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
42	1ST17EC052	RAMYA	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
43	1ST17EC053	RAMYA S H	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
44	1ST17EC055	SAJAL NAYAN	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
45	1ST17EC056	SANDEEP SINGH	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
46	1ST17EC057	SANJAY KUMAR S	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
47	1ST17EC058	SANJAY T S	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
48	1ST17EC059	SHAIK ZAINUDDIN	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
49	1ST17EC060	SHARANYA S	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
50	1ST17EC061	SHIVAM GOYAL	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
51	1ST17EC062	SHRINIVAS H MEDUR	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
52	1ST17EC063	SNEHA PRAMANIK	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
53	1ST17EC064	SNEHA S	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
54	1ST17EC065	SOMA SHEKAR N	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
55	1ST17EC066	STANDLEY DAVID	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
56	1ST17EC067	SWETHA V P	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
57	1ST17EC068	TEJASWINI G	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
58	1ST17EC069	VANDHANA M K	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
59	1ST17EC070	VASANTH KUMAR V	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
60	1ST17EC071	VIDYASHREE M	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
61	1ST17EC072	VISHWAS G	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	

SL.NO.	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
62	1ST17EC074	YENUMULA LIKITHA	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
63	1ST17EC077	MAMATHA	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
64	1ST17EC700	BHAMINI P	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
65	1ST17EC701	HARISH B	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
66	1ST17EC702	MANJUNATH L	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
67	1ST17EC705	RAKESH C S	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
68	1ST18EC401	DILEEP KUMAR K S	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
69	1ST18EC402	NEHA KUMARI	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
70	1ST15EC011	ANUPAM PRIYA	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
71	1ST15EC019	CLARY CHRISTION	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
72	1ST15EC096	SAHIL	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
73	1ST15EC116	SUNIL KUMAR R	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
74	1ST15EC118	SURAKSHITH	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
75	1ST15EC127	VAISHNAVI BHAT	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
76	1ST15EC711	UMESH G	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
77	1ST16EC004	AKHILESH KALAL	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
78	1ST16EC011	ARUN K	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
79	1ST16EC024	DIVYA G	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
80	1ST16EC030	JEEVAN BALAJI G V	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
81	1ST16EC031	KEVIN RAJ	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
82	1ST16EC042	NIDHI V KAVYA	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
83	1ST16EC058	SACHIN S	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
84	1ST16EC067	SURAJ J JHA	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
85	1ST16EC070	SAYED TABREZ PASHA	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
86	1ST17EC401	BHARATH K K	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
87	1ST14EC038	DIVYA SWETA	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
88	1ST15EC007	AMBARESH K N	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
89	1ST15EC134	GINNAM MAHA LAKSHMI	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
90	1ST16EC014	BHUVANESH S	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
91	1ST16EC032	KISHOR CHANDRA K S	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	
92	1ST16EC404	KANCHANA A S	Signal Processing using Matlab	Genesis	30 hours	10-03-2021	14-03-2021	

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INSTITUTION'S
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COUNCIL
(Ministry of Education Initiative)

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Training

CERTIFICATE OF COMPLETION

This is to Certify that Ms./Mr. _____ MONIKA D _____

bearing USN _____ 1ST18EC020 _____ of Semester _____ 6th _____ has

successfully completed the 48-hours Value-Added course on

DIGITAL SIGNAL PROCESSING APPLICATIONS

from 30th MARCH 2021 to 03th MARCH 2021.

Akshay V Agasthya
Vice President - Learning and
Development
Genesis Training, Bengaluru

PRINCIPAL
Sambhram Institute of Technology
M.S. Palya, Bangalore - 560 097

Dr. H.G. Chandrakanth
Prinicipal
Sambhram Institute Of
Technology

SAMBHRAM
INSTITUTE OF TECHNOLOGY

SAMBHRAM INSTITUTE OF TECHNOLOGY
IN ASSOCIATION WITH
GENESIS TRAINING
CURRICULUM

Ph :
23643618
23640612
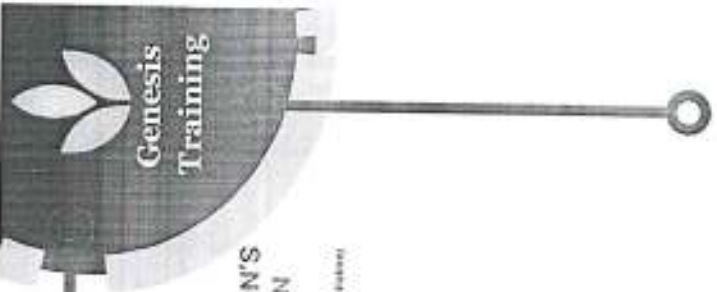
Course Name: Digital design using Verilog

Academic Year: 2020-21

Contents

Introduction to Digital Design and Switching Algebra, Introduction to Digital Design, Switching Algebra.

Number Systems and Binary Codes, Number Systems: Conversion of Bases, Number Systems: Sign representation, 2's complement addition, Binary Codes

Minimization of Switching functions, Minimization of Boolean functions: Karnaugh Map, Introduction to Verilog

Combinational Logic Design: Code Conversion, Parity Checker, Comparator, Multiplexer, Decoder,Decimal Decoder, Full-Adder, Ripple Carry Adder

Combinational Logic Design: Carry Look ahead adder, Sign adder, Add/Sub, BCD Adder, Multiplier, Combinational Design using Verilog

Sequential Design: Flipflop, Counter, Register

Implementation of Flipflop, counters and registers in Verilog, Implementation of FSM using Verilog.

GENESIS TRAINING

Course: Digital design using verilog

Academic year: 2020-21

Semester:

USN:

1.A2-inputXOR gate can be worked as an Inverter(NOTGate) if a =?&b=?

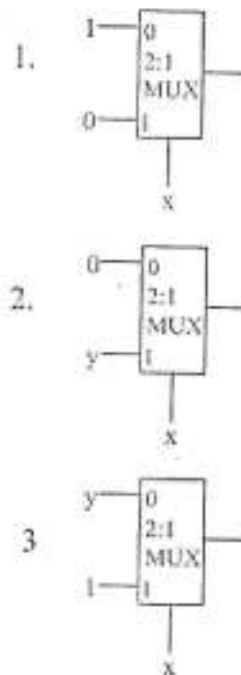   a.A=a,b=0

   b. A=a,b=1

   c. A=b.b=a

   d.None

2.Which model uses transistors as their basic components?

   a. Switchlevel

   b.Gatelevel

   c. Circuitlevel

   d.Layoutlevel

3.
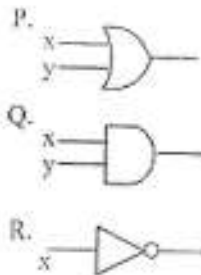
   a.P–3Q–2R–1

   b.P–3Q–1R–2

   c.P–2Q–3R –1

   d.None

4. The Gray code for decimal number6 is equivalent to:

a.1100   b.1001

c.0101   d.0110

5. The Boolean expression(A'B+AB'+AB) is equivalent to:

     a. A+B   b.A'+B

     c.(A+B)`   d.A.B

6. Verilog is case sensitive.

     a. True

     b. False

7. Which one of the following is a VHDL logical(Boolean) operator?

     a. Equality   b.Inequality

     c.Lessthan   d.Not

8. Which one of the following is a VHDL shift operator?

     b. SLA(ShiftLeft Arithmetic)   b.Not equal

     c. Equal   d.Noneoftheabove

9. What is the use of VHDLlanguage?

     c. Providesmachine-readabledocumentation

     d. Provideshuman-readabledocumentation

     e. Botha andb

     f. Noneoftheabove

10. How many units does a VHDL design consist of?

     g. One   b.Two

     c.Three   d.Four

11. The simple index: integer:=0 is an example declaration of which datatype provided within VHDL?

h. Integer   b.Real

c.Boolean   d.Character

12. Which one of the following is a type of scalar literal?

i. Character   b.String

c.Bit_vector   d.BothBandC

13. In which one of the following languages are user-defined datatypes allowed?

j. VHDL   b.Verilog

c. Both AandB   d.Noneoftheabove

14. In which one of the following languages is the modulo operator present?

k. VHDL   b.Verilog

c. BothAandB   d.Noneoftheabove

15. In which one of the following languages is the unary reduction operator not present?

l. Verilog   b.VHDL

c.BothAandB   d.Noneoftheabove

16. Which one of the following is a VHDL relational operator?

m.   Not   b.Equality

c.NAND   d.AND

17. What is the standard form of SLA(ShiftLeftArithmetic)?

n. ShiftLeft Arithmetic

o. ShiftLineArithmetic

p. SideLeftArithmetic

q. Noneoftheabove

18. Which one of the following manages large designs?

r. VHDL   b. Verilog

c. BothAandB   d. Noneoftheabove

19. Which of the following options represent the synchronouscontrol inputs in anS-R Flipflop?

    a. S   b.   R
    b. Clock   d.   BothSandR

20. What must be used alongwithsynchronous controlinputs to trigger a change in the Flipflop?

    a. 0   b. 1
    c. Clock   d. Previous output

SAMBHRAM INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION

VALUE ADDED COURSES

SL NO.	ACADEMIC YEAR	COURSE NAME
1	2021-22	• SENSOR SYSTEM TECHNOLOGY • EMBEDDED SYSTEMS • COMPUTER NETWORKING AND SYSTEM SECURITY

PRINCIPAL
Sambhram Institute of Technology
M.S. Palya, Bangalore - 560 097

SAMBHRAM INSTITUTE OF TECHNOLOGY

Amba Bhavani Temple Road, M.S.Palya, Vidyaranyapura Post, Bangalore-560097.

DEPARTMENT OF ELECTRONICS & COMMUNICATION : Consolidated Details of Value Added Course (2021-22)

SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
1	1ST20EC001	AKASH.N	Sensor System Technology	Genesis	30 hours	23-05-2022	27-05-2022	
2	1ST20EC002	MANOJ K	Sensor System Technology	Genesis	30 hours	23-05-2022	27-05-2022	
3	1ST20EC003	MD.BURHANUDDIN	Sensor System Technology	Genesis	30 hours	23-05-2022	27-05-2022	
4	1ST20EC004	MOULYA SHREE U N	Sensor System Technology	Genesis	30 hours	23-05-2022	27-05-2022	
5	1ST20EC005	RAHUL S	Sensor System Technology	Genesis	30 hours	23-05-2022	27-05-2022	
6	1ST20EC006	SACHIN S	Sensor System Technology	Genesis	30 hours	23-05-2022	27-05-2022	
7	1ST20EC007	SHASHANK GOWDA N H	Sensor System Technology	Genesis	30 hours	23-05-2022	27-05-2022	
8	1ST20EC008	SUHAS M	Sensor System Technology	Genesis	30 hours	23-05-2022	27-05-2022	
9	1ST20EC009	TEJAS D	Sensor System Technology	Genesis	30 hours	23-05-2022	27-05-2022	
10	1ST20EC010	THRISHA	Sensor System Technology	Genesis	30 hours	23-05-2022	27-05-2022	
1	1ST18EC003	ANU J	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
2	1ST18EC004	ARATHI M L	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
3	1ST18EC014	VINAY KRISHNA M.S	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
4	1ST18EC024	NEVIL SEBASTIAN	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
5	1ST18EC044	SUMIT NAYAK	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
6	1ST18EC045	SUNIL KUMAR	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
7	1ST18EC700	MAHESH BABU S	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
8	1ST19EC002	AMBIKA S .BHAT	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
9	1ST19EC003	A CHIRUDEEPESH	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
10	1ST19EC004	BHAVANA SHREE M	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
11	1ST19EC005	BHAVYA .S	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
12	1ST19EC006	CHRISTOPER	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
13	1ST19EC007	DASAM VENKATA	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
14	1ST19EC009	DHANUSH A NAYAKA	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
15	1ST19EC010	DHANUSH B	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
16	1ST19EC012	GONUGUNTLA PRASAD	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	

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SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
17	1ST19EC013	GOWTHAM R	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
18	1ST19EC014	HARSHITHA.S	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
19	1ST19EC016	KAVYASHREE V	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
20	1ST19EC017	HARISH .K	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
21	1ST19EC018	LAKSHMI.R	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
22	1ST19EC020	MANU D	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
23	1ST19EC021	MOBARK AHMED YOUS	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
24	1ST19EC022	PRANAV RAO J	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
25	1ST19EC023	PRUTHIVI DM	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
26	1ST19EC024	R LEENA JAYASHREE	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
27	1ST19EC025	RAKESH KUMAR	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
28	1ST19EC026	SAI SANSHAR.G	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
29	1ST19EC027	SANJAY.T	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
30	1ST19EC028	SHARON VARGHESE	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
31	1ST19EC029	SPURTHI J HIREMATH	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
32	1ST19EC030	SUHAS .V	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
33	1ST19EC031	TEJASWINI.D	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
34	1ST19EC032	VITHUN	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
35	1ST20EC400	NAGARJUNA	Embedded Systems	Genesis	30 hours	25-04-2022	29-04-2022	
1	1ST18EC001	ALSTEN GEO ANAND	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
2	1ST18EC002	ANIL KUMAR YADAV	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
3	1ST18EC005	ARPITHA H S	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
4	1ST18EC006	CHAYA V	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
5	1ST18EC007	DEEPIKA S R	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
6	1ST18EC008	HEMANTH K GOWDA	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	

SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
7	1ST18EC009	INDUSHREE S	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
8	1ST18EC010	KAVERI P HATTIKATAGI	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
9	1ST18EC012	LEELAVATHI K	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
10	1ST18EC013	LEONS G	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
11	1ST18EC015	MADHUSHREE R	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
12	1ST18EC016	MALLAMMA	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
13	1ST18EC017	MANISH KUMAR	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
14	1ST18EC018	MILIND KUMAR MISHRA	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
15	1ST18EC020	MONIKA D	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
16	1ST18EC021	MRITUNJAY SHARMA	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
17	1ST18EC022	NAMITHA K	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
18	1ST18EC025	PAVEEN KUMAR	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
19	1ST18EC026	POOJA K S	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
20	1ST18EC027	POOJASHREE K	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
21	1ST18EC029	PRASHANT KUMAR	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
22	1ST18EC030	RAGHAVENDRA H	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	

SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
23	1ST18EC031	RAKESH KUMAR	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
24	1ST18EC032	RAKSHITHA N	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
25	1ST18EC033	RAMYA P	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
26	1ST18EC034	SAHANA H K	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
27	1ST18EC035	SAHANA M	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
28	1ST18EC036	SANDEEP S	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
29	1ST18EC037	SANDESH R	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
30	1ST18EC038	SHARATH R PUTHRAN	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
31	1ST18EC039	SHASHANTH GOWDA H C	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
32	1ST18EC040	SHASHI KUMAR R	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
33	1ST18EC041	SHUBHAM KUMAR	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
34	1ST18EC042	SOUJANYA KALAL	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
35	1ST18EC043	SUKANYA KALAL	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
36	1ST18EC046	SWATI G SHANBHAG	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
37	1ST18EC047	TANYA R	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
38	1ST18EC048	THAMINI V	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	

SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
39	1ST18EC049	VARSHA V	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
40	1ST18EC050	VEDASHREE R	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
41	1ST18EC051	VIJAY KUMAR S	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
42	1ST18EC052	YOGANANDA M N	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
43	1ST19EC400	RAJINI V	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
44	1ST19EC401	BHAVANA B V	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
45	1ST15EC032	DIVYASHREE .J.A	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
46	1ST17EC006	ANKITHA G A	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
47	1ST17EC009	ARPITHA K.H	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
48	1ST17EC015	BHAVYASHREE .R	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
49	1ST17EC017	BLESSICA SARADONA	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
50	1ST17EC039	NIDHI.G	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
51	1ST17EC073	YASHWANTH S	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
52	1ST17EC704	RAJAT JEEVAN V	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
53	1ST18EC403	VINOD KUMAR S	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
54	1ST15EC117	SUPRITHA.H	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	

SLNO	USN	NAME	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
55	1ST16EC036	MANOJ M.R	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
56	1ST16EC045	NUMAN SHARIFF R	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
57	1ST16EC046	PALLAVI B A	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
58	1ST16EC064	SNEHA M G	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
59	1ST16EC080	ANANDHAN V S	Computer Networking & System Security	Genesis	30 hours	04-04-2022	09-04-2022	
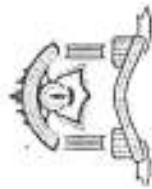
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CERTIFICATE OF COMPLETION

This is to Certify that Ms./Mr. _____ MALLAMMA _____

bearing USN _____ 1ST18EC016 _____ of Semester __8th__ has

successfully completed the 48-hours Value-Added course on

COMPUTER NETWORKING and SYSTEM SECURITY

from 04th APRIL 2022 to 09th APRIL 2022.

Akshay V Agasthya
Vice President - Learning and
Development
Genesis Training, Bengaluru

PRINCIPAL
Sambhram Institute of Technology
M.S. Palya, Bengaluru - 560 097

Dr. H.G. Chandrakanth
Prinicipal
Sambhram Institute Of
Technology

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SAMBHRAM
INSTITUTE OF TECHNOLOGY

SAMBHRAM INSTITUTE OF TECHNOLOGY
IN ASSOCIATION WITH
GENESIS TRAINING

CURRICULUM

Course: Sensor system technology   **Academic Year:** 2021-22

Contents:

1. **Types of Sensors**
   - Temperature Sensors (Thermocouples, RTDs)
   - Proximity Sensors (Inductive, Capacitive, Ultrasonic)
   - Accelerometers and Gyroscopes
   - Optical Sensors (Photodiodes, Phototransistors)
   - Chemical Sensors

2. **Sensor Characteristics and Specifications**
   - Sensitivity, accuracy, precision
   - Resolution
   - Range

3. **Challenges in Sensor Design and Implementation**
   - Environmental Effects
   - Power Consumption
   - Miniaturization

4. **Sensor fundamentals and characteristics**
   - Sensor Classification, Performance and Types, Error Analysis characteristics

5. **Optical Sources and Detectors**
   - Electronic and Optical properties of semiconductor as sensors, LED, Semiconductor lasers, Fiber optic sensors, Thermal detectors, Photo multipliers, photoconductive detectors, Photodiodes, Avalanche photodiodes, CCDs.

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Course: Sensor system technology

Academic year: 2021-22

Semester:

USN:

1. **Change in output of sensor with change in input is** _____
   a) Threshold
   b) Slew rate
   c) Sensitivity
   d) None of the mentioned

2.

3. **Which of the following can be cause for non-zero output when zero input?**
   a) Bias
   b) Slew
   c) Offset
   d) Offset or bias

4. **Which of the following is NOT the application of capacitive element sensors?**
   a) Level control of liquids
   b) Small vessel pump control
   c) Pollution detection
   d) Metrology applications to measure shape errors

5. **Proximity sensors are used to** _____.
   a) Detect non magnetic but conductive materials
   b) Measure strain
   c) Measure distance
   d) Measure temperature

6. **Which of the following defines smartness of sensor?**
   a) Quality of data
   b) Circuit size
   c) Circuit components
   d) All of the mentioned

6. Which network is used by a sensor?
   a) PAN and LAN
   b) PAN and HAN
   c) HAN and LAN
   d) HAN, PAN, and LAN

7. In sensor systems, what does 'calibration' refer to?
   a) Installing the sensor
   b) Adjusting the sensor to ensure accuracy
   c) Replacing the sensor
   d) Cleaning the sensor

8. LIDAR is a technology commonly used in autonomous vehicles. What does LIDAR stand for?

   a) Light Detection and Ranging
   b) Laser Infrared Detection and Ranging
   c) Light Interference Distance and Ranging
   d) Laser Interference Distance and Ranging

9. Which type of sensor can be used to measure distance without physical contact?
   a) Capacitive sensor
   b) Inductive sensor
   c) Ultrasonic sensor
   d) Pressure sensor

10. Which sensor is typically used in a smoke detector?

   a) Infrared sensor
   b) Optical sensor
   c) Chemical sensor
   d) Acoustic sensor

11. What does an accelerometer measure?

   a) Temperature
   b) Pressure
   c) Acceleration
   d) Humidity

12. What is the principle behind a capacitive touch sensor?

   a) Measuring light intensity
   b) Detecting changes in electrical capacitance
   c) Sensing temperature changes
   d) Measuring sound waves

13. **Application of Tactile sensors is** _____.
    a) Elevator touch-sensitive buttons
    b) Smart mobile phones
    c) Cars
    d) Both a and b

14. **In LDR sensor, if the intensity of light applied is more, its resistance value becomes**

    _____.
    a) Less
    b) High
    c) Zero
    d) Infinity

15. **What is the resistance value of the LDR sensor in presence of light** _____.
    a) Several mega ohms
    b) 100 ohms
    c) 10-100ohms
    d) 10,0000 ohms

16. **What is the resistance value of the LDR sensor in absence of light** _____.

    a) Several mega ohms
    b) 100's of megaohms
    c) 10-100ohms
    d) 10,0000 ohms

17. **What is the maximum voltage value of the LDR sensor at 0 lux?**
    a) 200V
    b) 100V
    c) 250V
    d) 300V

18. **In** _____ **step of chemical sensor molecules interact selectively with receptor type molecules.**
    a) Transduction
    b) Recognition
    c) Both a and b
    d) None of the above

19. **Which of the following are the typical kind of biometric materials used for the development of sensors?**
    a) Aptamers
    b) Molecularly imprinted polymers
    c) Both a and b

d) None of the above

20. Digital sensors converter measure input value to digital form in _____ method.
    a) Direct
    b) Indirect
    c) Both a and
    d) None of the above

SAMBHRAM INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION

VALUE ADDED COURSES

SL NO.	ACADEMIC YEAR	COURSE NAME
1	2022-23	• WIRELESS NETWORK/TELECOM • DIGITAL AND ANALOG DESIGN • IOT • MICROSOFT POWER BI • CERTIFICATE COURSE ON CLOUD

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M.S. Palya, Bangalore - 580 097

SAMBHRAM INSTITUTE OF TECHNOLOGY

Amba Bhavani Temple Road, M.S.Palya, Vidyaranyapura Post, Bangalore-560097.

DEPARTMENT OF ELECTRONICS & COMMUNICATION : Consolidated Details of Value Added Course (2022-23)

SL.NO.	USN	NAME OF STUDENT	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
1	1ST18EC003	ANU J	IOT	GENESIS	30	05-09-2022	10-09-2022	
2	1ST18EC004	ARATHI M L	IOT	GENESIS	30	05-09-2022	10-09-2022	
3	1ST18EC014	VINAY KRISHNA M.S	IOT	GENESIS	30	05-09-2022	10-09-2022	
4	1ST18EC024	NEVIL SEBASTIAN	IOT	GENESIS	30	05-09-2022	10-09-2022	
5	1ST18EC044	SUMIT NAYAK	IOT	GENESIS	30	05-09-2022	10-09-2022	
6	1ST18EC045	SUNIL KUMAR	IOT	GENESIS	30	05-09-2022	10-09-2022	
7	1ST18EC700	MAHESH BABU S	IOT	GENESIS	30	05-09-2022	10-09-2022	
8	1ST19EC002	AMBIKA S .BHAT	IOT	GENESIS	30	05-09-2022	10-09-2022	
9	1ST19EC003	A CHIRUDEEPESH REDDY	IOT	GENESIS	30	05-09-2022	10-09-2022	
10	1ST19EC004	BHAVANA SHREE M	IOT	GENESIS	30	05-09-2022	10-09-2022	
11	1ST19EC005	BHAVYA .S	IOT	GENESIS	30	05-09-2022	10-09-2022	
12	1ST19EC006	CHRISTOPER	IOT	GENESIS	30	05-09-2022	10-09-2022	
13	1ST19EC007	DASAM VENKATA MANIKANTA	IOT	GENESIS	30	05-09-2022	10-09-2022	
14	1ST19EC009	DHANUSH A NAYAKA	IOT	GENESIS	30	05-09-2022	10-09-2022	
15	1ST19EC010	DHANUSH B	IOT	GENESIS	30	05-09-2022	10-09-2022	
16	1ST19EC012	GONUGUNTLA PRASAD	IOT	GENESIS	30	05-09-2022	10-09-2022	
17	1ST19EC013	GOWTHAM R	IOT	GENESIS	30	05-09-2022	10-09-2022	
18	1ST19EC014	HARSHITHA.S	IOT	GENESIS	30	05-09-2022	10-09-2022	
19	1ST19EC016	KAVYASHREE V	IOT	GENESIS	30	05-09-2022	10-09-2022	
20	1ST19EC017	HARISH .K	IOT	GENESIS	30	05-09-2022	10-09-2022	
21	1ST19EC018	LAKSHMI R	IOT	GENESIS	30	05-09-2022	10-09-2022	
22	1ST19EC020	MANU D	IOT	GENESIS	30	05-09-2022	10-09-2022	
23	1ST19EC021	MOBARK AHMED YOUS	IOT	GENESIS	30	05-09-2022	10-09-2022	
24	1ST19EC022	PRANAV RAO J	IOT	GENESIS	30	05-09-2022	10-09-2022	

SL.NO.	USN	NAME OF STUDENT	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
25	1ST19EC023	PRUTHIVI DM	IOT	GENESIS	30	05-09-2022	10-09-2022	
26	1ST19EC024	R LEENA JAYASHREE	IOT	GENESIS	30	05-09-2022	10-09-2022	
27	1ST19EC025	RAKESH KUMAR	IOT	GENESIS	30	05-09-2022	10-09-2022	
28	1ST19EC026	SAI SANSHAR.G	IOT	GENESIS	30	05-09-2022	10-09-2022	
29	1ST19EC027	SANJAY.T	IOT	GENESIS	30	05-09-2022	10-09-2022	
30	1ST19EC028	SHARON VARGHESE	IOT	GENESIS	30	05-09-2022	10-09-2022	
31	1ST19EC029	SPURTHI J HIREMATH	IOT	GENESIS	30	05-09-2022	10-09-2022	
32	1ST19EC030	SUHAS. V	IOT	GENESIS	30	05-09-2022	10-09-2022	
33	1ST19EC031	TEJASWINI.D	IOT	GENESIS	30	05-09-2022	10-09-2022	
34	1ST19EC032	VITHUN	IOT	GENESIS	30	05-09-2022	10-09-2022	
35	1ST20EC400	NAGARJUNA	IOT	GENESIS	30	05-09-2022	10-09-2022	
1	1ST21EC001	ABHISHEK G	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
2	1ST21EC002	ABHISHEK KUMAR CHAUDHARY	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
3	1ST21EC003	AKASH M	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
4	1ST21EC004	AKHILAA S	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
5	1ST21EC005	ANKIT ANURAG	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
6	1ST21EC006	ANKIT KUMAR SINHA	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
7	1ST21EC007	ANUHYA K	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
8	1ST21EC008	ANUSHA S	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	

SL NO.	USN	NAME OF STUDENT	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
9	1ST21EC011	BHANU PRAKASH K S	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
10	1ST21EC012	BHAVITHA U	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
11	1ST21EC013	BUCHUPALLE SUBHASH KUMAR REDDY	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
12	1ST21EC014	CHANDAN K	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
13	1ST21EC015	CHANDANA A J	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
14	1ST21EC016	CHETHAN KUMAR B	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
15	1ST21EC017	DARSHAN G	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
16	1ST21EC018	DEEPAK D R	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
17	1ST21EC019	DEEPIKA K N	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
18	1ST21EC020	DIVYA N	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
19	1ST21EC021	G BHAVANA	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
20	1ST21EC022	G V SPOORTHI	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
21	1ST21EC023	GANASHREE H N	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
22	1ST21EC024	GIRISH V	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
23	1ST21EC025	GOURA CHANDRASHEKHAR MOODOOR	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
24	1ST21EC026	HARSHITHA B B	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
25	1ST21EC027	HEMANTH REDDY N	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	

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SL NO.	USN	NAME OF STUDENT	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
26	1ST21EC029	J PREM RAJ	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
27	1ST21EC030	JAYANTH B S	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
28	1ST21EC031	JUWENA YEASMIN	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
29	1ST21EC032	KARTHIK R	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
30	1ST21EC034	KAVYA GANAPATI NAIK	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
31	1ST21EC035	KAVYA S	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
32	1ST21EC036	KEERUTHIKA Y	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
33	1ST21EC037	KOMALA L	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
34	1ST21EC038	KOUSHALYA	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
35	1ST21EC039	LAKSHMI N	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
36	1ST21EC040	LIKHITH S	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
37	1ST21EC041	LIKITHA R V	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
38	1ST21EC042	M PAVAN	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
39	1ST21EC043	MAHENDAR R	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
40	1ST21EC044	MANOJ D K	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
41	1ST21EC045	NAGESH U S	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
42	1ST21EC046	PRAJWAL GOWDA R	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
43	1ST21EC047	PRAJWAL N S	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
44	1ST21EC048	PRASANNA R	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	

SL.NO.	USN	NAME OF STUDENT	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
45	1ST21EC049	PREETHI. J	NETWORK/TELECOM WIRELESS	GENESIS	30	12-12-2022	16-12-2022	
46	1ST21EC050	PREM KUMAR DAS	NETWORK/TELECOM WIRELESS	GENESIS	30	12-12-2022	16-12-2022	
47	1ST21EC051	PRERANA M	NETWORK/TELECOM WIRELESS	GENESIS	30	12-12-2022	16-12-2022	
48	1ST21EC052	PURIMETLA CHARAN CHOWDARY	NETWORK/TELECOM WIRELESS	GENESIS	30	12-12-2022	16-12-2022	
49	1ST21EC053	RACHANA B R	NETWORK/TELECOM WIRELESS	GENESIS	30	12-12-2022	16-12-2022	
50	1ST21EC054	RAJESH DB	NETWORK/TELECOM WIRELESS	GENESIS	30	12-12-2022	16-12-2022	
51	1ST21EC055	RAM KRISHNA	NETWORK/TELECOM WIRELESS	GENESIS	30	12-12-2022	16-12-2022	
52	1ST21EC056	RISHI RAJ RANJAN	NETWORK/TELECOM WIRELESS	GENESIS	30	12-12-2022	16-12-2022	
53	1ST21EC057	RUCHITH C	NETWORK/TELECOM WIRELESS	GENESIS	30	12-12-2022	16-12-2022	
54	1ST21EC058	RUPESH KUMAR GUPTA	NETWORK/TELECOM WIRELESS	GENESIS	30	12-12-2022	16-12-2022	
55	1ST21EC059	RUTHIKA K SHETTY	NETWORK/TELECOM WIRELESS	GENESIS	30	12-12-2022	16-12-2022	
56	1ST21EC060	S HARSHITHA	NETWORK/TELECOM WIRELESS	GENESIS	30	12-12-2022	16-12-2022	
57	1ST21EC061	SABITA DAS	NETWORK/TELECOM WIRELESS	GENESIS	30	12-12-2022	16-12-2022	
58	1ST21EC062	SAHANA BAI S	NETWORK/TELECOM WIRELESS	GENESIS	30	12-12-2022	16-12-2022	
59	1ST21EC063	SANJAY T	NETWORK/TELECOM WIRELESS	GENESIS	15	12-12-2022	16-12-2022	
60	1ST21EC064	SAURAV KUMAR	NETWORK/TELECOM WIRELESS	GENESIS	30	12-12-2022	16-12-2022	
61	1ST21EC066	SHASHIKIRAN K	NETWORK/TELECOM WIRELESS	GENESIS	30	12-12-2022	16-12-2022	
62	1ST21EC067	SHEKAR U S	NETWORK/TELECOM WIRELESS	GENESIS	30	12-12-2022	16-12-2022	
63	1ST21EC068	SHILPA K	NETWORK/TELECOM WIRELESS	GENESIS	30	12-12-2022	16-12-2022	

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SL.NO.	USN	NAME OF STUDENT	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
64	IST21EC069	SHUBHAM SINGH	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
65	IST21EC070	SNEHA R	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
66	IST21EC071	SOUNDARYA M R	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
67	IST21EC072	SOWMYA SHREE A N	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
68	IST21EC073	SUHAS REDDY S	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
69	IST21EC074	SUMANTH J	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
70	IST21EC075	UDAYA KUMAR K S	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
71	IST21EC076	V KARTHIK RAJU	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
72	IST21EC077	VARSHITHA R K	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
73	IST21EC078	VIDYADHAR VEERESHWAR HIREMATH	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
74	IST21EC079	VIGNESH D	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
75	IST21EC080	VIKAS Y	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
76	IST21EC081	VILAS RAJU PAWAR	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
77	IST22EC400	AMRUTH GOWDA H	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
78	IST22EC401	HARSHA N	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
79	IST22EC402	HEMANTH D	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
80	IST22EC403	MOHAMMAD KAIF	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
81	IST22EC404	PRAJWAL P	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	

SL.NO.	USN	NAME OF STUDENT	TOPIC	COMPANY	DURATION	FROM	TO	SIGN
82	1ST22EC405	YASHWANTH S	WIRELESS NETWORK/TELECOM	GENESIS	30	12-12-2022	16-12-2022	
1	1ST20EC001	AKASH.N	DIGITAL AND ANALOG VLSI DESIGN	GENESIS	30	17-10-2022	21-10-2022	
2	1ST20EC002	MANOJ K	DIGITAL AND ANALOG VLSI DESIGN	GENESIS	30	17-10-2022	21-10-2022	
3	1ST20EC003	MD.BURHANUDDIN	DIGITAL AND ANALOG VLSI DESIGN	GENESIS	30	17-10-2022	21-10-2022	
4	1ST20EC004	MOULYA SHREE UN	DIGITAL AND ANALOG VLSI DESIGN	GENESIS	30	17-10-2022	21-10-2022	
5	1ST20EC005	RAHUL S	DIGITAL AND ANALOG VLSI DESIGN	GENESIS	30	17-10-2022	21-10-2022	
6	1ST20EC006	SACHIN S	DIGITAL AND ANALOG VLSI DESIGN	GENESIS	30	17-10-2022	21-10-2022	
7	1ST20EC007	SHASHANK GOWDA N H	DIGITAL AND ANALOG VLSI DESIGN	GENESIS	30	17-10-2022	21-10-2022	
8	1ST20EC008	SUHAS M	DIGITAL AND ANALOG VLSI DESIGN	GENESIS	30	17-10-2022	21-10-2022	
9	1ST20EC009	TEJAS D	DIGITAL AND ANALOG VLSI DESIGN	GENESIS	30	17-10-2022	21-10-2022	
10	1ST20EC010	THRISHA	DIGITAL AND ANALOG VLSI DESIGN	GENESIS	30	17-10-2022	21-10-2022	

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INSTITUTE OF TECHNOLOGY

Genesis Training

INSTITUTION'S INNOVATION COUNCIL

Supported by

ISTE-SaIT & CSI-SaIT

Department of Electronics and Communication Engineering In association with

Genesis Training

CERTIFICATE OF COMPLETION

This is to Certify that Ms./Mr. **SUHAS.V**

bearing USN **1ST19EC030** of Semester **7th** has

successfully completed the 48-hours Value-Added course on

IOT

from 05th SEPT 2022 to 10th SEPT 2022.

Akshay V Agasthya
Vice President - Learning and Development
Genesis Training, Bengaluru

PRINCIPAL
Sambhram Institute of Technology
M.S. Palya, Bangalore - 560 097

Dr. H.G. Chandrakanth
Principal
Sambhram Institute Of Technology
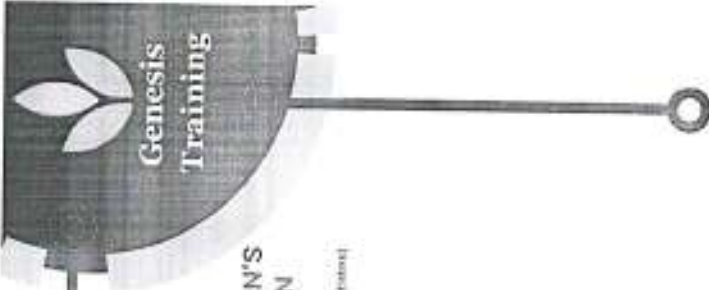
SAMBHRAM INSTITUTE OF TECHNOLOGY IN ASSOCIATION WITH GENESIS TRAINING CURRICULUM

Course Name: Wireless Networks /Telecom

Academic Year: 2022-23

Contents

- **The Cellular Concept** -

  Cellular Concept , Analysis of Cellular Systems, Sectoring

- **GSM and TDMA Technology**- Introduction, GSM Network and System Architecture, GSM Channel Concept, GSM Identities, System Operations-Traffic cases, GSM Infrastructure Communications (Um Interrace).

- **CDMA Technology**- Introduction, CDMA Network and System Architecture, CDMA Channel Concepts, CDMA System (Layer 3)operations, 3GCDMA

- **LTE-4G** - OFDM, SC-FDE, SC-FDMA, Channel Dependant Multiuser Resource Scheduling, Multi-Antenna Techniques, Flat IP Architecture, LTE NetworkArchitecture.

- **The LTE Standard**-

  Introduction to LTE and Hierarchical Channel Structure of LTE, Downlink OFDMA Radio Resources, Uplink SC-FDMA Radio Resources.

GENESIS TRAINING

Course: Wireless Network Telecommunication

Semester:

Academic year: 2022

USN:

1. The structure or format of data is called _____

   a)Syntax   b)Semantics   c)Struct   d)Formatting

2. A_____ is the physical path over which a message travels.

   a)Path   b)Medium   c)Protocol   d)Route

3. What industry association develops, publishes, and maintaines the standards for wireless networks?

   a)IEEE   b)ISM   c)UNII   d)FCC

4. A Wireless extension to a wired network can eliminate the need for new _____ to be installed.

   a)Access point   b)Router   c)Cables   d)Bridges

5. Why the size of the cell is kept small in cellular network?

   a)Increase capacity   b)Decrease capacity   c)Increase size of base station electronics   d)Slow process of handoffs

6. The shape of the cellular region for maximum radio coverage is_____

   a)Circular   b)Square   c)Oval   d)Hexagon

7. What is the multiple access technique used in 3G mobile network?

   a)Time divison   b)Frequency Divisio   c)Code division   d)None

8. In Wireless Local Area Network(LAN),there are many hidden stations so we cannot detect the_____

   a)Frames   b)Collisions   c)Signal   d)Data

9. Three or more devices share a link in _____ connection.

   a)Unipoint   b)Multipoint   c)Point to Point   d)Simplex

10.Bluetooth is the wireless technology for_____

a)Local area network   b)Personal area network   c)Metropolitan area network   d)Wide area network

11.Routing falls under which layer?

a)MAC   b)Network   c)PHY layer   d)Session layer

12.Communication between a computer and a keyboard involves _____ transmission.

a)Automatic   b)Half-Duplex   c)Full-Duplex   d)Simplex

13.How many layers are there in the OSI reference model of networking?

a)5   b)6   c)7   d)8

14.The ____in a wireless LAN consists of some number of stations executing the same MAC protocol And competing for access to the same shared wireless medium.

a)Basic Service Set(BSS)   b)Extended Service Set(ESS)   c)Distributed System(DS)   d)Access Point(AP)

15._____is invoked whenever an existing authentication is to be terminated.

a)Authentication   b)Association   c)De-Authentication   d)Privacy

16.In wireless distribution system_____

a) multiple access point are interconnected with each other   b)there is no access point exists

c) only one access point exists   d) access points are not required

17.What is Wired Equivalent Privacy(WEP)?

a)security algorithm for Ethernet   b)security algorithm for wireless networks

c)security algorithm for usb communication   d)security algorithm for emails

18.What is the IEEE designation for Bluetooth?

a)802.15   b)802.14   c)802.10   d)802.16

19.Antenna's efficiency is given by the ratio of_____

a)Effective aperture to physical aperture   b)Physical aperture to effective aperture

c)Signal power to noise power   d)losses

20.Space loss occurs due to a decrease in_____

a)Efficiency   b)Phase   c)Signal power   d)Electric field strength

SAMBHRAM INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING
VALUE ADDED COURSES

SL.NO	ACADEMIC YEAR	COURSE NAME
1	2021-2022	• Hands on practice Auto cad • 3-D Printing and its application • Hands on practice solid works

R. Sutter

Head of the Department of
Mechanical Engineering
Sambhram Institute of Technology
Bangalore - 560 097

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Sambhram Institute of Technology
M.S. Palya, Bangalore - 560 097

SAMBHRAM INSTITUTE OF TECHNOLOGY
IN ASSOCIATION WITH
GENESIS TRAINING

COURSE NAME: 3D Printing   **ACADEMIC YEAR: 2021-22**

Chapter-1: 3D Printing (Additive Manufacturing) (6 Hours)
Introduction, Process, Classifications, Advantages, Additive v/s Conventional Manufacturing processes, Applications. **CAD for Additive Manufacturing,** CAD Data formats, Data translation, Data loss, STL format.   **(5 Hours)**

Chapter-2: Additive Manufacturing Techniques Stereo- Lithography, LOM, FDM, SLS, SLM, Binder Jet technology. Process, Process parameter, Process Selection for various applications. Additive Manufacturing Application Domains: Aerospace, Electronics, Health Care, Defense, Automotive, Construction, Food Processing, Machine Tools   **(10 Hours)**

Chapter3: Materials
Polymers, Metals, Non-Metals, Ceramics Process, Process parameter, Process Selection for various applications. Various forms of raw material- Liquid, Solid, Wire, Powder; Powder Preparation and their desired properties, Polymers and their properties.   **(5 Hours)**

Chapter 4: Additive Manufacturing Equipment
Process Equipment- Design and process parameters Governing Bonding Mechanism
Common faults and troubleshooting Process Design   **(5 Hours)**

Chapter 5:Post Processing: Requirement and Techniques Support Removal, Sanding, Acetone treatment, polishing.   **(5 Hour)**

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COURSE NAME: 3-D Printing and its application
SEM:

ACADEMIC YEAR:
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1	What is 3D printing? A) Creating two-dimensional designs B) Adding layers to create three-dimensional objects C) Printing text documents on paper D) Printing holographic images	1
2	Which technology is commonly used in 3D printing? A) Laser cutting B) Injection molding C) Additive manufacturing D) CNC machining	1
3	What is the main advantage of 3D printing over traditional manufacturing methods? A) Lower cost B) Faster production speed C) Ability to create complex geometries D) More durable materials	1
4	Which software is commonly used to create digital models for 3D printing? A) AutoCAD B) Photoshop C) Solid Works D) Microsoft Excel	1
5	Which material is commonly used in consumer-grade 3D printers? A) Metal B) Glass C) Plastic D) Rubber	1
6	What is the term for the digital file that contains the instructions for a 3D printer? A) Blueprint B) Template C) Code D) G-code	1
7	Which industry has been greatly influenced by 3D printing technology? A) Automotive B) Banking C) Agriculture	1

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	D) Hospitality		
8	What is the process called when a 3D printer creates an object layer by layer? A) Sintering B) Extrusion C) Curing D) Fusing	1
9	Which additive manufacturing method uses a laser to solidify powdered materials? A) Fused deposition modelling (FDM) B) Stereo lithography (SLA) C) Selective laser sintering (SLS) D) Digital light processing (DLP)	1
10	What is the term for the supportive structure that holds up overhanging parts during the 3D printing process? A) Scaffold B) Supportmaterial C) Filament D) Infill	1
11	Which industry has been utilizing 3D printing to create custom prosthetic limbs? A) Healthcare B) Retail C) Construction D) Energy	1
12	Which material is commonly used in industrial-grade 3D printers for metal printing? A) PLA B) ABS C) Titanium D) Nylon	1
13	What is the term for the process of smoothing the surface of a 3D-printed object? A) Finishing B) Polishing C) Sanding D) Post-processing	1
14	Which 3D printing method is most suitable for creating highly detailed objects with smooth surfaces? A) Fused deposition modelling (FDM) B) Stereo lithography (SLA) C) Selective laser sintering (SLS) D) Digital light processing (DLP)	1
15	What is the term for the resolution or layer thickness of a 3D-printed object? A) Fidelity B) Tolerance C) Resolution D) Accuracy	1
16	Which industry has utilized 3D printing for rapid prototyping of new product designs? A) Fashion B) Entertainment	1

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	C) Food and beverage D) Manufacturing		
17	Which factor determines the printing speed in 3D printing? A) Layer thickness B) Material viscosity C) Print bed temperature D) Printer model and settings	1
18	What is the term for the process of combining multiple 3D-printed parts into a single assembly? A) Integration B) Assembly C) Fusion D) Merging	1
19	Which industry has been exploring 3D-printed construction for building houses? A) Architecture B) Aerospace C) Retail D) Tourism	1
20	What is the term for the failure that occurs when a 3D-printed object warps or deforms during the printing process? A) Delamination B) Warping C) Distortion D) Shrinkage	1

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This is to Certify that Ms./Mr. MITHUN KUMAR R

bearing USN 1ST19ME005 of Semester 3rd

has successfully completed the 30-hours Value-Added course on

3-D Printing and its application

from 6th June 2022 to 11th June 2022.

Akshay V Agasthya
Vice President - Learning and
Development
Genesis Training, Bengaluru

Dr. H.G. Chandrakanth
Prinicipal
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COURSE NAME: SOLID WORKS   **ACADEMIC YEAR: 2021-22**

- **SOLIDWORKS Fundamentals**

3D Design, Component Based, Terminology ,User Interface, Windows Functions, SOLIDWORKS Document Windows, Function Selection and Feedback, Design Process, Design Intent, Design Method, Sketches, Origin, Planes, Dimensions, Relations, Features, Assemblies, Drawings, Model Editing.

[10 HOURS]

- **Parts:**

Countertop, Design Approach, Create the Base Feature with an Extrude, Add an Extrude to the Base, Remove Material with the Cut-Extrude, Use a Loft to Make a Solid, Shell the Part, Round Sharp Edges with ,Fillets, Faucet, Design Approach, Create the Sweep, Faucet Handle, Design Approach.Cabinet Door, Design Approach, Create Beveled Edges with the Chamfer, Tool. Moldings Design Approach, Design a Mid-Plane Extrude, Sketch a Profile for the Cut Extrude Mirror the Cut Hinge ,Design Approach, Create Sheet Metal with the Base Flange Make the Tab Generate the Linear Pattern, Add the Hem, Alternate Design Approach.

[10 HOURS]

- **Assemblies:**

Assembly Definition, Assembly Design Methods, Bottom-up Design, Top-down Design, Prepare an Assembly ,Mates, Faucet Subassembly, Faucet Subassembly - Alternate Design Approach, Door Subassembly, Cabinet Subassembly, In-Context Design, Create an Assembly Component In-Context, Modify a Part In-Context of an Assembly, Load an Assembly, Examine the Assembly, Hide and Show Components, Explode the Assembly, Detect Collisions Between Components.

[10 HOURS]

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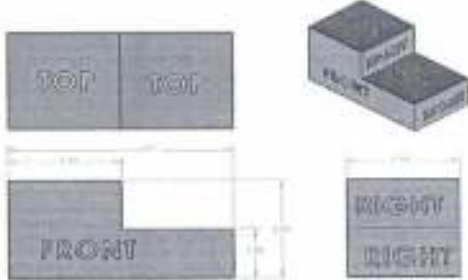
MULTIPLE CHOICE QUESTIONIRE

COURSE NAME: SOLID WORKS
SEM:

ACADEMIC YEAR:
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1	Which view should show the most detail of the object being drawn? A) top view B) front view C) right view D) bottom view	1
2	Which lines on a drawing should be the thickest? A) dimension lines B) centre lines C) object lines D) hidden lines	1
3	To begin drawing a new object in Solidworks you must go through the following sequence. A) Select File>New>Part B) Select File>New>Drawing C) Select File>Open>Part D) Select File>Open>Drawing E) Select File>Part>Open	1
4	To begin a sketch in Solidworks the first thing you must do is? A) Dimension the lines B) Lay out a faint line before darkening in it in. C) Create a set of points that the lines will go through	1

13	What is the correct comparison between an Extruded (Revolved, Lofted, Swept) and Extruded Cut (Revolved Cut, Lofted Cut, Swept Cut)? A) An extruded feature adds material; an extruded cut divides the feature into equal pieces. B) An extruded feature adds material; an extruded cut removes material C) An extruded feature adds material; an extruded cut hurts the material D) An extruded feature demands respect; an extruded cut is submissive to the feature		1
14	Where do names and company information go on a Solid works drawing? A) Title Block B) On the Object C) You do not want to leave any information about the designer in a drawing D) In every corner of the paper		1
15	_____ is the process of creating sketches of what our minds see. A) Imaging B) Processing C) Seeing D) Representing		1
16	Is a thick and continuous line representing all edges and surfaces of an object visible in a view? A) Extension line B) Leader lines C) Center lines D) Visible lines		1
17	The most important rule in dimensioning an object is what A) Dimension should be off all views B) Readability C) Should be dimensioned from the face that is most descriptive of its shape D) Never over dimension		1
18	In an isometric drawing what angle is used to draw the width and depth of an object? A) 15 B) 30 C) 45 D) 60		1
19	How did old design programmes view the model? A) A 2D model in a 2D environment B) A 2D model in a 3D environment C) A 3D model in a 2D environment D) A 3D model in a 3D environment		1
20	What is the object called in Solid works? A) A design B) A model C) A diagram D) A picture		1

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has successfully completed the 30-hours Value-Added course on

Hands on practice solid works

from 23th May 2022 to 28th May 2022.

Akshay V Agasthya
Vice President - Learning and
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Genesis Training, Bengaluru

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bearing USN 1ST20ME003 of Semester 8th

has successfully completed the 30-hours Value-Added course on

Hands on practice Auto cad

from 4th July 2022 to 9th July 2022.

Akshay V Agasthya
Vice President - Learning and
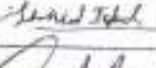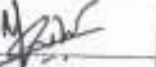Development
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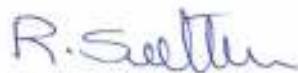Sambhram Institute of Technology,
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MECHANICAL ENGINEERING

Consolidated Details-Value Added Course
2021-22
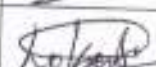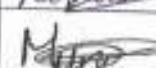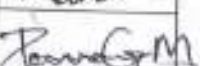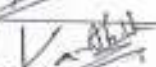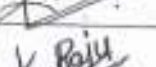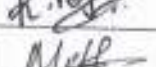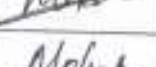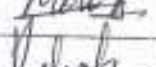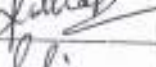
Sl.No	Name of Student	USN	Name of course	Company Name	Hours	Signature
1	POORNA CHNADRA	1ST20ME002	Hands on practice Auto cad	GENESIS	30	
2	SHIVA PRAKASH	1ST20ME003	Hands on practice Auto cad	GENESIS	30	
3	VINUTHA J	1ST20ME004	Hands on practice Auto cad	GENESIS	30	
4	LOKESH B S	1ST21ME400	Hands on practice Auto cad	GENESIS	30	
5	MUNI KRISHNA	1ST21ME401	Hands on practice Auto cad	GENESIS	30	
6	PAVAN GM	1ST17ME026	3-D Printing and its application	GENESIS	30	
7	HARISH U	1ST18ME005	3-D Printing and its application	GENESIS	30	
8	PERIYANAYAGAM M	1ST18ME007	3-D Printing and its application	GENESIS	30	
9	KARTHIK GOWDA G	1ST19ME003	3-D Printing and its application	GENESIS	30	
10	KANTHA RAJU K	1ST19ME004	3-D Printing and its application	GENESIS	30	
11	MITHUN KUMAR R	1ST19ME005	3-D Printing and its application	GENESIS	30	
12	MOHAMMED VASIM	1ST19ME006	3-D Printing and its application	GENESIS	30	
13	RISHAV KUMAR SINGH	1ST19ME007	3-D Printing and its application	GENESIS	30	
14	SABIN KUMAR SINGH	1ST19ME008	3-D Printing and its application	GENESIS	30	
15	SHAHID IQBAL	1ST19ME010	3-D Printing and its application	GENESIS	30	
16	SUDEEP S	1ST19ME011	3-D Printing and its application	GENESIS	30	
17	VISHAL CHOUDRY	1ST19ME012	3-D Printing and its application	GENESIS	30	
18	AKHILESH BHAT	1ST16ME005	Hands on practice solid works	GENESIS	30	
19	CHETHAN M	1ST16ME013	Hands on practice solid works	GENESIS	30	

R. Seethu

Head of the Department of
Mechanical Engineering
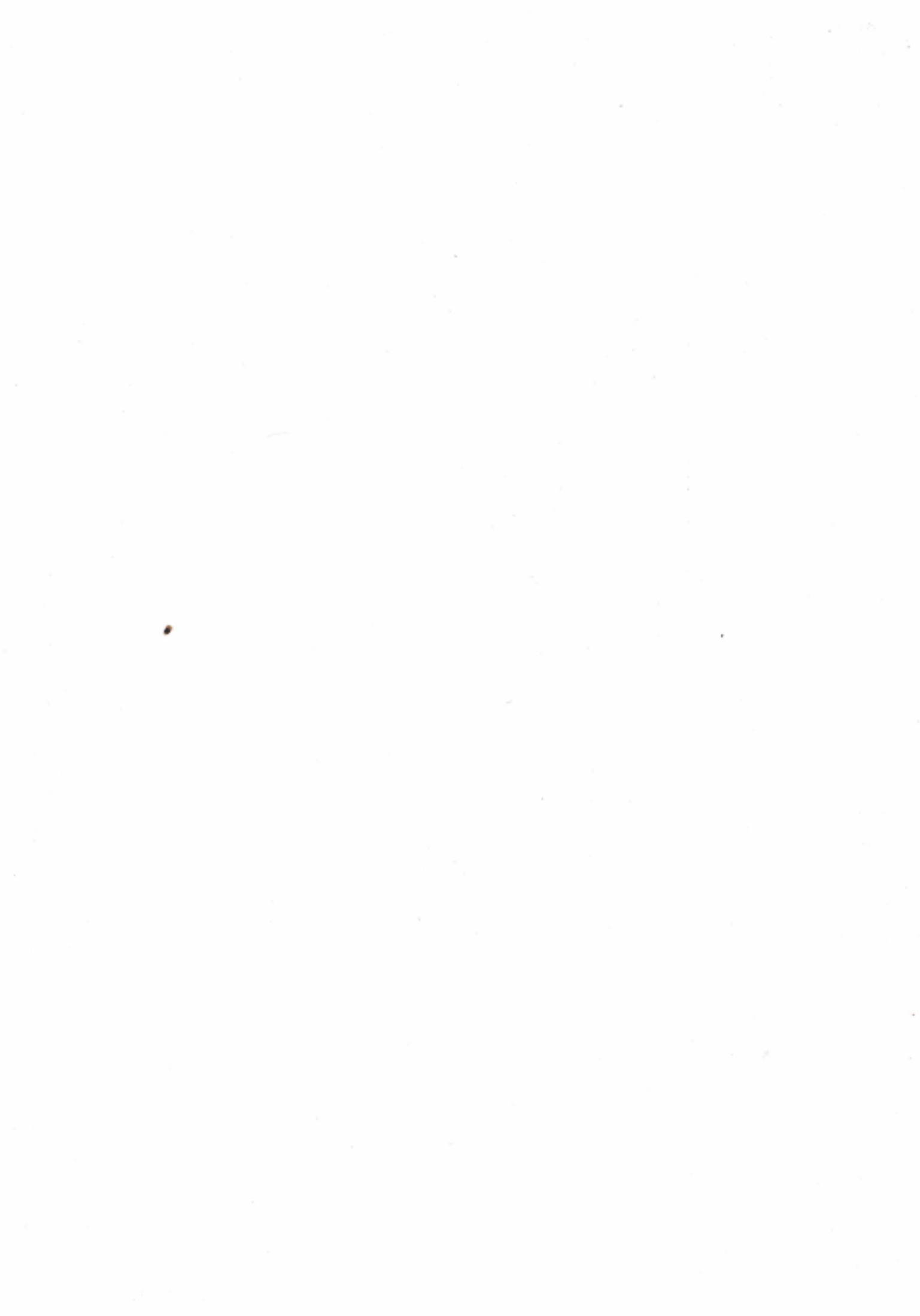Sambhram Institute of Technology
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MECHANICAL ENGINEERING

20	VASU N	1ST17ME406	Hands on practice solid works	GENESIS	30	
21	ANJAN KUMAR S	1ST16ME700	Hands on practice solid works	GENESIS	30	
22	TEJAS K S	1ST16ME703	Hands on practice solid works	GENESIS	30	
23	ALOK KUMAR SINGH	1ST17ME005	Hands on practice solid works	GENESIS	30	
24	BISHAL PUN	1ST17ME013	Hands on practice solid works	GENESIS	30	
25	PRAVEEN KUMAR K	1ST17ME030	Hands on practice solid works	GENESIS	30	
26	SRINIVAS GOWDA G	1ST17ME046	Hands on practice solid works	GENESIS	30	
27	VIDHYASHREE.P	1ST17ME052	Hands on practice solid works	GENESIS	30	
28	BANDI HARI KRISHNA	1ST18ME001	Hands on practice solid works	GENESIS	30	
29	FLOWER SM	1ST18ME003	Hands on practice solid works	GENESIS	30	
30	GAGANDEEP BHATIA	1ST18ME004	Hands on practice solid works	GENESIS	30	
31	MADHUSUDAN	1ST18ME008	Hands on practice solid works	GENESIS	30	
32	MOHSIN ALI	1ST18ME010	Hands on practice solid works	GENESIS	30	
33	PAVAN KUMAR N	1ST18ME011	Hands on practice solid works	GENESIS	30	
34	SAMRAT CHAUDHARY	1ST18ME013	Hands on practice solid works	GENESIS	30	

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SAMBHRAM INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING
VALUE ADDED COURSES

SL.NO	ACADEMIC YEAR	COURSE NAME
1	2022-2023	• Hands on practice AutoCAD • Hands on Practice CATIA V5 • CNC Turning & Milling

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COURSE NAME: CNC Turning & Milling   **ACADEMIC YEAR: 2022-23**

Manual CNC part programming: using ISO Format G/M codes for 2 turning and 2 milling parts. Selection and assignment of tools, correction of syntax and logical errors, and verification of tool path using CNC program verification software. **[10 hours]**

CNC part programming using CAM packages: Simulation of Turning, Drilling, Milling operations. 3 typical simulations to be carried out using simulation packages like: Cadim CAM Lab-Pro, Master CAM. Program generation using software. Optimize spindle power, torque utilization, and cycle time. Generation and printing of shop documents like process and cycle time sheets, tool list, and tool layouts. Cut the part in single block and auto mode and measure the virtual part on screen. Post processing of CNC programs for standard CNC control systems like FANUC, SINUMERIC and MISTUBISHI. **[10 hours]**

FMS (Flexible Manufacturing System): Programming of Automatic storage and Retrieval system (ASRS) and linear shuttle conveyor Interfacing CNC lathe, milling with loading unloading arm and ASRS to be carried out on simple components. Robot programming: Using Teach Pendent & Offline programming to perform pick and place, stacking of objects (2 programs). Pneumatics and Hydraulics, Electro-Pneumatics: 3 typical experiments on Basics of these topics to be conducted. **[10 hours]**

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COURSE NAME: CNC Turning & Milling
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1	In machining of a work piece, the material is removed by_____ A) drilling action B) melting action C) shearing acting D) using brittleness of the material	1
2	The depth that the tool is plunged into the surface is called as _____ A) Feed B) depth of cut C) depth of tool D) working depth	1
3	Feed is measured in units of _____ A) length/revolution B) degree/revolution C) length D) velocity	1
4	CNC machining centres do not include operations like _____ A) Milling B) Boring C) Welding D) tapping	1
5	In CNC systems multiple microprocessors and programmable logic controllers work _____ A) in parallel B) in series C) one after the other D) for 80% of the total machining time	1
6	Which of the following is not the advantage of CNC machines? A) Higher flexibility B) Improved quality C) Reduced scrap rate D) Improved strength of the components	1
7	In how many ways CNC machine tool systems can be classified? A) 2 B) 3 C) 4 D) 5	1

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	D) Select the plane that you will draw on.	
5	To what should your first sketch be referenced to? A) There is no object present to reference it to B) Origin C) Axis D) Center line	1
6	How do you fully define a sketch? A) Type in the coordinates for each point based off of the X, y, z coordinates. B) Put in a note the description of the object you are trying to make C) Place enough dimensions on the sketch so that no point could move away from its present location. D) Place as many dimensions on the sketch that could be possible no matter if the dimension is driven or not.	1
7	If you wanted to take your sketch and give it depth in one direction which features tool would you use? A) Revolved B) Swept C) Lofted D) Extruded	1
8	If you wanted to take your sketch and make it travel around an axis what features tool would you use? A) Revolved B) Swept C) Lofted D) Extruded	1
9	What tool would you use to round off the corners of an object? A) Chamfer B) Features C) Fillet D) Dome	1
10	You have to have one of these to sketch on. A) Sphere B) Point C) Axis D) Plane	1
11	If you have to change a features size that was determined in the sketch you should do what? A) Delete the feature then edit the sketch B) Delete the feature and the sketch and start over C) Edit the sketch D) You have to start the whole object over	1
12	If a feature tool is not working what is the most likely issue? A) There is an error in the sketch B) The sketch is not fully defined C) The sketch is not labeled properly D) The process is going to cause the software to think to much	1

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8	Point-to-point systems are used for _____ A) Reaming B) Parting C) Grooving D) facing		1
9	In part programming, interpolation is used for obtaining _____ trajectory. A) Helicoidal B) Pentagonal C) Triangular D) zig-zag		1
10	For CNC machining skilled part programmers are needed. A) True B) False		1
11	Numerical control _____ A) applies only to milling machines B) is a method for producing exact number of parts per hour C) is a method for controlling by means of set of instructions D) none of the mentioned		1
12	What is the function of sideways in CNC? (a) Reduce friction (b) Reduce Wear (c) Improve smoothness of the drive (d) All of the mentioned		1
13	G-codes are also known as (a) preparatory codes (b) spindle speed codes (c) tool selection codes (d) miscellaneous codes		1
14	M-codes are also known as (a) preparatory codes (b) spindle speed codes (c) tool selection codes (d) miscellaneous codes		1
15	Which of the following code will give rapid linear movement? (a) G00 (b) G01 (c) G56 (d) G94		1

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16	Which of the following code will give a linear interpolation movement? (a) G00 (b) G01 (c) G78 (d) G65	1
17	Which of the following code will give circular interpolation in a clockwise direction? (a) G56 (b) G01 (c) G02 (d) G47	1
18	Which of the following code will give circular interpolation in counter clockwise direction? (a) G00 (b) G56 (c) G69 (d) G03	1
19	Which the following code will produce dwell for a specified time? (a) G04 (b) G18 (c) G45 (d) G65	1
20	Which of the following code is used to select the YZ plane in milling? (a) G32 (b) G00 (c) G02 (d) G19	1

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has successfully completed the 30-hours Value-Added course on

CNC Turning &Milling

from 7th November 2022 to 12th November 2022

Akshay V Agasthya
Vice President – Learning and
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Genesis Training, Bengaluru

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COURSE NAME: Hands on Practice AutoCAD   ACADEMIC YEAR: 2022-23

- AutoCAD versions, Function keys, ABSOLUTE COORDINATE SYSTEM, Line command ,Poly line command, Rectangle command, Move ,Rotate, Scale, copy, Mirror, erase, trim, extend, Linear, Aligned, Radius Angular, Arc length, Single line text, Multiline text, Layer properties, Insert blocks. Geometric, Dimensional Manage, Isometric top, left, right Isometric diagrams, Isometric diagrams exercise, Drawing units Sheet settings, knuckle joint, Idler plate Hook drawing, fork, Save files Export pdf plot.

- Drawing Area Setup Visual reference, grid snap mode, introduction to building drawing, different types of buildings, exercise – 1 planning house drawing rough sketch, floor plan, detached house semi detached house, drawing ground floor 1st floor,2nd floor, residential house public buildings, 1st floor ,2nd floor elevation

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bearing USN ___1ST21ME001___ of Semester ___5th___

has successfully completed the 30-hours Value-Added course on

Hands on practice Autocad

from 12th December 2022 to 17th December 2022.

Akshay V Agasthya
Vice President - Learning and Development
Genesis Training, Bengaluru

Dr. H.G. Chandrakanth
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Sambhram Institute of Technology
M.S. Palya, Bangalore - 560 097

SAMBHRAM
INSTITUTE OF TECHNOLOGY

Supported by

ISTE-SaIT

Department of Mechanical Engineering

In association with

Genesis Training

CERTIFICATE OF COMPLETION

This is to Certify that Ms./Mr. _POORNA CHANDRA_

bearing USN _1ST20ME001_ of Semester _6th_

has successfully completed the 30-hours Value-Added course on

Hands on Practice CATIA V5

from 29th November 2022 to 3rd December 2022

Akshay V Agasthya
Vice President – Learning and
Development
Genesis Training, Bengaluru

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Dr. H.G. Chandrakanth
Priinicipal
Sambhram Institute Of
Technology

SAMBHRAM INSTITUTIONS

MECHANICAL ENGINEERING
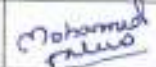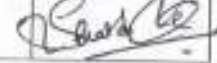
Consolidated Details-Value Added Course
2022-23

Sl.No	Name of Student	USN	Name of course	Company Name	Hours	Signature
1	CHARAN D K	1ST21ME001	Hands on practice Autocad	GENESIS	30	
2	SHARATH J	1ST21ME002	Hands on practice Autocad	GENESIS	30	
3	BHARATH S	1ST22ME400	Hands on practice Autocad	GENESIS	30	
4	GANESH	1ST22ME401	Hands on practice Autocad	GENESIS	30	
5	SIDDALINGA SWAMY V S	1ST22ME402	Hands on practice Autocad	GENESIS	30	
6	SRIVATSA D H	1ST22ME403	Hands on practice Autocad	GENESIS	30	
7	SUMA K	1ST22ME404	Hands on practice Autocad	GENESIS	30	
8	TEJAS B	1ST22ME405	Hands on practice Autocad	GENESIS	30	
9	TEJAS V	1ST22ME406	Hands on practice Autocad	GENESIS	30	
10	UDAY S G	1ST22ME407	Hands on practice Autocad	GENESIS	30	
11	FIBIN	1ST20ME001	Hands on Practice CATIA V5	GENESIS	30	
12	POORNA CHNADRA	1ST20ME002	Hands on Practice CATIA V5	GENESIS	30	
13	VINUTHA J	1ST20ME004	Hands on Practice CATIA V5	GENESIS	30	
14	LOKESH B S	1ST21ME400	Hands on Practice CATIA V5	GENESIS	30	
15	MUNI KRISHNA	1ST21ME401	Hands on Practice CATIA V5	GENESIS	30	
16	PAVAN GM	1ST17ME026	CNC Turning & Milling	GENESIS	30	
17	HARISH U	1ST18ME005	CNC Turning & Milling	GENESIS	30	
18	PERIYANAYAGAM M	1ST18ME007	CNC Turning & Milling	GENESIS	30	
19	KARTHIK GOWDA G	1ST19ME003	CNC Turning & Milling	GENESIS	30	
20	KANTHA RAJU K	1ST19ME004	CNC Turning & Milling	GENESIS	30	

R. Setter
Head of the Department of
Mechanical Engineering
Sambhram Institute of Technology
Bangalore - 560 097

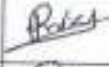Sambhram Institute of Technology
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21	MITHUN KUMAR R	1ST19ME005	CNC Turning &Milling	GENESIS	30	
22	MOHAMMED VASIM	1ST19ME006	CNC Turning & Milling	GENESIS	30	
23	RISHAV KUMAR SINGH	1ST19ME007	CNC Turning & Milling	GENESIS	30	
24	SABIN KUMAR SINGH	1ST19ME008	CNC Turning & Milling	GENESIS	30	
25	SHAHID IQBAL	1ST19ME010	CNC Turning & Milling	GENESIS	30	

R. Sachin
Head of the Department of
Mechanical Engineering
Sambhram Institute of Technology
Bangalore - 560 097

H G

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SL.NO.	NAME OF THE STUDENT	USN	TOPICS	COMPANY NAME	Duration(hrs)	Signature
1	ALTAF	1ST18CS001	Digital Marketing	Genesis	30	Altaf
2	AMAN RAJ	1ST18CS002	Digital Marketing	Genesis	30	Aman Raj
3	ANJALI B M	1ST18CS003	Digital Marketing	Genesis	30	Anjali
4	ANISHMA A S	1ST18CS004	Digital Marketing	Genesis	30	Anishma
5	ANKITA CHATURVEDI	1ST18CS005	Digital Marketing	Genesis	30	Ankitha
6	ANUPAM PALL	1ST18CS006	Digital Marketing	Genesis	30	Anupall
7	ANUSHA G A	1ST18CS007	Digital Marketing	Genesis	30	Anusha G
8	ANUSHREE R K	1ST18CS008	Digital Marketing	Genesis	30	Anushree
9	ARCHANA R	1ST18CS009	Digital Marketing	Genesis	30	Archana R
10	ARUN SHEKAR	1ST18CS010	Digital Marketing	Genesis	30	Arun
11	ASHA R	1ST18CS011	Digital Marketing	Genesis	30	Asha. r
12	ASLAM	1ST18CS012	Digital Marketing	Genesis	30	Aslam
13	ATHISH R	1ST18CS013	Digital Marketing	Genesis	30	Athish
14	AYYAN AHMAD	1ST18CS014	Digital Marketing	Genesis	30	Ayyan Ahmad
15	BHANU PRATAP SINGH CHAUHAN	1ST18CS015	Digital Marketing	Genesis	30	Bhanu Pratap
16	BHAVANA K R	1ST18CS016	Digital Marketing	Genesis	30	Bhavana KR
17	BHAVANA T J	1ST18CS017	Digital Marketing	Genesis	30	Bhavana
18	BHAVANI R	1ST18CS018	Digital Marketing	Genesis	30	Bhavana. r
19	BHAVYA SHREE T P	1ST18CS019	Digital Marketing	Genesis	30	Bhayashree P
20	BHAVYASHREE S	1ST18CS020	Digital Marketing	Genesis	30	Bhavyashree
21	BISWANATH SINGH	1ST18CS021	Digital Marketing	Genesis	30	Biswanath
22	CHAITRA HEGDE	1ST18CS022	Digital Marketing	Genesis	30	Chai
23	CHAITRA V	1ST18CS023	Digital Marketing	Genesis	30	Chaitra V

No	Name	USN				Signature
57	LIKHITHA K	1ST18CS059	Digital Marketing	Genesis	30	
58	LIKITHA K	1ST18CS060	Digital Marketing	Genesis	30	
59	LOVELY KUMARI	1ST18CS061	Digital Marketing	Genesis	30	
60	MAHATAB ALAM	1ST18CS062	Digital Marketing	Genesis	30	
61	MAMATHA H R	1ST18CS063	Digital Marketing	Genesis	30	
62	MANJU YADAV	1ST18CS064	Digital Marketing	Genesis	30	
63	MANOHAR KUMAR	1ST18CS065	Digital Marketing	Genesis	30	
64	MANOJ J	1ST18CS066	Digital Marketing	Genesis	30	
65	MALLIK THUMMAR	1ST18CS067	Digital Marketing	Genesis	30	
66	MD HASAN	1ST18CS068	Digital Marketing	Genesis	30	
67	MEDHA V	1ST18CS069	Digital Marketing	Genesis	30	
68	MEHBOOB HUSSAIN SIDDIQUE	1ST18CS070	Digital Marketing	Genesis	30	
69	MHEER B K	1ST18CS071	Digital Marketing	Genesis	30	
70	MISBAAH TAZEEN A	1ST18CS072	Digital Marketing	Genesis	30	
71	MOHD ZAHID	1ST18CS073	Digital Marketing	Genesis	30	
72	MD NAJISA R	1ST18CS074	Digital Marketing	Genesis	30	
73	MUNU KUMAR BHAGAT	1ST18CS075	Digital Marketing	Genesis	30	
74	MUHAMMAD MONEEB	1ST18CS076	Digital Marketing	Genesis	30	
75	MUKIND KUMAR	1ST18CS077	Digital Marketing	Genesis	30	
76	NARALA BHARATH KUMAR REDD	1ST18CS078	Digital Marketing	Genesis	30	
77	N KEERTHIRAJ	1ST18CS079	Digital Marketing	Genesis	30	
78	NARALA VIRUPAKSHA REDDY	1ST18CS080	Digital Marketing	Genesis	30	
79	NAGASHREE H	1ST18CS081	Digital Marketing	Genesis	30	
80	NAVEEN PRATHAB S	1ST18CS082	Digital Marketing	Genesis	30	
81	NAYANA J	1ST18CS083	Digital Marketing	Genesis	30	
82	NEELUFER A S	1ST18CS084	Digital Marketing	Genesis	30	
83	NEHA BAI SINDHYA	1ST18CS085	Digital Marketing	Genesis	30	
84	NETRA N	1ST18CS086	Digital Marketing	Genesis	30	
85	NIRMAL KUMAR	1ST18CS087	Digital Marketing	Genesis	30	
86	NISHCHAY K	1ST18CS088	Digital Marketing	Genesis	30	
87	NITHYA T P	1ST18CS089	Digital Marketing	Genesis	30	
88	OHM KUMAR	1ST18CS090	Digital Marketing	Genesis	30	
89	PALLAVI	1ST18CS091	Digital Marketing	Genesis	30	

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Sl. No	Name	USN	Course		Marks	Signature
123	POOJA K S	1ST18EC026	Digital Marketing	Genesis	30	
124	POOJASHREE K	1ST18EC027	Digital Marketing	Genesis	30	
125	PRASANNA M R	1ST18EC028	Digital Marketing	Genesis	30	
126	PRASHANT KUMAR	1ST18EC029	Digital Marketing	Genesis	30	
127	RAGHAVENDRA H	1ST18EC030	Digital Marketing	Genesis	30	
128	RAKESH KUMAR M K	1ST18EC031	Digital Marketing	Genesis	30	
129	RAKSHITHA N	1ST18EC032	Digital Marketing	Genesis	30	
130	RAMYA P	1ST18EC033	Digital Marketing	Genesis	30	
131	SAHANA H K	1ST18EC034	Digital Marketing	Genesis	30	
132	SAHANA M	1ST18EC035	Digital Marketing	Genesis	30	
133	SANDEEP S	1ST18EC036	Digital Marketing	Genesis	30	
134	SANDESH R H	1ST18EC037	Digital Marketing	Genesis	30	
135	SHARATH R PUTHRAN	1ST18EC038	Digital Marketing	Genesis	30	
136	SHASHANTH GOWDA H C	1ST18EC039	Digital Marketing	Genesis	30	
137	SHASHI KUMAR R	1ST18EC040	Digital Marketing	Genesis	30	
138	SHUBHAM KUMAR	1ST18EC041	Digital Marketing	Genesis	30	
139	SOUJANYA KALAL	1ST18EC042	Digital Marketing	Genesis	30	
140	ABHISHEK KUMAR	1ST18IS001	Digital Marketing	Genesis	30	
141	AMRUTHA P	1ST18IS002	Digital Marketing	Genesis	30	
142	ANURAG SINGH	1ST18IS003	Digital Marketing	Genesis	30	
143	ASHRITHA S	1ST18IS004	Digital Marketing	Genesis	30	
144	AYESHA SIDDIQUA	1ST18IS005	Digital Marketing	Genesis	30	
145	CHETHAN C GOWDA	1ST18IS006	Digital Marketing	Genesis	30	
146	DEEPANSHU KUMAR	1ST18IS007	Digital Marketing	Genesis	30	
147	DHEEMANTH T ASUTI	1ST18IS008	Digital Marketing	Genesis	30	
148	DHRUVIL SORATHIA	1ST18IS009	Digital Marketing	Genesis	30	
149	GOWTHAM GOWDA M C	1ST18IS010	Digital Marketing	Genesis	30	
150	KARTHIK ADIGA	1ST18IS011	Digital Marketing	Genesis	30	
151	LOHITH G	1ST18IS012	Digital Marketing	Genesis	30	
152	M S CHANDANA	1ST18IS013	Digital Marketing	Genesis	30	
153	MANISH C	1ST18IS014	Digital Marketing	Genesis	30	
154	MD IMTIYAZ ALAM	1ST18IS015	Digital Marketing	Genesis	30	
155	MOHAMMAD AATIF SALIM	1ST18IS016	Digital Marketing	Genesis	30	

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No.	Name	ID			Marks	Signature
156	MURALI S	1ST18IS017	Digital Marketing	Genesis	30	
157	NUTHAN PRASAD BABU	1ST18IS018	Digital Marketing	Genesis	30	
158	POORNIMA HEGDE	1ST18IS019	Digital Marketing	Genesis	30	
159	PRATHIBHA M	1ST18IS020	Digital Marketing	Genesis	30	
160	RAKSHITHA S B	1ST18IS021	Digital Marketing	Genesis	30	
161	ROOPA G	1ST18IS022	Digital Marketing	Genesis	30	
162	SANGEETHA V	1ST18IS023	Digital Marketing	Genesis	30	
163	SHALINI S R	1ST18IS024	Digital Marketing	Genesis	30	
164	SHALLET CLINTON	1ST18IS025	Digital Marketing	Genesis	30	
165	BANDI HARI KRISHNA	1ST18ME001	Digital Marketing	Genesis	30	
166	BHARAT RAAJ	1ST18ME002	Digital Marketing	Genesis	30	
167	FLOWER S M	1ST18ME003	Digital Marketing	Genesis	30	
168	GAGANDEEP BHATIA	1ST18ME004	Digital Marketing	Genesis	30	
169	HARISH U	1ST18ME005	Digital Marketing	Genesis	30	
170	JOBIN JOSEPH	1ST18ME006	Digital Marketing	Genesis	30	
171	M PERIYA NAYAGAM	1ST18ME007	Digital Marketing	Genesis	30	
172	MADHUSUDHANA D	1ST18ME008	Digital Marketing	Genesis	30	
173	MANOJ PATEL G M	1ST18ME009	Digital Marketing	Genesis	30	
174	MD MOHSIN ALI	1ST18ME010	Digital Marketing	Genesis	30	
175	PAVAN KUMAR N	1ST18ME011	Digital Marketing	Genesis	30	
176	RENUKA L	1ST18ME012	Digital Marketing	Genesis	30	
177	SAMRAT CHAUDHARY	1ST18ME013	Digital Marketing	Genesis	30	
178	SHARATH A	1ST18ME014	Digital Marketing	Genesis	30	
179	SHEKHAR SINGH	1ST18ME015	Digital Marketing	Genesis	30	
180	SIDDHARTH KHENDIKAR	1ST18ME016	Digital Marketing	Genesis	30	
181	SIVANAND M	1ST18ME017	Digital Marketing	Genesis	30	
182	SRINIVAS V	1ST18ME018	Digital Marketing	Genesis	30	
183	TEJAS A	1ST18ME019	Digital Marketing	Genesis	30	
184	VISHAL VAIBHAV	1ST18ME020	Digital Marketing	Genesis	30	
185	AJEET KUMAR	1ST18CV001	Digital Marketing	Genesis	30	
186	AMIT KUMAR YADAV	1ST18CV002	Digital Marketing	Genesis	30	
187	ANUPAMA M	1ST18CV003	Digital Marketing	Genesis	30	
188	AQUIB ALEE	1ST18CV004	Digital Marketing	Genesis	30	

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**SAMBHRAM INSTITUTE OF
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IN ASSOCIATION**

GENESIS TRAINING

SAMBHRAM
INSTITUTE OF TECHNOLOGY

Academic year : 2018-19   **Duration : 30 Hrs**

COURSE NAME: Digital Marketing:

Module 1: Introduction to Digital Marketing (3 hours)

1.1 What is Digital Marketing?

- Definition and scope

- Importance in the modern business environment

1.2 Key Concepts and Terminology

- Overview of digital marketing channels

- Common terms and acronyms (SEO, PPC, CTR, etc.)

1.3 Digital Marketing vs. Traditional Marketing

- Key differences and advantages

- Integration strategies

Module 2: Website and Blog Creation (3 hours)

2.1 Website Fundamentals

- Choosing a domain and hosting

- Basics of web design and user experience (UX)

- Tools for tracking content performance

Module 5: Social Media Marketing (3 hours)

5.1 Social Media Platforms Overview

- Key platforms (Facebook, Twitter, Instagram, LinkedIn, etc.)

- Platform-specific strategies

5.2 Creating a Social Media Strategy

- Setting goals and objectives

- Content planning and scheduling

5.3 Social Media Analytics

- Tracking performance metrics

- Using insights to optimize strategy

Module 6: Pay-Per-Click Advertising (PPC) (3 hours)

6.1 Introduction to PPC

- Understanding PPC and its benefits

- Overview of popular PPC platforms (Google Ads, Bing Ads)

6.2 Creating Effective Ads

- Ad copy and design best practices

- Keyword selection and bidding strategies

6.3 Analyzing PPC Campaigns

- Key metrics (CPC, CTR, conversion rates)

- Tools for monitoring and optimizing campaigns

Module 7: Email Marketing (3 hours)

7.1 Basics of Email Marketing

- Building and segmenting an email list

- Tracking affiliate performance

- Tools for managing affiliate relationships

Module 10: Future Trends and Best Practices (3 hours)

10.1 Emerging Trends in Digital Marketing

- AI and machine learning in marketing

- Voice search and smart devices

10.2 Best Practices and Case Studies

- Ethical considerations and compliance

- Case studies of successful digital marketing campaigns

10.3 Final Project and Review

- Creating a comprehensive digital marketing plan

- Review and feedback session

This curriculum is designed to provide a solid foundation in digital marketing, with a mix of theoretical knowledge and practical skills that can be applied in real-world scenarios.

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MULTIPLE CHOICE QUESTIONS

COURSE NAME: **DIGITAL MARKETING**   Academic Year : **2018-19**

SEM : I/II   USN : IST18CS007

1. Which of the following is not a factor in Google's ranking algorithm?

   A) Page Load Speed
   B) Keyword Density
   C) Number of Pop-up Ads
   D) Mobile Friendliness

2. Backlinks from high-authority sites can improve your website's SEO ranking.

   A) True
   B) False

3. What is the primary goal of content marketing?

   A) Directly sell products
   B) Engage and educate the audience
   C) Generate pop-up ads
   D) Increase the bounce rate

4. What is dual pricing?

   A) Daily prices and weekly prices
   B) Price fixed by Government and price in open market
   C) Wholesale price and retail price
   D) Pricing by agents and pricing by retailers

5. Which social media platform is most effective for B2B marketing?

   A) Instagram
   B) LinkedIn
   C) Snapchat
   D) TikTok

6. Assertion (A): Content marketing helps businesses build trust and credibility with consumers.

2. Search Engine Optimization (SEO)

3. Social Media Analytics

4. Content Management System (CMS)

5. Pay-Per-Click (PPC) Advertising

Choose the correct order:

A) 3, 1, 4, 5, 2
B) 2, 3, 1, 4, 5
C) 5, 4, 3, 1, 2
D) 1, 2, 3, 4, 5

13. Google Analytics can track user interactions on your website in real-time.

A) True
B) False

14. What is a buyer persona?

A) A fictional representation of a company's ideal customer
B) A type of digital marketing tool
C) A strategy to increase bounce rates
D) An algorithm used in SEO

15. Expansion of HTTP:

A) Hyperlink Text Transfer Protocol
B) Hypertext Transfer Protocol
C) Hyper Transfer Text Protocol
D) Hypertext Transfer Proxy

16. Two friends are on WhatsApp discussing a holiday plan. Immediately, Uber pops up within WhatsApp to help book a ride and provide an estimate. This is known as

A) Contextual digital marketing
B) Direct mail marketing
C) Mail order marketing
D) Telemarketing

17. Which of the following Digital marketing statements are correct?

A. Click through Rate is calculated by dividing the total number of clicks by the total number of adimpressions.
B. Long tail keywords are general key words which draw lower customer traffic.
C. Adwords is Google's earned search marketing programme.
D. Search Engine Marketing includes both search engine optimization and paid search.

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Department of Basic Science

In association with

Genesis Training

CERTIFICATE OF COMPLETION

This is to Certify that

Ms./Mr. __ANUSHA G.A__

USN __1ST18CS007__ of Semester __I__ bearing

completed the 30-hours Value-Added course on has successfully

__DIGITAL MARKETING__

from 03-01-2018 to 13-01-2018.

Akshay V Agasthya
Vice-President - Learning and
Development
Genesis Training, Bengaluru

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Sambhram Institute of Technology
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Dr. H.G. Chandrakanth
Principal
Sambhram Institute Of
Technology

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2018-19 : Digital Marketing Solutions

1. C) Number of Pop-up Ads
2. A) True
3. B) Engage and educate the audience
4. B) Price fixed by Government and price in open market
5. B) Linkedin
6. C) A is true, but R is false.
7. A) Cost Per Click
8. A) Pinterest
9. B) Send a series of pre-written emails to subscribers over time
10. D) Social Media Hiring
11. D) All of the above
12. B) 2, 3, 1, 4, 5
13. A) True
14. A) A fictional representation of a company's ideal customer
15. B) Hypertext Transfer Protocol
16. A) Contextual digital marketing
17. D) A, D and E only
18. C) Digital media is lean-back media
19. D) Tailor messaging to individual customers.
20. C) Click-Through Rate

Sl.no	Academic Year	Course Name
1	2019-20	Data Analyst
		Introduction to Java

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Department OF BASIC SCIENCE : Consolidated Details of Add on Course

2019-20

SLNO.	NAME OF THE STUDENT	USN	TOPICS	COMPANY N	Duration(hrs)	Signature
1	AAKASH KUMAR	1ST19CS001	Data Analysts	Genesis	30 hours	
2	ABDUL RAHEEM	1ST19CS002	Data Analysts	Genesis	30 hours	
3	ABHAY DESAI	1ST19CS003	Data Analysts	Genesis	30 hours	
4	ABHISHEK KUMAR	1ST19CS004	Data Analysts	Genesis	30 hours	
5	ADARSH S	1ST19CS005	Data Analysts	Genesis	30 hours	
6	ADEEB BIN RASHEED	1ST19CS006	Data Analysts	Genesis	30 hours	
7	ADIL M	1ST19CS007	Data Analysts	Genesis	30 hours	
8	AISHWARYA M R	1ST19CS008	Data Analysts	Genesis	30 hours	
9	AKASH RAJ K	1ST19CS009	Data Analysts	Genesis	30 hours	
10	AKSHAY A V	1ST19CS011	Data Analysts	Genesis	30 hours	
11	AKSHAY V BALIHALLIMATH	1ST19CS012	Data Analysts	Genesis	30 hours	
12	ALKA KUMARI	1ST19CS013	Data Analysts	Genesis	30 hours	
13	AMIT DAS	1ST19CS014	Data Analysts	Genesis	30 hours	
14	AMIT KUMAR	1ST19CS015	Data Analysts	Genesis	30 hours	
15	AMRUTHA SURESH	1ST19CS016	Data Analysts	Genesis	30 hours	
16	ANKITHA M	1ST19CS017	Data Analysts	Genesis	30 hours	
17	ASHRITA KUMARI CHAUHAN	1ST19CS018	Data Analysts	Genesis	30 hours	
18	AYUSH RAJ	1ST19CS019	Data Analysts	Genesis	30 hours	
19	B R SAISHABRISH	1ST19CS020	Data Analysts	Genesis	30 hours	
20	BETHARSI ARAVIND	1ST19CS021	Data Analysts	Genesis	30 hours	
21	BHAVANA R	1ST19CS022	Data Analysts	Genesis	30 hours	
22	BHOOMIKA B N	1ST19CS023	Data Analysts	Genesis	30 hours	
23	BHUVANESHWAR A	1ST19CS024	Data Analysts	Genesis	30 hours	

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Sl. No	Name	Register No			Duration	Signature
57	LAVANYA B	1ST19CS059	Data Analysis	Genesis	30 hours	
58	LOKESH SINGH	1ST19CS060	Data Analysis	Genesis	30 hours	
59	M V SHIVA REDDY	1ST19CS061	Data Analysis	Genesis	30 hours	
60	MADHAV KABIRATH	1ST19CS062	Data Analysis	Genesis	30 hours	
61	MADHU P	1ST19CS063	Data Analysis	Genesis	30 hours	
62	MAHESH S K	1ST19CS064	Data Analysis	Genesis	30 hours	
63	MANASA N	1ST19CS065	Data Analysis	Genesis	30 hours	
64	MANISH KUMAR	1ST19CS066	Data Analysis	Genesis	30 hours	
65	MANISH SHARMA	1ST19CS067	Data Analysis	Genesis	30 hours	
66	MANJUNATH J	1ST19CS068	Data Analysis	Genesis	30 hours	
67	MANJUNATHA A S	1ST19CS069	Data Analysis	Genesis	30 hours	
68	MANOGNA G	1ST19CS070	Data Analysis	Genesis	30 hours	
69	MANOJ J	1ST19CS071	Data Analysis	Genesis	30 hours	
70	MANOJ S	1ST19CS072	Data Analysis	Genesis	30 hours	
71	MANU KUMAR	1ST19CS073	Data Analysis	Genesis	30 hours	
72	MD DANISH	1ST19CS074	Data Analysis	Genesis	30 hours	
73	MEHETAB UNNISA	1ST19CS075	Data Analysis	Genesis	30 hours	
74	MO OSAMA	1ST19CS076	Data Analysis	Genesis	30 hours	
75	MOHAMMAD SHAHEER	1ST19CS077	Data Analysis	Genesis	30 hours	
76	MONISHA M S	1ST19CS078	Data Analysis	Genesis	30 hours	
77	MUKESH KUMAR B	1ST19CS079	Data Analysis	Genesis	30 hours	
78	NAKUL H M	1ST19CS080	Data Analysis	Genesis	30 hours	
79	NEERAJ IYER	1ST19CS081	Data Analysis	Genesis	30 hours	
80	NIKHIL B M	1ST19CS082	Data Analysis	Genesis	30 hours	
81	NISARGA M	1ST19CS083	Data Analysis	Genesis	30 hours	
82	NUTHAN H C	1ST19CS084	Data Analysis	Genesis	30 hours	
83	OM PRAKASH REDDY Y	1ST19CS085	Data Analysis	Genesis	30 hours	
84	P SWAPNA	1ST19CS086	Data Analysis	Genesis	30 hours	
85	P SWATHI	1ST19CS087	Data Analysis	Genesis	30 hours	
86	PADMASHREE B	1ST19CS088	Data Analysis	Genesis	30 hours	
87	PAVITHRA M	1ST19CS089	Data Analysis	Genesis	30 hours	
88	PAVITHRA R	1ST19CS090	Data Analysis	Genesis	30 hours	
89	PINTU KUMAR	1ST19CS091	Data Analysis	Genesis	30 hours	

No.	Name	USN	Course		Duration	Signature
123	SHASHANK K S	1ST19CS125	Data Analysts	Genesis	30 hours	
124	SHASHANK S	1ST19CS126	Data Analysts	Genesis	30 hours	
125	SHUBHAM KUMAR	1ST19CS127	Data Analysts	Genesis	30 hours	
126	SHUSHANK KUMAR SONI	1ST19CS128	Data Analysts	Genesis	30 hours	
127	SHWETA KUMARI	1ST19CS129	Data Analysts	Genesis	30 hours	
128	SINDHU R	1ST19CS130	Data Analysts	Genesis	30 hours	
129	SNEHA S	1ST19CS131	Data Analysts	Genesis	30 hours	
130	SONAM KUMARI	1ST19CS132	Data Analysts	Genesis	30 hours	
131	SRIVATSA N BHANDARI	1ST19CS133	Data Analysts	Genesis	30 hours	
132	SUCHETH S KASHYAP	1ST19CS134	Data Analysts	Genesis	30 hours	
133	SULU PADMA KUMAR	1ST19CS135	Data Analysts	Genesis	30 hours	
134	SUSHMITHA M J	1ST19CS136	Data Analysts	Genesis	30 hours	
135	TANUSHREE YELI	1ST19CS137	Data Analysts	Genesis	30 hours	
136	TEJASWINI C S	1ST19CS138	Data Analysts	Genesis	30 hours	
137	UJJWAL ANAND	1ST19CS139	Data Analysts	Genesis	30 hours	
138	VAISHNAVI DAS C H	1ST19CS140	Data Analysts	Genesis	30 hours	
139	VANI M	1ST19CS141	Data Analysts	Genesis	30 hours	
140	VEDANTH	1ST19CS142	Data Analysts	Genesis	30 hours	
141	VENKATESH PRASAD G	1ST19CS143	Data Analysts	Genesis	30 hours	
142	VIRENDRA S P	1ST19CS144	Data Analysts	Genesis	30 hours	
143	VISHAL P	1ST19CS145	Data Analysts	Genesis	30 hours	
144	VISHNU MURTHY M	1ST19CS146	Data Analysts	Genesis	30 hours	
145	KISHAN N	1ST19CS147	Data Analysts	Genesis	30 hours	
146	ABHISHEK H	1ST19EC001	Introduction to Java	Genesis	30 hours	
147	AMBIKA S BHAT	1ST19EC002	Introduction to Java	Genesis	30 hours	
148	APPIREDDYGARI CHIRUDEEPESH REDDY	1ST19EC003	Introduction to Java	Genesis	30 hours	
149	BHAVANA SHREE M	1ST19EC004	Introduction to Java	Genesis	30 hours	

Head, the Department of Chemistry
Sambhram Institute of Technology
Bangalore-560 097.

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Sl No	Name	Code	Course	Publisher	Duration	Signature
150	BHAVYA S	IST19EC005	Introduction to Java	Genesis	30 hours	
151	CHRISTOPHER	IST19EC006	Introduction to Java	Genesis	30 hours	
152	DASAM VENKATA MANIKANTAN	IST19EC007	Introduction to Java	Genesis	30 hours	
153	DEEPAK KUAMR PANDIT	IST19EC008	Introduction to Java	Genesis	30 hours	
154	DHANUSH A NAYAKA	IST19EC009	Introduction to Java	Genesis	30 hours	
155	DHANUSH B GANGATKAR	IST19EC010	Introduction to Java	Genesis	30 hours	
156	GAUTAM C	IST19EC011	Introduction to Java	Genesis	30 hours	
157	GONUGUNTLA PRASAD	IST19EC012	Introduction to Java	Genesis	30 hours	
158	GOWTHAM R	IST19EC013	Introduction to Java	Genesis	30 hours	
159	HARSHITHA S	IST19EC014	Introduction to Java	Genesis	30 hours	
160	KADIRI SAMARA SIMHA REDDY	IST19EC015	Introduction to Java	Genesis	30 hours	
161	KAVYASHREE V	IST19EC016	Introduction to Java	Genesis	30 hours	
162	KUNCHAPL HARISH	IST19EC017	Introduction to Java	Genesis	30 hours	
163	LAKSHMI R	IST19EC018	Introduction to Java	Genesis	30 hours	
164	MADAN GOWDA M K	IST19EC019	Introduction to Java	Genesis	30 hours	
165	MANU D	IST19EC020	Introduction to Java	Genesis	30 hours	
166	MOBARK AHMED YOUSOF	IST19EC021	Introduction to Java	Genesis	30 hours	
167	PRANAV RAO J	IST19EC022	Introduction to Java	Genesis	30 hours	
168	PRUTHVI D M	IST19EC023	Introduction to Java	Genesis	30 hours	
169	R LEENA JAYASHREE	IST19EC024	Introduction to Java	Genesis	30 hours	
170	RAKESH KUMAR	IST19EC025	Introduction to Java	Genesis	30 hours	
171	SAI SANSKAR G	IST19EC026	Introduction to Java	Genesis	30 hours	
172	SANJAY T	IST19EC027	Introduction to Java	Genesis	30 hours	
173	SHARON VARGHESE	IST19EC028	Introduction to Java	Genesis	30 hours	
174	SPURTHI J HIREMATH	IST19EC029	Introduction to Java	Genesis	30 hours	
175	SUHAS V	IST19EC030	Introduction to Java	Genesis	30 hours	
176	TEJASWINI D	IST19EC031	Introduction to Java	Genesis	30 hours	
177	VITHLIN V	IST19EC032	Introduction to Java	Genesis	30 hours	
178	BINDU K	IST19IS001	Introduction to Java	Genesis	30 hours	
179	CHANDAN M K	IST19IS002	Introduction to Java	Genesis	30 hours	
180	HARSHITH H R	IST19IS003	Introduction to Java	Genesis	30 hours	
181	HARSHITHA S C	IST19IS004	Introduction to Java	Genesis	30 hours	
182	MAYUKHI ESHWAR	IST19IS005	Introduction to Java	Genesis	30 hours	

216	MANJUNATH K G	1ST19CV013	Introduction to Java	Genesis	30 hours
217	RANJAN KR SAH	1ST19CV014	Introduction to Java	Genesis	30 hours
218	RANJAN YADAV	1ST19CV015	Introduction to Java	Genesis	30 hours
219	S DHINADAYALAN	1ST19CV016	Introduction to Java	Genesis	30 hours
220	SANJAY KUMAR CHAUDHARY	1ST19CV017	Introduction to Java	Genesis	30 hours
221	SURENDRA BAHADUR KHADKA	1ST19CV018	Introduction to Java	Genesis	30 hours
222	TALAL OSMAN MOHAMED ABDALLA	1ST19CV019	Introduction to Java	Genesis	30 hours

HOD

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GENESIS

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GENESIS TRAINING

SAMBHRAM
INSTITUTE OF TECHNOLOGY

Academic year : 2019-20

Duration : 30 Hrs

COURSE NAME : Data Analyst

Module 1: Introduction to Data Analysis (3 hours)

1.1 Overview of Data Analysis

- Definition and importance of data analysis

- Roles and responsibilities of a data analyst

1.2 Types of Data

- Structured vs. unstructured data

- Qualitative vs. quantitative data

1.3 Data Analysis Process

- Steps in the data analysis process (collection, cleaning, analysis, interpretation, visualization)

Module 2: Data Collection and Cleaning (3 hours)

2.1 Data Collection Methods

- Surveys, experiments, observational studies

- Data sources (databases, APIs, web scraping)

2.2 Data Cleaning Techniques

Module 5: Statistical Analysis (3 hours)

5.1 Descriptive Statistics

- Measures of central tendency and dispersion

- Distribution shapes and properties

5.2 Inferential Statistics

- Hypothesis testing (null and alternative hypotheses, p-values, significance levels)

- Confidence intervals and margin of error

5.3 Regression Analysis

- Simple linear regression

- Multiple regression

Module 6: Working with Databases and SQL (3 hours)

6.1 Introduction to Databases

- Relational vs. non-relational databases

- Overview of SQL

6.2 Basic SQL Queries

- SELECT, INSERT, UPDATE, DELETE

- Filtering and sorting data

6.3 Advanced SQL Queries

- Joins (INNER, LEFT, RIGHT, FULL)

- Subqueries and aggregations (GROUP BY, HAVING)

Module 7: Advanced Data Analysis with Python (3 hours)

7.1 Data Manipulation with Pandas

- Merging and joining DataFrames

- Grouping and aggregating data

- Presenting findings to stakeholders

Module 10: Capstone Project and Best Practices (3 hours)

10.1 Capstone Project

- Defining a real-world data analysis problem

- Collecting, cleaning, and analyzing data

10.2 Presenting Results

- Creating a comprehensive report

- Delivering a presentation on findings

10.3 Best Practices and Ethical Considerations

- Data privacy and security

- Ethical use of data

This curriculum is designed to provide a solid foundation in data analysis, with a mix of theoretical knowledge and practical skills that can be applied in real-world scenarios.

GENESIS TRAINING

MULTIPLE CHOICE QUESTIONS

COURSE NAME: DATA ANALYST

Academic Year : 2019-2020

SEM : I/II

USN : 1ST19CS081

1. What is the primary role of a data analyst?

A) To develop software applications
B) To create network infrastructures
C) To analyze and interpret complex data sets
D) To design websites

2. Which of the following is a common tool used for data analysis?

A) Microsoft Word
B) Tableau
C) Adobe Photoshop
D) AutoCAD

3. What does SQL stand for?

A) Sequential Query Language
B) Structured Query Language
C) Simple Query Language
D) Standard Query Language

4. Which function is used in Excel to calculate the average of a range of numbers?

A) SUM
B) AVG
C) MEAN
D) AVERAGE

5. What is the purpose of a pivot table in Excel?

A) To sort data
B) To create charts
C) To summarize and analyze data
D) To perform complex calculations

6. In SQL, which clause is used to filter the results?

A) The mean of a data set

B) The standard deviation

C) The probability of obtaining test results at least as extreme as the observed results

D) The correlation coefficient

14. Which of the following best describes 'big data'?

A) Data that is stored on a local computer

B) Large and complex data sets that are difficult to process using traditional data processing applications

C) Data that is collected from small experiments

D) Simple data sets that can be processed quickly

15. What is the purpose of data normalization?

A) To increase data redundancy

B) To organize data to reduce redundancy and improve data integrity

C) To convert data into a different format

D) To compress data

16. Which programming language is most commonly used for statistical analysis and data visualization?

A) Java

B) Python

C) C++

D) HTML

17. What is a data warehouse?

A) A place to store raw data before processing

B) A central repository of integrated data from various sources

C) A tool for visualizing data

D) A type of database used for online transactions

18. In SQL, which function is used to combine the results of two or more queries?

A) JOIN

B) UNION

C) MERGE

D) CONNECT

19. Which of the following describes a 'time series'?

A) Data collected at different points in time

B) Data collected from different locations

C) Data collected from various sources

D) Data that is structured in a hierarchical format

2019-2020 : **DATA ANALYST** Solutions

1: C) To analyze and interpret complex data sets

2: B) Tableau

3: B) Structured Query Language

4: D) AVERAGE

5: C) To summarize and analyze data

6: B) WHERE

7: A) A unique identifier for a table record

8: D) Text document

9: D) All of the above

10: C) pandas

11: A) Extract, Transform, Load

12: C) A text document

13: C) The probability of obtaining test results at least as extreme as the observed results

14: B) Large and complex data sets that are difficult to process using traditional data processing applications

15: B) To organize data to reduce redundancy and improve data integrity

16: B) Python

17: B) A central repository of integrated data from various sources

18: B) UNION

19: A) Data collected at different points in time

20: B) It has extensive libraries for data analysis and visualization

GENESIS TRAINING

MULTIPLE CHOICE QUESTIONS

COURSE NAME: **INTRODUCTION TO JAVA**

Academic Year : **2019-20**

SEM : **I/II**

USN : IST19EC031

1. What is Java primarily used for?

A) Web development
B) Mobile development
C) Enterprise applications
D) All of the above

2. Which of the following is not a feature of Java?

A) Object-oriented
B) Platform-independent
C) Low-level programming
D) Secure

3. Who is known as the father of Java?

A) Dennis Ritchie
B) James Gosling
C) Bjarne Stroustrup
D) Guido van Rossum

4. What does JVM stand for?

A) Java Visual Machine
B) Java Virtual Machine
C) Java Variable Machine
D) Java Version Machine

5. Which keyword is used to define a class in Java?

A) function
B) define
C) class
D) method

13. What does the 'final' keyword indicate in Java?

A) The variable's value can be changed
B) The variable's value cannot be changed
C) The variable can be used in other classes
D) The variable must be initialized in a constructor

14. What is inheritance in Java?

A) A way to create a new class from an existing class
B) A way to remove methods and fields from a class
C) A way to clone classes
D) None of the above

15. Which collection class is synchronized?

A) ArrayList
B) LinkedList
C) HashSet
D) Vector

16. What is a constructor in Java?

A) A special type of method used to initialize objects
B) A method used to finalize objects
C) A method that returns the current object
D) A method used to call a parent class

17. What is polymorphism in Java?

A) The ability to take many forms
B) The ability to compile with errors
C) The ability to create multiple classes
D) The ability to create abstract methods

18. Which of the following is a reserved word in Java?

A) goto
B) constant
C) pointer
D) reference

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Ms./Mr. **TEJASWNI . D**

USN **1ST19EC031** of Semester **I** bearing

completed the 30-hours Value-Added course on

DATA ANALYST has successfully

from 19-08-2019 to 31-08-2019.

Akshay V Agastya
Vice President – Learning and Development
Genesis Training, Bengaluru

PRINCIPAL
Sambhram Institute of Technology
M.S. Palya, Bangalore - 560 097

Dr. H.G. Chandrakanth
Principal
Sambhram Institute Of Technology

Genesis Training

Ph :
23643618
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CERTIFICATE OF COMPLETION

This is to Certify that

Ms./Mr. **NEERAJ . R. IYER**

USN **1ST19CS081** of Semester **I** bearing

completed the 30-hours Value-Added course on

INTRODUCTION TO JAVA has successfully

from 19-08-2019 to 31-08-2019.

Akshay V Agnihya
**Vice President – Learning and
Development**
Genesis Training, Bengaluru

PRINCIPAL
Sambhram Institute of Technology
M.S. Palya, Bangalore - 560 097

Dr. H.G. Chandrakanth
Principal
Sambhram Institute Of
Technology

Ph :
23643618
23640612
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2019-2020 - INTRODUCTION TO JAVA Solutions

1: D) All of the above

2: C) Low-level programming

3: B) James Gosling

4: B) Java Virtual Machine

5: C) class

6: B) false

7: C) 32 bits

8: C) 8

9: A) run()

10: B) Boolean

11: C) System.out.println("Hello, World!");

12: B) InterruptedException

13: B) The variable's value cannot be changed

14: A) A way to create a new class from an existing class

15: D) Vector

16: A) A special type of method used to initialize objects

17: A) The ability to take many forms

18: A) goto

19: A) main()

20: B) ==

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INSTITUTE OF TECHNOLOGY

Department of Basic Science

Sl.no	Academic Year	Course Name
1	2020-21	Data Structure and Algorithm
		Introduction to Web Development

SLNO.	NAME OF THE STUDENT	USN	TOPICS	COMPANY NAME	Duration(hrs)	Signature
1	AKASH.N	1ST20EC001	Introduction to Web development	Genesis	30 hours	Akash
2	MANOJ K	1ST20EC002	Introduction to Web development	Genesis	30 hours	Manoj
3	MD.BURHANUDDIN	1ST20EC003	Introduction to Web development	Genesis	30 hours	Burhanuddin
4	MOULYA SHREE U N	1ST20EC004	Introduction to Web development	Genesis	30 hours	Moulya SHREE
5	RAHUL S	1ST20EC005	Introduction to Web development	Genesis	30 hours	Rahul.S
6	SACHIN S	1ST20EC006	Introduction to Web development	Genesis	30 hours	Sachin S
7	SHASHANK GOWDA N H	1ST20EC007	Introduction to Web development	Genesis	30 hours	Shashauk
8	SUHAS M	1ST20EC008	Introduction to Web development	Genesis	30 hours	Suhas
9	TEJAS D	1ST20EC009	Introduction to Web development	Genesis	30 hours	Tejas.D
10	THRISHA	1ST20EC010	Introduction to Web development	Genesis	30 hours	Thrisha
11	DEEKSHITHA H	1ST20CV001	Introduction to Web development	Genesis	30 hours	Deeksh
12	DHANUSH	1ST20CV002	Introduction to Web development	Genesis	30 hours	Dhanush
13	AHMED FAKHRELDIN OSMAN	1ST20CV004	Introduction to Web development	Genesis	30 hours	Ahmeefakka
14	FIBIN	1ST20ME001	Introduction to Web development	Genesis	30 hours	fabin
15	POORNACHANDRA	1ST20ME002	Introduction to Web development	Genesis	30 hours	Poornachandra
16	SHILAPRAKASH	1ST20ME003	Introduction to Web development	Genesis	30 hours	Shilpa
17	VINUTHA	1ST20ME004	Introduction to Web development	Genesis	30 hours	Vinutha
21	SRI NITHYA A	1ST20CS001	Data Structure and Algorithm	Genesis	30 hours	Srinithy
22	ABDUL WAHAB AHMED MOHA	1ST20CS002	Data Structure and Algorithm	Genesis	30 hours	Abrudahadva
23	ABHIJITH.T.KULKARNI	1ST20CS003	Data Structure and Algorithm	Genesis	30 hours	Abhijitha
24	ABHISHEK DARSAN H	1ST20CS004	Data Structure and Algorithm	Genesis	30 hours	Abhishek
25	ABHISHEK RAJ	1ST20CS005	Data Structure and Algorithm	Genesis	30 hours	Abhishek
26	ADITHYA R	1ST20CS006	Data Structure and Algorithm	Genesis	30 hours	Adithya

Head , the Department of Chemistry
Sambhram Institute of Technology
Bangalore-560 097.

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No.	Name	ID	Course			Hours	Signature
126	SHIJANI SINGH T J	1ST20CS111	Data Structure and Algorithm	Genesis	Genesis	30 hours	
127	SHIJASHARNAPPA	1ST20CS112	Data Structure and Algorithm	Genesis	Genesis	30 hours	
128	SHREEDEVI.M.GUNDLURU	1ST20CS113	Data Structure and Algorithm	Genesis	Genesis	30 hours	
129	SHREYAS P BIDARI	1ST20CS114	Data Structure and Algorithm	Genesis	Genesis	30 hours	
130	SHUBHANKAR KUMAR	1ST20CS115	Data Structure and Algorithm	Genesis	Genesis	30 hours	
131	SNEHA S BADIGER	1ST20CS116	Data Structure and Algorithm	Genesis	Genesis	30 hours	
132	SONI KUMARI	1ST20CS117	Data Structure and Algorithm	Genesis	Genesis	30 hours	
133	SOUNDARYA M	1ST20CS118	Data Structure and Algorithm	Genesis	Genesis	30 hours	
134	SOURAV SHAJESH	1ST20CS119	Data Structure and Algorithm	Genesis	Genesis	30 hours	
135	SOWMYA K	1ST20CS120	Data Structure and Algorithm	Genesis	Genesis	30 hours	
136	SREENIDHI D	1ST20CS121	Data Structure and Algorithm	Genesis	Genesis	30 hours	
137	SRIJAN M S AATHREYA	1ST20CS122	Data Structure and Algorithm	Genesis	Genesis	30 hours	
138	SUMAN PATRA	1ST20CS123	Data Structure and Algorithm	Genesis	Genesis	30 hours	
139	SURAJ ACHARYA	1ST20CS124	Data Structure and Algorithm	Genesis	Genesis	30 hours	
140	SURAJ KUMAR s/o sanoj	1ST20CS125	Data Structure and Algorithm	Genesis	Genesis	30 hours	
141	SURAJ KUMAR s/o kanhaiya	1ST20CS126	Data Structure and Algorithm	Genesis	Genesis	30 hours	
142	TAMANNA	1ST20CS127	Data Structure and Algorithm	Genesis	Genesis	30 hours	
143	TAYYABA A GIRINI	1ST20CS128	Data Structure and Algorithm	Genesis	Genesis	30 hours	
144	THANMAYEE SUDHARSHAN	1ST20CS129	Data Structure and Algorithm	Genesis	Genesis	30 hours	
145	UDIT SHARMA	1ST20CS130	Data Structure and Algorithm	Genesis	Genesis	30 hours	
146	UMME KULSUM	1ST20CS131	Data Structure and Algorithm	Genesis	Genesis	30 hours	
147	VANISHREE	1ST20CS132	Data Structure and Algorithm	Genesis	Genesis	30 hours	
148	VELPULA SAI AJTH REDDY	1ST20CS133	Data Structure and Algorithm	Genesis	Genesis	30 hours	
149	VENKATESH M	1ST20CS134	Data Structure and Algorithm	Genesis	Genesis	30 hours	
150	VIKAS MG	1ST20CS135	Data Structure and Algorithm	Genesis	Genesis	30 hours	
151	VISHAL SHARMA	1ST20CS136	Data Structure and Algorithm	Genesis	Genesis	30 hours	
152	VISHNU T A	1ST20CS137	Data Structure and Algorithm	Genesis	Genesis	30 hours	
153	VISHWAJEET KUMAR	1ST20CS138	Data Structure and Algorithm	Genesis	Genesis	30 hours	
154	VIJEK TANDLE	1ST20CS139	Data Structure and Algorithm	Genesis	Genesis	30 hours	
155	YAMUNA R	1ST20CS140	Data Structure and Algorithm	Genesis	Genesis	30 hours	
156	YATHIN KUMAR M	1ST20CS141	Data Structure and Algorithm	Genesis	Genesis	30 hours	
157	YESHWANTH K	1ST20CS142	Data Structure and Algorithm	Genesis	Genesis	30 hours	
158	ALIAKBAR P	1ST20IS001	Introduction to Web development	Genesis	Genesis	30 hours	

Academic year : 2020-21   **Duration : 30Hrs**

COURSE NAME : Introduction to Web Development:

Module 1: Introduction to Web Development (3 hours)

1.1 Overview of Web Development

- Definition and importance of web development

- Roles and responsibilities of a web developer

1.2 Web Development Technologies

- Introduction to front-end and back-end development

- Overview of web development languages (HTML, CSS, JavaScript)

1.3 Setting Up the Development Environment

- Installing a code editor (VS Code, Sublime Text)

- Introduction to version control with Git and GitHub

Module 2: HTML Basics (3 hours)

2.1 Introduction to HTML

- Structure of an HTML document

- Introduction to Bootstrap

- Using pre-built components and grid systems

Module 5: Introduction to JavaScript (3 hours)

5.1 JavaScript Basics

 - JavaScript syntax and data types

 - Variables, operators, and expressions

5.2 Control Flow Statements

 - Conditional statements (if, else if, switch)

 - Looping statements (for, while, do-while)

5.3 Functions and Scope

 - Defining and invoking functions

 - Understanding scope and closures

Module 6: JavaScript in the Browser (3 hours)

6.1 Document Object Model (DOM)

 - Understanding the DOM structure

 - Selecting and manipulating DOM elements

6.2 Event Handling

 - Adding event listeners

 - Handling user interactions (click, hover, input)

6.3 JavaScript Libraries

 - Introduction to jQuery

 - Using jQuery for DOM manipulation and event handling

- Integrating front-end and back-end components

- Deploying the web application to a server

9.3 Best Practices

- Writing clean and maintainable code

- Web security basics (input validation, secure authentication)

Module 10: Capstone Project and Future Learning (3 hours)

10.1 Capstone Project

- Defining and planning the capstone project

- Implementing and testing the project

10.2 Presenting the Project

- Creating a presentation for the project

- Demonstrating the functionality and features

10.3 Further Learning and Resources

- Advanced topics and frameworks (React, Angular, Vue.js)

- Recommended resources for continuous learning (books, online courses, communities)

This curriculum is designed to provide a solid foundation in web development, with a mix of theoretical knowledge and practical skills that can be applied in real-world scenarios.

GENESIS TRAINING

MULTIPLE CHOICE QUESTIONS

COURSE NAME: **Introduction to Web Development**

Academic Year : **2020-21**   SEM : **I/II**   USN : IST20ME002

1. What does HTML stand for?

A) Hyper Text Markup Language
B) Home Tool Markup Language
C) Hyperlinks and Text Markup Language
D) Hyper Tool Multi Language

2. Which of the following is used to style web pages?

A) HTML
B) CSS
C) PHP
D) SQL

3. What does CSS stand for?

A) Computer Style Sheets
B) Cascading Style Sheets
C) Creative Style Sheets
D) Colorful Style Sheets

4. Which tag is used to create a hyperlink in HTML?

A) <link>
B) <a>
C) <href>
D) <url>

5. What is the correct HTML tag for inserting an image?

A) <img>
B) <picture>
C) <image>
D) <src>

13. Which of the following is used to fetch data from a server without refreshing the web page?

A) HTML
B) CSS
C) Ajax
D) SQL

14. What is the main purpose of a web server?

A) To store databases
B) To host websites
C) To create web content
D) To style web pages

15. Which of the following is not a programming language commonly used in web development?

A) HTML
B) JavaScript
C) Python
D) Java

16. What is the purpose of the <head> tag in HTML?

A) To display the main content
B) To contain meta-information about the document
C) To define the body of the document
D) To create a footer for the document

17. Which attribute is used in HTML to specify the URL of a linked resource?

A) src
B) href
C) link
D) url

18. What is the correct syntax for referring to an external script called "script.js" in HTML?

A) <script href="script.js"></script>
B) <script link="script.js"></script>
C) <script src="script.js"></script>
D) <script url="script.js"></script>

19. Which of the following is a backend web development framework?

A) Bootstrap
B) Angular

SAMBHRAM INSTITUTE OF TECHNOLOGY
IN ASSOCIATION
GENESIS TRAINING

SAMBHRAM
INSTITUTE OF TECHNOLOGY

Academic year : 2020-21

Duration : 30 Hrs

COURSE NAME : Introduction to Data Structures and Algorithms:

Module 1: Introduction to Data Structures and Algorithms (3 hours)

1.1 Overview of Data Structures and Algorithms

- Definitions and importance

- Applications in computer science and software engineering

1.2 Complexity Analysis

- Big O notation, time and space complexity

- Best, worst, and average case analysis

1.3 Algorithm Design Techniques

- Overview of common strategies (divide and conquer, greedy, dynamic programming)

Module 2: Arrays and Linked Lists (3 hours)

2.1 Arrays

- Definition, operations (insertion, deletion, searching, traversing)

- Multidimensional arrays

Module 5: Heaps and Priority Queues (3 hours)

5.1 Heaps

- Definition and properties

- Types of heaps (min-heap, max-heap)

5.2 Heap Operations

- Insertion, deletion, heapify

- Building a heap from an array

5.3 Priority Queues

- Definition and implementation using heaps

- Applications and use cases

Module 6: Hashing (3 hours)

6.1 Hash Tables

- Definition and structure

- Hash functions and properties

6.2 Collision Resolution Techniques

- Chaining

- Open addressing (linear probing, quadratic probing, double hashing)

6.3 Applications of Hashing

- Real-world applications and use cases

Module 7: Graphs (3 hours)

7.1 Basic Graph Concepts

- Terminology (vertex, edge, adjacency, degree)

- Types of graphs (directed, undirected, weighted, unweighted)

- Use cases and optimization techniques

Module 10: Advanced Topics and Problem Solving (3 hours)

10.1 Dynamic Programming

- Basic concepts and principles

- Common problems and solutions (Fibonacci, knapsack problem)

10.2 Greedy Algorithms

- Basic concepts and principles

- Common problems and solutions (activity selection, Huffman coding)

10.3 Capstone Project and Review

- Implementing a comprehensive project

- Review and problem-solving session

This curriculum is designed to provide a solid foundation in data structures and algorithms, with a mix of theoretical knowledge and practical skills that can be applied in real-world scenarios.

GENESIS TRAINING

MULTIPLE CHOICE QUESTIONS

COURSE NAME : **Introduction to Data Structure and Algorithm**

Academic Year : **2020-21**   SEM : I/II   USN : 1ST20CS006

1. What is a data structure?

A) A collection of data values
B) A way to organize, manage, and store data
C) A function that processes data
D) A type of software application

2. Which of the following is an example of a linear data structure?

A) Tree
B) Graph
C) Queue
D) Hash Table

3. What is the time complexity of searching an element in a balanced binary search tree (BST)?

A) $O(n)$
B) $O(\log n)$
C) $O(n \log n)$
D) $O(1)$

4. Which data structure uses LIFO (Last In, First Out) principle?

A) Queue
B) Stack
C) Tree
D) Graph

5. What is the primary purpose of an algorithm?

A) To compile code
B) To solve a specific problem
C) To store data
D) To design a user interface

13. What does the term "recursion" mean in the context of algorithms?

A) An algorithm that does not terminate
B) An algorithm that calls itself
C) An algorithm that runs in a loop
D) An algorithm with a linear time complexity

14. Which of the following data structures is the best for implementing a priority queue?

A) Array
B) Linked List
C) Heap
D) Binary Search Tree

15. What is the best-case time complexity of Bubble Sort?

A) $O(n)$
B) $O(n \log n)$
C) $O(n^2)$
D) $O(\log n)$

16. Which traversal method is used to print the nodes of a binary tree in the order they appear from top to bottom and left to right?

A) Pre-order
B) In-order
C) Post-order
D) Level-order

17. In which case is the use of a hash table most appropriate?

A) When data is sorted
B) When data is frequently accessed by key
C) When data needs to be stored sequentially
D) When data needs to be processed recursively

18. What is the space complexity of the Merge Sort algorithm?

A) $O(1)$
B) $O(\log n)$
C) $O(n)$
D) $O(n \log n)$

19. Which of the following operations can be performed efficiently with a doubly linked list compared to a singly linked list?

A) Traversing the list
B) Inserting an element at the beginning

C) Deleting an element from the end
D) Inserting an element in the middle

20. What does the "Big O" notation describe in the context of algorithms?

A) The correctness of an algorithm
B) The programming language used to implement the algorithm
C) The scalability and performance of an algorithm
D) The number of lines of code in the algorithm

Student's signature

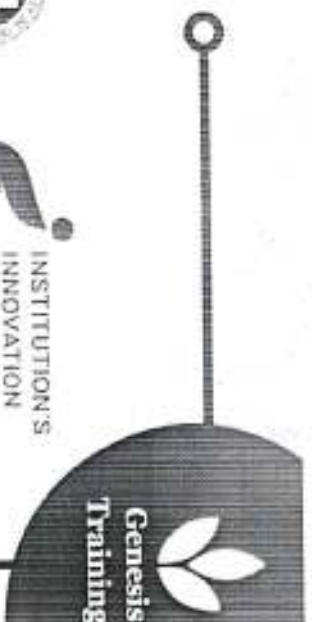$\frac{16}{20}$

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CERTIFICATE OF COMPLETION

This is to Certify that

Mr./Mr. **ADITHYA . R**

USN **1ST20CS006** of Semester **I** bearing

completed the 30-hours Value-Added course on

DATA STRUCTURE AND ALGORITHM has successfully

from 03-01-2020 to 13-01-2020.

Akshay V Agasthya
Vice President - Learning and
Development
Genesis Training, Bengaluru

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Sambhram Institute of Technology
M.S, Palya, Bangalore - 560 097

Dr. H.G. Chandrakanth
Principal
Sambhram Institute Of
Technology

Ph :
23643618
23640612
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This is to Certify that

Ms./Mr. **POORNACHANDRA**

USN **1ST20ME002** of Semester **I** bearing

completed the 30-hours Value-Added course on

INTRODUTION TO WEB DEVELOPMENT

from 03-01-2020 to 13-01-2020. has successfully

Akshay V Agasthya
Vice President - Learning and Development
Genesis Training, Bengaluru

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Sambhram Institute of Technology
M.S. Palya, Bengaluru - 560 097

Dr. H.G. Chandrakanth
Principal
Sambhram Institute Of Technology

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2019-2020 : : Introduction to Data Structure and Algorithm Solutions

1: B) A way to organize, manage, and store data

2: C) Queue

3: B) O(log n)

4: B) Stack

5 B) To solve a specific problem

6: D) Tree

7: C) O(n^2)

8: B) Queue

9: B) Deque

10: C) Acyclic graph

11: C) O(1)

12: C) Merge Sort

13: B) An algorithm that calls itself

14: C) Heap

15: A) O(n)

16 : D) Level-order

17: B) When data is frequently accessed by key

18: C) O(n)

19: C) Deleting an element from the end

20: C) The scalability and performance of an algorithm

2020-2021 : Introduction to Web Development Solutions

1: A) Hyper Text Markup Language

2: B) CSS

3: B) Cascading Style Sheets

4: B) `<a>`

5: A) `<img>`

6: A) HyperText Transfer Protocol

7: D) `<blink>`

8: C) Adds interactivity to web pages

9: B) React

10: B) ID selector

11: A) `<table>`

12: A) Document Object Model

13: C) Ajax

14: B) To host websites

15: A) HTML

16: B) To contain meta-information about the document

17: B) href

18: C) `<script src="script.js"></script>`

19: C) Node.js

20: B) color

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Department of Basic Science

Sl.no	Academic Year	Course Name
1	2021-22	JavaScript for Beginners
		Digital Marketing

HG

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SAMBHRAM INSTITUTE OF TECHNOLOGY

Department OF BASIC SCIENCE : Consolidated Details of Add on Course

2021-22

SLNO.	NAME OF THE STUDENT	USN	TOPICS	COMPANY NAME	Duration(hrs)	Signature
1	Abhishek P	1ST21CS001	Digital marketing	Genesis	30 hours	
2	Abhishek Bagade	1ST21CS002	Digital marketing	Genesis	30 hours	
3	Aishwarya S N	1ST21CS003	Digital marketing	Genesis	30 hours	
4	Ajith B M	1ST21CS004	Digital marketing	Genesis	30 hours	
5	Akash M Hiremath	1ST21CS005	Digital marketing	Genesis	30 hours	
6	Akash S. D	1ST21CS006	Digital marketing	Genesis	30 hours	
7	Akash S. D	1ST21CS007	Digital marketing	Genesis	30 hours	
8	Akshya M	1ST21CS008	Digital marketing	Genesis	30 hours	
9	Alwin Anpu	1ST21CS009	Digital marketing	Genesis	30 hours	
10	Aman Kumar	1ST21CS010	Digital marketing	Genesis	30 hours	
11	Aman Kumar Singh	1ST21CS011	Digital marketing	Genesis	30 hours	
12	Aman. R	1ST21CS012	Digital marketing	Genesis	30 hours	
13	Amar.Srivastav	1ST21CS013	Digital marketing	Genesis	30 hours	
14	Amaresh Kumar	1ST21CS014	Digital marketing	Genesis	30 hours	
15	Amit Kumar	1ST21CS015	Digital marketing	Genesis	30 hours	
16	Amitha Raj. B	1ST21CS016	Digital marketing	Genesis	30 hours	
17	Anil. D Bhat	1ST21CS017	Digital marketing	Genesis	30 hours	
18	Ankit Kumar	1ST21CS018	Digital marketing	Genesis	30 hours	
19	Anikitha. H.V	1ST21CS019	Digital marketing	Genesis	30 hours	
20	Ankush. K	1ST21CS020	Digital marketing	Genesis	30 hours	
21	Anmol Kumar	1ST21CS021	Digital marketing	Genesis	30 hours	
22	Anshu Banu	1ST21CS022	Digital marketing	Genesis	30 hours	

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Bangalore

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Sl. No.	Name	USN	Course	Organization	Duration	Signature
54	Chetan R	1ST21CS054	Digital marketing	Genesis	30 hours	
55	Chethan R	1ST21CS055	Digital marketing	Genesis	30 hours	
56	Darshan P	1ST21CS056	Digital marketing	Genesis	30 hours	
57	Darshan. R	1ST21CS057	Digital marketing	Genesis	30 hours	
58	Deeksha, M	1ST21CS058	Digital marketing	Genesis	30 hours	
59	Deepasha Shukla	1ST21CS059	Digital marketing	Genesis	30 hours	
60	Dileep Kumar K R	1ST21CS060	Digital marketing	Genesis	30 hours	
61	Adhikeshava Reddy D	1ST21CS061	Digital marketing	Genesis	30 hours	
62	Durgaprasad A R	1ST21CS062	Digital marketing	Genesis	30 hours	
63	Drupat Singh Balayar	1ST21CS063	Digital marketing	Genesis	30 hours	
64	Madhusudan E N	1ST21CS064	Digital marketing	Genesis	30 hours	
65	Fahad P V	1ST21CS065	Digital marketing	Genesis	30 hours	
66	Gaanesh	1ST21CS066	Digital marketing	Genesis	30 hours	
67	Gokul. R N	1ST21CS067	Digital marketing	Genesis	30 hours	
68	Goutham. B N	1ST21CS068	Digital marketing	Genesis	30 hours	
69	Gowthami. S	1ST21CS069	Digital marketing	Genesis	30 hours	
70	Gyan Prakash	1ST21CS070	Digital marketing	Genesis	30 hours	
71	Hareesh Dixit	1ST21CS071	Digital marketing	Genesis	30 hours	
72	Harichavan L R	1ST21CS072	Digital marketing	Genesis	30 hours	
73	Harini L	1ST21CS073	Digital marketing	Genesis	30 hours	
74	Harish A M	1ST21CS074	Digital marketing	Genesis	30 hours	
75	Harish. G.R	1ST21CS075	Digital marketing	Genesis	30 hours	
76	Harish Kumar T	1ST21CS076	Digital marketing	Genesis	30 hours	
77	Harshitha H	1ST21CS077	Digital marketing	Genesis	30 hours	
78	Harshitha K	1ST21CS078	Digital marketing	Genesis	30 hours	
79	Harshitha R	1ST21CS079	Digital marketing	Genesis	30 hours	
80	Harshitha V	1ST21CS080	Digital marketing	Genesis	30 hours	
81	Harshitha V	1ST21CS081	Digital marketing	Genesis	30 hours	
82	Hemanth. H	1ST21CS082	Digital marketing	Genesis	30 hours	
83	Himankur Maryur	1ST21CS083	Digital marketing	Genesis	30 hours	
84	Impana. K	1ST21CS084	Digital marketing	Genesis	30 hours	
85	Jaiprakash Rajak	1ST21CS085	Digital marketing	Genesis	30 hours	
86	Jeevan. B	1ST21CS086	Digital marketing	Genesis	30 hours	

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No.	Name	Register Number	Course	Provider	Duration	Signature
120	Md Samiudhin	1ST21CS120	Digital marketing	Genesis	30 hours	
121	Mohan G P	1ST21CS121	Digital marketing	Genesis	30 hours	
122	Mohan Kumar S	1ST21CS122	Digital marketing	Genesis	30 hours	
123	Mohith Raj K S	1ST21CS123	Digital marketing	Genesis	30 hours	
124	Monisha. A	1ST21CS124	Digital marketing	Genesis	30 hours	
125	Monisha S R	1ST21CS125	Digital marketing	Genesis	30 hours	
126	Mukul Singh M S	1ST21CS126	Digital marketing	Genesis	30 hours	
127	Muzaffar Ahamad K	1ST21CS127	Digital marketing	Genesis	30 hours	
128	Nagesh Bavikatti	1ST21CS128	Digital marketing	Genesis	30 hours	
129	Nandini. S	1ST21CS129	Digital marketing	Genesis	30 hours	
130	Naresh. V	1ST21CS130	Digital marketing	Genesis	30 hours	
131	Nawaz Hussain	1ST21CS131	Digital marketing	Genesis	30 hours	
132	Nayana Shree N	1ST21CS132	Digital marketing	Genesis	30 hours	
133	Neetha. K.C	1ST21CS133	Digital marketing	Genesis	30 hours	
134	Neha Kumari	1ST21CS134	Digital marketing	Genesis	30 hours	
135	Niketan kumar Singh	1ST21CS135	Digital marketing	Genesis	30 hours	
136	Nikitha Kumari	1ST21CS136	Digital marketing	Genesis	30 hours	
137	Nishiprantik Mohantha	1ST21CS137	Digital marketing	Genesis	30 hours	
138	Nithya. S	1ST21CS138	Digital marketing	Genesis	30 hours	
139	Ananya. S.P	1ST21CS139	Digital marketing	Genesis	30 hours	
140	Pavan Kumar G S	1ST21CS140	Digital marketing	Genesis	30 hours	
141	Pavan Kumar. M	1ST21CS141	Digital marketing	Genesis	30 hours	
142	Pavan Kumar Reddy	1ST21CS142	Digital marketing	Genesis	30 hours	
143	Phavani. D.A	1ST21CS143	Digital marketing	Genesis	30 hours	
144	Lahari. P	1ST21CS144	Digital marketing	Genesis	30 hours	
145	Pooja C R	1ST21CS145	Digital marketing	Genesis	30 hours	
146	Pooja Kumari	1ST21CS146	Digital marketing	Genesis	30 hours	
147	Pooja M	1ST21CS147	Digital marketing	Genesis	30 hours	
148	Pooja. V	1ST21CS148	Digital marketing	Genesis	30 hours	
149	Prajith S. Malla	1ST21CS149	Digital marketing	Genesis	30 hours	
150	Prajwal. H.R	1ST21CS150	Digital marketing	Genesis	30 hours	
151	Prajwal Y J	1ST21CS151	Digital marketing	Genesis	30 hours	
152	Prajwal Gouda R	1ST21CS152	Digital marketing	Genesis	30 hours	

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186	Shalini. K.G	1ST21CS186	Digital marketing	Genesis	30 hours
187	Shalu Singh	1ST21CS187	Digital marketing	Genesis	30 hours
188	Sharath Kumar. S.R	1ST21CS188	Digital marketing	Genesis	30 hours
189	Shashank. D.S	1ST21CS189	Digital marketing	Genesis	30 hours
190	Shashank R	1ST21CS190	Digital marketing	Genesis	30 hours
191	Shashank S V	1ST21CS191	Digital marketing	Genesis	30 hours
192	Shashishekara K	1ST21CS192	Digital marketing	Genesis	30 hours
193	Shekhar. J	1ST21CS193	Digital marketing	Genesis	30 hours
194	Shilpa N S	1ST21CS194	Digital marketing	Genesis	30 hours
195	Shivam singh	1ST21CS195	Digital marketing	Genesis	30 hours
196	Shiva Shankar M G	1ST21CS196	Digital marketing	Genesis	30 hours
197	Shobhitha. G.A	1ST21CS197	Digital marketing	Genesis	30 hours
198	Shreyas. G.J	1ST21CS198	Digital marketing	Genesis	30 hours
199	Shreyas. R	1ST21CS199	Digital marketing	Genesis	30 hours
200	Shrusti C Shekar	1ST21CS200	Digital marketing	Genesis	30 hours
201	Swetha Puthi	1ST21CS201	Digital marketing	Genesis	30 hours
202	Sinchana. B.S	1ST21CS202	Digital marketing	Genesis	30 hours
203	Sindhu Lakshmi A	1ST21CS203	Digital marketing	Genesis	30 hours
204	Sneha S	1ST21CS204	Digital marketing	Genesis	30 hours
205	Soniya Kumari B	1ST21CS205	Digital marketing	Genesis	30 hours
206	Sonu. N.M	1ST21CS206	Digital marketing	Genesis	30 hours
207	Srujan. C.D	1ST21CS207	Digital marketing	Genesis	30 hours
208	Suchitra C	1ST21CS208	Digital marketing	Genesis	30 hours
209	Suhag S Shetty	1ST21CS209	Digital marketing	Genesis	30 hours
210	Sumanth. P.S	1ST21CS210	Digital marketing	Genesis	30 hours
211	Sumayya Fatima	1ST21CS211	Digital marketing	Genesis	30 hours
212	Sundihi Sunil	1ST21CS212	Digital marketing	Genesis	30 hours
213	Surabhi	1ST21CS213	Digital marketing	Genesis	30 hours
214	Suraj K	1ST21CS214	Digital marketing	Genesis	30 hours
215	Suraj Shukla	1ST21CS215	Digital marketing	Genesis	30 hours
216	Swarnendu samantha	1ST21CS216	Digital marketing	Genesis	30 hours
217	Syed Rahil Ahmed	1ST21CS217	Digital marketing	Genesis	30 hours
218	Tejas. G	1ST21CS218	Digital marketing	Genesis	30 hours

Sl No	Name	USN	Course	Duration	Signature
252	Aaisha Suman	1ST21IS012	Java Script for beginners	Genesis	20 hours	
253	Abhijeet Kumar Singh	1ST21IS003	Java Script for beginners	Genesis	20 hours	
254	Aishwarya M Y	1ST21IS004	Java Script for beginners	Genesis	20 hours	
255	Ajay Kumar Mahara	1ST21IS005	Java Script for beginners	Genesis	20 hours	
256	Akshatha A	1ST21IS006	Java Script for beginners	Genesis	20 hours	
257	Amulya	1ST21IS007	Java Script for beginners	Genesis	20 hours	
258	Anvitha S M	1ST21IS008	Java Script for beginners	Genesis	20 hours	
259	Ashish Kumar Das	1ST21IS009	Java Script for beginners	Genesis	20 hours	
260	Bhavya K	1ST21IS010	Java Script for beginners	Genesis	20 hours	
261	Bhumika D	1ST21IS011	Java Script for beginners	Genesis	20 hours	
262	Bhuvana Gowda N U	1ST21IS012	Java Script for beginners	Genesis	20 hours	
263	Bishakha Debnath	1ST21IS013	Java Script for beginners	Genesis	20 hours	
264	Chandana K	1ST21IS014	Java Script for beginners	Genesis	20 hours	
265	Chandana S	1ST21IS015	Java Script for beginners	Genesis	20 hours	
266	Chandu K	1ST21IS016	Java Script for beginners	Genesis	20 hours	
267	Darshan G S	1ST21IS017	Java Script for beginners	Genesis	20 hours	
268	Deekshith S	1ST21IS018	Java Script for beginners	Genesis	20 hours	
269	Dhanushree B	1ST21IS019	Java Script for beginners	Genesis	20 hours	
270	Dharyashree L	1ST21IS020	Java Script for beginners	Genesis	20 hours	
271	Gowrav R	1ST21IS021	Java Script for beginners	Genesis	20 hours	
272	Hanumantha Gowda V	1ST21IS022	Java Script for beginners	Genesis	20 hours	
273	Harshitha B	1ST21IS023	Java Script for beginners	Genesis	20 hours	
274	Hemanth Raju	1ST21IS024	Java Script for beginners	Genesis	20 hours	
275	Inpana K B	1ST21IS025	Java Script for beginners	Genesis	20 hours	
276	Ithihas M S	1ST21IS026	Java Script for beginners	Genesis	20 hours	
277	Jagriti Kumari	1ST21IS027	Java Script for beginners	Genesis	20 hours	
278	Jayappa Jumanal	1ST21IS028	Java Script for beginners	Genesis	20 hours	
279	Kanika	1ST21IS029	Java Script for beginners	Genesis	20 hours	
280	KasarAM Karthik	1ST21IS030	Java Script for beginners	Genesis	20 hours	
281	Keerthana R	1ST21IS031	Java Script for beginners	Genesis	20 hours	
282	Kiran S	1ST21IS032	Java Script for beginners	Genesis	20 hours	
283	Kushal L Gowda	1ST21IS033	Java Script for beginners	Genesis	20 hours	
284	Lalith Rao	1ST21IS034	Java Script for beginners	Genesis	20 hours	

No.	Name	Code	Course	Platform	Duration
318	Ankith Anurag	1ST21EC005	Java Script for beginners	Genesis	20 hours
319	Ankit kumar sinha	1ST21EC006	Java Script for beginners	Genesis	20 hours
320	Anuhya. K	1ST21EC007	Java Script for beginners	Genesis	20 hours
321	Anusha S	1ST21EC008	Java Script for beginners	Genesis	20 hours
322	B.Harsha Vardhan	1ST21EC009	Java Script for beginners	Genesis	20 hours
323	Bhanuprakash K S	1ST21EC011	Java Script for beginners	Genesis	20 hours
324	Bhavitha U	1ST21EC012	Java Script for beginners	Genesis	20 hours
325	Buchupallic Subhash Kumar Reddy	1ST21EC013	Java Script for beginners	Genesis	20 hours
326	Chandan k	1ST21EC014	Java Script for beginners	Genesis	20 hours
327	Chandana A J	1ST21EC015	Java Script for beginners	Genesis	20 hours
328	Chethan Kumar B	1ST21EC016	Java Script for beginners	Genesis	20 hours
329	Darshan G	1ST21EC017	Java Script for beginners	Genesis	20 hours
330	Deepak D R	1ST21EC018	Java Script for beginners	Genesis	20 hours
331	Deepika K N	1ST21EC019	Java Script for beginners	Genesis	20 hours
332	Divya N	1ST21EC020	Java Script for beginners	Genesis	20 hours
333	G Bhavana	1ST21EC021	Java Script for beginners	Genesis	20 hours
334	G V Spoorthi	1ST21EC022	Java Script for beginners	Genesis	20 hours
335	Ganashree H N	1ST21EC023	Java Script for beginners	Genesis	20 hours
336	Girish V	1ST21EC024	Java Script for beginners	Genesis	20 hours
337	Goura Chandrashekahar moodoor	1ST21EC025	Java Script for beginners	Genesis	20 hours
338	Harshitha B B	1ST21EC026	Java Script for beginners	Genesis	20 hours
339	Hemanth Reddy N	1ST21EC027	Java Script for beginners	Genesis	20 hours
340	Hrishikesh A Phatak	1ST21EC028	Java Script for beginners	Genesis	20 hours
341	J Prem Raj	1ST21EC029	Java Script for beginners	Genesis	20 hours
342	Jayanth B S	1ST21EC030	Java Script for beginners	Genesis	20 hours
343	Juvena Yeasmin	1ST21EC031	Java Script for beginners	Genesis	20 hours
344	Karthik R	1ST21EC032	Java Script for beginners	Genesis	20 hours
345	Kavya Ganapati Naik	1ST21EC034	Java Script for beginners	Genesis	20 hours
346	Kavya S	1ST21EC035	Java Script for beginners	Genesis	20 hours
347	Keeruthika Y	1ST21EC036	Java Script for beginners	Genesis	20 hours
348	Komala L	1ST21EC037	Java Script for beginners	Genesis	20 hours
349	Koushalya	1ST21EC038	Java Script for beginners	Genesis	20 hours
350	Lakshmi N	1ST21EC039	Java Script for beginners	Genesis	20 hours

384	Suhas Reddy S	1ST21EC073	Java Script for beginners	Genesis	20 hours
385	Sumanth J	1ST21EC074	Java Script for beginners	Genesis	20 hours
386	Udaya Kumar K S	1ST21EC075	Java Script for beginners	Genesis	20 hours
387	V Karthik raju	1ST21EC076	Java Script for beginners	Genesis	20 hours
388	Varshitha R K	1ST21EC077	Java Script for beginners	Genesis	20 hours
389	Vidyadhar Veereshwar Hiremath	1ST21EC078	Java Script for beginners	Genesis	20 hours
390	Vignesh D	1ST21EC079	Java Script for beginners	Genesis	20 hours
391	Vikas Y	1ST21EC080	Java Script for beginners	Genesis	20 hours
392	Vilas Raju Pawar	1ST21EC081	Java Script for beginners	Genesis	20 hours
393	CHARAN D K	1ST21ME001	Digital marketing	Genesis	30 hours
394	SHARATH J	1ST21ME002	Digital marketing	Genesis	30 hours
395	Ajaharuddin Raeem	1ST21CV001	Digital marketing	Genesis	30 hours
396	Amegha S Kumar	1ST21CV002	Digital marketing	Genesis	30 hours
397	Ayush Chaudhary	1ST21CV004	Digital marketing	Genesis	30 hours
398	Daiaphi Lamare	1ST21CV005	Digital marketing	Genesis	30 hours
399	Devaraj G	1ST21CV006	Digital marketing	Genesis	30 hours
400	Devaraju B	1ST21CV007	Digital marketing	Genesis	30 hours
401	Rakesh Chavan	1ST21CV008	Digital marketing	Genesis	30 hours
402	Thribuvan Bind S D	1ST21CV009	Digital marketing	Genesis	30 hours

Head , the Department of Chemistry
Sambhram Institute of Technology
Bangalore-560 097.

HOD

PRINCIPAL
Sambhram Institute of Technology
M.S. Palva, Bangalore - 560 097

Academic year : 2021-22   **Duration : 30Hrs**

COURSE NAME : Introduction to Java Script for Beginners:

Module 1: Introduction to Java (3 hours)

1.1 History and Features of Java

- Overview of Java's history and evolution

- Key features and benefits of using Java

1.2 Setting Up the Development Environment

- Installing JDK and an IDE (Eclipse, IntelliJ IDEA, NetBeans)

- Writing and running a simple Java program

1.3 Understanding the Java Development Kit (JDK) and Java Runtime Environment (JRE)

- Differences between JDK, JRE, and JVM

Module 2: Basic Syntax and Structure (3 hours)

2.1 Basic Java Syntax

- Java program structure

4.3 Encapsulation

- Access modifiers
- Getters and setters

Module 5: Exception Handling (3 hours)

5.1 Introduction to Exceptions

- Types of exceptions (checked and unchecked)
- The try-catch block

5.2 Throwing and Catching Exceptions

- The throw and throws keyword
- Creating custom exceptions

5.3 Finally Block

- Importance of the finally block
- Use cases of the finally block

Module 6: Java Collections Framework (3 hours)

6.1 Introduction to Collections

- Overview of the Java Collections Framework
- List, Set, and Map interfaces

6.2 Working with Lists

- Array List and LinkedList
- Common list operations

6.3 Working with Sets and Maps

- HashSet and TreeSet
- HashMap and TreeMap

- Importance of synchronization

- Synchronized methods and blocks

9.3 Concurrency Utilities

- Introduction to the java.util.concurrent package

- Using ExecutorService and Future

Module 10: Working with Java APIs and Libraries (3 hours)

10.1 Introduction to Java Standard Library

- Overview of commonly used Java APIs

- Utility classes (e.g., java.util.Date, java.util.Calendar)

10.2 Java Networking

- Basics of networking in Java

- Using sockets for network communication

10.3 Java GUI Programming

- Introduction to JavaFX and Swing

- Creating simple GUI applications

This curriculum is designed to provide a solid foundation in Java programming, with a mix of theoretical knowledge and practical skills that can be applied in real-world scenarios.

GENESIS TRAINING

MULTIPLE CHOICE QUESTIONS

COURSE NAME : **Java Script for Beginners**   Academic Year : **2021-22**

SEM : I/II

USN : 1SB21IS007

1. What is JavaScript primarily used for in web development?

A) Styling web pages
B) Structuring web content
C) Adding interactivity to web pages
D) Managing databases

2. Which of the following is the correct syntax to display a message in an alert box?

A) alertBox("Hello, World!");
B) alert("Hello, World!");
C) msg("Hello, World!");
D) message("Hello, World!");

3. How do you create a function in JavaScript?

A) function = myFunction()
B) function myFunction()
C) function:myFunction()
D) function ->myFunction()

4. How do you call a function named "myFunction" in JavaScript?

A) call myFunction()
B) call function myFunction()
C) myFunction()
D) myFunction;

5. Which of the following is the correct way to write an array in JavaScript?

A) varcolors = "red", "green", "blue";
B) varcolors = ["red", "green", "blue"];
C) varcolors = (1:"red", 2:"green", 3:"blue");
D) varcolors = {"red", "green", "blue"};

13. Which of the following is the correct way to declare a constant in JavaScript?

A) constant PI = 3.14;
B) var PI = 3.14;
C) const PI = 3.14;
D) PI = 3.14;

14. What is the correct syntax for referring to an external script called "script.js"?

A) `<script href="script.js"></script>`
B) `<script name="script.js"></script>`
C) `<script src="script.js"></script>`
D) `<script file="script.js"></script>`

15. What will the following code output? `console.log("5" + 2);`

A) 7
B) 52
C) "7"
D) "52"

16. How do you find the number with the highest value of x and y in JavaScript?

A) Math.ceil(x, y)
B) Math.max(x, y)
C) Math.high(x, y)
D) Math.largest(x, y)

17. Which of the following methods can be used to select an HTML element by its ID?

A) getElementById()
B) getElementByClass()
C) getElement()
D) querySelector()

18. What will the following code output? `console.log(5 == "5");`

A) true
B) false
C) null
D) undefined

19. What is the purpose of the push **method in JavaScript arrays?**

A) To add an element at the beginning of an array
B) To add an element at the end of an array
C) To remove the last element of an array
D) To remove the first element of an array

20. How do you write an "if" statement for executing some code if "i" is NOT equal to 5?

A) if (i != 5)
B) if (i <> 5)
C) if i <> 5
D) if i =! 5 then

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Student's signature

Academic year : 2021-22   Duration : 30Hrs

COURSE NAME : Digital Marketing

Module 1: Introduction to Digital Marketing (3 hours)

1.1 What is Digital Marketing?

- Definition and scope

- Importance in the modern business environment

1.2 Key Concepts and Terminology

- Overview of digital marketing channels

- Common terms and acronyms (SEO, PPC, CTR, etc.)

1.3 Digital Marketing vs. Traditional Marketing

- Key differences and advantages

- Integration strategies

Module 2: Website and Blog Creation (3 hours)

2.1 Website Fundamentals

- Choosing a domain and hosting

- Basics of web design and user experience (UX)

- Tools for tracking content performance

Module 5: Social Media Marketing (3 hours)

5.1 Social Media Platforms Overview

- Key platforms (Facebook, Twitter, Instagram, LinkedIn, etc.)

- Platform-specific strategies

5.2 Creating a Social Media Strategy

- Setting goals and objectives

- Content planning and scheduling

5.3 Social Media Analytics

- Tracking performance metrics

- Using insights to optimize strategy

Module 6: Pay-Per-Click Advertising (PPC) (3 hours)

6.1 Introduction to PPC

- Understanding PPC and its benefits

- Overview of popular PPC platforms (Google Ads, Bing Ads)

6.2 Creating Effective Ads

- Ad copy and design best practices

- Keyword selection and bidding strategies

6.3 Analyzing PPC Campaigns

- Key metrics (CPC, CTR, conversion rates)

- Tools for monitoring and optimizing campaigns

Module 7: Email Marketing (3 hours)

7.1 Basics of Email Marketing

- Building and segmenting an email list

- Tracking affiliate performance

- Tools for managing affiliate relationships

Module 10: Future Trends and Best Practices (3 hours)

10.1 Emerging Trends in Digital Marketing

- AI and machine learning in marketing

- Voice search and smart devices

10.2 Best Practices and Case Studies

- Ethical considerations and compliance

- Case studies of successful digital marketing campaigns

10.3 Final Project and Review

- Creating a comprehensive digital marketing plan

- Review and feedback session

This curriculum is designed to provide a solid foundation in digital marketing, with a mix of theoretical knowledge and practical skills that can be applied in real-world scenarios.

GENESIS TRAINING

MULTIPLE CHOICE QUESTIONS

COURSE NAME: **DIGITAL MARKETING**　　　Academic Year : **2021-22**

SEM : **I/II**　　　　　　　　　　　　　　USN : 1ST21CS018

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1. What does SEO stand for?

A) Search Engine Optimization
B) Social Engagement Optimization
C) Search Engine Operation
D) Social Engine Optimization

2. What is the primary goal of content marketing?

A) To create visually appealing websites
B) To create and distribute valuable content to attract and engage a target audience
C) To develop software applications
D) To conduct market research

3. Which platform is known for professional networking and B2B marketing?

A) Facebook
B) Instagram
C) LinkedIn
D) Snapchat

4. What does PPC stand for in digital marketing?

A) Pay Per Click
B) Pay Per Conversion
C) Pay Per Campaign
D) Pay Per Content

5. Which of the following is a key metric for email marketing?

A) Click-through rate (CTR)
B) Bounce rate
C) Page views
D) Impressions

12. What does CPC stand for in digital advertising?

A) Cost Per Click
B) Cost Per Conversion
C) Cost Per Content
D) Cost Per Campaign

13. Which of the following is a benefit of using video marketing?

A) Decreased audience engagement
B) Improved SEO and higher conversion rates
C) Lower brand awareness
D) Reduced content distribution

14. What does the term "organic traffic" refer to?

A) Traffic from paid advertisements
B) Traffic from social media
C) Traffic from search engine results that are not paid ads
D) Traffic from email campaigns

15. Which of the following tools is commonly used for keyword research in SEO?

A) Adobe Photoshop
B) Google Keyword Planner
C) Hootsuite
D) Mailchimp

16. What is "bounce rate" in web analytics?

A) The percentage of visitors who navigate away from the site after viewing only one page
B) The rate at which visitors complete a purchase
C) The rate at which new content is added to the site
D) The percentage of repeat visitors

17. What is retargeting in digital marketing?

A) Targeting a new audience
B) Showing ads to users who have previously visited your site
C) Creating new content for a campaign
D) Sending follow-up emails to customers

18. Which metric indicates the success of a social media campaign?

A) Number of followers
B) Number of shares, likes, and comments
C) Website load time
D) Number of employees

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CERTIFICATE OF COMPLETION

This is to Certify that

Ms./Mr. **AMULYA**

USN **1ST21IS007** of Semester **I** bearing

completed the 30-hours Value-Added course on

JAVA SCRIPT FOR BEGINERS has successfully

from 01-02-2021 to 12-02-2021.

Akshay V Agasthya
Vice President - Learning and
Development
Genesis Training, Bengaluru

PRINCIPAL
Sambhram Institute of Technology
M.S. Palya, Bangalore - 560 097

Dr. H.G. Chandrakanth
Principal
Sambhram Institute Of
Technology

Ph : 23643618
23640612

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INSTITUTE OF TECHNOLOGY

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Genesis Training

CERTIFICATE OF COMPLETION

This is to Certify that

Ms./Mr. __ANKIT KUMAR__

USN __1ST21CS018__ of Semester __I__ bearing

completed the 30-hours Value-Added course on **DIGITAL**

MARKETING

from __01-02-2021__ to __12-02-2021__.

Akshay V Agasthya
Vice President - Learning and
Development
Genesis Training, Bengaluru

PRINCIPAL
Sambhram Institute of Technology
M.S. Palya, Bangalore - 560 097

Dr. H.G. Chandrakanth
Principal
Sambhram Institute Of
Technology

Ph :
23643616
23640012

INSTITUTION'S
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2021-2022: Java Script for Beginners Solutions

1: C) Adding interactivity to web pages

2: B) alert("Hello, World!");

3: B) function myFunction()

4: C) myFunction()

5: B) varcolors = ["red", "green", "blue"];

6: C) // This is a comment

7: B) if (i == 5)

8: A) varcarName;

9: C) onclick

10: B) =

11: A) "number"

12: D) All of the above

13: C) const PI = 3.14;

14 C) <script src="script.js"></script>

15: D) "52"

16: B) Math.max(x, y)

17: A) getElementById()

18: A) true

19: B) To add an element at the end of an array

20: A) if (i != 5)

2021-2022 : DIGITAL MARKETING Solutions

1: A) Search Engine Optimization

2: B) To create and distribute valuable content to attract and engage a target audience

3: C) LinkedIn

4: A) Pay Per Click

5: A) Click-through rate (CTR)

6: B) To track and report website traffic

7: B) A completed goal, such as a purchase or sign-up

8: C) Instagram

9: D) "best men's running shoes for flat feet"

10: C) Influencer marketing

11: C) Direct interaction with the target audience

12: A) Cost Per Click

13 B) Improved SEO and higher conversion rates

14: C) Traffic from search engine results that are not paid ads

15: B) Google Keyword Planner

16: A) The percentage of visitors who navigate away from the site after viewing only one page

17: B) Showing ads to users who have previously visited your site

18: B) Number of shares, likes, and comments

19: A) Return on Investment

20: D) "best men's running shoes for flat feet"