ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

(COURSE CODE: 325)

State Institute of Vocational Education

O/o the Commissioner of Intermediate Education,
Telangana State, Hyderabad

&

Board of Intermediate Education

Telangana State, Hyderabad

List of Participants	
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2.	**Dr. P. Kalpana** Associate Professor, Department of CSE, Vasavi College of Engineering, Hyderabad
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ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
FIRST YEAR
QUESTION BANK
Paper I: MS-Office Lab(/21)

Time: 3hrs **Max.Marks: 50**

SECTION-I

1X20=20 Marks

1. Write and demonstrate **mail merge** procedure with suitable example
2. Write and demonstrate various options available in **font group** in MS-Word.
3. Write and demonstrate any five **text functions** and five **Mathematical functions** in MS-excel.
4. Write and demonstrate the procedure to create PowerPoint presentation and setup the slideshow with specified slide timing and custom animation.
5. Write and demonstrate to create a database table in MS-Access

SECTION-II

1X10=10 Marks

6. Write and demonstrate any five statistical functions.
7. Write and demonstrate about Margins, Orientation, Size and column in Page layout ribbon.
8. Write and demonstrate analyze and summarize the data using **Pivot table** with your own example.
9. Write and demonstrate to create and run a macro with your own example.
10. Write and demonstrate PowerPoint Recording.

SECTION-III

1X10=10 Marks

11. Write and demonstrate the following
    a) insert/delete sheet columns/rows
    b) Procedure to remove a formula in excel
12. Write and demonstrate find and replace options.
13. Write and demonstrate header and footer concepts in MS-Word.
14. Write and demonstrate any 2 types of charts in excel with your own example.
15. Write and demonstrate text alignments and line spacing in MS-Word

Record **5 marks**

Viva- Voice **5 Marks**

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
FIRST YEAR

MODEL QUESTION PAPER
Paper I: MS-Office Lab (/21)

Time: 3hrs **Max.Marks: 50**

2, 8, 14

Note: The serial numbers of the questions mentioned above are the serial number in question bank. In practical examination only the serial number of the question will be given and for forty (40) marks. The examiner shall decode it with the question bank and give the questions.

Record	**5 marks**
Viva- Voice	**5 Marks**

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
FIRST YEAR
QUESTION BANK
Paper II: Python Programming Lab (/22)

Time: 3hrs **Max.Marks: 50**

SECTION-I

1. 1X20=20 Marks

1. Write a program that takes a number as input and check it is positive, negative or zero.
2. Create a flowchart and then implement a Python program to find the largest among three numbers
3. Write a Python program to create the multiplication table (from 1 to 10) of a number.
4. Write a python program to handle exceptions for division by zero and invalid input.
5. Write a Python program to read data from a text file, perform some operation, and write the result to another file.

SECTION-II

1X10=10 Marks

6. Write a Python program for finding the factorial of a number.
7. Write a python program to check whether the string is palindrome
8. Write a Python program that returns the sum of all the elements in an array.
9. Write a program to reverse a given string in python
10. Write a program in python, demonstrating Inheritance.

SECTION-III

1X10=10 Marks

11. Write a python program to perform basic arithmetic operations (addition, subtraction, multiplication, division) on two numbers.
12. Write a Python program to check if a triangle is equilateral, isosceles or scalene.
13. Write a program to print all even / all odd numbers in a range from (0 to 50)
14. Write a python program to append two arrays.
15. Write a Python program to find the union and intersection of two sets.

Record **5 marks**

Viva- Voice **5 Marks**

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
FIRST YEAR

MODEL QUESTION PAPER
Paper II: Python Programming Lab (/22)

Time: 3hrs **Max.Marks: 50**

4, 7, 13

Note: The serial numbers of the questions mentioned above are the serial number in question bank. In practical examination only the serial number of the question will be given and for forty (40) marks. The examiner shall decode it with the question bank and give the questions.

Record	**5 marks**
Viva- Voice	**5 Marks**

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
FIRST YEAR
QUESTION BANK
Paper III: AI LAB (/23)

Time: 3hrs

Max.Marks: 50

SECTION-I

1X20=20 Marks

1. Write a program to implement Depth First Search
2. Write a simple python program on text-based Turing tests.
3. Write a program to implement Breadth First Search.
4. Write a program to calculate the mean, median, and mode of a given dataset.
5. Write a program to implement 8-puzzle program.

SECTION-II

1X10=10 Marks

6. Write a python program to calculate the variance of a dataset
7. Python program to calculate the margin of error for a given confidence level and sample size.
8. Write a program to implement A* algorithm.
9. Install, Setup of Anaconda & execute some python commands
10. Demonstrate a program to implement naïve bayes algorithm in python

SECTION-III

1X10=10 Marks

11. Demonstrate a python program to import libraries and a dataset.
12. Write a program to implement 8-Queens Problem
13. Write a program demonstrating Normal Distribution in python.
14. Write a python program demonstrating simple reflex agent.
15. Write a simple python program on probability.

Record **5 marks**

Viva- Voice **5 Marks**

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
FIRST YEAR

MODEL QUESTION PAPER
Paper III: AI LAB (/23)

Time: 3hrs **Max.Marks: 50**

3, 6, 11

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Record	**5 marks**
Viva- Voice	**5 Marks**