

ALAGAPPA UNIVERSITY

[Accredited with 'A+' Grade by NAAC (CGPA:3.64) in the Third Cycle and Graded as
Category-I University by MHRD-UGC]

(A State University Established by the Government of Tamil Nadu)

Karaikudi. 630003.

Directorate of Distance Education

CONTINUOUS INTERNAL ASSESMENT (CIA)

ASSIGNMENT QUESTIONS



PROGRAMME CODE : 518

**DIPLOMA
IN
ARTIFICIAL INTELLIGENCE AND MACHINE
LEARNING**

(2022 - 2023)



ALAGAPPA UNIVERSITY, KARAIKUDI
DIRECTORATE OF DISTANCE EDUCATION
CONTINUOUS INTERNAL ASSESSMENT (CIA)
(2021 Calendar Year Onwards) - ASSIGNMENT QUESTIONS
Learning Centre : Karaikudi (100)



Programme code	Programme Name	Semester
518	DIPLOMA IN ARTIFICIAL INTELLIGENCE AND MACHINLE LEARNAING	I

Instructions

- *Assignments should be written in the candidate's own handwriting in the A4 white sheets on only one side of the paper.*
- *Combine all course assignments into single spiral binding for submission.*
- *Maximum. Marks. 25 for each Course (Theory and Practical).*
- *Internal Practical Test will be conducted during PCP schedule for Practical courses every semester.*

The list of assignment topics for each course is furnished below:

Course Code: 51811	Fundamentals of Artificial Intelligence
<ol style="list-style-type: none"> 1. What is Artificial Intelligence? 2. Explain about best first search technique with algorithm. 3. Briefly explain about procedural knowledge. 4. Write short note on neural network learning. 	

Course Code: 51812	Relational Database Management System (RDBMS)
<ol style="list-style-type: none"> 1. With neat diagram explain the architecture of DBMS. 2. Discuss in detail about various forms of normalization. 3. Explain about various Data Manipulation Language (DML) Statements with examples. 	

Course Code: 51813	R Programming
<ol style="list-style-type: none"> 1. What are the features of R Programming? 2. Briefly explain about various control structure in R. 3. Explain about vector and its manipulation. 	

Course Code: 52814	R Programming Lab
INTERNAL EXAM PRACTICAL	
Write Aim, Algorithm, Source code, Input and Output;	
<ol style="list-style-type: none"> 1. Write a R program to perform matrix multiplication. 2. Write a R program to display the numbers between 1 and 10 as even number or odd using looping. 	

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Programme code	Programme Name	Semester
518	DIPLOMA IN ARTIFICIAL INTELLIGENCE AND MACHINLE LEARNAING	II

Instructions

- *Assignments should be written in the candidate's own handwriting in the A4 white sheets on only one side of the paper.*
- *Combine all course assignments into single spiral binding for submission.*
- *Maximum. Marks. 25 for each Course (Theory and Practical).*
- *Model Practical Test will be conducted during PCP schedule for Practical courses every semester.*

The list of assignment topics for each course is furnished below:

Course Code: 51821	Fundamentals of Machine Learning
<ol style="list-style-type: none"> 1. What are the applications of Machine Learning? Explain 2. Discuss about Decision Tree classification with example. 3. Explain about hierarchical clustering algorithm. 	

Course Code: 51822	Principles of Soft Computing
<ol style="list-style-type: none"> 1. Explain in detail about back propagation neural network learning algorithm. 2. Briefly explain about fuzzy membership functions with neat diagram. 3. Discuss about the operations of Genetic algorithm. 	

Course Code: 51823	Python Programming
<ol style="list-style-type: none"> 1. Briefly explain about tuples and its functions with examples. 2. Explain about various manipulations of dictionary in Python. 3. Write short note on : Scipy and Numpy 	

Course Code: 52824	Machine Learning using Python Lab
INTERNAL PRACTICAL TEST	
Write Aim, Algorithm, Source code, Input and Output;	
<ol style="list-style-type: none"> 1. Write a program to perform list processing (create, change and remove elements from the list) in Python. 2. Write a Python program to perform k-means clustering. 	

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