

Course Code: AID201

Course: **Data Structure & Algorithm**

Class: SY (AIDS)

Autonomous

Course Outcome:- Students are able to

CO1: Describe the concepts of Data types and memory allocation. Discuss Asymptotic notations. (II. Understand)

CO2: Implement linear data structures like stack, queue. (III. Apply)

CO3: Implement operations on linked list and stack using linked list. (III. Apply)

CO4: Perform operations on tree and graph like insertion, deletion and traversal.(III. Apply)

CO5: Implement different sorting and searching algorithms. (III. Apply)

CO6: Apply algorithms for problem solving like sorting and find minimum spanning tree. (III. Apply)

CO-PO and CO-PSO mapping

CO	PO1	PO2	PO3	PO4	PO12	PSO1	PSO2
CO1	3	-	-	-	-	1	-
CO2	-	3	-	-	-	1	-
CO3	-	-	3	-	-	1	-
CO4	-	-	3	-	-	1	-
CO5	-	-	3	-	-	1	-
CO6	-	-	3	-	-	1	-
Average	1.0	1.0	2.0	-	-	1	-
Mapping Strength	1.0	1.0	2.0	-	-	1	-

Course teacher
Mr. Bharat Chaudhary

Program Coordinator
Dr. Kavita Bhosle

Course Code: AID202 Course: **Introduction to AI** Class: **SY (AIDS) Autonomous**

Course Outcome:- Students are able to

CO1: Describe the concept of Artificial Intelligence and Intelligent Agents. (II Knowledge)

CO2: Explain the Applications of Artificial Intelligence and its Impact on society (II Understand)

CO3: Discuss the Optimal Path finding methods. (II Understand)

CO4: Apply Game-playing method for solving problems (III Apply)

CO5: Apply Constraint Satisfaction method for solving problems (III Apply)

CO6: Apply state space and Heuristic Search methods for solving problems. (III Apply)

CO-PO and CO-PSO mapping

CO	PO1	PO2	PO5	PO6	PO12	PSO1	PSO2
CO1	1	-	-	-	1	2	-
CO2	-	2	-	-	1	2	-
CO3	-	2	-	-	1	2	-
CO4	-	2	-	-	1	2	-
CO5	-	2	-	-	1	2	-
CO6	-	2	-	-	1	2	-
Average	1.0	2	-	-	1	2	-
Mapping Strength	1.0	2	-	-	1	2	-

Course teacher
Ms. Deepa Dharmadhikari

Program Coordinator
Dr. Kavita Bhosle

Course Code: AID203 Course: **Object Oriented Programming** **Class: SY (AIDS)**
Autonomous

Course Outcome:- Students are able to

CO1: Explain the need & features of object oriented programming (II Understand)

CO2: Apply the syntax and semantics of java programming language.(III Apply)

CO3: Use classes, objects, members of a class, and relationships among them to solve a specific problem.(III Apply)

CO4: Write reusable programs using the concepts of inheritance, polymorphism, interfaces and packages. (III Apply)

CO5: Apply the concepts of Multi-threading, File I/O, and Exception handling. (III Apply)

CO6: Write event driven GUI programs in Java. (III Apply)

CO-PO and CO-PSO mapping

CO	PO1	PO2	PO5	PO6	PO12	PSO1	PSO2
CO1	1	-	-	-	-	1	-
CO2	1	-	-	-	-	1	-
CO3	1	1	-	-	-	1	-
CO4	1	1	-	-	-	1	-
CO5	1	1	1	-	-	1	-
CO6	1	1	2	-	-	1	-
Average	1.0	1.0	1.5	-	-	1.0	-
Mapping Strength	1.0	1.0	1.0	-	-	1.0	-

Course teacher
Ms. Mrunal Mule

Program Coordinator
Dr. Kavita Bhosle

Course Code: AID204 Course: **Microprocessors & Microcontrollers** **Class: SY (AIDS)**
Autonomous

Course Outcome:- Students are able to

CO1: Describe basic Logic gates and perform conversions among different number system. (II Knowledge)

CO2: Apply K map to simplify logical expressions and understand combinational circuit and sequential circuits. (III Application)

CO3: Illustrate basics of microprocessor and instruction set of 8086. (III Application)

CO4: Analyze difference between microprocessor 8086 and microcontroller 8051. (IV Analysis)

CO5: Examine logic gates and flipflops. (IV Analysis)

CO6: Analyze assembly language program for 8086. (IV Analysis)

CO-PO and CO-PSO mapping

CO	PO1	PO2	PO5	PO6	PO12	PSO1	PSO2
CO1	1	-	-	-	1	1	-
CO2	1	2	-	-	1	1	-
CO3	1	2	-	-	1	1	-
CO4	1	2	-	-	1	1	-
CO5	1	2	-	-	1	1	-
CO6	1	2	1	-	1	1	-
Average	1.0	2	1	-	1	1	-
Mapping Strength	1.0	2	1	-	1	1	-

Course teacher
Mr. Kiran Chaudhari

Program Coordinator
Dr. Kavita Bhosle

G.S. Mandal's
Maharashtra Institute of Technology
(An Autonomous Institute)
 Affiliated to Dr. Babasaheb Ambedkar Marathwada University (Dr. BAMU), Aurangabad
 AICTE Approved, (Accredited with "Grade A" by NAAC)

Department of Emerging Science & Technology

Course Code: AID225 Course: **Lab-V Data Analytics Lab** **Class: SY (AIDS)**
Autonomous

Course Outcome:- Students are able to

- CO1: Explain the R programming basics syntax (I. Understand)
- CO2: Describe descriptive statistics in R. (II. Understand)
- CO3: Write R script to read different types of data set . (III. Apply)
- CO4: Demonstrate the data distribution using various plots (III. Apply)
- CO5: Analyze datasets for regression, classification and clustering (IV. Analyze)
- CO6: Build the model for their selected dataset. (VI. Create)

CO-PO and CO-PSO mapping

CO	PO1	PO2	PO3	PO4	PO5	PO8	PO9	PO10	PSO1	PSO2
CO1	2	-	-	-	-	-	-	-	2	-
CO2	2	-	-	-	1	-	-	-	2	-
CO3	-	2	-	-	-	-	-	-	-	-
CO4	-	2	-	-	-	-	-	-	-	2
CO5	1	1	1	1	-	-	-	-	-	2
CO6	-	1	1	1	1	1	1	1	-	2
Average	1.6	1.5	1	1	1	1	1	1	2	2
Mapping Strength	1.6	1.0	1	1	1	1	1	1	2	2

Course teacher
 Ms. Kanchan Bhale

Program Coordinator
 Dr. Kavita Bhosle