

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

Annexure-4

680322 Minor Project

Course outcomes:

Student would be able to

CO1: Organize, summarize and interpret technical literature with the purpose of formulating a project proposal.

CO2: Write a technical report summarizing state-of-the-art on an identified topic.

CO3: Define intended future work based on the technical review.

CO4: Apply modern tools and technologies.

CO5: Apply SDLC and project Management principles.

CO6: Recognize the professional ethics and team management principles.

Sample List of Projects

1. Garbage Management System Project
2. On Road Vehicle Breakdown Assistance (ORVBA) Finder Project
3. Agri Shop For Farmers Online Shopping Android Application
4. Women Safety & Security System- Alert All Chat Application
5. COVID-19 (corona) Online Test Results & availability booking of Hospitals based Mobile App
6. Online Voting System Project Application
7. Vaccination Management System Software
8. Grievance App: College Campus for Hostel, Food, Admin and Certificate
9. Online Bus Pass Management System Application
10. Online Book Store : Ecommerce Application
11. Online Complaint Registration and Management system (street light, water pipe leakage, rain water drainage, road)
12. Traffic Squad : Penalty Collection & management based App
13. Crime Reporting Manage Online Complaint , FIR & CSR Android Application
14. Doctor Appointment Booking System
15. FUEL DELIVERY ON DEMAND based mobile app
16. College Management System Project
Application To Access College Activities and Management – Events, Placement, Student Info, Results
17. Digital E Gram Panchayat App
18. Student Attendance System App
Student Attendance and Faculty Communication Application
19. Child Safety Application
20. GYM Management System Application

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680323 PROGRAMMING LAB IN PYTHON

Course outcomes:

Student would be able to

CO1: Write, test, and debug simple Python programs.

CO2: Implement Python programs with conditionals and loops.

CO3: Develop Python programs step-wise by defining functions and calling them.

CO4: Use Python lists, tuples, dictionaries for representing compound data.

CO5: Use Python libraries like Numpy and Pandas

CO6: Implement Python programs using basic libraries

SAMPLE LIST OF PROGRAMS

1. Compute the GCD of two numbers. (CO1)
2. Find the square root of a number (Newton's method) (CO2)
3. Exponentiation (power of a number) (CO2)
4. Find the maximum of a list of numbers (CO4)
5. Linear search and Binary search (CO3)
6. Selection sort, Insertion sort (CO3)
7. Merge sort (CO3)
8. First n prime numbers (CO1)
9. Multiply matrices (CO2)
10. Programs that take command line arguments (word count) (CO4)
11. Find the most frequent words in a text read from a file (CO5)
12. Read/write data from a file (CO6)
14. Make a program to plot the data from files (CO5)

PLATFORM NEEDED

Python 3 interpreter for Windows/Linux