

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