



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA
माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत

A GOVT. AIDED UGC AUTONOMOUS & NAAC ACCREDITED INSTITUTE, AFFILIATED TO R.G.P.V BHOPAL (M.P)



STANDARD OPERATING PROCEDURES

NOVEL ENGAGING COURSE (HOLISTIC EDUCATION)



Need of NEC

In accordance with **NEP-2020**, **NEC** was launched in the institute during the academic session **2021-22**, to achieve the holistic development of the students.

Provision in Scheme

NEC was introduced in UG scheme of **II and III year** (both semesters) with provision of 1 credit in each semester. Total weightage of **4 credits** is given.

Nature of Courses

Courses offered to students are from wide range of domain – **technical and non-technical** both. Technical courses are discipline specific and software related also. Non-technical courses are related to Art, Culture, History, Language, Sports, etc. Every course has specific objectives and outcomes. Each course is offered to both **UG II and III year students**. The list of courses is updated in each semester. In the session Jan. - April 2023, more than **100 courses** were offered.

Type of Courses

Courses are of 3 types based on credit as follows:

1. One credit course (Run in one semester)
2. Two credit courses (Run in two semesters)
3. Four credit courses (Run in four semesters)

Allotment of Courses

Every student can select any course of his/her choice subject to the following conditions:

1. Course studied in earlier semesters cannot be opted again.
2. Two and Four credit courses can be opted only if it is studied in previous semesters.

The allotment of courses is done on **First Come First Serve** basis as every course has limited no. of seats only. An in-house portal is developed for allotment of courses.

Conduction of Sessions

Sessions are organized **twice a week** during week days in evening **from 5 to 6 P.M.** These sessions are conducted by Course Mentor in a variety of modes like classroom teaching, conduction of seminar, organization of quiz, field visit, expert lecture, etc.

Performance Evaluation

At the end of semester, each Course Mentor do the performance evaluation of students based on attendance, quiz, assignment, course specific activities/seminar, etc. It is mandatory for the students to achieve the minimum marks as per the requirement.

Feedback of Students

At the end of session, every student is required to submit the feedback w.r.to the course and Course Mentor.



List of Novel Engaging Courses

Sr.	Name of the Course	Sr.	Name of the Course
1	20000013D Printing	40	2000091 Intellectual Property: Rules, Drafting and Processing
2	2000003-Design Skills Using Simulation Software	41	2000093 Modern techniques for business correspondence
3	2000004 -Data Analysis Skills	42	2000094 Integrating Engineering and Literacy
4	2000007 Robotics	43	2000095 Imbalance Learning
5	2000008 Vehicular Skill Development	44	2000096 Python for Image processing applications using Open CV
6	2000009 Animation	45	2000099 Basics and Applications of Mathematica
7	2000012 Elements of Photographic Skills	46	2000100 Technical Report Writing for Engineers
8	2000017 National Service Scheme** (NSS) - II	47	2000101 Proficiency in Microsoft Excel
9	2000019 National Service Scheme** (NSS) - IV	48	2000107 Electrical Wiring, hazards & safety
10	2000021 National Cadet Corps** (NCC) - II	49	2000108 Basics of MATLAB Programming
11	2000023 National Cadet Corps** (NCC) - IV	50	2000109 Basic Programming of Python using Google Colab
12	2000028 Organic Farming	51	2000110 LT Spice Tutorial for Circuit Simulation
13	2000033 Games & Sports** - II	52	2000114 Understanding Logic Gates
14	2000035 Games & Sports** - IV	53	2000115 MATLAB Simulink
15	2000048 English Literary Skills	54	2000118 Solar Applications
16	2000049 Hindi Literary Skills	55	2000119 Computational Methods for Engineers using MATLAB
17	2000050 Preliminary Journalism Skills	56	2000122 Material Characterization Techniques for Engineering Applications
18	2000052 Food and Nutrition	57	2000124 Basics of Campus Recruitment Training
19	2000053 Career Guidance & Preparedness	58	2000125 Corporate Governance
20	2000059 Public Speaking* - II	59	2000126 Professional Networking & CSR
21	2000061 Coding Skills** - II	60	2000127 Craft practices in India
22	2000063 Coding Skills** - IV	61	2000130 Study of Historical Monuments of Gwalior
23	2000064 Emerging Technologies in Computer Science	62	2000134 Practical Electronics for Inventors
24	2000067 Software Development** - II	63	2000135 Research Paper Preparation and Publication-Basics
25	2000069 Software Development** - IV	64	2000136 Basics of Control Systems for Engineers
26	2000070 Photo Editing Software: Adobe Photoshop	65	2000137 Computational Thinking for Problem Solving
27	2000071 Basics of Technical Analysis in Stocks	66	2000138 Introduction to Auto CAD for Engineers
28	2000072 Graphic Design	67	2000139 Smart Home Technologies
29	2000073 World Heritage Sites: A Brief Overview	68	2000141 Electrical Safety
30	2000074 Basic and Advanced Excel	69	2000142 Microsoft Office-Excel Skills
31	2000076 Fire Safety and Regulation in Building	70	2000143 Know your Country: History, Culture & Traditions
32	2000077 Developments in Pavement Construction: Past to Future	71	2000144 Technical Writing
33	2000080 Shutter Up-Flash Me Photography	72	2000147 Digital Image Enhancement Techniques
34	2000081 Science and Technology Around Us	73	2000148 Project Management
35	2000083 Cloud Computing: Techniques & Tools	74	2000149 Software Model and Project Management Life Cycle
36	2000085 Demystifying Online Social networks	75	2000150 Statistical data analysis through programming
37	2000088 Gender Sensitization	76	2000152 Innovation: From Creativity to Entrepreneurship**-II
38	2000089 IT Tools	77	2000156 Entrepreneurship: Concept to Company*-II
39	2000090 Understanding Financial Markets	78	2000157 Bhagwad Gita- An Introduction