



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)



A Report

On

SUMMER INTERNSHIP PROGRAM –I

(22nd July to 31st July 2021)



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)

Report of Summer Internship Programme

For

Academic Session: July-July- 2021 (Virtual Mode)



(A Government Aided UGC Autonomous & NAAC Accredited Institute Affiliated to R.G.P.V. Bhopal)

Report of Summer Internship Program 2021

Institute has organized online summer internship Program during 22nd July to 31st July 2021.In total forty modules have been offered for registration of B. Tech / B. Arch UG I year students. Out of which, **twenty-nine modules** have been successfully run. The intended objectives of internship training are as follows:

- ✓ Provide possible opportunities to learn, understand and sharpen the real time technical skills required at the job
- ✓ Get exposed to the current technological developments relevant to the subject area of training.
- ✓ Use the experience gained form the Internship in discussions held in the online classrooms
- ✓ Create conditions conducive to quest for knowledge and its applicability on the job.
- ✓ Learn to apply the technical knowledge in real life situations.
- ✓ Gain experience in writing reports in technical works/projects.
- ✓ Expose students to the engineer's responsibilities and ethi

ABOUT SUMMER INTERNSHIP

Internships are educational and career development opportunities, providing practical experience in a field or discipline. Following are the intended objectives of internship training

- Provide possible opportunities to learn, understand and sharpen the real time technical skills required at the job
- Get exposed to the current technological developments relevant to the subject area of training.
- Use the experience gained form the Internship in discussions held in the online classrooms
- Create conditions conducive to quest for knowledge and its applicability on the job.
- Learn to apply the technical knowledge in real life situations.
- Gain experience in writing reports in technical works/projects.
- Expose students to the engineer's responsibilities and ethics

MITS, GWALIOR

Madhav Institute of Technology and Science (MITS), Gwalior was established by His Highness Sir Jiwaji Rao Scindia, Maharaja of Erstwhile State of Gwalior, with an aim to create world class quality Engineers and technocrats capable of providing leadership in all spheres of life and society. Founded as Madhav Engineering College in 1957. Since its inception, the institute has constantly strived for excellence and quality. Today the institute offers fifteen UG programes along with research programes leading to Master's degree in thirteen specializations and Ph.D. in various technical streams. Various departments of the institute have well equipped laboratories and experienced faculty. The institute is a minor QIP centre for Ph.D. programes in five disciplines. The institute is also funded by the World Bank under TEQIP phase III to strengthen the quality of technical education.

ORGANIZING COMMITTEE

Coordinator

Dr. Rajeev Kansal Professor, Department of Civil Engineering

Co-Coordinator(s)

Prof.Praveen Bansal Assistant Prof.Swati Gupta Assistant

Assistant Professor, EED Assistant Professor, EED Two Week
Online Summer Internship Programme- 2021
For

B.E/ B.Tech/BArch Students

(22th July to 31st July 2021) (In Virtual Mode)





MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE (A Govt. Aided UGC autonomous & NAAC Accredited institute affiliated to RGPV, Bhopal)

Race Course Road, Gola Ka Mandir, Gwalior, M.P. 474005 website: www.mitsgwalior.in



(A Government Aided UGC Autonomous & NAAC Accredited Institute Affiliated to R.G.P.V. Bhopal)

List of Modules offered

S.No.	Name of Department	Name of Modules						
1.	Electrical Engineering	Hands on Training on MATLAB / SIMULINK						
2.		Introduction to Solar systems & Solar Photovoltaic (PV) Modeling using PVsyst Software and Simulink						
3.		Numerical Computations in Electrical Engineering using MATLAB						
4.		Electricity usage for Domestic & Industrial applications.						
5.		Hands on Training on LABVIEW						
6.	Mechanical Engineering/	3D Printing with AutoCAD						
7.	Automobile	SOLIDWORKS with GD&T						
8.		Robotics and Automation						
9.		Hand's on Experience on Conventional Machine						
10.		Visualization and learning of repair and maintenance of a						
		vehicle						
11.		State Of The Art Of Ground Vehicles						
12.	IT	Machine Learning for Everyone						
13.		Python for Beginners						
14.		Cyber Security						
15.	CSE	Machine Learning using Python						
16.		Cyber Security						
17.		Internet of Things						
18.		Python Programming & its Applications						
19.		Wireless Communication and mobile computing						



(A Government Aided UGC Autonomous & NAAC Accredited Institute Affiliated to R.G.P.V. Bhopal)

20.		Programming in Scilab						
21.	Electronics Engineering	Tinkercad & Programming in MATLAB						
22.		Electronic Circuit design and Simulation using LTSpice and Simulink						
23.	Civil Engineering	In-House Testing of Engineering Materials						
24.		Basic Structural elements drawing using AutoCAD						
25.		Modelling and Simulation using MATLAB						
26.	Mathematics & Computing	Linux basics						
27.		Differential Equations and Its Application						
28.		Discrete Mathematics and It's Application						
29.		Descriptive Statistics with R						
30.		Introduction of Soft Computing						
31.		Spreadsheet experience and technology						
32.	Chemical Engineering	Introduction to Analytical Instruments						
33.		Environment Aspect and Related Issue's						
34.		Introduction of Mineral Processing and Challenges						
35.	Applied Science	Atmospheric and Space Physics						
36.		Chromatographic Techniques used in identification						
37.		Preparation of Soap Using Different Types of Oils and						
		Exploring its Properties						
38.	Architecture	Digital Painting						
39.		Graphic Thinking						
40.		Heritage & Tourism						

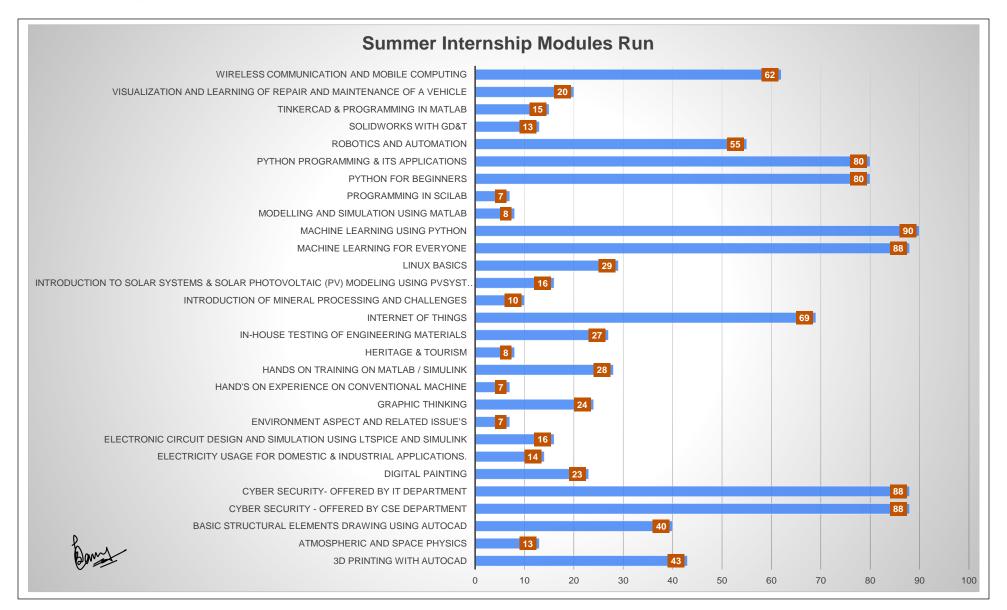


(A Government Aided UGC Autonomous & NAAC Accredited Institute Affiliated to R.G.P.V. Bhopal)

List of modules run and details of Registration

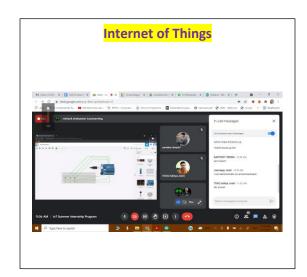
Total no. of Registrations: 1068

Total no, of module run: 29

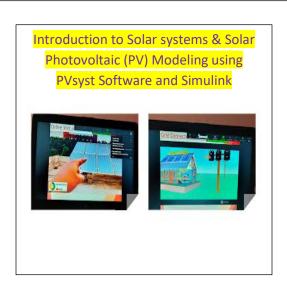


(A Government Aided UGC Autonomous & NAAC Accredited Institute Affiliated to R.G.P.V. Bhopal)

Glimpses of Internship















(A Government Aided UGC Autonomous & NAAC Accredited Institute Affiliated to R.G.P.V. Bhopal)

Feedback of Summer Internship -1 2021

Feedback Points:

F1	Module Coordinator clearly defines the goals at the beginning of the Internship
F2	The lecture sequence was well planned
F3	The teaching aids effectively used
F4	The course exposed to you new knowledge and practices
F5	The quality of digital lectures/slides available through MOODLE, youtube and otheronline platforms was
	good
F6	The Level of the module course is
F7	The work I performed are challenging and stimulating
F8	This Internship help me to grow professionaly
F9	I would recommend this Internship to other students in future
F10	Suggestions

List of Modules (Feedback Received)

M1	3D Printing with AutoCAD
M2	Atmospheric and Space Physics
M3	Basic Structural elements drawing using AutoCAD
M4	Cyber Security - offered by CSE department
M5	Cyber Security- offered by IT department
M6	Digital Painting
M7	Electricity usage for Domestic & Industrial applications.
M8	Electronic Circuit design and Simulation using LTSpice and Simulink
M9	Environment Aspect and Related Issue's
M10	Graphic Thinking
M11	Hand's on Experience on Conventional Machine
M12	Hands on Training on MATLAB / SIMULINK
M13	Heritage & Tourism
M14	In-House Testing of Engineering Materials



(A Government Aided UGC Autonomous & NAAC Accredited Institute Affiliated to R.G.P.V. Bhopal)

M15	Internet of Things
M16	Introduction of Mineral Processing and Challenges
M17	Introduction to Solar systems & Solar Photovoltaic (PV) Modeling using PVsyst Software and Simulink
M18	Machine Learning for Everyone
M19	Machine Learning using Python
M20	Modelling and Simulation using MATLAB
M21	Programming in Scilab
M22	Python for Beginners
M23	Python Programming & its Applications
M24	Robotics and Automation
M25	SOLIDWORKS with GD&T
M26	Tinkercad & Programming in Matlab
M27	Visualization and learning of repair and maintenance of a vehicle
M28	Wireless Communication and mobile computing

Feedback Received

S.No.	Module	F1	F2	F3	F4	F5	F6	F7	F8	F9	Average	No. of students registered	No. of students given Feedback
1	M1	4.5	4.4	4.5	4.5	4.3	3.9	4.2	4.3	4.4	4.3	43	35
2	M2	4.5	4.8	4.8	4.8	4.6	3.9	4.2	4.3	4.8	4.5	13	12
3	М3	4.7	4.7	4.6	4.8	4.7	4.4	4.7	4.7	4.9	4.7	43	40
4	M4	4.5	4.5	4.3	4.4	4.3	3.9	4.3	4.2	4.2	4.3	88	63
5	M5	4.3	4.5	4.4	4.5	4.5	3.9	4.2	4.1	4.2	4.3	88	35
6	M6	4.6	4.8	4.8	4.9	4.8	4.4	4.5	4.9	4.9	4.7	23	14
7	M7	4.9	4.9	5.0	4.8	4.9	4.5	4.8	4.8	4.8	4.8	14	8
8	M8	4.4	4.2	4.3	4.7	4.4	4.2	4.3	4.6	4.6	4.4	16	9
9	M9	4.5	4.7	4.6	4.8	4.7	4.6	4.3	4.8	5.0	4.7	11	9
10	M10	4.8	4.8	4.7	4.6	4.6	4.1	4.6	4.5	4.6	4.6	24	20
11	M11	5.0	4.7	4.7	4.7	4.7	4.0	3.7	4.3	5.0	4.5	7	3
12	M12	4.7	4.6	4.6	4.7	4.6	4.1	4.4	4.6	4.7	4.6	35	28
13	M13	5.0	4.8	4.9	5.0	4.6	4.6	4.8	4.8	4.8	4.8	8	8



(A Government Aided UGC Autonomous & NAAC Accredited Institute Affiliated to R.G.P.V. Bhopal)

14	M14	4.6	4.6	4.4	4.5	4.5	4.2	4.4	4.7	4.6	4.5	27	34
15	M15	4.5	4.5	4.5	4.6	4.5	4.1	4.3	4.3	4.4	4.4	69	59
16	M16	4.9	4.7	4.7	4.8	4.4	4.2	4.4	4.4	4.6	4.6	10	10
17	M17	4.7	4.6	4.4	4.6	4.3	4.1	4.1	4.2	4.4	4.4	16	15
18	M18	4.5	4.5	4.4	4.4	4.3	3.9	4.2	4.1	4.3	4.3	88	77
19	M19	4.5	4.5	4.4	4.5	4.4	3.9	4.3	4.2	4.2	4.3	90	67
20	M20	4.8	4.8	4.5	4.8	4.8	4.8	4.5	4.5	4.3	4.6	8	4
21	M21	3.7	3.6	3.8	3.4	3.6	3.0	3.7	3.3	3.7	3.5	7	9
22	M22	4.3	4.3	4.2	4.2	4.2	3.9	4.0	4.1	4.3	4.2	80	43
23	M23	4.7	4.8	4.7	4.7	4.7	4.1	4.6	4.6	4.7	4.6	80	75
24	M24	4.2	4.2	4.2	4.1	4.3	4.1	4.0	4.0	4.1	4.1	55	36
25	M25	4.5	4.9	4.5	4.6	3.9	4.2	3.9	4.5	4.6	4.4	13	11
26	M26	5.0	5.0	4.9	5.0	4.8	4.4	4.3	4.8	4.9	4.8	15	15
27	M27	4.7	4.6	4.7	4.5	4.3	4.2	4.4	4.4	4.6	4.5	20	19
28	M28	4.7	4.8	4.7	4.8	4.6	4.2	4.4	4.5	4.5	4.6	60	52

Prof.Praveen Bansal Co-Coordinator, SIP-I