

# Two Week Online Summer Internship Programme– 2020

For  
B.E/ B.Tech/BArch Students

For I Year : 11<sup>th</sup> May to 28<sup>th</sup> May 2020

For II Year: 11<sup>th</sup> May to 28<sup>th</sup> May 2020



Estd. 1957

Organized by  
**Madhav Institute of Technology &  
Science, Gwalior, M.P.**

(A Govt. Aided UGC Autonomous & NAAC Accredited  
Institute affiliated to R.G.P.V. Bhopal, M.P)

[www.mitsgwalior.in](http://www.mitsgwalior.in)

## ABOUT SUMMER INTERNSHIP

Internships are educational and career development opportunities, providing practical experience in a field or discipline. Following are the intended objectives of online 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 from 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
- Soft Skills

## ORGANIZING COMMITTEE

### Patron

Er. Ramesh Agrawal

Secretary,  
Scindia Engg. College Society

### Chairman

Dr.R.K. Pandit

Director

### Coordinator

Dr. Rajeev Kansal

Dean Student Welfare

### Co-Coordinator I Year

Prof. Praveen Bansal  
Prof. Swati Gupta

Assistant Professor ,EED  
Assistant Professor ,Ch.ED

### Co-Coordinator II Year

Dr. Sanjeev Khanna

Associate Professor, Humanities

## ELIGIBILITY

Students pursuing I & II Year BE/BTech in any branch of Engineering & B Arch from recognized Academic Institutions/ Universities.

## ABOUT THE INSTITUTE

Madhav Institute of Technology & Science, Gwalior was established in 1957 by His Highness Late Sir Jiwaji Rao Scindia, Maharaja, of the erstwhile state of Gwalior.

The foundation stone of the Institute was laid by Late Dr. Rajendra Prasad, on 20<sup>th</sup> October, 1956 and the building was inaugurated by Late Dr. S. Radha Krishnan on 11<sup>th</sup> December, 1964. The president of India, Dr. Pratibha Devi Singh Patil graced the Golden Jubilee Celebrations of the Institute as Chief Guest on 30<sup>th</sup> June, 2008.

The Institute has a campus of around 45 acres. The Institute offers education in eleven undergraduate programmes and twenty-one PG programmes. The prime objective of the Institute is to provide quality technical education at undergraduate and postgraduate levels. Recently the Institute is also funded by World Bank under TEQIP-III to strengthen the quality of technical education.

## RESOURCE PERSONS

The various sessions of this internship program will be conducted by Faculty members of MITS Gwalior.

## INTERNSHIP MODULES

### Modules offered for I Year (BE/B.Tech/BArch)

#### 1. Civil Engineering Department

- *Advancing From BASICS By Practicing Through "VIRTUAL LABS" In Civil Engineering*
- *Basics Of Python and Its Applications In Civil Engineering*
- *Civil Engineering Structural Elements Drawing Using Autocad*

#### 2. Mechanical Engineering Department

- *State Of Art Of Ground Vehicles*
- *Introduction to Auto CAD For Engineering Applications*
- *Solid works with GD&T*
- *Visualization And Learning Of Repair And Maintenance of a Vehicle*
- *Descriptive Statistics With Python*

#### 3. Electrical Engineering Department

- *Hands On Training On MATLAB / SIMULINK*
- *Introduction To Solar Systems & Solar Photovoltaic (PV) Modelling Using PV-syst Software & Simulink*
- *Numerical Computational Techniques Using MATLAB*
- *Hands On Training On OCTAVE (An Open Source Software)*
- *Electricity Usage for Domestic & Industrial Applications.*

#### 4. Electronics Department

- *Electronic Circuit Design Using LT-spice*
- *Python For Engineers*
- *Training On Sci-Lab*

#### 5. CSE & IT Department

- *Analytics Using R Tool*
- *Internet Of Things (IoT)*
- *Python Programming With Applications To Machine Learning*
- *Front end web developer*
- *Google Services*

#### 6. Chemical Engineering Department

- *Chemical Reaction Engineering: A Flyover Between Nano And Macro World*
- *Introduction To Analytical Instruments*
- *Introduction Of Mineral Processing And Challenges*

#### 7. Applied Science Department

- *Chromatographic Techniques And It's Application*
- *Uses Of Fiber Optics In Current Scenario*
- *Applications Of Lasers In Engineering , Technology, Space & Medical Science*
- *Differential Equations And Its Application*
- *Discrete Mathematics And It's Application*

#### 8. Architecture Department

- *Digital Painting*
- *Built & Cultural Heritage*

#### 9. Counselling Cell

- *Pro Social Behaviour*
- *Personal Growth: Becoming A Better "You"*

### Modules offered for II Year (BE/B.Tech/BArch)

- **Humanities Department**
  - *Soft Skills*

## HOW TO APPLY/REGISTRATION

### MITS STUDENTS

It is mandatory for all students of I & II year B.Tech./ B.Arch. to attend the online Summer Internship. For registration link is available on institute website. **No fees is to be paid.**

**For I Year: Registration will start at 11.00 AM on 28<sup>th</sup> April 2020.**

**For II Year: All regular students are automatically registered.**

### STUDENTS OTHER THAN MITS

Students of other Institutes interested to enrol for the online Internship are required to do online registration through link available on Institute Website [www.mitsgwalior.in](http://www.mitsgwalior.in). They are required to make payment of the fees applicable for Internship as follows:

**I Year: Internship fee Rs. 1000/-+ GST(18%)**

**II Year: Internship fee Rs. 1000/-+ GST(18%)**

Payment has to be done online and only after successful payment, the registration process will be completed.

**Fees once paid will not be refunded.**

**Registration will start at 11.00 AM on 28<sup>th</sup> April 2020.**

The selection is **on first come first served basis**, depending upon the availability of the seats.

**Last Date of Registration is 5th May 2020.**

## Dates

- **For I Year : 11<sup>th</sup> May to 28<sup>th</sup> May 2020**
- **For II Year: 11<sup>th</sup> May to 28<sup>th</sup> May 2020**

## Assessment

Assessment and evaluation of the performance will be done by respective Module Coordinator. E-certificate will be issued to outside students after successful completion of course.

### For more information contact :

Prof. Praveen Bansal (9827577549)

I Year

Prof. Swati Gupta (9977820544)

I Year

Dr. Sanjeev Khanna (9826804951)

II Year

For any query mail on : [internship@mitsgwalior.in](mailto:internship@mitsgwalior.in)