

## Madhav Institute of Technology & Science, Gwalior

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

### List of Open Course (OC-4 and OC-5) to be run in online mode through SWAYAM/NPTEL in Jan-June 2021 for VIII semester B.Tech Students

| Category                | S.No. | Full Name of Course                                      | Note:   | Weeks   | Start Date      | Mentor of our Institute                          |   |
|-------------------------|-------|--|---|---|-----------------|--|---|
| OC-4<br>(VIII Semester) | 1     | Linear Dynamical Systems                                 | These Courses are <b>not allowed</b> for Electronics & E&T Students         | 8   | 18-01-2021      | Dr Karuna Markam                                 |   |
|                         | 2     | Sensors and Actuators                                    |   | 12  | 18-01-2021      | Deepak Batham                                    |   |
|                         | 3     |  |   |   |                 |  |   |
| OC-5<br>(VIII Semester) | 1     | Electronics equipment integration and Prototype building |   | 8   | 18-01-2021      | Arpita Singhal                                   |   |
|                         | 2     | Computer Vision and Image Processing - Fundamentals and  |   | 12  | 18-01-2021      | Shambhu Kumar                                    |   |
|                         | 3     |  |   |   |                 |  |   |
| OC-4<br>(VIII SEM)      | 1     | Linear Dynamical Systems                                 | These Courses are <b>not allowed</b> for Electronics & E&T Students         | 8   | 18-01-2021      | Dr Karuna Markam                                 |   |
|                         | 2     | Sensors and Actuators                                    |   | 12  | 18-01-2021      | Deepak Batham                                    |   |
|                         | 3     |  |   |   |                 |  |   |
| OC-5<br>(VIII SEM)      | 1     | Electronics equipment integration and Prototype building |   | 8   | 18-01-2021      | Arpita Singhal                                   |   |
|                         | 2     | Computer Vision and Image Processing - Fundamentals and  |   | 12  | 18-01-2021      | Shambhu Kumar                                    |   |
|                         | 3     |  |   |   |                 |  |   |
| OC-4<br>(VIII Semester) | 1     | 900301 Waste to Energy Conversion                        | These Courses are <b>not allowed</b> for Electrical Engineering Students    | 8 Weeks   | Jänner 18, 2021 | Dr. Vijay Bhuria Prof. Punjan Dohare             |   |
|                         | 2     | 900302 Automatic Control                                 |   | 8 Weeks   | Jänner 18, 2021 | Dr. Vikram Prof. Shailendra Pratap Singh         |   |
| OC-5<br>(VIII Semester) | 1     | 900311 Renewable Energy Engineering: Solar, Wind and     |   | 08 Weeks  | Jänner 18, 2021 | Dr. Himmat Singh Prof. Rahul Sagwal              |   |
|                         | 2     | 900312 Non-Conventional Energy Resources                 |   | 12 Weeks  | Jänner 18, 2021 | Prof. Saurabh Kumar Rajput Prof. Nipun Gupta     |   |
| OC-4<br>(VIII SEM)      | 1     | Waste to Energy Conversion                               |   | These Courses are <b>not allowed</b> for Mechanical and Automobile Students | 08 Weeks        | Jänner 18, 2021                                  | Mr. N. Sikarwar                             |
|                         | 2     | Product Design and Manufacturing                         |   |   | 12 Weeks        | Jänner 18, 2021                                  | Dr. Amit Aherwar                            |
|                         | 3     | Automatic Control  | 8 Weeks   |   | Jänner 18, 2021 | Mr. Kostubh Khot                                 |   |
| OC-5<br>(VIII SEM)      | 1     | Mechatronics   | 8 Weeks   |   | Jänner 18, 2021 | Mr. Vaibhav Shivhare                             |   |
|                         | 2     | Elements of Solar Energy Conversion                      | 12 Weeks  |   | Jänner 18, 2021 | Dr. R. K. Ranjan                                 |   |
|                         | 3     | Traditional and Non-Traditional Optimization Tools       | 8 Weeks   |   | Jänner 18, 2021 | Mr. Gyanesh Sharan                               |   |
| OC-4<br>(VIII SEM)      | 1     | Waste to Energy Conversion                               | These Courses are <b>not allowed</b> for Mechanical and Automobile Students | 08 Weeks  | Jänner 18, 2021 | Mr. N. Sikarwar                                  |   |
|                         | 2     | Product Design and Manufacturing                         |   | 12 Weeks  | Jänner 18, 2021 | Dr. Amit Aherwar                                 |   |
|                         | 3     | Automatic Control  |   | 8 Weeks   | Jänner 18, 2021 | Mr. Kostubh Khot                                 |   |
| OC-5<br>(VIII SEM)      | 1     | Mechatronics   |   | 8 Weeks   | Jänner 18, 2021 | Mr. Vaibhav Shivhare                             |   |
|                         | 2     | Elements of Solar Energy Conversion                      |   | 12 Weeks  | Jänner 18, 2021 | Dr. R. K. Ranjan                                 |   |
|                         | 3     | Traditional and Non-Traditional Optimization Tools       |   | 8 Weeks   | Jänner 18, 2021 | Mr. Gyanesh Sharan                               |   |
| OC-4<br>(VIII SEM)      | 1     | Natural Hazards  | These Courses are <b>not allowed</b> for Civil Engineering Students         | 8   | Jän 18, 2021    | Dr. Pratibha Singh                               |   |
|                         | 2     | Plastic Waste Management                                 |   | 8   | Jän 18, 2021    | Prof. Nupur Verma                                |   |
| OC-5<br>(VIII SEM)      | 1     | Remote Sensing: Principles & Applications                |   | 12  | Jän 18, 2021    | Prof. Shivam Gupta                               |   |
|                         | 2     |  |   |   |                 |  |   |
| OC-4<br>(VIII SEM)      | 1     | Privacy and Security in Online Social Media              | These Courses are <b>not allowed</b> for CSE and IT Students                | 8   | Jän 18, 2021    | Prof. Jamvant Singh Kumare, Prof.ram Parvesh Das |   |
|                         | 2     | Introduction to internet of things                       |   | 12  | Jän 18, 2021    | Prof.Mir Shahnawaz Ahmad, Aishwarya              |   |
| OC-5<br>(VIII SEM)      | 1     | Data Science for Engineers                               |   | 8   | Jän 18, 2021    | Prof. Arun Kumar, Prof. Mohit Jain               |   |
|                         | 2     | Social Networks  |   | 12  | Jän 18, 2021    | Prof.Jule Kumari, Prof.Sneha Garg                |   |
| OC-4<br>(VIII SEM)      | 1     | Privacy and Security in Online Social Media              |   | These Courses are <b>not allowed</b> for CSE and IT Students                | 8               | Jän 18, 2021                                     | Prof. Rajeev K. Singh, Prof. Abhishek Dixit |
|                         | 2     | Introduction to internet of things                       |   |   | 12              | Jän 18, 2021                                     | Prof. Vikas Sejwar, Prof. Shweta Patel      |
| OC-5                    | 1     | Data Science for Engineers                               | 8   |   | Jän 18, 2021    | Prof. Punit K. Johari, Prof Namrata Agrawal      |   |

|                    |   |   |   |          |                 |   |  |
|--------------------|---|---|---|----------|-----------------|---|--|
| (VIII SEM)         | 2 | Social Networks   |   | 12       | Jän 18, 2021    | Prof. Rajeev K. Singh, Prof. Santosh Sahu |  |
| OC-4<br>(VIII SEM) | 1 | Computational Fluid Dynamics                                  | <b>These Courses are not allowed for Chemical Engineering Students</b>      | 12       | April 9, 2021   | Prof. Swati Gupta                         |  |
|                    | 2 | Renewable Energy Engineering: Solar, Wind and Biomass         |   | 8        | Jänner 18, 2021 | Dr. R.K.Dubey                             |  |
| OC-5<br>(VIII SEM) | 1 | Environmental Quality Monitoring & Analysis                   |   | 12       | Jänner 18, 2021 | Dr. A.N.Sarve                             |  |
|                    | 2 | Electrochemical Technology in Pollution Control               |   | 8 Week   | Jänner 18, 2021 | Prof. Anish P. Jacob                      |  |
| OC-4<br>(VIII SEM) | 1 | <i>Bioengineering: An Interface with Biology and Medicine</i> | <b>These Courses are not allowed for Biotechnology Engineering Students</b> | 08 weeks | Jän 18, 2021    | Prof. Vishal Ranjan                       |  |