

# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE GWALIOR (M.P.)



## CHEMICAL ENGINEERING DEPARTMENT

Volume 4 / Issue 2

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### VISION

To be a leader in Chemical Engineering Education and Research by providing balanced learning and fostering research to enable the learners to meet the challenges of process industries and societal needs.

### MISSION

- Share state of the art knowledge and facilities and enable optimal utilization of the resource in the region.
- To adopt good pedagogical practices and ethics in order to achieve excellence.
- Develop research culture and create a platform to disseminate research and development

### ABOUT THE DEPARTMENT

The Chemical Engineering Department was started in 1996 it offers B.E. and MTech. courses in Chemical Engineering. Department was started with 30 students in undergraduate but latter on realizing the importance and need for Chemical Engineers, intake capacity raised to 60 in 2013-14. MTech. Course was started in 2013-14 with specialization in Chemical Engineering. The Department started with vision developing itself into academic excellence in Chemical Engineering and associated areas in order to develop competitive professionals and experts having knowledge, skills and attitude to serve the society and nation.

### PROGRAMME EDUCATIONAL OBJECTIVES (PEOS)

- PEO1: Develop innovative products and services in the field of Chemical Engineering and Allied Engineering disciplines.
- PEO2: Make use of Chemical Engineering with modern experimental and computational skills in higher education and research.

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## WORKSHOPS

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1. Workshop with **IIT Indore**  
**Duration:** 28-30 December 2020  
**By:** Prof. Swati Gupta
2. Organized by **Energy Swaraj Foundation** in Association with Mits, Gwalior  
**Duration:** 2<sup>nd</sup> October 2020  
**By:** Prof. Swati Gupta

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## WEBINARS

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1. **Madhav Institute of Technology and Science.**  
**Date:** 24/09/2020  
**By:** Prof. Swati Gupta and Prof. Anish P. Jacob
2. **Ujjain Engineering College, Ujjain**  
**Date:** 02/07/2020  
**By:** Prof. Sulochana Nagar
3. **AISSMS College of Engineering, Delhi**  
**Date:** 02/07/2020  
**By:** Prof. Sulochana Nagar

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## TRAINING PROGRAMME

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1. **Punjab Engineering College**  
**Duration:** 05/10/2020 to 09/10/2020  
**By:** Prof. Swati Gupta
2. **Bio MEMS & Microfluidics**  
**Duration:** Sept- Nov 2020  
**By:** Prof. Anish P. Jacob
3. **Fundamentals of Artificial Intelligence**  
**Duration:** Sept-Dec 2020  
**By:** Prof. Anish P. Jacob
4. **Introduction to Glass Science & Technology (FDP, IIT Kharagpur)**  
**Duration:** 14-18 Dec 2020  
**By:** Dr. Rakesh Kumar Dubey

- 5. Advances in Fatigue, creep, fracture and failure analysis of materials (FDP, IIT Indore)**  
**Duration:** 07-11 Dec 2020  
**By:**Dr. Rakesh Kumar Dubey
- 6. Energy Engineering (ATAL, FDP, IIT Roorkee)**  
**Duration:** 23-27 Nov 2020  
**By:**Dr. Rakesh Kumar Dubey
- 7. Sustainable Design of Chemical Process Plants byUsing ASPEN PLUS and ASPEN HYSYS SimulatingTools (STC, VIT Vellore)**  
**Duration:** 21-26 Sept 2020  
**By:** Prof. Sulochana Nagar
- 8. Natural Gas Engineering(NPTEL, FDP)**  
**Duration:** Sept-Nov 2020  
**By:**Prof. Sulochana Nagar
- 9. Green Technology & Sustainability Engineering (ATAL, FDP, NIT Raipur)**  
**Duration:** 8-12 Dec 2020  
**By:** Prof. Sulochana Nagar
- 10. Green Technology & Sustainability Engineering (FDP, NIT Raipur)**  
**Duration:** 8-12 Dec 2020  
**By:**Dr. Rakesh Kumar Dubey
- 11. STC on Emerging ICT Trends Towards Atmanirbhar Bharat**  
**Duration:** 28-30 December 2020  
**By:**Prof. Swati Gupta
- 12. ATAL FDP on Green Technology & Sustainability Engineering**  
**Duration:** 05-10-2020 to 09-10-2020  
**By:** Prof. Swati Gupta

## **ONLINE FEEDBACK USING MOODLE**

The constraints of pen and paper method of receiving feedbacks are many, which render the whole process meaningless. The main constraints in this method are- cost of printing which increases with the increase in number of questions. Moreover, the students lose interest in filling those never-ending sheets of paper, and the sheets from the booklets also. In such scenario, the data obtained, from the feedback are not complete and are unreliable. In addition to that, this data can't be analyzed deeply, without investing tremendous amount of resources.

In such a scenario, this year, the student feedback about different Faculty member and courses has been obtained using an online platform, MOODLE. Use of MOODLE for obtaining feedback has resulted in overwhelming participation from students. Moreover, the completeness of data is also guaranteed. The length of feedback questionnaire can be increased without any problem. In addition to that, the data obtained can be analyzed in multitude ways, very easily.

## **INTRODUCTION OF NPTEL COURSES UNDER SWAYAM**

During the last few years, the awareness among engineering students about social media has increased exponentially. The inclination among present day students is towards learning from online platforms, where they can learn at their own pace in their own time, at a place of their choice. SWAYAM is an initiative whose motive is to exploit this tendency of students for online learning.

The lectures of the courses are available on YouTube platform, where a student can watch them and learn. These courses also include assignments given by Instructors assigned to these courses. These assignments are submitted using Google Classroom, which facilitates transparency and continuity in the evaluation of students. Moreover, a student receives prompt results.

## **EDITORIAL BOARD**

Advisor: Prof. Swati Gupta

Composed by: Rehan Khan(0901CM191044)

Shiwangi Shrivastava ((0901CM191050)