

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



CHEMICAL ENGINEERING DEPARTMENT

Volume 7 / Issue 1

Jan. 2024 – March 2024

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.

Departmental Events

1. Alumni Interaction Session was organized for the students on 9th March, 2024 in online mode. The guest speaker was **Ms. Apoorva Vishwanath, Jr.** Process Engineer for Carbon Capture module studies in SBM Offshore, Netherlands (2014 Batch of Chemical Engineering)

Name of Faculty – **Prof. Anish P Jacob**



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.) , INDIA
A Govt. Aided UGC Autonomous Institute Affiliated to RGPV Bhopal
NAAC Accredited with A++ Grade

DEPARTMENT OF CHEMICAL ENGINEERING PRESENTS,

ALUMNI INTERACTION



Guest Speaker
Ms. Apoorva Vishwanath
Jr. Process Engineer for Carbon Capture module studies in SBM Offshore, Netherlands
(2014 Batch of Chemical Engineering)

You are cordially invited to attend the session and have fruitful interaction

Date: 09/03/2024
Time: 1PM Onwards
Google Meet Link to Attend :
<https://meet.google.com/qnz-munw-iae>

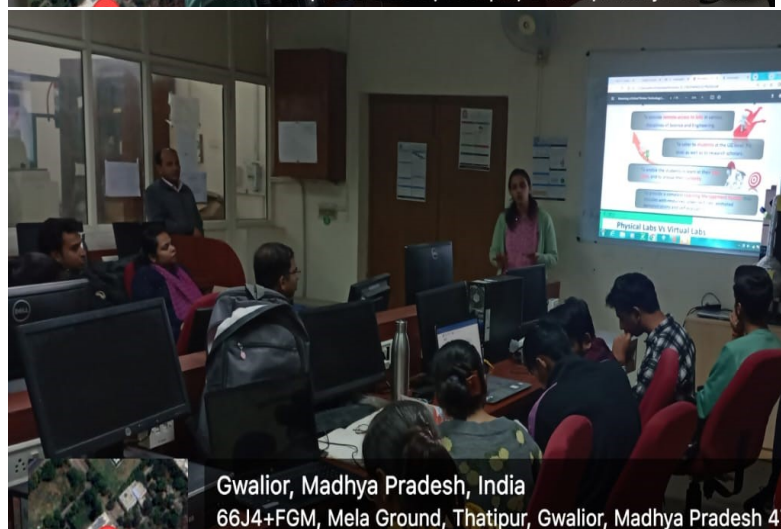


Prof. Anish P. Jacob
Coordinator
Dept. of Chemical engineering

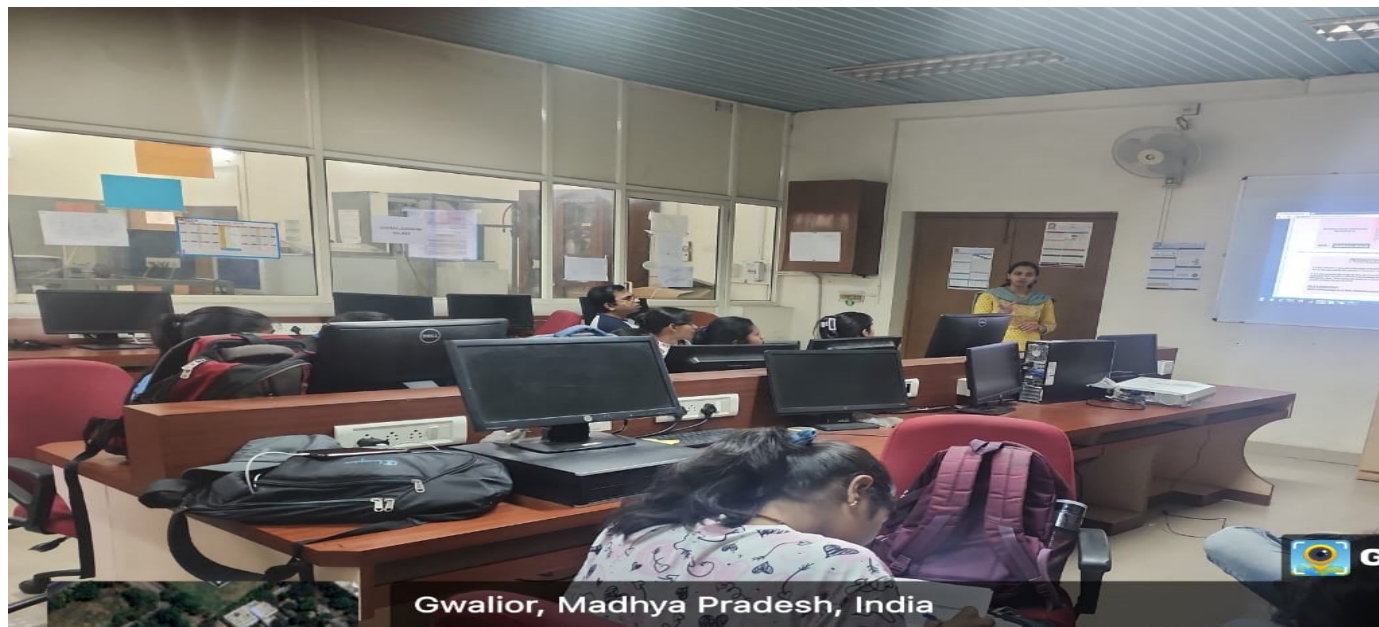
Student Coordinator
Contact:
Priyanshu Sharma 9302567224
Deepesh Sonowane 7224875857

2. Virtual Lab Workshop-I was organized for students of Chemical Engineering on 12th February 2024 in offline mode

Name of Faculty – **Prof. Shivangi Sharma**



3. Virtual Lab Workshop-II was organized for students of Chemical Engineering on 14th March 2024 in offline mode by **Prof. Shivangi Sharma**





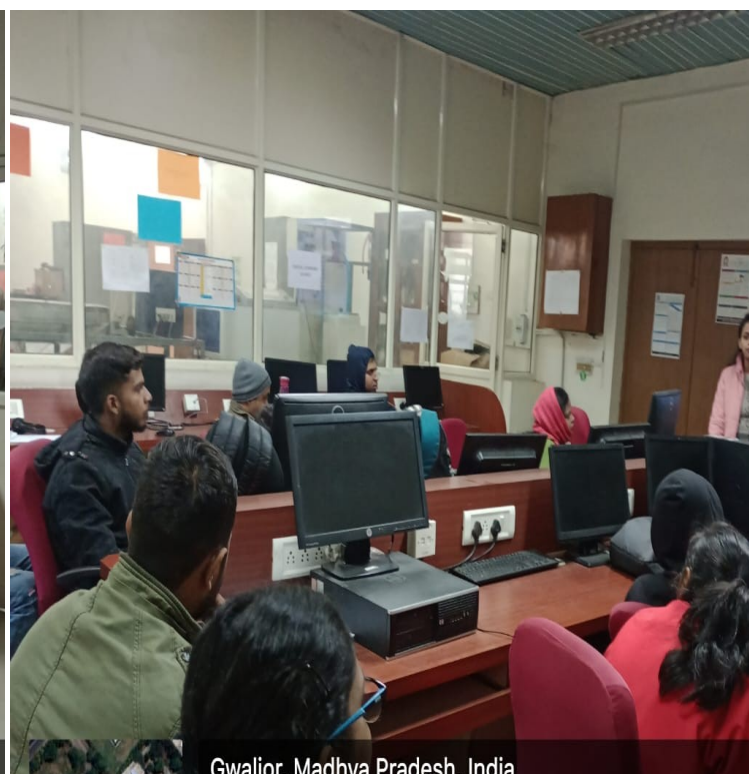
Gwalior, Madhya Pradesh, India



Gwalior, Madhya Pradesh, India

4. One Day Seminar on “Energy Saving Technologies in Chemical Engineering”, was organized on 11th March 2024 by **Prof. Shivangi Sharma**

5. One Day Seminar on “Chemical Process Intensification” was organized on 24th Jan 2024 by **Prof. Shivangi Sharma**



6. Model Making and presentation under NEC- Science & Technology Around Us on 19th April 2024 by
Prof .Shivangi Sharma



**NPTEL /ATAL/
COURSERA/
INTERNSHALA
COURSE
ATTENDED BY
THE FACULTY**

Courses	Name of Faculty	Details of Course
NPTEL COURSES	Prof. Anish P. Jacob	1. Got Elite certificate for completing 8 weeks NPTEL Course on “Corrosion Protection Methods” with 60 % during Jan - March 2024.
	Prof. Shivangi Sharma	1. Got Elite certificate for completing 8 weeks NPTEL Course on “Waste to Energy Conversion” with 75 % during Jan - March 2024.



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

ANISH P JACOB

for successfully completing the course

Corrosion Protection Methods

with a consolidated score of **60** %

Online Assignments	18.58/25	Proctored Exam	41.33/75
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Total number of candidates certified in this course: **20**

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Jan-Mar 2024

(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL24MM01S349300022

To verify the certificate



No. of credits recommended: 2 or 3



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

SHIVANGI SHARMA

for successfully completing the course

Waste to Energy Conversion



with a consolidated score of **75** %

Online Assignments	24.58/25	Proctored Exam	49.98/75
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Total number of candidates certified in this course: **924**

Prof. Kaushik Ghosh,
Professor (Chemistry)
Coordinator CEC

Jan-Mar 2024

(8 week course)

Prof. Ranjana Pathania,
Professor (BSBE)
Coordinator (NPTEL)



Indian Institute of Technology Roorkee



Roll No: NPTEL24CH29S449000924

To verify the certificate



No. of credits recommended: 2 or 3

**FDP/STC
ATTENDED
(OUTSIDE THE
INSTITUTE)**

Courses	Name of Faculty	Details of Course
FDP/STC ATTENDED BY NPTEL COURSE	Prof. Anish P. Jacob	1. Faculty Development Program certificate for completing NPTEL course (8 weeks) on Corrosion Protection Methods” with 60 % during Jan - March 2024.
	Prof Shivangi Sharma	1. NPTEL Faculty Development program on “Waste To Energy Conversion” (Jan-March 2024, 8 weeks) Elite 75%



NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

ANISH P JACOB

for successfully completing the course

Corrosion Protection Methods

with a consolidated score of **60 %**

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



(Jan-Mar 2024)

Roll No: NPTEL24MM01S349300022

Duration of NPTEL course : 8 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 16th Nov, 2023, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2023



NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

SHIVANGI SHARMA

for successfully completing the course

Waste to Energy Conversion

with a consolidated score of **75 %**

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



(Jan-Mar 2024)

Roll No: NPTEL24CH29S449000924

Duration of NPTEL course : 8 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 16th Nov, 2023, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2023

**Students’
achievement in
extracurricular
activity at
National or
International
level**

1. **Mr. Nishant Pathak**, final year student, secured AIR 52 in GATE 2024.
2. **Mr. Patanjali Shandilya**, final year student, secured AIR 383 in GATE 2024.
3. **Mr. Praveen Soni**, final year student, secured AIR 192 in GATE 2024.
4. **Mr. Deepesh Sonowane**, final year students, secured AIR 2822 in GATE 2024.
5. **Ms. Khushi Tiwari**, 3rd year student, secured AIR 1158 in GATE 2024.

Activities Organized (Workshop/Conference/FDP/STC/Webinar)

Report on Indian Knowledge System Workshop-

Under the National Education Policy, a workshop was organized on "Indian Knowledge (IKS)" under the National Education Policy on 26 February 2024. The main speaker of this workshop for two sessions was Professor Sadanand Sapre, who was a retired professor of Maulana Azad National Institute of Technology. Professor Sapre has taken voluntary retirement to serve the nation and society and is currently the national coordinator of Pragma Pravah and works for the spread of Indian life tradition. In the first session, faculties from various departments were present and in the second session, first year students were present.

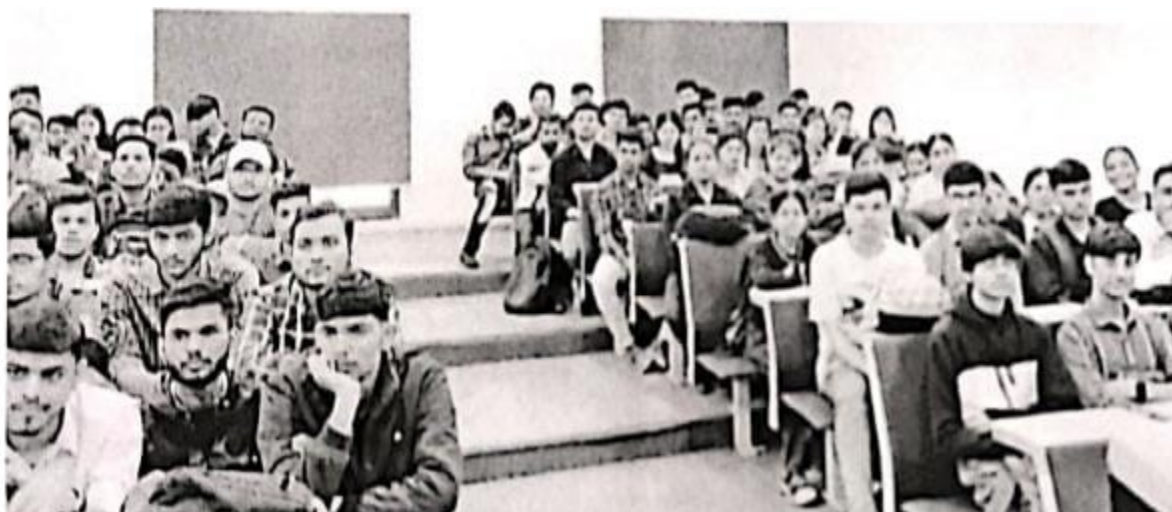
Dr. Manjari, Director-in-charge and **Dr. Rajeev Kansal**, Dean Student Welfare were mainly present in the program.

Coordinator - **Dr. Shourabh Singh Raghuwanshi**, **Dr. Chandrashekhar Malvi**

Dr. Sapre instructed the following key points:

1. Keep Indian Ancient books in the Library in the reference section.
2. Institute walls should have Indian Scientists photo with quotations
3. Discuss deeply about Macaulay's approach and English policy
4. Frame the syllabus including IKS
5. Develop IKS cell; refer (1)Ahmadabad university IKS cell, and (ii) NIT Calicut Mechanical professor is heading to that Cell
6. Porch should have Indian Eminent personalities
7. List latest contribution by Indian scientists from 100 years





INNOVATION INTRODUCE

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 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 social 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: Dr. Shourabh Singh Raghuwanshi

Composed by: Miss. Khushi Shrivastava (0901CM201022)
Mr. Shivam Yadav (0901CM201035)