

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
(Deemed to be University)
NAAC Accredited with A++ Grade
Chemical Engineering

Summary

Courses where revision was carried out*							
(Course/subject name)	Course Code	Year/Date of introduction	Year/Date of revision	Percentage of content added or replaced	Agenda Item No.	Page No.	Link of relevant documents/minutes
NIL							

Courses focusing on employability/entrepreneurship/ skill development*					
(Course/subject name)	Course Code	Activities/contents which have a bearing on increasing skill and employability	Agenda Item No.	Page No.	Link of relevant documents/minutes
Fluid Mechanics	3170311	Behavior of fluid under various forces, selection of proper fluid for various applications.	14	52	https://drive.google.com/file/d/1OgI0AI0b4_BFDWi8nmjVE8rCjZZ9_M8O/view?usp=sharing
Organic Process Technology	3170312	Process technologies of various organic process like pulp and paper, oil industry	14	53	https://drive.google.com/file/d/1OgI0AI0b4_BFDWi8nmjVE8rCjZZ9_M8O/view?usp=sharing
Chemical Engineering Thermodynamics	3170313	Define thermodynamic concept, Explains thermodynamics laws Equilibrium and phase rule Describe the PVT behaviour of pure substances Apply second law on various systems and define the 3rd law of thermodynamics	14	55	https://drive.google.com/file/d/1OgI0AI0b4_BFDWi8nmjVE8rCjZZ9_M8O/view?usp=sharing
Heat Transfer	3170314	Solving conduction, convection and radiation problems Design and analyze the performance of heat exchangers and evaporators	14	57	https://drive.google.com/file/d/1OgI0AI0b4_BFDWi8nmjVE8rCjZZ9_M8O/view?usp=sharing
Mass Transfer-II	2170512	Distillation concepts, Calculation of plates by McCabe Thiele, Ponchon-Savarit, Lewis-Sorel Types of Distillation	09	29	https://drive.google.com/file/d/1iBvwZXUMVvAYR5bLWqlg-UMc4Edpgpbi/view?usp=sharing
Chemical reaction Engineering-I	2170513	Calculation of depreciation, capitalized costs, present & future worth, Return on investment, cost indexes	09	31	https://drive.google.com/file/d/1iBvwZXUMVvAYR5bLWqlg-UMc4Edpgpbi/view?usp=sharing

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Process Engineering & Costing	2170515	thorough understanding of some important process industries (chloro-alkali, fertilizers, soaps and detergents, sugar manufacture, petroleum, paper and fermentation etc.)	09	35	https://drive.google.com/file/d/1iBvwZXUMVvAYR5bLWqlg-UMc4Edpgpbi/view?usp=sharing
Heterogeneous Reaction Systems	170723	Heterogeneous catalysis enables faster, large-scale production and the selective product formation	04	11	https://drive.google.com/file/d/1SrDJkqv-OZTdirBLjqTye5Taank1ncc/view?usp=sharing
Equilibrium Staged Operations	170722	Utilising Successive stages to enhance the separation like extraction of edible oil from soya beans	04	09	https://drive.google.com/file/d/1SrDJkqv-OZTdirBLjqTye5Taank1ncc/view?usp=sharing
Multi Component Distillation	170724	Permits separation of more than two components. Use of component or matrix tray efficiencies or the non equilibrium-stage model to estimate the number of stages.	04	13	https://drive.google.com/file/d/1SrDJkqv-OZTdirBLjqTye5Taank1ncc/view?usp=sharing
Chemical Process Safety	170761	Minimize the risks associated with chemical manufacturing, prevent accidents from occurring, and protect the health and safety of employees and the environment.	03	05	https://drive.google.com/file/d/12_wleRQnPMVtrLfzVxOXi0cj_lThb6za/view?usp=sharing
Sustainable Energy Technology	170762	Renewable in nature and offer less environmentally invasive ways to power the global community.	03	05	https://drive.google.com/file/d/12_wleRQnPMVtrLfzVxOXi0cj_lThb6za/view?usp=sharing
Chemical Process Intensification	170768	Application of intensified technologies in chemical processes.	03	05	https://drive.google.com/file/d/12_wleRQnPMVtrLfzVxOXi0cj_lThb6za/view?usp=sharing
Petroleum Reservoir Engineering	170765	Techniques of drilling wells on wider spacing, unitizing earlier, and recovering a greater percentage of the oil in place	03	05	https://drive.google.com/file/d/12_wleRQnPMVtrLfzVxOXi0cj_lThb6za/view?usp=sharing
Petroleum Technology	170766	Exploration, transportation and secondary conversion of petroleum and its related products	03	05	https://drive.google.com/file/d/12_wleRQnPMVtrLfzVxOXi0cj_lThb6za/view?usp=sharing

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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Fluidization Engineering	170767	Principles of fluidization phenomena and its practical aspects for industrial applications	03	05	https://drive.google.com/file/d/12_wleRQnPMVtrLfzVxOXi0cj_lThb6za/view?usp=sharing
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New Courses added*					
(Course/subject name)	Course Code	Activities/contents which have a bearing on increasing skill and employability	Agenda Item No.	Page No.	Link of relevant documents/minutes
Process Engineering & Costing	2170515	Calculation of depreciation, capitalized costs, present & future worth, Return on investment, cost indexes	09	35	https://drive.google.com/file/d/1iBvwZXUMVvAYR5bLWqlg-UMc4Edpgpbi/view?usp=sharing
Chemical Process Intensification	170768	Application of intensified technologies in chemical processes.	03	05	https://drive.google.com/file/d/12_wleRQnPMVtrLfzVxOXi0cj_lThb6za/view?usp=sharing
Fluidization Engineering	170767	Principles of fluidization phenomena and its practical aspects for industrial applications	03	05	https://drive.google.com/file/d/12_wleRQnPMVtrLfzVxOXi0cj_lThb6za/view?usp=sharing

Feedback on curriculum received from stakeholders: Analysis & ATR*

Stakeholder	Student	Faculty	Alumni	Employer
No. of responses	25	5	37	11
Link of Analysis	https://docs.google.com/spreadsheets/d/1H2WyfgwsxkQYLOmOlcsGP9oQMblC0HC7/edit?usp=sharing&oid=111501578212228138103&rtpof=true&sd=true	https://docs.google.com/spreadsheets/d/1pLeIg5YW8XvRB_RK9aQs5ZMGLP5_-GKh/edit?usp=sharing&oid=111501578212228138103&rtpof=true&sd=true	https://docs.google.com/spreadsheets/d/1-2-Elriv23WkMCFsjSnzGleIPIDVTRvq/edit?usp=drive_link&oid=115143136436263341879&rtpof=true&sd=true	https://docs.google.com/spreadsheets/d/1M VijPaaLWkCJV7ExmGgbXPsaEOfNoED/edit?usp=drive_link&oid=115143136436263341879&rtpof=true&sd=true
ATR Link	https://drive.google.com/file/d/1J3RU7yQ1cleTvQOj2sXpkzZ2q7MiEG2H/view?usp=drive_link	https://drive.google.com/file/d/1J3RU7yQ1cleTvQOj2sXpkzZ2q7MiEG2H/view?usp=drive_link	https://drive.google.com/file/d/1J3RU7yQ1cleTvQOj2sXpkzZ2q7MiEG2H/view?usp=drive_link	https://drive.google.com/file/d/1J3RU7yQ1cleTvQOj2sXpkzZ2q7MiEG2H/view?usp=drive_link

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Link showing Excel sheet of Google Form details of stakeholders	https://drive.google.com/drive/folders/1Iw6k8IQEdqZfZil_sT1rJIFhNu8SfxbZ?usp=sharing	https://drive.google.com/drive/folders/11ZM3_dvuagEv2QWzjJmqld8ZRd0AEW0m?usp=sharing	https://docs.google.com/spreadsheets/d/12yTvJLHt_Size_n-QBLQtpmEu7mb9WWXu/edit?usp=sharing&oid=106653567786604960031&rtpof=true&sd=true	https://docs.google.com/spreadsheets/d/1dkDszKQkdqe5NUGDM2puUaZaNCV-66Oj/edit?usp=sharing&oid=106653567786604960031&rtpof=true&sd=true
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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
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Department of Chemical Engineering
Minutes of BOS Meeting

Date: 27/05/2024

The BOS Meeting was held on 27th May 2024 through online mode on Google Meet from 12 Noon Onwards. During the meeting, following were present

External Members:-

1. Dr. Ashok Sharma, Professor, Department of Chemical Engg, UEC, Ujjain
(Expert nominated by the Vice Chancellor, RGPV)
2. Dr. Pankaj Tiwari, Associate Professor, Department of Chemical Engg., IIT Guwahati
(Expert nominated by the Academic Council)
3. Dr. Manish Vashishtha, Associate Professor, Department of Chemical Engg., MNIT Jaipur (Expert nominated by the Academic Council)
4. Mr. Rakesh Agrawal, Director, Myriadly Engineering and Business Solutions Pvt Ltd., Malanpur, Gwalior (Expert from Industry)

Internal Members:-

1. Prof. Anish P. Jacob, Assistant Professor & Co-ordinator, Dept. of Chemical Engg., MITS
2. Dr. Shourabh Singh Raghuwanshi, Assistant Professor, Dept. of Chemical Engg., MITS
3. Prof. Shivangi Sharma, Assistant Professor, Dept. of Chemical Engg., MITS

The following points were discussed and resolved & item wise discussion as follows:-

Item CM 1	To confirm the minutes of previous BoS meeting held in the month of December 2023. The minutes of the previous Board of studies (BoS) meeting held on 01 December 2023 (Through Google meet) were confirmed.
Item CM 2	To review and finalize the scheme structure of B.Tech. VII Semester with the provision of <i>Three (03) Departmental Electives (DEs) and Open Category (OC) Course. (Out of which One (01) Elective and 01 Open category course is to be offered in traditional mode and remaining Two (02) Departmental Electives are to be offered in online mode with credit transfer for the batch admitted in 2021-22.</i> Scheme structure of B.Tech. VII Semester with the provision of Three Departmental Electives (DEs) and One Open Category (OC) Course (in which two Departmental Elective is to be offered in online mode with credit transfer) for the batch admitted in 2021-22 has been proposed. https://drive.google.com/file/d/1E4gZyY_ZdYZs10HBvZ_OtrdfD0BfX34J/view?usp=sharing

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
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Item CM 3	To propose the list of courses which the students can opt from SWAYAM/NPTEL/MOOC based Platforms, to be offered in online mode for Two (02) Departmental Electives (DE) Course, with credit transfer in the B.Tech. VII Semester under the flexible curriculum (Batch admitted in 2021-22) The list of courses which the students can opt from SWAYAM/NPTEL/MOOC based Platforms, to be offered in online mode under Departmental Elective (DE) Course, with credit transfer in the B.Tech. VII Semester under the flexible curriculum (Batch admitted in 2021-22) were discussed and finalized. As per the following detail:- Elective- III, VII Semester through SWAYAM /NPTEL/MOOC (Online Mode) <table><tr><th>S.No.</th><th>Course Name</th><th>Course Code</th><th>Duration</th></tr><tr><td>1.</td><td>Chemical Process Safety</td><td>170761</td><td>12 Weeks</td></tr><tr><td>2.</td><td>Sustainable Energy Technology</td><td>170762</td><td>12 Weeks</td></tr><tr><td>3.</td><td>Fluidization Engineering</td><td>170767</td><td>12 Weeks</td></tr></table> Elective- IV, VII Semester through SWAYAM /NPTEL/MOOC (Online Mode) <table><tr><th>S.No.</th><th>Course Name</th><th>Course Code</th><th>Duration</th></tr><tr><td>1.</td><td>Chemical Process Intensification</td><td>170768</td><td>12 Weeks</td></tr><tr><td>2.</td><td>Petroleum Reservoir Engineering</td><td>170765</td><td>08 Weeks</td></tr><tr><td>3.</td><td>Petroleum Technology</td><td>170766</td><td>08 Weeks</td></tr></table>	S.No.	Course Name	Course Code	Duration	1.	Chemical Process Safety	170761	12 Weeks	2.	Sustainable Energy Technology	170762	12 Weeks	3.	Fluidization Engineering	170767	12 Weeks	S.No.	Course Name	Course Code	Duration	1.	Chemical Process Intensification	170768	12 Weeks	2.	Petroleum Reservoir Engineering	170765	08 Weeks	3.	Petroleum Technology	170766	08 Weeks
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Item CM 4	To prepare and finalize the syllabus of courses to be offered (<i>for batch admitted in 2021-22</i>) under Departmental Elective (DE) Course (in traditional mode) for B. Tech. VII Semester along with their Cos The syllabus of courses to be offered (<i>for batch admitted in 2021-22</i>) under Departmental Elective (DE) Course (in traditional mode) for B.Tech. VII Semester along with their Cos has been prepared and finalized. https://drive.google.com/file/d/19zablO30r9BajoojLDH46LuzyWIN9XhB/view?usp=sharing																																
Item CM 5	To prepare and finalize the syllabus of courses to be offered (<i>for batch admitted in 2021-22</i>) under the Open Category (OC) Courses (in traditional mode) for B.Tech. VII semester students of other departments along with their Cos The syllabus of courses to be offered (<i>for batch admitted in 2021-22</i>) under the Open Category (OC) Courses (in traditional mode) for B.Tech. VII semester students of other departments along with their COs have been prepared and finalized. https://drive.google.com/file/d/1V8KU_M9Rv29blgId3SmoFofeP4l2emv/view?usp=sharing																																
Item CM 6	To review and finalize the Experiment list/ Lab manual for Departmental Laboratory Course (DLC) to be offered in B. Tech. VII semester (<i>for batches admitted in 2021-22</i>) The Experiment list/ Lab manual for Departmental Laboratory Course (DLC) to be offered in B.Tech. VII semester (<i>for batches admitted in 2021-22</i>) were discussed and finalized. https://drive.google.com/file/d/18rmsiyb_hzbIEr1WpLAZvP39W7ZMUGOz/view?usp=sharing																																

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To propose the list of “Additional Courses” which can be opted for getting an

- (i) **Honours (for students of the host department)**
- (ii) **Minor Specialization (for students of other departments)**

These will be offered through SWAYAM/NPTEL/MOOC based Platforms for the B.Tech. **VII semester students** (for the batch admitted in 2021-22) and for B.Tech. **V semester** (for the batch admitted in 2022-23)

The list of “Additional Courses” which can be opted for getting an

- (i) Honours (for students of the host department)
- (ii) Minor Specialization (for students of other departments)

for the B.Tech. **VII semester students** (for the batch admitted in 2021-22)] and for B.Tech. **V semester** (for the batch admitted in 2022-23)]were proposed. The courses available on SWAYAM/NPTEL/MOOC based Platforms for the **V semester** and for VII Semester for Honours & Minor specialization were discussed & recommended are as follows:

List of Additional Courses to be offered in July-Dec .2024 (From SWAYAM/NPTEL)

S.No.	Purpose	Name of Course	Duration of the course in weeks
1	For Minor Specialization(Others Department) (VII Semester)	Fluidization Engineering	12 Weeks
		Polymers: concepts, properties, uses and sustainability	12 Weeks
		Transport Phenomena of Non-Newtonian Fluids	12 Weeks
2	For Minor Specialization (Others Department) (V Semester)	Heat Transfer	12 Weeks
		Chemical Reaction Engineering-I	12 Weeks
		Mechanical Unit Operations	12 Weeks

The details of Courses offered for **Honours (V Semester) track wise** for 2022 admitted students:

Track s --->		<u>Energy Engineering</u>	<u>Separation Processes</u>	<u>Unit Operations</u>	<u>Polymer Technology</u>	<u>Environmental Engineering</u>
S. No.		Courses	Courses	Courses	Courses	Courses
1		Artificial Lift (12 weeks)	Thermal Processing of Foods (12 weeks)	Rheology and Processing of Paints, Plastic and Elastomer Based Composites (08 weeks)	Introduction to Polymer Physics (12 weeks)	Basic Environmental Engineering and Pollution Abatement (12 weeks)
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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(Deemed to be University)

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		2	Energy Conversion Technologies (Biomass and Coal) (08 weeks)	Colloids and Surfaces (08 weeks)	Transport Phenomena of Non-Newtonian Fluids (12 weeks)	Polymer Process Engineering (12 weeks)	Trace And Ultra-Trace Analysis of Metals Using Atomic Absorption Spectrometry (08 weeks)
		3	Hydrogen Energy: Production, Storage, Transportation and Safety (12 weeks)			Polymers: Concepts, Properties, Uses and Sustainability (12 weeks)	

The details of Courses offered for **Honours (VII Semester)** track wise for 2021 admitted students:

Track s --->	<u>Energy Engineering</u>	<u>Separation Processes</u>	<u>Unit Operations</u>	<u>Polymer Technology</u>	<u>Environmental Engineering</u>
S. No.	Courses	Courses	Courses	Courses	Courses
1	Technologies for Clean and Renewable Energy Production (08 weeks)	Adsorption Science and Technology Fundamentals and Applications (08 weeks)	Solid – Fluid Operations (12 weeks)	Fundamentals of Protein Chemistry (12 weeks)	Environmental Chemistry (12 weeks)

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(Deemed to be University)

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		2	Enhanced Oil Recovery Techniques (12 weeks)	Thermal Operations in Food Process Engineering: Theory and Applications (12 weeks)	Principles of Downstream Techniques in Bioprocess (12 weeks)	Mechanical Behavior of Polymers and Composites (12weeks)	Environmental Modeling and Simulation (12weeks)
		3	Petroleum Formation Evaluation (12 weeks)				Municipal Solid Waste Management (12 weeks)
Item CM 8	To review and finalize the <i>scheme structure of B.Tech. V Semester under</i> the flexible curriculum (<i>Batch admitted in 2022-23</i>) The <i>scheme structure of B.Tech. V Semester under</i> the flexible curriculum (Batch admitted in 2022-23)has been prepared. https://drive.google.com/file/d/13Hx5xvT3xxP9rcYgCF8t1FNzpLweYLDn/view?usp=sharing						
Item CM 9	To review and finalize the syllabi for all <i>Departmental Core (DC) Courses</i> of B. Tech. <i>V Semester (for batch admitted in 2022-23)</i> under the flexible curriculum along with their COs. The syllabi for all <i>Departmental Core (DC) Courses</i> of B.Tech. <i>V Semester (for batch admitted in 2022-23)</i> under the flexible curriculum along with their Cos were discussed & prepared. https://drive.google.com/file/d/1-gzi6rO6uesGnrN-niL_MOnmNgTm5pG/view?usp=sharing						
Item CM 10	To review and recommend the Experiment list/ Lab manual for all the Laboratory Courses to be offered in B. Tech. <i>V Semester (for batch admitted in 2022-23)</i> The Experiment list/ Lab manual for all the Laboratory Courses to be offered in B.Tech.V semester (<i>for batch admitted in 2022-23</i>) have been prepared. https://drive.google.com/file/d/1AkkZ4b132QzGrFOgLPTe3dEdwU_1iJXE/view?usp=sharing						
Item CM 11	To review and recommend the list of projects which can be assigned under the ‘Skill based mini-project’ category in various laboratory components based courses to be offered in B.Tech. <i>V Semester (for the batch admitted in 2022-23)</i> . The list of projects which can be assigned under the ‘Skill based mini-project’ category in various laboratory components based courses to be offered in B.Tech. <i>V Semester (for the batch admitted in 2022-23)</i> have been prepared. https://drive.google.com/file/d/1ZdMVUwSRE16tg3geZJ89LIY8JMv7X8sd/view?usp=sharing						

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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Item CM 12	To propose the list of courses from SWAYAM/NPTEL/MOOC Platforms to be offered (<i>for batch admitted in 2022-23</i>) in online mode under Self-Learning/ Presentation , in the B.Tech. V Semester . The list of courses from SWAYAM/NPTEL/MOOC Platforms to be offered (for batch admitted in 2022-23) in online mode under Self-Learning/ Presentation , in the B.Tech. V Semester was proposed.			
	Tentative list of Seminar/Self Study Courses V Semester			
	S.No.	Course Name (From SWAYAM/NPTEL)	Semester	Name of Faculty
	1	Natural Gas Engineering (8 weeks)	V Sem	Prof. Shivangi Sharma
	2	Body Language: Key To Professional Success (4 weeks)		
3.	Moral Thinking: An Introduction To Values And Ethic (4 weeks)			
Item CM 13	To review and finalize the <i>scheme structure of B.Tech. III Semester under</i> the flexible curriculum (<i>Batch admitted in 2023-24</i>) The <i>scheme structure of B.Tech. III Semester under</i> the flexible curriculum (<i>Batch admitted in 2023-24</i>) was reviewed and finalized. https://drive.google.com/file/d/1dBblVrHXTS5QcgaroBU9O98CTqE04DF/view?usp=sharing			
Item CM 14	To review and finalize the syllabi for all Departmental Core (DC) Courses of B. Tech. III Semester (for batch admitted in 2023-24) under the flexible curriculum along with their COs. The Syllabi for all Departmental Core (DC) Courses of B. Tech. III Semester (for batch admitted in 2023-24) under the flexible curriculum along with their Cos were reviewed and finalized. https://drive.google.com/file/d/1OgI0AI0b4_BFDWi8nmjVE8rCjZZ9_M8O/view?usp=sharing			
Item CM 15	To review and recommend the list of experiments and skill-based mini projects of B.Tech. III semester (for batch admitted in 2023-24) The list of experiments and skill based mini projects for various laboratory courses to be offered in III Semester (for the batch admitted in 2023-24) were reviewed, prepared & finalized. https://drive.google.com/file/d/1Z_cNfdyKx1sgdKm7GRW7bq-T3pIRI2xJ/view?usp=sharing			
Item CM 16	To propose the list of courses from SWAYAM/NPTEL/MOOC Platforms to be offered in the B.Tech .III Semester (<i>for batches admitted in 2023-24</i>) in online mode under Self-Learning/ Presentation . The list of courses from SWAYAM/NPTEL/MOOC Platforms to be offered (for batches admitted in 2023-24) in online mode under Self-Learning/ Presentation , in the III Semester has been proposed. Tentative list of Seminar/Self Study Courses in III			
	S.No.	Course Name (From SWAYAM/NPTEL)	Semester	Name of Faculty
	1	Ethics in Engineering Practice (8 weeks)	III Sem	Prof. Swati Gupta
	2	Mechanical Operations (4 weeks)		
	3	Water, Society & Sustainability(4 weeks)		

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Item CM 17	To review and recommend the <i>Scheme structure & Syllabi</i> of PG Programme (M.E./M.Tech./MCA/MBA) along with their Course Outcomes (COs) This item is NOT APPLICABLE in Chemical Engineering Department
Item CM 18	To review and recommend the <i>Scheme structure and Syllabus</i> of Ph.D. Course Work (specific to Doctoral Research Scholars, if any) This item is NOT APPLICABLE in Chemical Engineering Department
Item CM 19	To review the CO attainments, to identify gaps and to suggest corrective measures for the improvement in the CO attainment levels for all the courses taught during July-Dec 2023 session. The CO attainments have been reviewed; gaps identified and corrective measures for the improvement in the CO attainment levels have been suggested for July-Dec 2023. https://drive.google.com/file/d/15neqQzjOWRkLbsDpsPOB_mi_vU1AQDZB/view?usp=sharing
Item CM 20	To review the PO attainments levels and suggest the actions to be taken for improvement in PO attainment The PO attainment levels have been reviewed and actions to be taken for improvement in PO attainment have been suggested. https://drive.google.com/file/d/1sG_Gt2U7a9KP8n5uvSKolxORphY7N5r2/view?usp=sharing
Item CM 21	To review and finalize the CO-PO mapping matrix for all the courses to be taught in July-Dec 2024. The CO-PO mapping matrix for all the courses to be taught in July-Dec 2024 have been reviewed and finalized. https://drive.google.com/file/d/1mhJAQwTUIpJDEHCVsCepqkzQViiYyqbW/view?usp=sharing
Item CM 22	To review curricula feedback from various stakeholders, its analysis and impact. The curricula feedback from various stakeholders, its analysis and impact has been reviewed. https://drive.google.com/file/d/1J3RU7yQ1cleTvQOj2sXpkzZ2q7MiEG2H/view?usp=sharing
Item CM 23	Any other matter As per the instructions received from the Dean (Academics), the SWAYAM-NPTEL course on “ Natural Hazards ” was included as an Open course (OC-3) in the B. Tech. VIII Semester, Chemical Engineering scheme for the 2020 admitted students only for B. Tech Civil Engg students during the Jan – June 2024 semester.

The meeting ended with the vote of thanks to all the members

Suggestion & Comments

1. The experts suggested that the Summer Internship Program – III (SIP-III)/Industrial Training evaluation to be done through PPT presentation followed by Viva and report submission.
2. The experts appreciated the proposed scheme and were satisfied with the list of Electives, Open courses and the Core courses included in the curriculum.



Prof. Anish P. Jacob
(Assistant Prof. & Coordinator)