

Department of Chemical Engineering Minutes of BOS Meeting

Date: 08/06/2022

The BOS Meeting was held on 7th June 2022 through online on Google Meet at 3:00 PM 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)

External Invitees:-

1. Dr. Sarita Sharma, Professor, Department of Chemical Engg, UEC, Ujjain
(Subjects Expert)
2. Dr. Bidyut Mazumdar, Associate Professor, Department of Chemical Engg., NIT Raipur
(Subjects Expert)

Internal Members:-

1. Prof. Swati Gupta, Assistant Professor & Co-ordinator, Dept. of Chemical Engg., MITS
2. Prof. Anish P. Jacob, Assistant Professor, Dept. of Chemical Engg., MITS
3. Dr. Shourabh Singh Raghuvanshi, Assistant Professor, Dept. of Chemical Engg., MITS
4. Dr. R.K. Dubey, 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 2021. The minutes of previous meeting Board of studies (BoS) held on 22 December 2021 (Through Google meet) were confirmed.
Item CM 2	To prepare and finalize the scheme structure of B.Tech. VII Semester with the provision of <i>Two Departmental Electives (DEs) and Two Open Category (OC) Course (in which one Departmental Elective is to be offered in online mode with credit transfer)</i> for the batch admitted in 2019-20. Scheme structure of B.Tech. VII Semester with the provision of <i>Two Departmental Electives (DEs) and Two Open Category (OC) Course (in which one Departmental Elective is to be offered in online mode with credit transfer)</i> for the batch admitted in 2019-20 has been proposed.
Item CM 3	To prepare and finalize the syllabus of courses to be offered (<i>for batch admitted in 2019-20</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 2019-20</i>) under Departmental Elective (DE) Course (in traditional mode) for B.Tech. VII Semester along with their Cos has been prepared and finalized.
Item CM 4	To propose 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 2019-20) 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 2019-20) were discussed and finalized. As per the following detail:-

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Elective- IV, VII Semester through SWAYAM /NPTEL/MOOC (Online Mode)											
	S.No.	Course Name	Course Code								
	1.	Chemical Process Safety	170752								
	2.	Energy conservation and waste heat recovery	170754								
	3.	Principles and Practices of Process Equipment and Plant Design	170755								
Item CM 5	<p>To prepare and finalize the syllabus of courses to be offered (<i>for batch admitted in 2019-20</i>) under the Open Category (OC) Courses (in traditional mode) for B.Tech. VII semester students of other departments along with their Cos</p> <p>The syllabus of courses to be offered (<i>for batch admitted in 2019-20</i>) under the Open Category (OC) Courses (in traditional mode) for B.Tech. VII semester students of other departments along with their Cos has been prepared and finalized .</p>										
Item CM 6	<p>To prepare 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 2019-20</i>)</p> <p>The Experiment list/ Lab manual for Departmental Laboratory Course (DLC) to be offered in B.Tech. VII semester (<i>for batches admitted in 2019-20</i>) were discussed and finalized.</p>										
Item CM 7	<p>To propose the list of “Additional Courses” which can be opted for getting an</p> <p style="margin-left: 20px;">(i) Honours (for students of the host department)</p> <p style="margin-left: 20px;">(ii) Minor Specialization (for students of other departments)</p> <p>[These will be offered through SWAYAM/NPTEL/MOOC based Platforms for the B.Tech. VII semester students (for the batch admitted in 2019-20)] and for B.Tech. V semester (for the batch admitted in 2020-21)]</p> <p>The list of “Additional Courses” which can be opted for getting an</p> <p style="margin-left: 20px;">(i) Honours (for students of the host department)</p> <p style="margin-left: 20px;">(ii) Minor Specialization (for students of other departments)</p> <p>for the B.Tech. VII semester students (for the batch admitted in 2019-20)] and for B.Tech. V semester (for the batch admitted in 2020-21)] were proposed.</p> <p>The courses available on SWAYAM/NPTEL/MOOC based Platforms for the V semester and for</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 15%;">S.No.</th> <th style="width: 25%;">Purpose</th> <th style="width: 45%;">Name of Course</th> <th style="width: 15%;">Duration of the</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p style="text-align: center; margin-top: 20px;">VII Semester for Honours & Minor specialization were discussed & recommended are as follows</p>			S.No.	Purpose	Name of Course	Duration of the				
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	1	For Honours(VII Semester)	Colloids and Surfaces	8 Week
			Trace and ultra-trace analysis of metals using atomic absorption spectrometry	8 Week
			Heat Exchangers: Fundamentals and Design Analysis	12 Week
	2.	For Minor Specialization(Others Department) (VII Semester)	Fluidization Engineering	12 Week
			Polymers: concepts, properties, uses and sustainability	12 Week
			Transport Phenomena of Non-Newtonian Fluids	12 Week
	3.	For Honours(V Semester)	Technologies For Clean And Renewable Energy Production	8 Week
			Chemical Process Intensification	12 Week
			Basic Environmental Engineering and Pollution Abatement	12 Week
	4.	For Minor Specialization (Others Department) (V Semester)	Heat Transfer	12 Week
			Chemical Reaction Engineering-I	12 Week
			Mechanical Unit Operations	12 Week
Item CM 8	To prepare and recommend the <i>scheme structure of B.Tech. V Semester under the flexible curriculum (Batch admitted in 2020-21)</i> The <i>scheme structure of B.Tech. V Semester under the flexible curriculum (Batch admitted in 2020-21)</i> has been prepared.			
Item CM 9	To prepare and recommend the syllabi for all <i>Departmental Core (DC) Courses</i> of B.Tech. <i>V Semester (for batch admitted in 2020-21)</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 2020-21)</i> under the flexible curriculum along with their Cos were discussed & prepared.			
Item CM 10	To prepare and recommend the Experiment list/ Lab manual for all the Laboratory Courses to be offered in B.Tech.V semester <i>(for batch admitted in 2020-21)</i> The Experiment list/ Lab manual for all the Laboratory Courses to be offered in B.Tech.V semester <i>(for batch admitted in 2020-21)</i> has been prepared.			
Item CM 11	To prepare and recommend the suggestive list of projects which can be assigned under the 'Skill based mini-project' category in various laboratory component based courses to be offered in B.Tech. V Semester <i>(for the batch admitted in 2020-21)</i> . The suggestive list of projects which can be assigned under the 'Skill based mini-project' category in various laboratory component based courses to be offered in B.Tech. V Semester <i>(for the batch admitted in 2020-21)</i> were prepared and recommended.			

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Item CM 12	<p>To propose the list of courses from SWAYAM/NPTEL/MOOC Platforms to be offered (<i>for batch admitted in 2020-21</i>) in online mode under Self-Learning/ Presentation, in the B.Tech. V Semester</p> <p>The list of courses from SWAYAM/NPTEL/MOOC Platforms to be offered (<i>for batch admitted in 2020-21</i>) in online mode under Self-Learning/ Presentation, in the B.Tech. V Semester were proposed.</p> <p>Tentative list of Seminar/Self Study Courses V Semester</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr style="background-color: #d9e1f2;"> <th style="width: 10%;">S.No.</th> <th style="width: 40%;">Course Name (From SWAYAM/NPTEL)</th> <th style="width: 15%;">Semester</th> <th style="width: 35%;">Name of Faculty</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Natural Gas Engineering</td> <td style="text-align: center;">V Sem</td> <td rowspan="2" style="text-align: center; vertical-align: middle;">Prof. Anish P. Jacob</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Biomedical & Nano-Technology</td> <td style="text-align: center;">V Sem</td> </tr> </tbody> </table>				S.No.	Course Name (From SWAYAM/NPTEL)	Semester	Name of Faculty	1	Natural Gas Engineering	V Sem	Prof. Anish P. Jacob	2	Biomedical & Nano-Technology	V Sem
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1	Natural Gas Engineering	V Sem	Prof. Anish P. Jacob												
2	Biomedical & Nano-Technology	V Sem													
Item CM 13	<p>To prepare and recommend the Scheme & Syllabi (along with the Course Outcomes) of B.Tech. III semester of the newly started B. Tech. programmes in the emerging areas (AI & ML, AI & DS, CSD) (started from 2021-22 Session)</p> <p>This item is NOT APPLICABLE in Chemical Engineering Department</p>														
Item CM 14	<p>To prepare and recommend the list of experiments and skill based mini projects of B.Tech.III semester of the newly started B. Tech. programmes in the emerging areas (AI & ML, AI & DS, CSD) (started from 2021-22 Session)</p> <p>This item is NOT APPLICABLE in Chemical Engineering Department</p>														
Item CM 15	<p>To review, prepare, finalize and recommend the Scheme & Syllabi (along with the Course Outcomes) of III semester B. Tech. programmes (batch admitted 2021-22 Session)</p> <p>The Scheme & Syllabi (along with the Course Outcomes) of III semester B. Tech. programmes (batch admitted 2021-22 Session) were reviewed and finalized.</p>														
Item CM 16	<p>To review, prepare, finalize and recommend the list of experiments/ Lab manual and skill based mini projects for various laboratory courses to be offered in III Semester (<i>for the batch admitted in 2021-22</i>).</p> <p>The list of experiments/ Lab manual and skill based mini projects for various laboratory courses to be offered in III Semester (<i>for the batch admitted in 2021-22</i>) were reviewed , prepared & finalized.</p>														
Item CM 17	<p>To propose the list of courses from SWAYAM/NPTEL/MOOC Platforms to be offered (<i>for batches admitted in 2021-22</i>) in online mode under Self-Learning/ Presentation, in the III Semester.</p> <p>The list of courses from SWAYAM/NPTEL/MOOC Platforms to be offered (<i>for batches admitted in 2021-22</i>) in online mode under Self-Learning/ Presentation, in the III Semester has been proposed.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr style="background-color: #d9e1f2;"> <th style="width: 10%;">S.No.</th> <th style="width: 40%;">Course Name (From SWAYAM/NPTEL)</th> <th style="width: 15%;">Semester</th> <th style="width: 35%;">Name of Faculty</th> </tr> </thead> <tbody> </tbody> </table>				S.No.	Course Name (From SWAYAM/NPTEL)	Semester	Name of Faculty							
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	1	Energy Economics And Policy	III Sem	Dr. Shourabh Singh Raghuwanshi
	2	Mechanical Operation	III Sem	
	3	Water Society And Sustainability	III Sem	
Item CM 18	To review the <i>Scheme & Syllabi, list of experiments and skill based mini projects of First semester of the B. Tech. programmes (for the batch 2022-23).</i> 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 (i) I year November 2021 – February 2022Semester (ii) July-December 2021 Session for II to IV year students. The CO attainments, to identify gaps and to suggest corrective measures for the improvement in the CO attainment levels for (i) I year November 2021 – February 2022Semester (ii) July-December 2021 Session for II to IV year students has been reviewed.			
Item CM 20	To review PO attainment of 2017-2021 batch, CO-PO mapping matrix with attainments and gap analysis The PO attainment of 2017-2021 batch, CO-PO mapping matrix with attainments and gap analysis has been reviewed.			
Item CM 21	To review curricula feedback from various stakeholders, its analysis and impact {Stakeholder feedback analysis must also contain an Action Taken Report (ATR) and the details/data of the stakeholders who have responded through GOOGLE form (such as Name, organization, mail id, phone no., if available) must also be shared along with the feedback of the alumni/employer} The curricula feedback from various stakeholders, its analysis and impact has been done & reviewed.			
Item CM 22	To review the Course Outcomes (COs) feedback of various courses, its analysis, and ATR. The Course Outcomes (COs) feedback of various courses, its analysis, and ATR has been Reviewed.			

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

Suggestion & Comment

1. The experts suggested to including some open source software in the VII semester, Process Computational lab.
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.

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(Assistant Prof. & Coordinator)