

## Department of Chemical Engineering Minutes of BOS Meeting

Date: 22/12/2021

The BOS Meeting was held on 22 December 2021 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)**
2. Dr. Manish Vashishtha, Associate Professor, Department of Chemical Engg, MNIT Jaipur  
**(Subjects Expert from outside RGPV nominated by Academic Council)**
3. Ms. Priyanka Jain , Production Engineer, Mathura Refinery, Mathura (U.P)  
**(Meritorious Alumna)**

### 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. Suneeta Kumari, Assistant Professor, Dept. of Chemical Engg., MITS
5. Dr. R.K. Dubey, Assistant Professor, Dept. of Chemical Engg., MITS

### The following points were discussed and resolved:

The minutes of previous meeting Board of studies (BoS) held on 8<sup>th</sup> June 2021 (Through Google meet) were confirmed, followed by the item wise discussion as follows :-

<b>Item CM 1</b>	<p>To propose the <b>scheme structure of VIII Semester</b> with the provision of Two Departmental Electives and one Open Category (OC) Course, <b>to be offered in online mode</b> with credit transfer for the batch admitted in 2018-19.</p> <p><b>The Scheme structure of VIII Semester</b> with the provision of Two Departmental Electives and one Open Category (OC) Course <b>to be offered in online mode</b> with credit transfer for the batch admitted in 2018-19 has been proposed.</p> <p><a href="https://drive.google.com/file/d/15KjkwD0owSEAG2BN0LexA2bNissr4aOG/view?usp=sharing">https://drive.google.com/file/d/15KjkwD0owSEAG2BN0LexA2bNissr4aOG/view?usp=sharing</a></p>
<b>Item CM 2</b>	<p>To propose the list of courses which the students can opt from SWAYAM/NPTEL/ other MOOC Platforms/ Institution (MITS) MOOC, to be offered in <b>online mode under Departmental Elective (DE) category</b>, for credit transfer in the <b>VIII Semester</b> under the flexible curriculum (Batch admitted in 2018-19)</p> <p>The list of DE -V &amp; DE-VI courses which the students can opt from SWAYAM/NPTEL/ other MOOC Platforms/ Institution (MITS) MOOC, to be offered in <b>online mode under Departmental Elective (DE) category</b>, for credit transfer in the <b>VIII Semester</b> under the flexible curriculum (Batch admitted in 2018-19) were discussed and finalized.</p>

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	<p>As per the following detail:-</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #d9e1f2;"> <th style="width: 50%;">DE-V</th> <th style="width: 50%;">DE-VI</th> </tr> </thead> <tbody> <tr> <td> <ol style="list-style-type: none"> <li>1. Optimization in Chemical Engg.(170851)</li> <li>2. Waste to Energy Conversion (170852)</li> <li>3. Biomass Conversion and Biorefinery(170853)</li> </ol> </td> <td> <ol style="list-style-type: none"> <li>1. Physico-chemical processes for wastewater treatment (170854)</li> <li>2. Chemical Process Utilities (170855)</li> </ol> </td> </tr> </tbody> </table>	DE-V	DE-VI	<ol style="list-style-type: none"> <li>1. Optimization in Chemical Engg.(170851)</li> <li>2. Waste to Energy Conversion (170852)</li> <li>3. Biomass Conversion and Biorefinery(170853)</li> </ol>	<ol style="list-style-type: none"> <li>1. Physico-chemical processes for wastewater treatment (170854)</li> <li>2. Chemical Process Utilities (170855)</li> </ol>
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<b>Item CM 3</b>	<p>To propose the list of courses which the students can opt from SWAYAM/NPTEL/MOOC Platform, to be offered in <b>online mode from</b> SWAYAM/NPTEL/MITS MOOCs/ other MOOC Platforms) <b>under Open Category (OC)</b> Courses, for credit transfer in the <b>VIII Semester under</b> the flexible curriculum (Batch admitted in 2018-19)</p> <p>The list of courses which the students can opt from SWAYAM/NPTEL/MOOC Platform, to be offered in <b>online mode from</b> SWAYAM/NPTEL/MITS MOOCs/ other MOOC Platforms) <b>under Open Category (OC)</b> Courses, for credit transfer in the <b>VIII Semester under</b> the flexible curriculum (Batch admitted in 2018-19) has been discussed and finalised ,As per the following detail:-</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #d9e1f2;"> <th style="width: 100%;">OC-IV</th> </tr> </thead> <tbody> <tr> <td> <ol style="list-style-type: none"> <li>1. Environmental Quality Monitoring &amp; Analysis 900623</li> <li>2. Electrochemical Technology in Pollution Control 900624</li> </ol> </td> </tr> </tbody> </table>	OC-IV	<ol style="list-style-type: none"> <li>1. Environmental Quality Monitoring &amp; Analysis 900623</li> <li>2. Electrochemical Technology in Pollution Control 900624</li> </ol>		
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<b>Item CM 4</b>	<p>To propose the course and syllabi of MITSMOOC Course along with the Course Outcomes for credit transfer in the VIII Semester under the flexible curriculum (Batch admitted in 2018-19)</p>				

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<b>Item CM 5</b>	<p>To propose the list of “Additional Courses” which can be opted for getting an</p> <p><b>(i) Honours (for students of the host department)</b>  <b>(ii) Minor Specialization (for students of other departments)</b></p> <p>[These will be offered through SWAYAM/NPTEL/MOOC based Platforms for the <b>VI semester</b> (for the batch admitted in 2019-20) and for <b>VIII semester students</b> (for the batch admitted in 2018-19)]</p> <p>The List of “Additional Courses” which can be opted for getting an</p> <p><b>(i) Honours (for students of the host department)</b>  <b>(ii) Minor Specialization (for students of other departments)</b></p> <p>[These will be offered through SWAYAM/NPTEL/MOOC based Platforms for the <b>VI semester</b> (for the batch admitted in 2019-20) and for <b>VIII semester students</b> (for the batch admitted in 2018-19)]</p> <p><b>The courses available on SWAYAM/NPTEL/MOOC based Platforms for the VI semester and for VIII Semester for Honours &amp; Minor specialization were discussed &amp; recommended are as follows</b></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr style="background-color: #f4a460;"> <th style="width: 10%;">S.No.</th> <th style="width: 20%;">Purpose</th> <th style="width: 70%;">Name of Course</th> </tr> </thead> <tbody> <tr style="background-color: #c6e0b4;"> <td rowspan="3" style="text-align: center; vertical-align: middle;">1</td> <td rowspan="3" style="text-align: center; vertical-align: middle;">For Honours (VIII Semester)</td> <td>Computer Aided Applied Single Objective Optimization</td> </tr> <tr style="background-color: #c6e0b4;"> <td>Polymer Reaction Engineering</td> </tr> <tr style="background-color: #c6e0b4;"> <td>Advanced Thermodynamics and Molecular Simulations</td> </tr> <tr style="background-color: #c6e0b4;"> <td rowspan="3" style="text-align: center; vertical-align: middle;">2.</td> <td rowspan="3" style="text-align: center; vertical-align: middle;">For Minor Specialization (Others Department) (VIII Semester)</td> <td>Transport Processes I: Heat and Mass Transfer</td> </tr> <tr style="background-color: #c6e0b4;"> <td>Chemical Engineering Thermodynamics</td> </tr> <tr style="background-color: #c6e0b4;"> <td>Chemical Process Instrumentation</td> </tr> <tr style="background-color: #e6b4a4;"> <td rowspan="4" style="text-align: center; vertical-align: middle;">3.</td> <td rowspan="4" style="text-align: center; vertical-align: middle;">For Honours (VI Semester)</td> <td>Environmental Quality Monitoring &amp; Analysis</td> </tr> <tr style="background-color: #e6b4a4;"> <td>Electrochemical Technology in Pollution Control</td> </tr> <tr style="background-color: #e6b4a4;"> <td>Soft Nano Technology</td> </tr> <tr style="background-color: #e6b4a4;"> <td>Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems</td> </tr> <tr style="background-color: #e6b4a4;"> <td rowspan="3" style="text-align: center; vertical-align: middle;">4.</td> <td rowspan="3" style="text-align: center; vertical-align: middle;">For Minor Specialization (Others Department) (VI Semester)</td> <td>Process Control - Design, Analysis and Assessment</td> </tr> <tr style="background-color: #e6b4a4;"> <td>Membrane Technology</td> </tr> <tr style="background-color: #e6b4a4;"> <td>Basic Principles and Calculations in Chemical Engineering</td> </tr> </tbody> </table>	S.No.	Purpose	Name of Course	1	For Honours (VIII Semester)	Computer Aided Applied Single Objective Optimization	Polymer Reaction Engineering	Advanced Thermodynamics and Molecular Simulations	2.	For Minor Specialization (Others Department) (VIII Semester)	Transport Processes I: Heat and Mass Transfer	Chemical Engineering Thermodynamics	Chemical Process Instrumentation	3.	For Honours (VI Semester)	Environmental Quality Monitoring & Analysis	Electrochemical Technology in Pollution Control	Soft Nano Technology	Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems	4.	For Minor Specialization (Others Department) (VI Semester)	Process Control - Design, Analysis and Assessment	Membrane Technology	Basic Principles and Calculations in Chemical Engineering
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<b>Item CM 6</b>	<p>To review and finalize the syllabi for all <b>Departmental Core (DC) Courses of VI Semester (for batches admitted in 2019-20)</b> under the flexible curriculum along with their COs</p> <p>The <b>Departmental Core (DC) Courses of VI Semester (for batches admitted in 2019-20)</b> under the flexible curriculum along with their COs has been reviewed and finalized.</p> <p><a href="https://drive.google.com/file/d/1J91m1DJKTbXYezv3bgt2XyeisITrKFd/view?usp=sharing">https://drive.google.com/file/d/1J91m1DJKTbXYezv3bgt2XyeisITrKFd/view?usp=sharing</a></p>																								

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<b>Item CM 7</b>	<p>To review and finalize the courses &amp; syllabi to be offered <b>(for batches admitted in 2019-20)</b> under <b>Departmental Elective (DE) Courses</b> in the <b>VI Semester</b></p> <p>The courses &amp; syllabi to be offered <b>(for batches admitted in 2019-20)</b> under <b>Departmental Elective (DE) Courses</b> in the <b>VI Semester</b> were reviewed and finalized. As per the following detail:-</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">DE Courses</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">170611</td> <td>Process Equipment Design</td> </tr> <tr> <td style="text-align: center;">170612</td> <td>Fluidization Engineering</td> </tr> <tr> <td style="text-align: center;">170613</td> <td>Multi-Component Distillation</td> </tr> <tr> <td style="text-align: center;">170614</td> <td>Polymer Technology</td> </tr> <tr> <td style="text-align: center;">170615</td> <td>Heterogeneous Reaction Systems</td> </tr> </tbody> </table> <p><a href="https://drive.google.com/file/d/1SE3Jvs77Tkpg9hyW8QQWTuxQFsXkKYO2/view?usp=sharing">https://drive.google.com/file/d/1SE3Jvs77Tkpg9hyW8QQWTuxQFsXkKYO2/view?usp=sharing</a></p>	DE Courses		170611	Process Equipment Design	170612	Fluidization Engineering	170613	Multi-Component Distillation	170614	Polymer Technology	170615	Heterogeneous Reaction Systems
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<b>Item CM 8</b>	<p>To propose the list of courses from SWAYAM/NPTEL/MOOC Platforms to be offered <b>(for batches admitted in 2019-20)</b> in online mode under <b>Departmental Elective (DE) Courses</b> with credit transfer, in the <b>VI Semester</b></p> <p>The list of courses from SWAYAM/NPTEL/MOOC Platforms to be offered <b>(for batches admitted in 2019-20)</b> in online mode under <b>Departmental Elective (DE) Courses</b> with credit transfer, in the <b>VI Semester</b> were proposed. As per the following detail:-</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">DE Course (Online Mode)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Physical and Electrochemical Characterizations in Chemical Engineering</td> </tr> <tr> <td style="text-align: center;">2.</td> <td>Membrane Technology</td> </tr> <tr> <td style="text-align: center;">3.</td> <td>Multiphase Flow</td> </tr> </tbody> </table>	DE Course (Online Mode)		1.	Physical and Electrochemical Characterizations in Chemical Engineering	2.	Membrane Technology	3.	Multiphase Flow				
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<b>Item CM 9</b>	<p>To review and finalize the courses &amp; syllabi to be offered <b>(for batches admitted in 2019-20)</b> under the <b>Open Category (OC) Courses</b>(in traditional mode) for <b>VI semester</b> students of other departments along with their Cos</p> <p>The courses &amp; syllabi to be offered <b>(for batches admitted in 2019-20)</b> under the <b>Open Category (OC) Courses</b> (in traditional mode) for <b>VI semester</b> students of other departments along with their Cos were reviewed and finalized. As per the following detail:-</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">OC Courses</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Fuels &amp; Combustion</td> </tr> </tbody> </table> <p><a href="https://drive.google.com/file/d/1ZJ3dllaVtsQmZx5F-8TXTongPpV548pA/view?usp=sharing">https://drive.google.com/file/d/1ZJ3dllaVtsQmZx5F-8TXTongPpV548pA/view?usp=sharing</a></p>	OC Courses		1.	Fuels & Combustion								
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<b>Item CM 10</b>	<p>To review and finalize the Experiment list/ Lab manual for Laboratory Courses to be offered in VI semester <b>(for batches admitted in 2019-20)</b></p> <p>The Experiment list/ Lab manual for Laboratory Courses to be offered in VI semester <b>(for batches admitted in 2019-20)</b> has been reviewed and finalized.</p> <p><a href="https://drive.google.com/file/d/17Uhh5z63ypCqlk_mG3-EiYntvIgGVFIN/view?usp=sharing">https://drive.google.com/file/d/17Uhh5z63ypCqlk_mG3-EiYntvIgGVFIN/view?usp=sharing</a></p>												
<b>Item CM</b>	<p>To review and finalize the scheme and syllabi of <b>B. Tech. IV Semester (for batches admitted in 2020-21)</b> under the flexible curriculum along with their COs</p>												

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11	<p>The scheme and syllabi of <b>B. Tech. IV Semester (for batches admitted in 2020-21)</b> under the flexible curriculum along with their COs were reviewed and finalized.</p> <p><a href="https://drive.google.com/file/d/1tNbgoG9_Ou3beK4-TPUv2BwvTTXQRPTN/view?usp=sharing">https://drive.google.com/file/d/1tNbgoG9_Ou3beK4-TPUv2BwvTTXQRPTN/view?usp=sharing</a></p>
Item CM 12	<p>To review and finalize the Experiment list/ Lab manual for Laboratory Courses to be offered in IV(<b>for batch admitted in 2020-21</b>)</p> <p>The Experiment list/ Lab manual for Laboratory Courses to be offered in IV(<b>for batch admitted in 2020-21</b>) has been reviewed and finalized.</p> <p><a href="https://drive.google.com/file/d/1NQjdz5ErSYufGGzm5-fXh-jDp_HWii3w/view?usp=sharing">https://drive.google.com/file/d/1NQjdz5ErSYufGGzm5-fXh-jDp_HWii3w/view?usp=sharing</a></p>
Item CM 13	<p>To review and finalize the suggestive list of projects which can be assigned under the ‘Skill based mini-project’ category in various laboratory courses to be offered in Jan - June 2022 semester during IV Semester (<b>for the batch admitted in 2020-21</b>).</p> <p>The suggestive list of projects which can be assigned under the ‘Skill based mini-project’ category in various laboratory courses to be offered in Jan - June 2022 semester during IV Semester (<b>for the batch admitted in 2020-21</b>). Were reviewed and finalized.</p> <p><a href="https://drive.google.com/file/d/10aD_yWfhwoDDNyqStSflFO6V8uK33i7O/view?usp=sharing">https://drive.google.com/file/d/10aD_yWfhwoDDNyqStSflFO6V8uK33i7O/view?usp=sharing</a></p>
Item CM 14	<p>To ratify the <b>Scheme &amp; Syllabi, list of experiments and skill based mini projects of First semester of the newly started B. Tech. programmes in the emerging areas (AI &amp; ML, AI &amp; DS, CSD) (started from 2021-22 Session)</b> {Applicable for the concerned departments}</p> <p>This item is NOT APPLICABLE in Chemical Engineering Department</p>
Item CM 15	<p>To ratify the <b>Scheme &amp; Syllabi, list of experiments and skill based mini projects of First Semester B. Tech. programmes [admitted batch 2021-22 Session] (if any)</b></p> <p>This item is NOT APPLICABLE in Chemical Engineering Department</p>
Item CM 16	<p>To prepare and recommend the <b>Scheme &amp; Syllabi (along with the Course Outcomes) of II semester of the newly started B. Tech. programmes in the emerging areas (AI &amp; ML, AI &amp; DS, CSD) (started from 2021-22 Session)</b> {Applicable for the concerned departments}</p> <p>This item is NOT APPLICABLE in Chemical Engineering Department</p>
Item CM 17	<p>To prepare and recommend the list of experiments and skill based mini projects of <b>II semester of the newly started B. Tech. programmes in the emerging areas (AI &amp; ML, AI &amp; DS, CSD) (started from 2021-22 Session)</b> {Applicable for the concerned departments}</p> <p>This item is NOT APPLICABLE in Chemical Engineering Department</p>
Item CM 18	<p>To review and finalize the <b>Scheme &amp; Syllabi (along with the Course Outcomes) of II semester B. Tech. programmes (batch admitted 2021-22 Session)</b></p> <p>The <b>Scheme &amp; Syllabi (along with the Course Outcomes) of II semester B. Tech. programmes (batch admitted 2021-22 Session)</b> were reviewed and finalized.</p> <p><a href="https://drive.google.com/file/d/1eOfnNK6jXYhBzwmMcPuNxwr1ZCK9ouSI/view?usp=sharing">https://drive.google.com/file/d/1eOfnNK6jXYhBzwmMcPuNxwr1ZCK9ouSI/view?usp=sharing</a></p>

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<b>Item CM 19</b>	<p>To review and finalize the <b>list of experiments and skill based mini projects of II semester B. Tech. programmes (batch admitted 2021-22 Session)</b></p> <p>The <b>list of experiments and skill based mini projects of II semester B. Tech. programmes (batch admitted 2021-22 Session)</b> has been reviewed and finalized.  <a href="https://drive.google.com/file/d/18eVgB3DWXOr0eadJHkyN1bRIwxjp-Elg/view?usp=sharing">https://drive.google.com/file/d/18eVgB3DWXOr0eadJHkyN1bRIwxjp-Elg/view?usp=sharing</a></p>											
<b>Item CM 20</b>	<p>To propose the course <b>“Economics Entrepreneurship &amp; Management”</b> and its syllabi along with the Course Outcomes (COs) for the V Semester B.Tech. (Batch admitted 2020-21 onwards).  <b>{to be proposed and recommended by Management Department}</b>                      This item is NOT APPLICABLE in Chemical Engineering Department</p>											
<b>Item CM 21</b>	<p>To revise and recommend the course <b>“Energy, Environment, Ecology &amp; Society”</b> and its syllabi along with the Course Outcomes (COs) for the III Semester B.Tech. (Batch admitted 2021-22 onwards).  <b>{inclusion of contents related to “Sustainability” is to be done}</b>  <b>{to be proposed and recommended by the Civil Engineering Department}</b>                      This item is NOT APPLICABLE in Chemical Engineering Department</p>											
<b>Item CM 22</b>	<p>To propose a new course: <b>Universal Human Values &amp; Professional Ethics (HVPE)</b> &amp; its syllabi along with the Course Outcomes (COs), as Mandatory Course (MC) for the batch admitted in 2020-21 onwards  <b>{A portion on ‘gender sensitization’ also to be included in the syllabus of this course}</b>  <b>{to be proposed and recommended by Humanities Department}</b>                      This item is NOT APPLICABLE in Chemical Engineering Department</p>											
<b>Item CM 23</b>	<p>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 April–September 2021 Semester (ii) January–June 2021 Session for II to IV year students</p> <p><b>The CO attainments, to identify gaps and to suggest corrective measures for the improvement in the CO attainment levels for (i) I year April–September 2021 Semester (ii) January–June 2021 Session for II to IV year students were reviewed.</b>  <a href="https://drive.google.com/file/d/1JMMxizdl0JFSH-4ilx99U5gDTayJOCRC/view?usp=sharing">https://drive.google.com/file/d/1JMMxizdl0JFSH-4ilx99U5gDTayJOCRC/view?usp=sharing</a>  <a href="https://drive.google.com/file/d/1K-f-Y8pvNuXE5tLlgPkPyNKa8AqLGHC7/view?usp=sharing">https://drive.google.com/file/d/1K-f-Y8pvNuXE5tLlgPkPyNKa8AqLGHC7/view?usp=sharing</a></p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 25%;">Total No. of courses</th> <th style="width: 25%;">Total number of COs</th> <th style="width: 25%;">Number of COs not attained</th> <th style="width: 25%;">Percentage of COs not attained</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">18</td> <td style="text-align: center;">107</td> <td style="text-align: center;">11</td> <td style="text-align: center;">10.3 %</td> </tr> </tbody> </table>				Total No. of courses	Total number of COs	Number of COs not attained	Percentage of COs not attained	18	107	11	10.3 %
Total No. of courses	Total number of COs	Number of COs not attained	Percentage of COs not attained									
18	107	11	10.3 %									
<b>Item CM 24</b>	<p>To review curricula feedback from various stakeholders, its analysis and impact</p> <p><b>{Stakeholder feedback analysis must also contain an action taken report (ATR) and the details/data of the stakeholder who have responded through GOOGLE form (such as Name, organization, mail id, phone no if available) must also be shared along with the feedback for the alumni/employer.}</b></p>											

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	<p>The curricula feedback from various stakeholders, its analysis and impact has been done and reviewed.</p> <p><a href="https://drive.google.com/file/d/1krhIMdK3p0xG0XZXkddT1Dr5cQUo-0O6/view?usp=sharing">https://drive.google.com/file/d/1krhIMdK3p0xG0XZXkddT1Dr5cQUo-0O6/view?usp=sharing</a></p>
<b>Item CM 25</b>	<p>To review Course Outcomes (COs) feedback of various courses, its analysis and impact</p> <p>The Course Outcomes (COs) feedback of various courses, its analysis and impact were reviewed.</p> <p><a href="https://drive.google.com/file/d/1akTwoMsvk6dB59ZatcJXVAGM-w6HZj9R/view?usp=sharing">https://drive.google.com/file/d/1akTwoMsvk6dB59ZatcJXVAGM-w6HZj9R/view?usp=sharing</a></p>

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

## **Suggestion & Comment**

1. Process Equipment design must be teach as mandatory course to students.
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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