



**DEPARTMENT OF CHEMISTRY**  
**EVALUATION SCHEME OF UG & PG PROGRAM AS PER NEP-2024-25**  
w.e.f. July, 2025-26  
**Certificate in Materials and Techniques in Chemical Industries**  
**1<sup>st</sup> Year / 1<sup>st</sup> Semester**



| S. No.       | Course Code                                                                  | Course Title                                                                                          | (T)Theory<br>(P) Practical | Course Type   | Periods per Week |           |           | Evaluation Scheme |                    |            | End Semester | Subject Total | Total Credit | Attributes    |                  |                   |                 |                              |              |                     | United Nations Sustainable Development Goals (SDGs)                                 |
|--------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------|---------------|------------------|-----------|-----------|-------------------|--------------------|------------|--------------|---------------|--------------|---------------|------------------|-------------------|-----------------|------------------------------|--------------|---------------------|-------------------------------------------------------------------------------------|
|              |                                                                              |                                                                                                       |                            |               | Lecture          | Tutorial  | Practical | Class Test        | Teacher Assessment | Total      |              |               |              | Employability | Entrepreneurship | Skill Development | Gender Equality | Environment & Sustainability | Human Values | Professional Ethics |                                                                                     |
| 1            | B190101T/CH131                                                               | Fundamentals of Industrial Chemistry                                                                  | T                          | Core Major    | 3                | 1         | -         | 15                | 10                 | 25         | 75           | 100           | 04           | √             |                  | √                 |                 |                              |              |                     | <div>4 QUALITY EDUCATION</div> <div>9 INDUSTRY, INNOVATION AND INFRASTRUCTURE</div> |
| 2            | B020101T/CH151                                                               | Fundamentals of Chemistry-I                                                                           | T                          |               | 3                | 1         | -         | 15                | 10                 | 25         | 75           | 100           | 04           | √             |                  | √                 |                 |                              |              |                     | <div>4 QUALITY EDUCATION</div>                                                      |
| 3            | B190102P/CH133                                                               | Basic Analytical Methods                                                                              | P                          |               | -                | -         | 4         | 15                | 10                 | 25         | 75           | 100           | 02           | √             | √                | √                 |                 |                              |              |                     | <div>4 QUALITY EDUCATION</div>                                                      |
| 4            | B020102P/CH134                                                               | Quantitative Analysis                                                                                 | P                          |               | -                | -         | 4         | 15                | 10                 | 25         | 75           | 100           | 02           | √             | √                | √                 |                 |                              |              |                     | <div>4 QUALITY EDUCATION</div>                                                      |
| 5            | <ul style="list-style-type: none"> <li>B000101V/CH137</li> <li>--</li> </ul> | <ul style="list-style-type: none"> <li>Plastic Waste Management</li> <li>MOOCs/SWAYAM etc.</li> </ul> | T + P                      | Vocational    | 1                | -         | 2         | -                 | -                  | -          | 100          | 100           | 03           | √             | √                | √                 |                 | √                            |              |                     | <div>4 QUALITY EDUCATION</div> <div>13 CLIMATE ACTION</div>                         |
| 6            | Z010101T/BE105                                                               | Food Nutrition and Hygiene                                                                            | T                          | Co-curricular | 2                | -         | -         | 15                | 10                 | 25         | 75           | 100           | 02           | √             |                  | √                 |                 | √                            |              |                     | <div>3 GOOD HEALTH AND WELL-BEING</div> <div>4 QUALITY EDUCATION</div>              |
| 7            | A050101T/HM101                                                               | Rashtra Gaurav*                                                                                       | T                          | Audit Course  | 2                | -         | -         | -                 | -                  | -          | 100          | 100           | 00           |               |                  |                   |                 | √                            | √            | √                   | <div>4 QUALITY EDUCATION</div>                                                      |
| <b>TOTAL</b> |                                                                              |                                                                                                       |                            |               | <b>11</b>        | <b>02</b> | <b>10</b> | <b>75</b>         | <b>50</b>          | <b>125</b> | <b>575</b>   | <b>700</b>    | <b>17</b>    |               |                  |                   |                 |                              |              |                     |                                                                                     |

\*Qualifying (Non-Credit Course)



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w.e.f. July, 2025-26

**Certificate in Materials and Techniques in Chemical Industries**

**1<sup>st</sup> Year / 2<sup>nd</sup> Semester**



| S. No.       | Course Code                                                                                                                                           | Course Title                                                                                                                                                                                                    | (T)Theory<br>(P) Practical | Course Type   | Periods per Week |           |           | Evaluation Scheme |                    |            | End Semester | Subject Total | Total Credit | Attributes    |                  |                   |                 |                              |              |                     | United Nations Sustainable Development Goals (SDGs)                                 |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------|------------------|-----------|-----------|-------------------|--------------------|------------|--------------|---------------|--------------|---------------|------------------|-------------------|-----------------|------------------------------|--------------|---------------------|-------------------------------------------------------------------------------------|
|              |                                                                                                                                                       |                                                                                                                                                                                                                 |                            |               | Lecture          | Tutorial  | Practical | Class Test        | Teacher Assessment | Total      |              |               |              | Employability | Entrepreneurship | Skill Development | Gender Equality | Environment & Sustainability | Human Values | Professional Ethics |                                                                                     |
| 1.           | B190201T/CH138                                                                                                                                        | Material Science and Techniques in Chemical Industries                                                                                                                                                          | T                          | Core Major    | 3                | 1         | -         | 15                | 10                 | 25         | 75           | 100           | 04           | √             |                  | √                 |                 |                              |              |                     | <div>4 QUALITY EDUCATION</div> <div>9 INDUSTRY, INNOVATION AND INFRASTRUCTURE</div> |
| 2.           | B020202T/CH160                                                                                                                                        | Organic and Pharmaceutical Chemistry                                                                                                                                                                            | T                          |               | 3                | 1         | -         | 15                | 10                 | 25         | 75           | 100           | 04           | √             |                  | √                 |                 |                              |              |                     | <div>3 GOOD HEALTH AND WELL-BEING</div> <div>4 QUALITY EDUCATION</div>              |
| 3.           | B190202P/CH140                                                                                                                                        | Materialistic Analysis                                                                                                                                                                                          | P                          |               | -                | -         | 4         | 15                | 10                 | 25         | 75           | 100           | 02           | √             | √                | √                 |                 | √                            |              |                     | <div>4 QUALITY EDUCATION</div>                                                      |
| 4.           | B020202P/CH141                                                                                                                                        | Biochemical Analysis                                                                                                                                                                                            | P                          |               | -                | -         | 4         | 15                | 10                 | 25         | 75           | 100           | 02           | √             | √                | √                 |                 |                              |              |                     | <div>4 QUALITY EDUCATION</div>                                                      |
| 5.           | <ul style="list-style-type: none"> <li>B030202T/MT148</li> <li>A040209T/LN109</li> <li>B150203T/ES135;</li> <li>B150204P/ES136</li> <li>--</li> </ul> | <ul style="list-style-type: none"> <li>Basic Mathematics &amp; Statics</li> <li>Basics of Communication</li> <li>Eco-restoration and Invaded Ecosystems;</li> <li>Ecosystems Dynamic Lab</li> <li>BS</li> </ul> | T                          | Minor Course  | 3                | 1         | 4         | 15                | 10                 | 25         | 75           | 100           | 06           | √             | √                | √                 |                 | √                            | √            | √                   | <div>4 QUALITY EDUCATION</div>                                                      |
| 6.           | <ul style="list-style-type: none"> <li>B000201V/CH144</li> <li>--</li> </ul>                                                                          | <ul style="list-style-type: none"> <li>Laboratory Safety &amp; Sample Handling</li> <li>MOOCs/SWAYAM etc.</li> </ul>                                                                                            | T + P                      | Vocational    | 1                | -         | 2         | -                 | -                  | -          | 100          | 100           | 03           | √             |                  | √                 |                 | √                            | √            | √                   | <div>4 QUALITY EDUCATION</div> <div>13 CLIMATE ACTION</div>                         |
| 7.           | Z020201T/NS110                                                                                                                                        | First Aid and Health                                                                                                                                                                                            | T                          | Co-curricular | 2                | -         | -         | 15                | 10                 | 25         | 75           | 100           | 02           | √             |                  | √                 |                 | √                            | √            | √                   | <div>3 GOOD HEALTH AND WELL-BEING</div> <div>4 QUALITY EDUCATION</div>              |
| 8.           | B020205T/CH159                                                                                                                                        | Advanced Application of Artificial Intelligence in Chemical Sciences*                                                                                                                                           | T                          | Audit Course  | 2                | -         | -         | -                 | -                  | -          | 100          | 100           | 00           | √             | √                | √                 |                 |                              |              |                     | <div>4 QUALITY EDUCATION</div> <div>9 INDUSTRY, INNOVATION AND INFRASTRUCTURE</div> |
| <b>TOTAL</b> |                                                                                                                                                       |                                                                                                                                                                                                                 |                            |               | <b>14</b>        | <b>03</b> | <b>14</b> | <b>90</b>         | <b>60</b>          | <b>150</b> | <b>650</b>   | <b>800</b>    | <b>23</b>    |               |                  |                   |                 |                              |              |                     |                                                                                     |

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