

**Distribution of course, teaching Hours and credit for PG Branch III Chemistry**

| Semester | Code             | Course                                    | Hours/<br>Week | Total<br>Hours | Credit  | Remarks |
|----------|------------------|---|----------------|----------------|---|---------|
| SEM.I    | 16P1CHET01       | Inorganic Chemistry-I                     | 4              | 72             | 4   |         |
|          | 16P1CHET02       | Basic Organic Chemistry                   | 4              | 72             | 4   |         |
|          | 16P1CHET03       | Physical Chemistry-I                      | 3              | 54             | 3   |         |
|          | 16P1CHET04       | Quantum chemistry and group theory        | 4              | 72             | 3   |         |
|          | 16P2CHEP01       | Inorganic Chemistry Practical-I           | 3              | 54             | Evaluation at the end of 2 <sup>nd</sup> Semester.  |         |
|          | 16P2CHEP02       | Organic Chemistry Practical-I             | 3              | 54             |   |         |
|          | 16P2CHEP03       | Physical Chemistry Practical-I            | 4              | 72             |   |         |
|          |                  | <b>Total</b>                              | <b>25</b>      | <b>450</b>     | <b>14</b>   |         |
| SEM.II   | 16P2CHET05       | Inorganic Chemistry-II                    | 4              | 72             | 4   |         |
|          | 16P2CHET06       | Organic Reaction Mechanism.               | 4              | 72             | 4   |         |
|          | 16P2CHET07       | Physical Chemistry-II                     | 3              | 54             | 3   |         |
|          | 16P2CHET08       | Theoretical and Computational Chemistry   | 4              | 72             | 3   |         |
|          | 16P2CHEP01       | Inorganic Chemistry Practical-I           | 3              | 54             | 3   |         |
|          | 16P2CHEP02       | Organic Chemistry Practical-I             | 3              | 54             | 3   |         |
|          | 16P2CHEP03       | Physical Chemistry Practical-I            | 4              | 72             | 3   |         |
|          |                  | <b>Total</b>                              | <b>25</b>      | <b>450</b>     | <b>23</b>   |         |
| SEM.III  | 16P3CHET09       | Inorganic chemistry-III                   | 4              | 72             | 4   |         |
|          | 16P3CHET10       | Organic Syntheses                         | 4              | 72             | 4   |         |
|          | 16P3CHET11       | Physical Chemistry-III                    | 4              | 72             | 4   |         |
|          | 16P3CHET12       | Spectroscopic methods in Chemistry        | 3              | 54             | 3   |         |
|          | 16P4CHEP04       | Inorganic Chemistry Practical-II          | 3              | 54             | Evaluation at the end of IV <sup>th</sup> Semester. |         |
|          | 16P4CHEP05       | Organic Chemistry Practical-II            | 3              | 54             |   |         |
|          | 16P4CHEP06       | Physical Chemistry Practical-II           | 4              | 72             |   |         |
|          |                  | <b>Total</b>                              | <b>25</b>      | <b>450</b>     | <b>15</b>   |         |
| SEM.IV   | 16P4CHET13<br>EL | Advanced Inorganic Chemistry (Elective 1) | 5              | 90             | 4   |         |
|          | 16P4CHET14<br>EL | Advanced Organic Chemistry (Elective 2)   | 5              | 90             | 4   |         |
|          | 16P4CHET15<br>EL | Advanced Physical Chemistry(Elective 3)   | 5              | 90             | 4   |         |
|          | 16P4CHEP04       | Inorganic Chemistry Practical-II          | 3              | 54             | 3   |         |
|          | 16P4CHEP05       | Organic Chemistry Practical-II            | 3              | 54             | 3   |         |
|          | 16P4CHEP06       | Physical Chemistry Practical-II           | 4              | 54             | 3   |         |
|          | 16P4CHECV        | Comprehensive Subject Viva Voce           |                |                | 2   |         |
|          | 16P4CHEPJ        | Project                                   |                |                | 5   |         |
|          |                  | <b>Total</b>                              | <b>25</b>      |                | <b>28</b>   |         |
|          |                  | <b>Grand Total</b>                        |                |                | <b>80</b>   |         |