

**List of Courses having focus on local, national, regional and global developmental needs offered by the Department of Chemistry (UG)**

| DEPARTMENT OF CHEMISTRY (UG)           |  |       |          |          |        |  |
|--|--|-------|----------|----------|--------|--|
| PROGRAMME: B.Sc., CHEMISTRY            |  |       |          |          |        |  |
| Course Code                            | Course Title   | Need  |          |          |        | Rationale  |
|  |  | Local | National | Regional | Global |  |
| <b>2016 BATCH - V AND VI SEMESTERS</b> |  |       |          |          |        |  |
| 16UCY507                               | Core Paper – V : Nuclear and Co-ordination Chemistry |       | ✓        | ✓        | ✓      | Higher Education, Research & Employment                      |
| 16UCY508                               | Core Paper – VI : Organic Chemistry - I              |       |          |          | ✓      | Higher education, Research and employment in the Industry    |
| 16UCY509                               | Core Paper – VII : Electro Chemistry                 |       | ✓        |          | ✓      | Higher Education, Research & Employment in Electrical sector |
| 16UCY510                               | Core Paper- VIII : Dye Chemistry                     |       |          |          | ✓      | Teaching, Higher Education & Industry                        |
| 16UCY511                               | Core Elective I : Analytical Chemistry               |       | ✓        | ✓        | ✓      | Higher education, Research and employment in the Industry    |
| 16UCY5S1                               | Skill Based Elective - I : Food Chemistry            |       |          |          | ✓      | Higher education, Research and employment in the Industry    |
| 16UCY5S2                               | Skill Based Elective - I : Nano Chemistry            |       |          |          | ✓      | Higher Education, Research & Employment in Industry          |

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| 16UCY612                                 | Core Paper - IX : Physical Methods and Chemical Structure        |  |   |   | ✓ | Teaching, Higher Education & Industry                    |
| 16UCY613                                 | Core Paper - X : Organic Chemistry - II                          |  | ✓ |   | ✓ | Higher Education & Industry                              |
| 16UCY614                                 | Core Paper - XI : Chemical Kinetics and Photo Chemistry          |  | ✓ |   | ✓ | Higher Education & Industry                              |
| 16UCY615                                 | Core Elective II : Polymer Chemistry                             |  | ✓ |   |   | Teaching, Higher Education & Industry                    |
| 16UCY616                                 | Core Elective Paper- III : Programming In - C                    |  |   | ✓ | ✓ | Higher Education, Research & Employment                  |
| 16UCY617                                 | Core Practical III : Gravimetric Analysis and Physical Chemistry |  |   | ✓ | ✓ | Higher Education, Research & Employment                  |
| 16UCY618                                 | Computing Laboratory : Computer Applications In Chemistry        |  |   | ✓ | ✓ | Teaching, Higher Education & Industry                    |
| 16UCY6S3                                 | Skill Based Elective - II : Green Chemistry                      |  |   |   | ✓ | Teaching, Higher education and Industry                  |
| 16UCY6S4                                 | Skill Based Elective - II : Clean Energy                         |  | ✓ | ✓ | ✓ | Higher education, Research and analysis based employment |
| <b>2017 BATCH - III AND IV SEMESTERS</b> |  |  |   |   |   |  |
| 17UCY304                                 | Core Paper - III : Inorganic and Physical Chemistry              |  | ✓ |   | ✓ | Teaching , Higher Education & Industry                   |
| 17UCY3N1                                 | Non Major Elective - I : Food                                    |  |   |   | ✓ | Teaching & Higher Education                              |

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|--|---|--|---|--|---|---|
|  | Science and Technology  |  |   |  |   |   |
| 17UCY3N2                               | Non Major Elective - I :<br>Chemistry of Consumer Products                    |  |   |  | ✓ | Teaching & Higher Education               |
| 17UCY405                               | Core Paper – IV Inorganic,<br>Organic and Physical Chemistry                  |  |   |  | ✓ | Teaching , Higher Education &<br>Industry |
| 17UCY406                               | Core Practical II : Volumetric and<br>Organic Qualitative Analysis            |  |   |  | ✓ | Teaching & Higher Education               |
| 17UCY4N3                               | Non Major Elective - II : Water<br>and Water Treatment Processes              |  | ✓ |  | ✓ | Teaching & Higher Education               |
| 17UCY4N4                               | Non Major Elective - II :<br>Diagnostic Chemistry                             |  |   |  | ✓ | Teaching & Higher Education               |
| 17UPS3A3/<br>17UBY3A4/<br>17UZY3A4     | Allied Chemistry Paper – I :<br>Inorganic, Organic and Physical<br>Chemistry  |  |   |  | ✓ | Teaching, Higher Education &<br>Industry  |
| 17UPS4A4/<br>17UBY4A5/<br>17UZY4A5     | Allied Chemistry Paper – II :<br>Inorganic, Organic and Physical<br>Chemistry |  |   |  | ✓ | Teaching & Higher Education               |
| 17UPS4A5/<br>17UBY4A6/<br>17UZY4A6     | Ancillary Chemistry Practical   |  |   |  | ✓ | Teaching, Higher Education &<br>Industry  |
| <b>2018 BATCH - I AND II SEMESTERS</b> |   |  |   |  |   |   |
| 18UCY101                               | Core Paper – I : Inorganic and  |  | ✓ |  | ✓ | Teaching & Higher Education               |

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|----------|---|--|---|--|---|---------------------------------------|
|          | Organic Chemistry                                   |  |   |  |   |                                       |
| 18UCY202 | Core Paper - II : Organic and Physical Chemistry    |  | ✓ |  | ✓ | Teaching, Higher Education & Industry |
| 18UCY203 | Core Practical - I : Inorganic Qualitative Analysis |  |   |  | ✓ | Teaching, Higher Education & Industry |

  
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