

**B.SC CHEMISTRY PROGRAMME**  
**SCHEME OF LEARNING AND EVALUATION**  
 (For the students admitted in the academic year 2025 – 2026 & onwards)  
 Outcome Based Curriculum Framework with CBCS

| Course Code           | Course Title  | Course Category | Course Type | Part Type | Lecture Hours | Tutorial Hours | Practical Hours | Course Credits | Max CA Marks | Max CE Marks | Total Marks |
|-----------------------|---|-----------------|-------------|-----------|---------------|----------------|-----------------|----------------|--------------|--------------|-------------|
| <b>SEMESTER - I</b>   |   |                 |             |           |               |                |                 |                |              |              |             |
| 25LAT101              | TAMIL-I   | ELECTIVE        | THEORY      | 1         | 6             | 0              | 0               | 3              | 25           | 75           | 100         |
| 25LAH101              | HINDI-I   | ELECTIVE        | THEORY      | 1         | 6             | 0              | 0               | 3              | 25           | 75           | 100         |
| 25LAF101              | FRENCH-I FRENCH CULTURE & COMMUNICATION -I  | ELECTIVE        | THEORY      | 1         | 5             | 1              | 0               | 3              | 25           | 75           | 100         |
| 25EU101               | COMMUNICATIVE ENGLISH-I: INTERPERSONAL COMMUNICATION  | CORE            | THEORY      | 2         | 6             | 0              | 0               | 3              | 25           | 75           | 100         |
| 25CHU101              | General Chemistry-I   | CORE            | THEORY      | 3         | 4             | 1              | 0               | 4              | 25           | 75           | 100         |
| 25CHU102              | Analytical Chemistry  | CORE            | THEORY      | 3         | 4             | 1              | 0               | 3              | 25           | 75           | 100         |
| 25CHU103              | Mathematics-I FOR CHEMISTRY   | CORE            | THEORY      | 3         | 5             | 0              | 0               | 4              | 25           | 75           | 100         |
| 25CHU207              | PRACTICAL - I INORGANIC QUALITATIVE ANALYSIS (Skill Based)  | CORE            | PRACTICAL   | 3         | 0             | 0              | 3               | 0              | 0            | 0            | 0           |
| <b>SEMESTER - II</b>  |   |                 |             |           |               |                |                 |                |              |              |             |
| 25LAT202              | TAMIL-II  | ELECTIVE        | THEORY      | 1         | 6             | 0              | 0               | 3              | 25           | 75           | 100         |
| 25LAH202              | HINDI-II  | ELECTIVE        | THEORY      | 1         | 6             | 0              | 0               | 3              | 25           | 75           | 100         |
| 25LAF202              | FRENCH-II FRENCH CULTURE & COMMUNICATION - II   | ELECTIVE        | THEORY      | 1         | 5             | 1              | 0               | 3              | 25           | 75           | 100         |
| 25EU202               | COMMUNICATIVE ENGLISH-II: ACADEMIC COMMUNICATION  | CORE            | THEORY      | 2         | 4             | 0              | 0               | 3              | 25           | 75           | 100         |
| 25CHU204              | GENERAL CHEMISTRY II  | CORE            | THEORY      | 3         | 4             | 1              | 0               | 4              | 25           | 75           | 100         |
| 25CHU205              | INDUSTRIAL CHEMISTRY  | CORE            | THEORY      | 3         | 4             | 1              | 0               | 3              | 25           | 75           | 100         |
| 25CHU206              | MATHEMATICS–II FOR CHEMISTRY  | CORE            | THEORY      | 3         | 5             | 0              | 0               | 4              | 25           | 75           | 100         |
| 25CHU207              | PRACTICAL - I INORGANIC QUALITATIVE ANALYSIS (Skill Based)  | CORE            | PRACTICAL   | 3         | 0             | 0              | 3               | 3              | 40           | 60           | 100         |
| 25AECU201             | ABILITY ENHANCEMENT COMPULSORY COURSE-I: (VALUES, ETHICS, HEALTH & WELLNESS FOR HUMAN EXCELLENCE) | CORE            | THEORY      | 4         | 2             | 0              | 0               | 2              | 100          | 0            | 100         |
| 25PSEU201             | PROFESSIONAL SKILL ENHANCEMENT-I  | CORE            | THEORY      | 4         | 2             | 0              | 0               | 2              | 100          | 0            | 100         |
| <b>SEMESTER - III</b> |   |                 |             |           |               |                |                 |                |              |              |             |
| 25LAT303              | TAMIL-III   | ELECTIVE        | THEORY      | 1         | 6             | 0              | 0               | 3              | 25           | 75           | 100         |
| 25LAH303              | HINDI-III   | ELECTIVE        | THEORY      | 1         | 6             | 0              | 0               | 3              | 25           | 75           | 100         |
| 25LAF303              | FRENCH-III  | ELECTIVE        | THEORY      | 1         | 6             | 0              | 0               | 3              | 25           | 75           | 100         |
| 25EU303               | COMMUNICATIVE ENGLISH-III: DEVELOPING ENGLISH LANGUAGE SKILLS THROUGH LITERATURE                  | CORE            | THEORY      | 2         | 6             | 0              | 0               | 3              | 25           | 75           | 100         |
| 25CHU308              | General Chemistry-III   | CORE            | THEORY      | 3         | 4             | 1              | 0               | 4              | 25           | 75           | 100         |
| 25CHU309              | Physics-I   | CORE            | THEORY      | 3         | 4             | 0              | 0               | 4              | 25           | 75           | 100         |
| 25CHU413              | Practical –III Applied Chemistry Practical (Skill based)  | CORE            | PRACTICAL   | 3         | 0             | 0              | 2               | 0              | 0            | 0            | 0           |
| 25CHU414              | Physics Practical (Skill Based)   | CORE            | PRACTICAL   | 3         | 0             | 0              | 2               | 0              | 0            | 0            | 0           |
| 25AECU302             | ABILITY ENHANCEMENT COMPULSORY COURSE-II: ENVIRONMENTAL STUDIES & SUSTAINABLE DEVELOPMENT GOALS   | CORE            | THEORY      | 4         | 2             | 0              | 0               | 2              | 100          | 0            | 100         |
| <b>SEMESTER - IV</b>  |   |                 |             |           |               |                |                 |                |              |              |             |
| 25LAT404              | TAMIL-IV  | ELECTIVE        | THEORY      | 1         | 6             | 0              | 0               | 3              | 25           | 75           | 100         |
| 25LAH404              | HINDI-IV  | ELECTIVE        | THEORY      | 1         | 6             | 0              | 0               | 3              | 25           | 75           | 100         |
| 25LAF404              | FRENCH-IV   | ELECTIVE        | THEORY      | 1         | 6             | 0              | 0               | 3              | 25           | 75           | 100         |

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| 25EU404              | COMMUNICATIVE ENGLISH-IV: ENGLISH FOR CAREER  | CORE            | THEORY      | 2         | 4             | 0              | 0               | 3              | 25           | 75           | 100         |
| 25CHU410             | General Chemistry IV  | CORE            | THEORY      | 3         | 4             | 1              | 0               | 4              | 25           | 75           | 100         |
| 25CHU411             | Physics II  | CORE            | THEORY      | 3         | 4             | 0              | 0               | 4              | 25           | 75           | 100         |
| 25CHU412             | Practical -II Volumetric and Organic Qualitative analysis & Preparation (Skill based) | CORE            | PRACTICAL   | 3         | 0             | 0              | 3               | 3              | 40           | 60           | 100         |
| 25CHU413             | Practical –III Applied Chemistry Practical (Skill based)                              | CORE            | PRACTICAL   | 3         | 0             | 0              | 2               | 2              | 100          | 0            | 100         |
| 25CHU414             | Physics Practical (Skill Based)   | CORE            | PRACTICAL   | 3         | 0             | 0              | 2               | 2              | 40           | 60           | 100         |
| 25SECU401            | SKILL ENHANCEMENT COURSE-I: INFORMATION SECURITY                                      | CORE            | THEORY      | 4         | 2             | 0              | 0               | 2              | 100          | 0            | 100         |
| 25PSEU402            | PROFESSIONAL SKILL ENHANCEMENT-II   | CORE            | THEORY      | 4         | 2             | 0              | 0               | 2              | 100          | 0            | 100         |
| <b>SEMESTER - V</b>  |   |                 |             |           |               |                |                 |                |              |              |             |
| 25CHU515             | Organic Chemistry I   | CORE            | THEORY      | 3         | 4             | 1              | 0               | 4              | 25           | 75           | 100         |
| 25CHU516             | Inorganic Chemistry I   | CORE            | THEORY      | 3         | 4             | 0              | 0               | 4              | 25           | 75           | 100         |
| 25CHU517             | Physical Chemistry I  | CORE            | THEORY      | 3         | 4             | 1              | 0               | 4              | 25           | 75           | 100         |
| 25CHU518             | Nano and green Chemistry  | CORE            | THEORY      | 3         | 4             | 0              | 0               | 4              | 100          | 0            | 100         |
| 25CHU519A            | Major Elective Course I Polymer Chemistry   | ELECTIVE        | THEORY      | 3         | 4             | 0              | 0               | 4              | 25           | 75           | 100         |
| 25CHU519B            | Major Elective Course I Dye Chemistry   | ELECTIVE        | THEORY      | 3         | 4             | 0              | 0               | 4              | 25           | 75           | 100         |
| 25CHU520             | Internship/ Industrial training   | CORE            | TRAINING    | 3         | 0             | 0              | 0               | 2              | 40           | 60           | 100         |
| 25CHU521             | Trans Disciplinary Course   | ELECTIVE        | THEORY      | 3         | 2             | 0              | 0               | 2              | 100          | 0            | 100         |
| 25CHU627             | Practical – IV Gravimetry and Physical Chemistry Experiments (Skill based)            | CORE            | PRACTICAL   | 3         | 0             | 0              | 6               | 0              | 0            | 0            | 0           |
| 25SECU502            | SKILL ENHANCEMENT COURSE-II: INDIAN KNOWLEDGE SYSTEM [COMPUTER BASED TEST]            | CORE            | THEORY      | 4         | 0             | 0              | 0               | 2              | 0            | 100          | 100         |
| <b>SEMESTER - VI</b> |   |                 |             |           |               |                |                 |                |              |              |             |
| 25CHU622             | Instrumental Methods of Chemical Analysis   | CORE            | THEORY      | 3         | 4             | 1              | 0               | 4              | 25           | 75           | 100         |
| 25CHU623             | Organic Chemistry II  | CORE            | THEORY      | 3         | 4             | 1              | 0               | 4              | 25           | 75           | 100         |
| 25CHU624             | Inorganic Chemistry II  | CORE            | THEORY      | 3         | 4             | 0              | 0               | 4              | 25           | 75           | 100         |
| 25CHU625             | Physical Chemistry II   | CORE            | THEORY      | 3         | 4             | 0              | 0               | 4              | 25           | 75           | 100         |
| 25CHU626A            | Major Elective Course II Pharmaceutical Chemistry                                     | ELECTIVE        | THEORY      | 3         | 4             | 0              | 0               | 4              | 25           | 75           | 100         |
| 25CHU626B            | Major Elective Course II Textile Chemistry  | ELECTIVE        | THEORY      | 3         | 4             | 0              | 0               | 4              | 25           | 75           | 100         |
| 25CHU627             | Practical – IV Gravimetry and Physical Chemistry Experiments (Skill based)            | CORE            | PRACTICAL   | 3         | 0             | 0              | 6               | 4              | 40           | 60           | 100         |
| 25CHU628             | Project /Innovation/ Startup  | CORE            | PROJECT     | 3         | 0             | 0              | 0               | 4              | 40           | 60           | 100         |
| 25PCSUCHU            | Professional Competency Skill Research Methodology and AI in Chemistry                | CORE            | THEORY      | 4         | 2             | 0              | 0               | 2              | 100          | 0            | 100         |