Deparment of Chemistry

Rajbari Govt College

***Hons First Year:***

|  |  |  |  |
| --- | --- | --- | --- |
| **Paper Code** | **Paper Title** | **Marks** | **Credits** |
| 212801 | Physical Chemistry-I  | 75 | 3 |
| 212803 | Fundamentals of Organic Chemistry  | 75 | 3 |
| 212805 | Fundamentals of Inorganic Chemistry | 75 | 3 |
| 212806 | Chemistry Practical: Qualitative inorganic analysis, inorganic preparations and elementary crystal chemistry | 75 | 3 |
|  |
| 213709 | Fundamentals of Mathematics | 100 | 4 |
| 213711 | Calculus-I | 50 | 2 |
| 212707 | Physics-I :  | 100 | 4 |
| (Mechanics, Properties of Matter, Waves & Optics) |
| 212709 | Physics-II (Heat, Thermodynamics and Radiation) | 50 | 2 |
| 211501 | History of the Emergence of Independent of Bangladesh | 100 | 4 |
|   |  Total = | 700 | 28 |

***Hons 2nd Year:***

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| **Paper Code** | **Paper Title** | **Marks** | **Credits** |
| 222801 |  Physical Chemistry-II  | 100 | 4 |
| 222803 | Organic Chemistry | 100 | 4 |
| 222805 | Chemistry of the Representative Elements | 100 | 4 |
| 222806 | Quantitative Inorganic Analysis (Practical) | 100 | 4 |
| 222707 | Physics-III (Electricity and Modern Physics) | 100 | 4 |
| 222708 | Physics-IV (Physics Practical) | 50 | 2 |
| 223707 | Calculus-II | 100 | 4 |
| 223708 | Math Lab (Practical)  | 50 | 2 |
| 221109 | English (Compulsory) | 100 | Non-Credit |
|   | Total = | 700 | 28 |

***Hons 3rd Year***

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| --- | --- | --- | --- |
| **Paper Code** | **Paper Title** | **Marks** | **Credits** |
| 232801 | Physical Chemistry-III | 100 | 4 |
| 232803 | Stereochemistry | 100 | 4 |
| 232805 | Advanced Concepts of Atomic Structure and Chemical Bonding  | 100 | 4 |
| 232807 | Coordination Chemistry and Organometallic Chemistry | 100 | 4 |
| 232809 | Fundamentals of Analytical Chemistry  | 100 | 4 |
| 232811 | Industrial Chemistry | 100 | 4 |
| 232813 | Agricultural Chemistry  | 100 | 4 |
| 232814 | Physical Chemistry Practical  | 50 | 2 |
| 232816 | Organic Chemistry Practical | 50 | 2 |
|  (Detection & Preparation) |
|   | Total = | 800 | 32 |

***Hons 4th Year***

|  |  |  |  |
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| **Paper Code** | **Paper Title** | **Marks** | **Credits** |
| 242801 | Physical Chemistry-IV | 100 | 4 |
| 242803 | Selected Topics in Organic Chemistry | 100 | 4 |
| 242805 | Selected Topics in Inorganic Chemistry | 100 | 4 |
| 242807 | Nuclear Chemistry  | 100 | 4 |
| 242809 | Organic Polymers | 100 | 4 |
| 242811 | Reaction Mechanism | 100 | 4 |
| 242813 | Separation Techniques  | 100 | 4 |
| 242815 | Chemical Spectroscopy | 100 | 4 |
| 242816 | Practical Chemistry (Organic) | 50 | 2 |
| 242818 | Practical Chemistry (Industrial) | 50 | 2 |
| 242820 | Viva-voce | 100 | 4 |
|  | Total = | 1000 | 40 |