

**B.Sc. PHYSICS****SEMESTER-I**

| <b>Course Code</b>                  | <b>Course Title</b>   |
|-------------------------------------|---|
| EN1111.1                            | English Language - Listening and Speaking Skills and four one act plays   |
| ML 1111.1<br>HN 1111.1<br>LN 1111.1 | <u>Additional Language</u><br>Malayala Kavitha<br>Prose, Literary Analysis and Grammar<br>Communication Skills in Latin |
| EN1121                              | Foundation Course -Writings on Contemporary Issues  |
| PY1141                              | Core Course I Core pract.1- Basic mechanics & Properties of matter  |
| MM1131.1                            | Compl. Course -Differentiation and Analytic Geometry  |
| CH1131.1                            | Compl. Course - Principles of Chemistry I   |

**SEMESTER-II**

| <b>Course Code</b>                  | <b>Course Title</b>   |
|-------------------------------------|---|
| EN 1211.1                           | Eng Lang. II- Greening the Earth  |
| EN 1212.1                           | Eng Lang. III-Modern English Grammar and Usage  |
| ML 1211.1<br>HN 1211.1<br>LT 1211.1 | <u>Addl Lang. II</u><br>Gadhya sahithyam<br>Fiction , Creative Writing and Communication Skills<br>Translation and Communication in Latin |
| PY 1221                             | Core Course II – Classical Mechanics  |
| MM 1231.1                           | Compl. Course III-Integration and Vectors   |
| CH 1231.1                           | Compl. Course IV- Paper II - Principles of Chemistry  |

**SEMESTER-III**

| <b>Course Code</b>                  | <b>Course Title</b>  |
|-------------------------------------|--|
| EN1311                              | Eng Lang. IV- Writing and Presentation Skills  |
| HN 1311.1<br>ML 1311.1<br>LT 1311.1 | <u>Addl Lang. III</u><br>Drama, One act plays Translation and Communication.<br>Drishyakala sahithyam<br>Literature in Latin |
| PY1341                              | Core Course II -Thermodynamics & Statistical Physics   |
| MM1331.1                            | Compl. Course V- Theory of Eqs.,Differential Eqs.,and Theory of Matrics  |
| CH1331.1                            | Compl. Course VI- Physical and Inorganic Chemistry   |

| <b>SEMESTER-IV</b>                  |   |
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| <b>Course Code</b>                  | <b>Course Title</b>   |
| EN1411.1                            | Eng Lang. V- Readings in Literature   |
| ML 1411.1<br>HN 1411.1<br>LT 1411.1 | <u>Addl Lang. IV</u><br>Vinimayam, Sargathmaka Rachana, Bhashavabodham<br>Poetry, Long Poems and Culture<br>Culture and Civilization in Latin |
| PY1441                              | Core Course III- Electrodynamics  |
| PY1442                              | Core (Pract I) IV - Mechanics, properties of matter, heat and acoustics   |
| MM1431.1                            | Compl. Course VII-Complex Analysis, Fourier Series and Transforms   |
| CH1431.1                            | Compl. Course VIII – Physical and Inorganic Chemistry   |
| CH1432.1                            | Compl. Chemistry Practical  |
| <b>SEMESTER-V</b>                   |   |
| <b>Course Code</b>                  | <b>Course Title</b>   |
| PY1541                              | Core Course V- Methodology in physics and relativistic mechanics  |
| PY1542                              | Core Course VI- Quantum Mechanics   |
| PY1543                              | Core Course VII- Electronics  |
| PY1544                              | Core Course VIII- Atomic & Molecular Physics  |
| PY1551.2                            | Open Course - Astronomy and Astrophysics  |
| <b>SEMESTER-VI</b>                  |   |
| <b>Course Code</b>                  | <b>Course Title</b>   |
| PY1641                              | Core Course IX- Solid State Physics   |
| PY1642                              | Core Course X- Nuclear & Particle Physics   |
| PY1643                              | Core Course XI- Classical & Modern Optics   |
| PY1644                              | Core Course XII- Digital Electronics and Computer science.  |
| PY1645                              | Core (Practical II)XIII – Optics, Electricity and Magnetism   |
| PY1646                              | Core (Pract III) XIV- Electronics and Computer Science  |
| PY1661.2                            | Space Science   |
| PY 1647                             | Project   |