

Bachelor of Science in Electronic Physics

The Program Structure:

Course Code	BS: First Semester Courses	Credit
PHY 101	Communication Skills	5
PHY 102	Descriptive Statistics & Probability	5
PHY 103	Computer Fundamentals & Applications	5
PHY 104	Introduction to Earth Science	5
PHY 105	Linear Algebra and Geometry	5
PHY 106	Calculus	5
TOTAL CREDITS		30
Course Code	BS: Second Semester Courses	Credit
PHY 111	Introduction to Physics	5
PHY 112	Introduction to Classical Mechanics	5
PHY 113	Introduction to Wave Motor & Heat	5
PHY 114	Introduction to Electricity & Magnetism	5
PHY 115	Organic Chemistry	5
PHY 116	General Mathematics	5
TOTAL CREDITS		30
Course Code	BS: Third Semester Courses	Credit
PHY 201	Circuit Theory	5
PHY 202	Biophysics	5
PHY 203	Physics of Materials	5
PHY 204	Industrial Electronics	5
PHY 205	Electronics & Communication Technology	5
PHY 206	Thermodynamics	5
TOTAL CREDITS		30
Course Code	BS: Fourth Semester Courses	Credit
PHY 211	Probability and Statistics	5
PHY 212	Mechanics and Fluids	5
PHY 213	Electromagnetism	5
PHY 214	Numerical and Computational Methods	5
PHY 215	Mathematical Methods	5
PHY 216	Solid State Physics	5
TOTAL CREDITS		30
Course Code	BS: Fifth Semester Courses	Credit
PHY 301	Special Relativity	5
PHY 302	Nuclear and Particle Physics	5
PHY 303	Statistical Physics	5
PHY 304	Materials - Introduction and Basics	5
PHY 305	Materials - Metals and Semiconductors	5
PHY 306	Microprocessors and Microcontrollers	5
TOTAL CREDITS		30
Course Code	BS: Sixth Semester Courses	Credit
PHY 311	Structured Programming	5
PHY 312	Programming with Objects	5
PHY 313	Data Communication & Networking	5
PHY 314	Quantum Physics	5
PHY 315	Bachelor Thesis	10
TOTAL CREDITS		30

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