BS Physics:

| Semester I | | Credit Hrs. | |
|------------------|------------------------------------|-------------|-----|
| | | Theory | Lab |
| Gen Ed/ Language | Functional English-I | 3 | |
| Non-Disp/Math | Calculus and Analytical Geometry-I | 3 | |
| Non-Disp/CS | Introduction to Computing | 3 | |
| Phy | Mechanics | 3 | |
| Non-Disp/Che | Chemistry-I | 2 | 1 |
| Gen Ed/Culture | Islamic Studies/Ethics | 2 | |
| Phy | Lab I - Mechanics | | 1 |
| Qur'an | Qur'an Translation I (Imaniaat) | 1 | |
| | Total | 17 | 2 |

| Semester II | | Credit Hrs. | |
|-----------------|-------------------------------------|-------------|------|
| | | Theory | Labs |
| Gen Ed/Language | Technical Report Writing | 3 | |
| Non-Disp/Math | Calculus and Analytical Geometry-II | 3 | |
| Phy | Electricity & Magnetism | 3 | |
| Phy | Heat & Thermodynamics | 3 | |
| Gen Ed/Culture | Pakistan Studies | 2 | |
| Non-Disp/Che | Chemistry-II | 2 | 1 |
| Phy | Lab II - Electricity & Magnetism | | 1 |
| | Total | 16 | 2 |

| Semester III | | Credit Hrs. | |
|-----------------|---------------------------------------|-------------|------|
| | | Theory | Labs |
| Gen Ed/Language | Communication and Presentation Skills | 3 | |
| Non-Disp/Math | Linear Algebra | 3 | |
| Phy | Waves & Oscillations | 3 | |
| Phy | Modern Physics | 3 | |
| Non-Disp/Eco | Economics | 3 | |
| Phys | Lab III – Heat, waves, and sound | | 1 |
| Qur'an | Qur'an Translation I (Ibadaat) | 1 | |
| | Total | 16 | 1 |

| Semester IV | | Credit Hrs. | |
|---------------------|-----------------------------|-------------|-----|
| | | Theory | Lab |
| Non-Disp/Math | Differential Equations | 3 | |
| Non-Disp/Statistics | Probability & Statistics | 3 | |
| Phy | Optics | 3 | |
| Non-Disp/CS | Introduction to Programming | 3 | |
| Gen Ed/Mgt | Project Management | 3 | |
| Gen Ed/Soc | Introduction of Psychology | 2 | |
| Phy | Lab IV – Optics | | 1 |
| | Total | 17 | 1 |

| Semester V | | Credit Hrs. | |
|------------|-----------------------------------|-------------|------|
| | | Theory | Labs |
| Phy | Mathematical Methods of Physics-I | 3 | |
| Phy | Electrodynamics-I | 3 | |
| Phy | Classical Mechanics | 3 | |
| Phy | Electronics-I | 3 | |
| Gen Ed/Soc | Professional Ethics | 2 | |
| Phy | Lab V – Electronics | | 2 |
| Qur'an | Qur'an Translation I (Mua'amlaat) | 1 | |
| | Total | 15 | 2 |

| Semester VI | | | Credit Hrs. | |
|-------------|---------------------------------------|-------|-------------|------|
| | | | Theory | Labs |
| Phy | Mathematical Methods of Physics-II | | 3 | |
| Phy | Electrodynamics-II | | 3 | |
| Phy | Quantum Mechanics-I | | 3 | |
| Phy | Electronics-II | | 3 | |
| Phy | Statistical Physics | | 3 | |
| Phy | Lab VI – Modern physics, spectroscopy | | | 2 |
| Qur'an | Qur'an Translation I (Ikhlaqiaat) | | 1 | |
| | | Total | 16 | 2 |

| Semester VII | | Credit Hrs. | |
|--------------|--|-------------|-----|
| | | Theory | Lab |
| Phy | Quantum Mechanics-II | 3 | |
| Phy | Atomic & Molecular Physics | 3 | |
| Phy | Solid State Physics-I | 3 | |
| Phy | Nuclear Physics | 3 | |
| Phy | Elective-I | 3 | |
| Phy | Lab VII – Atomic physics, solid state physics, | | 2 |
| | Total | 15 | 2 |

| Semester VIII | | Credit Hrs. | |
|---------------|--------------------------------|-------------|------|
| İ | | Theory | Labs |
| Phy | Solid State Physics-II | 3 | |
| Phy | Elective-II | 3 | |
| Phy | Elective-III | 3 | |
| Phy | Elective-IV | 3 | |
| Phy | Research Project | 3 | |
| | Total | 15 | |
| | Program TotalCredit Hours(139) | 127 | 12 |

List of elective courses: All following courses are 3+0 credit hours.

Techniques of Experimental Physics, Computational Physics, Laser Physics, Plasma Physics, Introduction to Quantum Information and Computation, Condensed Matter Physics, Particle Physics, High Energy Physics, Introduction to Material Science, Introduction to Photonics, Radiation Physics, Nanoscience and Nanotechnology, Environmental Physics.