

PRE-REQUISITE COURSES for BS Physics for Batch 2023 and Onward

First Year

Second Year

Third Year

Final Year

Fall

CT-174 Fundamental of Information Technology
MT-173 Calculus
PH-101 Mechanics and Properties of Matter
PH-102 Heat and Thermodynamics
HS-104 Functional English
PH-103 Physics Lab-I
HS-105/ HS-127 Pakistan Studies OR Pakistan Studies (For Foreigners)
MT-100 Introduction to Mathematics (For Pre- Medical Students)

CT-262 Introduction to Artificial Intelligence
PH-207 Optics and Lasers
PH-202 Modern Physics
MT-272 Linear Algebra and Geometry
EL-232 Electronics

PH-310 Solid State Physics-I
PH-301 Quantum Mechanics-I
PH-304 Electromagnetic Theory-I
PH-303 Mathematical Physics-I
HS-301 Business and Organizational Communication
PH-206 Physics Lab-IV

PH-308 Quantum Mechanics - II
PH-409 Atomic and Molecular Physics
HS-### Foreign Language-II
PH-312 Physics Lab-VI
PH-407 Physics Project
##-### Elective-I
PH-418 Computational Physics
PH-417 Nuclear Physics

Spring

HS-205 Islamic Studies OR HS-209 Ethical Behavior (For Non-Muslims)
MT-227 Differential Equations
CT-175 Programming Fundamentals
PH-104 Waves and Oscillations
PH-105 Electricity and Magnetism
PH-106 Physics Lab-II
CY-122 General Chemistry

PH-205 Classical Mechanics
PH-204 Introduction to Material Science
MT-331 Probability and Statistics
HS-214 Academic Writing
EL-238 Digital Electronics
PH-203 Physics Lab-III
HS-200 Community Service

PH-307 Mathematical Physics-II
PH-415 Statistical Mechanics
PH-403 Solid State Physics-II
PH-309 Electromagnetic Theory-II
PH-312 Physics Lab-V
MG-110 Fundamentals of Management
HS-### Foreign Language-I

PH-407 Physics Project
##-### Elective-I
##-### Elective-II
##-### Elective-III
MG-481 Entrepreneurship