

## Bachelor of Science in Electronic Physics

## The Program Structure:

Course Code	BS: First Semester Courses	Credit
PHY 101	Communication Skills	2
PHY 102	Descriptive Statistics & Probability	3
PHY 103	Computer Fundamentals & Applications	3
PHY 104	Introduction to Earth Science	2
PHY 105	Linear Algebra and Geometry	5
PHY 106	Calculus	5
	TOTAL CREDITS	20
Course Code	BS: Second Semester Courses	Credit
PHY 111	Introduction to Physics	2
PHY 112	Introduction to Classical Mechanics	3
PHY 113	Introduction to Wave Motor & Heat	3
PHY 114	Introduction to Electricity & Magnetism	2
PHY 115	Organic Chemistry	5
PHY 116	General Mathematics	5
	TOTAL CREDITS	20
Course Code	BS: Third Semester Courses	Credit
PHY 201	Circuit Theory	2
PHY 202	Biophysics	3
PHY 203	Physics of Materials	3
PHY 204	Industrial Electronics	2
PHY 205	Electronics & Communication Technology	5
PHY 206	Thermodynamics TOTAL CREDITS	5 <b>20</b>
	TOTAL CREDITS	20
Carrea Cada	DC. Fountly Composition Courses	Consulta
Course Code	BS: Fourth Semester Courses	Credit
PHY 211	Probability and Statistics	2
PHY 211 PHY 212	Probability and Statistics Mechanics and Fluids	2
PHY 211 PHY 212 PHY 213	Probability and Statistics Mechanics and Fluids Electromagnetism	2 3 3
PHY 211 PHY 212 PHY 213 PHY 214	Probability and Statistics Mechanics and Fluids Electromagnetism Numerical and Computational Methods	2 3 3 2
PHY 211 PHY 212 PHY 213	Probability and Statistics Mechanics and Fluids Electromagnetism Numerical and Computational Methods Mathematical Methods	2 3 3
PHY 211 PHY 212 PHY 213 PHY 214 PHY 215	Probability and Statistics Mechanics and Fluids Electromagnetism Numerical and Computational Methods	2 3 3 2 5
PHY 211 PHY 212 PHY 213 PHY 214 PHY 215	Probability and Statistics Mechanics and Fluids Electromagnetism Numerical and Computational Methods Mathematical Methods Solid State Physics	2 3 3 2 5 5
PHY 211 PHY 212 PHY 213 PHY 214 PHY 215 PHY 216	Probability and Statistics Mechanics and Fluids Electromagnetism Numerical and Computational Methods Mathematical Methods Solid State Physics  TOTAL CREDITS  BS: Fifth Semester Courses	2 3 3 2 5 5
PHY 211 PHY 212 PHY 213 PHY 214 PHY 215 PHY 216  Course Code	Probability and Statistics Mechanics and Fluids Electromagnetism Numerical and Computational Methods Mathematical Methods Solid State Physics  TOTAL CREDITS  BS: Fifth Semester Courses Special Relativity	2 3 3 2 5 5 20 Credit
PHY 211 PHY 212 PHY 213 PHY 214 PHY 215 PHY 216  Course Code PHY 301	Probability and Statistics Mechanics and Fluids Electromagnetism Numerical and Computational Methods Mathematical Methods Solid State Physics  TOTAL CREDITS  BS: Fifth Semester Courses	2 3 3 2 5 5 5 <b>20</b> <b>Credit</b>
PHY 211 PHY 212 PHY 213 PHY 214 PHY 215 PHY 216  Course Code PHY 301 PHY 302	Probability and Statistics Mechanics and Fluids Electromagnetism Numerical and Computational Methods Mathematical Methods Solid State Physics  TOTAL CREDITS  BS: Fifth Semester Courses  Special Relativity Nuclear and Particle Physics	2 3 3 2 5 5 5 <b>20</b> <b>Credit</b> 2 3
PHY 211 PHY 212 PHY 213 PHY 214 PHY 215 PHY 216  Course Code PHY 301 PHY 302 PHY 303	Probability and Statistics Mechanics and Fluids Electromagnetism Numerical and Computational Methods Mathematical Methods Solid State Physics  TOTAL CREDITS  BS: Fifth Semester Courses  Special Relativity Nuclear and Particle Physics Statistical Physics	2 3 3 2 5 5 5 <b>20</b> <b>Credit</b> 2 3 3
PHY 211 PHY 212 PHY 213 PHY 214 PHY 215 PHY 216  Course Code PHY 301 PHY 302 PHY 303 PHY 304	Probability and Statistics Mechanics and Fluids Electromagnetism Numerical and Computational Methods Mathematical Methods Solid State Physics  TOTAL CREDITS  BS: Fifth Semester Courses  Special Relativity Nuclear and Particle Physics Statistical Physics Materials - Introduction and Basics	2 3 3 2 5 5 5 <b>20</b> <b>Credit</b> 2 3 3 2
PHY 211 PHY 212 PHY 213 PHY 214 PHY 215 PHY 216  Course Code PHY 301 PHY 302 PHY 303 PHY 304 PHY 305	Probability and Statistics Mechanics and Fluids Electromagnetism Numerical and Computational Methods Mathematical Methods Solid State Physics  TOTAL CREDITS  BS: Fifth Semester Courses  Special Relativity Nuclear and Particle Physics Statistical Physics Materials - Introduction and Basics Materials - Metals and Semiconductors	2 3 3 2 5 5 20 Credit 2 3 3 2 5
PHY 211 PHY 212 PHY 213 PHY 214 PHY 215 PHY 216  Course Code PHY 301 PHY 302 PHY 303 PHY 304 PHY 305	Probability and Statistics Mechanics and Fluids Electromagnetism Numerical and Computational Methods Mathematical Methods Solid State Physics  TOTAL CREDITS  BS: Fifth Semester Courses  Special Relativity Nuclear and Particle Physics Statistical Physics Materials - Introduction and Basics Materials - Metals and Semiconductors Microprocessors and Microcontrollers	2 3 3 2 5 5 20 Credit 2 3 3 2 5 5
PHY 211 PHY 212 PHY 213 PHY 214 PHY 215 PHY 216  Course Code PHY 301 PHY 302 PHY 303 PHY 304 PHY 305 PHY 306	Probability and Statistics Mechanics and Fluids Electromagnetism Numerical and Computational Methods Mathematical Methods Solid State Physics  TOTAL CREDITS  BS: Fifth Semester Courses Special Relativity Nuclear and Particle Physics Statistical Physics Materials - Introduction and Basics Materials - Metals and Semiconductors Microprocessors and Microcontrollers	2 3 3 2 5 5 5 <b>20</b> <b>Credit</b> 2 3 3 2 5 5 5 <b>Credit</b>
PHY 211 PHY 212 PHY 213 PHY 214 PHY 215 PHY 216  Course Code PHY 301 PHY 302 PHY 303 PHY 304 PHY 305 PHY 306  Course Code	Probability and Statistics Mechanics and Fluids Electromagnetism Numerical and Computational Methods Mathematical Methods Solid State Physics  TOTAL CREDITS  BS: Fifth Semester Courses  Special Relativity Nuclear and Particle Physics Statistical Physics Materials - Introduction and Basics Materials - Metals and Semiconductors Microprocessors and Microcontrollers  TOTAL CREDITS  BS: Sixth Semester Courses	2 3 3 2 5 5 5 20 Credit 2 3 3 2 5 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
PHY 211 PHY 212 PHY 213 PHY 214 PHY 215 PHY 216  Course Code PHY 301 PHY 302 PHY 303 PHY 304 PHY 305 PHY 306  Course Code PHY 311 PHY 312 PHY 313	Probability and Statistics Mechanics and Fluids Electromagnetism Numerical and Computational Methods Mathematical Methods Solid State Physics  TOTAL CREDITS  BS: Fifth Semester Courses  Special Relativity Nuclear and Particle Physics Statistical Physics Materials - Introduction and Basics Materials - Metals and Semiconductors Microprocessors and Microcontrollers  TOTAL CREDITS  BS: Sixth Semester Courses  Structured Programming Programming with Objects Data Communication & Networking	2 3 3 2 5 5 5 20 Credit 2 3 3 2 5 5 5 5 Credit 2 2 3 3 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
PHY 211 PHY 212 PHY 213 PHY 214 PHY 215 PHY 216  Course Code PHY 301 PHY 302 PHY 303 PHY 304 PHY 305 PHY 306  Course Code PHY 311 PHY 312 PHY 313 PHY 314	Probability and Statistics Mechanics and Fluids Electromagnetism Numerical and Computational Methods Mathematical Methods Solid State Physics  TOTAL CREDITS  BS: Fifth Semester Courses  Special Relativity Nuclear and Particle Physics Statistical Physics Materials - Introduction and Basics Materials - Metals and Semiconductors Microprocessors and Microcontrollers  TOTAL CREDITS  BS: Sixth Semester Courses  Structured Programming Programming with Objects Data Communication & Networking Quantum Physics	2 3 3 2 5 5 20 Credit 2 3 3 2 5 5 5 20 Credit 2 3 3 2 5 5 5
PHY 211 PHY 212 PHY 213 PHY 214 PHY 215 PHY 216  Course Code PHY 301 PHY 302 PHY 303 PHY 304 PHY 305 PHY 306  Course Code PHY 311 PHY 312 PHY 313	Probability and Statistics Mechanics and Fluids Electromagnetism Numerical and Computational Methods Mathematical Methods Solid State Physics  TOTAL CREDITS  BS: Fifth Semester Courses  Special Relativity Nuclear and Particle Physics Statistical Physics Materials - Introduction and Basics Materials - Metals and Semiconductors Microprocessors and Microcontrollers  TOTAL CREDITS  BS: Sixth Semester Courses  Structured Programming Programming with Objects Data Communication & Networking	2 3 3 2 5 5 5 20 Credit 2 3 3 2 5 5 5 7 20 Credit 2 3 3 2 5 5 5 7 7

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