

Doctor of Philosophy (PhD) in Electronic Physics

YEAR ONE

Course Code	PhD: First Semester Courses Year 1	Credit
PHY 901	Descriptive Statistics & Probability	2
PHY 902	Computer Fundamentals & Applications	3
PHY 903	Linear Algebra and Geometry	3
PHY 904	Industrial Electronics	2
PHY 905	Electronic & Communication Technology	2
PHY 906	Probability and Statistics	3
TOTAL CREDITS		15
Course Code	PhD: Second Semester Courses Year 1	Credit
PHY 911	Mechanics and Fluids	2
PHY 912	Electromagnetism	3
PHY 913	Numerical and Computational Methods	3
PHY 914	Mathematical Methods	2
PHY 915	Solid State Physics	2
PHY 916	Year One: Independent Research I	3
TOTAL CREDITS		15

YEAR TWO

Course Code	PhD: First Semester Courses Year 2	Credit
PHY 921	Special Relativity	2
PHY 922	Nuclear and Particle Physics	3
PHY 923	Statistical Physics	3
PHY 924	Materials- Introduction and Basics	2
PHY 925	Materials- Metals and Semiconductors	2
PHY 926	Microprocessors and Microcontrollers	3
TOTAL CREDITS		15
Course Code	PhD: Second Semester Courses Year 2	Credit
PHY 1001	Structured Programming	2
PHY 1002	Programming with Objects	3
PHY 1003	Data Communication & Networking	3
PHY 1004	Quantum Physics	2
PHY 1005	Thermodynamics	2
PHY 1006	Year Two: Independent Research II	3
TOTAL CREDITS		15



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YEAR THREE

Course Code	PhD: First Semester Courses Year 3	Credit
PHY 1011	Digital Signal Processing	2
PHY 1012	Programming Logic Controllers Radio	3
PHY 1013	Wave Propagation and Antenna	3
PHY 1014	Physics Laboratory	2
PHY 1015	Computational Physics	2
PHY 1016	Optical Fiber Communication	3
TOTAL CREDITS		15
Course Code	PhD: Second Semester Courses Year 3	Credit
PHY 1021	Digital Communication	2
PHY 1022	Embedded System	3
PHY 1023	Programmable Peripheral Interfaces	3
PHY 1024	Statistical Mechanics	2
PHY 1025	Year Three: PhD Research Thesis	5
TOTAL CREDITS		15

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