

# Doctor of Philosophy (PhD) in Electronic Physics

## YEAR ONE

Course Code	PhD: First Semester Courses Year 1	Credit
PHY 901	Descriptive Statistics & Probability	5
PHY 902	Computer Fundamentals & Applications	5
PHY 903	Linear Algebra and Geometry	5
PHY 904	Industrial Electronics	5
PHY 905	Electronic & Communication Technology	5
PHY 906	Probability and Statistics	5
<b>TOTAL CREDITS</b>		<b>30</b>
Course Code	PhD: Second Semester Courses Year 1	Credit
PHY 911	Mechanics and Fluids	5
PHY 912	Electromagnetism	5
PHY 913	Numerical and Computational Methods	5
PHY 914	Mathematical Methods	5
PHY 915	Solid State Physics	5
PHY 916	Year One: PhD Research Thesis	5
<b>TOTAL CREDITS</b>		<b>30</b>

## YEAR TWO

Course Code	PhD: First Semester Courses Year 2	Credit
PHY 921	Special Relativity	5
PHY 922	Nuclear and Particle Physics	5
PHY 923	Statistical Physics	5
PHY 924	Materials- Introduction and Basics	5
PHY 925	Materials- Metals and Semiconductors	5
PHY 926	Microprocessors and Microcontrollers	5
<b>TOTAL CREDITS</b>		<b>30</b>
Course Code	PhD: Second Semester Courses Year 2	Credit
PHY 1001	Structured Programming	5
PHY 1002	Programming with Objects	5
PHY 1003	Data Communication & Networking	5
PHY 1004	Quantum Physics	5
PHY 1005	Thermodynamics	5
PHY 1006	Year Two: PhD Research Thesis	5
<b>TOTAL CREDITS</b>		<b>30</b>



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## YEAR THREE

Course Code	PhD: First Semester Courses Year 3	Credit
PHY 1011	Digital Signal Processing	5
PHY 1012	Programming Logic Controllers Radio	5
PHY 1013	Wave Propagation and Antenna	5
PHY 1014	Physics Laboratory	5
PHY 1015	Computational Physics	5
PHY 1016	Optical Fiber Communication	5
<b>TOTAL CREDITS</b>		<b>30</b>
Course Code	PhD: Second Semester Courses Year 3	Credit
PHY 1021	Digital Communication	5
PHY 1022	Embedded System	5
PHY 1023	Programmable Peripheral Interfaces	5
PHY 1024	Statistical Mechanics	5
PHY 1025	Year Three: PhD Research Thesis	10
<b>TOTAL CREDITS</b>		<b>30</b>

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