

Doctor of Philosophy (PhD) in Telecommunication Engineering

YEAR ONE

Course Code	PhD: First Semester Courses Year 1	Credit
ENG 901	Adaptive and Array Signal Processing	2
ENG 902	Broadband Communication Networks	3
ENG 903	Engineering Management	3
ENG 904	System-on-Chip Technologies	2
ENG 905	Differential Navigation	2
ENG 906	Coding Theory	3
TOTAL CREDITS		15
Course Code	PhD: Second Semester Courses Year 1	Credit
ENG 911	Wireless Communications Systems	2
ENG 912	Optical Communication Systems	3
ENG 913	Pattern Recognition	3
ENG 914	Circuit Theory and Communication	2
ENG 915	Descriptive Statistics & Probability	2
ENG 916	Year One: Independent Research I	3
TOTAL CREDITS		15

YEAR TWO

Course Code	PhD: First Semester Courses Year 2	Credit
ENG 921	Computer Fundamentals & Applications	2
ENG 922	Linear Algebra and Geometry	3
ENG 923	Physics of Materials	3
ENG 924	Industrial Electronics	2
ENG 925	Electronics & Communication Technology	2
ENG 926	Probability and Statistics	3
TOTAL CREDITS		15
Course Code	PhD: Second Semester Courses Year 2	Credit
ENG 1001	Mechanics Fluids	2
ENG 1002	Electromagnetism	3
ENG 1003	Numerical and Computational Methods	3
ENG 1004	Mathematics Methods	2
ENG 1005	Solid State Physics	2
ENG 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
ENG 1011	Special Relativity	2
ENG 1012	Nuclear and Particle Physics	3
ENG 1013	Statistics Physics	3
ENG 1014	Materials - Introduction and Basics	2
ENG 1015	Materials- Metal and Semiconductors	2
ENG 1016	Microprocessors and Microcontrollers	3
TOTAL CREDITS		15
Course Code	PhD: Second Semester Courses Year 3	Credit
ENG 1021	Structured Programming	2
ENG 1022	Programming with Objects	3
ENG 1023	Data Communication & Networking	3
ENG 1024	Quantum Physics	2
ENG 1025	Year Three: PhD Research Thesis	5
TOTAL CREDITS		15

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