

Doctor of Philosophy (PhD) in Engineering Management

YEAR ONE

Course Code	PhD: First Semester Courses Year 1	Credit
ENGM 901	Technical Communication	2
ENGM 902	Engineering Graphics	3
ENGM 903	Machine Learning	3
ENGM 904	Applied Electricity/Electronics	2
ENGM 905	Statistics and Strength of Material	2
ENGM 906	Material Science	3
TOTAL CREDITS		15
Course Code	PhD: Second Semester Courses Year 1	Credit
ENGM 911	Digital Signal Processing	2
ENGM 912	Engineering Asset Management	3
ENGM 913	Environmental System Engineering	3
ENGM 914	Engineering Theory and Practice	2
ENGM 915	Work Analysis and Design	2
ENGM 916	Year One: Independent Research I	3
TOTAL CREDITS		15

YEAR TWO

Course Code	PhD: First Semester Courses Year 2	Credit
ENGM 921	Engineering Cost Analysis	2
ENGM 922	Systems Decision Making	3
ENGM 923	Operations Planning and Control	3
ENGM 924	Quality Assurance and Control	2
ENGM 925	Human Resource Management	2
ENGM 926	Supervision of Industrial Operations	3
TOTAL CREDITS		15
Course Code	PhD: Second Semester Courses Year 2	Credit
ENGM 1001	Electronic Circuits	2
ENGM 1002	Engineering Thermodynamics	3
ENGM 1003	Plant Layout and Material Handling	3
ENGM 1004	Cultures and Civilizations	2
ENGM 1005	Power Electronics	2
ENGM 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
ENGM 1011	Cost Analysis	2
ENGM 1012	Organizational Psychology and Human Resources	3
ENGM 1013	Corporate Finance	3
ENGM 1014	Global Logistics Management	2
ENGM 1015	Renewable Energy	2
ENGM 1016	Industrial Systems Management	3
TOTAL CREDITS		15
Course Code	PhD: Second Semester Courses Year 3	Credit
ENGM 1021	Control and Instrumentation	2
ENGM 1022	Embedded Systems	3
ENGM 1023	Electromagnetic Compatibility	3
ENGM 1024	Dynamics and Control	2
ENGM 1025	Year Three: PhD Research Thesis	5
TOTAL CREDITS		15

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