

Master of Science in Engineering and Technology Management

Course Work Only Curriculum

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Engineering Management Concentration			Management of Technology Concentration			Construction Concentration			Data Science Concentration			Aviation Management Concentration		
Core Courses		24	Core Courses		6	Core Courses		6	Core Courses		6	Core Courses		6
EMGT 5073	Engineering Administration	3	EMGT 5183	Project Management	3	EMGT 5183	Project Management	3	EMGT 5183	Project Management	3	EMGT 5183	Project Management	3
EMGT 5093	Economics and Decision Making	3	INEN 5143	Statistical Analysis for Six Sigma	3	INEN 5143	Statistical Analysis for Six Sigma	3	INEN 5143	Statistical Analysis for Six Sigma	3	INEN 5143	Statistical Analysis for Six Sigma	3
EMGT 5183	Project Management	3	Quantitative Analysis and Management (Pick 3 Courses)			9	Quantitative Analysis and Management (Pick 4 Courses)			12	Quantitative Analysis and Management (Pick 4 Courses)			12
EMGT 5253	Engineering Finance	3	EMGT 5073	Engineering Administration	3	EMGT 5073	Engineering Administration	3	EMGT 5073	Engineering Administration	3	EMGT 5073	Engineering Administration	3
INEN 5023	Operations Research Methods	3	EMGT 5093	Economics and Decision Making	3	EMGT 5093	Economics and Decision Making	3	EMGT 5093	Economics and Decision Making	3	EMGT 5093	Economics and Decision Making	3
INEN 5053	Manufacturing and Operations Analysis	3	EMGT 5253	Engineering Finance	3	EMGT 5253	Engineering Finance	3	EMGT 5253	Engineering Finance	3	EMGT 5253	Engineering Finance	3
INEN 5113	Theory and Application of Lean Manufacturing and Management	3	INEN 5023	Operations Research Methods	3	INEN 5023	Operations Research Methods	3	INEN 5023	Operations Research Methods	3	INEN 5023	Operations Research Methods	3
INEN 5143	Statistical Analysis for Six Sigma	3	INEN 5043	Systems Simulation	3	INEN 5043	Systems Simulation	3	INEN 5043	Systems Simulation	3	INEN 5043	Systems Simulation	3
			INEN 5053	Manufacturing and Operations Analysis	3	INEN 5053	Manufacturing and Operations Analysis	3	INEN 5053	Manufacturing and Operations Analysis	3	INEN 5053	Manufacturing and Operations Analysis	3
			INEN 5203	Six Sigma Black Belt Project	3	INEN 5203	Six Sigma Black Belt Project	3	INEN 5203	Six Sigma Black Belt Project	3	INEN 5203	Six Sigma Black Belt Project	3
			INEN 5663	Six Sigma and Quality Control	3	INEN 5663	Six Sigma and Quality Control	3	INEN 5663	Six Sigma and Quality Control	3	INEN 5663	Six Sigma and Quality Control	3
			MGMT 5373	Human Resource Management	3	MGMT 5373	Human Resource Management	3	MGMT 5373	Human Resource Management	3	MGMT 5373	Human Resource Management	3
			MGMT 5713	Organizational Behavior	3	MGMT 5713	Organizational Behavior	3	MGMT 5713	Organizational Behavior	3	MGMT 5713	Organizational Behavior	3
			PSYC 5133	Organizational Psychology	3	PSYC 5133	Organizational Psychology	3	PSYC 5133	Organizational Psychology	3	PSYC 5133	Organizational Psychology	3
			PSYC 5163	Industrial Psychology	3	PSYC 5163	Industrial Psychology	3	PSYC 5163	Industrial Psychology	3	PSYC 5163	Industrial Psychology	3
			STAT 5073	Design and Analysis of Experiments	3	STAT 5073	Design and Analysis of Experiments	3	STAT 5073	Design and Analysis of Experiments	3	STAT 5073	Design and Analysis of Experiments	3
			Science, Engineering, and Entrepreneurship (Pick 3 Courses)			9	Construction and Civil (Pick 3 Courses)			9	Data Science			9
			ELEN 5353	Advanced Topics in Microelectronics	3	CVEN 5023	Infrastructure Management	3	CSC 5303	Database Theory	3	PRAV 5013	The Aviation System	3
			ENGR 5543	Modern Energy Grand Challenges	3	CVEN 5033	Urban Hydrosystems Engineering	3	STAT 5093	Statistical Learning	3	PRAV 5023	Human Error in Aviation	3
			ENTR 5013	Technology Transfer and Commercialization	3	CVEN 5053	Buried Structures - Rehab and Management	3	Select one of the following two courses			Select one of the following three courses		

			ENTR 5103	Entrepreneurship and New Venture Creations	3	CVEN 5063	Above Ground Structures: Assessment and Rehabilitation	3	CSC 5763	Data Analytics Tools and Applications	3	PRAV 5033	Regulatory Process of Aviation	3	
			ENTR 5603	Innovative Venture Research	3	CVEN 5423	Sustainable Construction	3	INEN 5213	Introduction to Cognitive Systems Engineering	3	PRAV 5043	Current Issues in Aviation	3	
			MEMT 5083	Finite Element Analysis	3	CVEN 5803	Trenchless Technology	3				PRAV 5053	Legal Issues in Aviation	3	
			MSE 5013	Fundamentals of Fabrication Processes	3	MEMT 5083	Finite Element Analysis	3							
			MSE 5023	Microsystems Principles	3	Other courses approved by the advisor									
			MSE 5053	Nanotechnology Priciples	3										
			MSNT 5183	Molecular Biotechnology	3										
			Other courses approved by the advisor												
Electives (Pick 3 Courses)			9	Electives (Pick 3 Courses)		9	Electives (Pick 2 Courses)		6	Electives (Pick 2 Courses)		6	Electives (Pick 2 Courses)		6
BUSN 5013	Global Perspectives in Business Management	3	ACCT 5053	Accounting Analysis for Decision Making	3	ACCT 5053	Accounting Analysis for Decision Making	3	ACCT 5053	Accounting Analysis for Decision Making	3	ACCT 5053	Accounting Analysis for Decision Making	3	
CIS 5063	Advanced Business Analytics	3	BUSN 5013	Global Perspectives in Business Management	3	BUSN 5013	Global Perspectives in Business Management	3	BUSN 5013	Global Perspectives in Business Management	3	BUSN 5013	Global Perspectives in Business Management	3	
CIS 5213	Introduction to Information System Assurance	3	CIS 5063	Advanced Business Analytics	3	CIS 5063	Advanced Business Analytics	3	CIS 5063	Advanced Business Analytics	3	CIS 5063	Advanced Business Analytics	3	
ENTR 5013	Technology Transfer and Commercialization	3	CIS 5213	Introduction to Information System Assurance	3	CIS 5213	Introduction to Information System Assurance	3	CIS 5213	Introduction to Information System Assurance	3	CIS 5213	Introduction to Information System Assurance	3	
ENTR 5103	Entrepreneurship and New Venture Creation	3	FINC 5153	Financial Management	3	ENTR 5013	Technology Transfer and Commercialization	3	ENTR 5013	Technology Transfer and Commercialization	3	ENTR 5013	Technology Transfer and Commercialization	3	
ENTR 5603	Innovative Venture Research	3	INEN 5113	Theory and Application of Lean Manufacturing and Management	3	ENTR 5103	Entrepreneurship and New Venture Creation	3	ENTR 5103	Entrepreneurship and New Venture Creation	3	ENTR 5103	Entrepreneurship and New Venture Creation	3	
INEN 5043	Systems Simulation	3	INEN 5153	Logistics Planning	3	ENTR 5603	Innovative Venture Research	3	ENTR 5603	Innovative Venture Research	3	ENTR 5603	Innovative Venture Research	3	
INEN 5153	Logistics Planning	3	INEN 5213	Introduction to Cognitive Systems Engineering	3	FINC 5153	Financial Management	3	FINC 5153	Financial Management	3	FINC 5153	Financial Management	3	
INEN 5203	Six Sigma Black Belt Project	3	INEN 5573	Design for Six Sigma	3	INEN 5113	Theory and Application of Lean Manufacturing and Management	3	INEN 5113	Theory and Application of Lean Manufacturing and Management	3	INEN 5113	Theory and Application of Lean Manufacturing and Management	3	
INEN 5213	Introduction to Cognitive Systems Engineering	3	MKTG 5303	Marketing Management	3	INEN 5153	Logistics Planning	3	INEN 5153	Logistics Planning	3	INEN 5153	Logistics Planning	3	
INEN 5573	Design for Six Sigma	3	PSYC 5233	Leadership and Decision Making	3	INEN 5213	Introduction to Cognitive Systems Engineering	3	INEN 5213	Introduction to Cognitive Systems Engineering	3	INEN 5213	Introduction to Cognitive Systems Engineering	3	
INEN 5663	Six Sigma and Quality Control	3	Other electives approved by advisor			INEN 5573	Design for Six Sigma	3	INEN 5573	Design for Six Sigma	3	INEN 5573	Design for Six Sigma	3	
MGMT 5373	Human Resource Management	3				MKTG 5303	Marketing Management	3	MKTG 5303	Marketing Management	3	MKTG 5303	Marketing Management	3	
MGMT 5713	Organizational Behaviour	3				PSYC 5233	Leadership and Decision Making	3	PSYC 5233	Leadership and Decision Making	3	PSYC 5233	Leadership and Decision Making	3	
MKTG 5303	Marketing Management	3				Other electives approved by advisor			Other electives approved by advisor			Other electives approved by advisor			

PSYC 5133	Organizational Psychology	3												
PSYC 5163	Industrial Psychology	3												
PSYC 5233	Leadership and Decision Making	3												
STAT 5073	Design and Analysis of Experiments	3												
Other electives approved by advisor														
Total		33	Total		33	Total		33	Total		33	Total		33