

Postgraduate Program (M.T.)

First Year					
All Field Study			Operations and Supply Chain Engineering		
Semester 1			Semester 1		
Code	Course Name	Credits	Code	Course Name	Credits
TI185101	Advanced Industrial Statistics	2	UG184914	Advanced Industrial Statistics	2
TI185102	Advanced Operational Research	3	SF184202	Advanced Operations Research	3
TI185103	Cost and Investment Management	2	KM184201	Cost and Investment Management	2
TI185104	Advanced Production Planning & Control	3	TI184202	Advanced Production Planning and Inventory Control	3
Total credits at Semester 1		10	Total credits at Semester 1		10
Manufacturing System Engineering and Management			Industrial Systems Optimization Engineering		
Semester 2			Semester 2		
TI185211	Advanced Manufacturing Systems	3	TI185221	Quantitative Modeling	3
TI185212	Quality Engineering	3	TI185222	Industrial Systems Policy Analysis and Engineering	3
TI185201	Research methodology	2	TI185201	Research methodology	2
	Elective Course 1	2		Elective Course 1	2
Total credits at Semester 2		10	Total credits at Semester 2		10
Logistics and Supply Chain Management			Human Factors and Occupational Safety & Health Engineering		
Semester 2			Semester 2		
TI185231	Contemporary Logistic	3	TI185241	Industrial Ergonomics Applications	3
TI185232	Transportation & Distribution System Modeling	3	TI185242	Human Factors in Product Design and Development	3
TI185201	Research methodology	2	TI185201	Research methodology	2
	Elective Course 1	2		Elective Course 1	2
Total credits at Semester 2		10	Total credits at Semester 2		10
Engineering Management			Operations and Supply Chain Engineering		
Semester 2			Semester 2		
TI185251	Engineering Project Management	3	TI185231	Supply Chain Engineering	3
TI185252	Product Development and Commercialization	3	TI185212	Quality Engineering	3
TI185201	Research methodology	2		Elective Course 1	2
	Elective Course 1	3	TI185201	Research Methodology	2
Total credits at Semester 2		10	Total credits at Semester 2		10

Postgraduate Program (M.T.)

Second Year					
Manufacturing System Engineering and Management			Industrial Systems Optimization Engineering		
Semester 3			Semester 3		
TI185311	Green Manufacturing	3	TI185321	Material Management and Procurement	3
TI185312	Reliability Engineering	2	TI185322	Supply Chain Engineering	2
TI185301	Proposal Seminar	3	TI185301	Proposal Seminar	3
	Elective Course 2	2		Elective Course 2	2
Total credits at Semester 3		10	Total credits at Semester 3		10
Logistics and Supply Chain Management			Human Factors and Occupational Safety & Health Engineering		
Semester 3			Semester 3		
TI185331	Material Management and Procurement	2	TI185341	Occupational Safety and Health Systems Engineering	3
TI185332	Supply Chain Engineering	3	TI185342	Designing Work Methods	2
TI185301	Proposal Seminar	3	TI185301	Proposal Seminar	3
	Elective Course 2	2		Elective Course 2	2
Total credits at Semester 3		10	Total credits at Semester 3		10
Engineering Management			Operations And Supply Chain Engineering		
Semester 3			Semester 3		
TI185351	Knowledge Management	3	TI185341	OHS System	3
TI185352	Strategic Management	2	TI185301	Thesis Proposal	3
TI185301	Proposal Seminar	3	TI185361	Internship	4
	Elective Course 2	2		-	
Total credits at Semester 3		10	Total credits at Semester 3		10
All Field Study			Customized		
Semester 4			Semester 4		
TI185401	Thesis (or Case Study for OSCE)	6	TI185401	Case Study	8
Total credits at Semester 4		6	Total credits at Semester 4		8

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Elective Course					
Code	Course Name	Credits	Code	Course Name	Credits
TI184901	Productivity Analysis	3	TI184937	System Dynamics Methodology	3
TI184902	Computer Integrated Manufacturing	3	TI184938	Facility Layout Modelling	3
TI184903	Concurrent Engineering	3	TI184939	Constraint Theory	3
TI184904	Technology Management	3	TI184940	Game Theory	3
TI184905	Six Sigma	3	TI184941	Analysis Decision	3
TI184906	Sustainable Manufacturing	3	TI184947	Service Management	3
TI184907	Industrial Environmental Management	3	TI184948	Work management	3
TI184908	Quality Management	3	TI184949	Knowledge Management	3