

Undergraduate Program (S.T.)

First Year					
Semester 1			Semester 2		
Code	Course Name	Credits	Code	Course Name	Credits
UG1849xx	Religion Studies	2	UG184914	English	2
UG184912	Bahasa Indonesia	2	SF184202	Physics 2	3
SF184101	Physics 1	4	KM184201	Mathematics 2	3
UG184913	Civics	2	TI184202	Engineering Drawing	2
SK184101	Chemistry 1	3	UG184911	Pancasila	2
KM184101	Mathematics 1	3	TI184204	Engineering Materials	3
TI184101	Introduction to Industrial and System Engineering	2	TI184203	Engineering Statistics 1	3
Total credits at Semester 1		18	Total credits at Semester 2		18
Second Year					
Semester 3			Semester 4		
TI184305	Introduction to Economics	3	TI184411	Algorithm and Computer Programming	3
TI184306	Engineering Statistics 2	3	TI184412	Industrial Automation	3
TI184307	Cost Analysis and Estimation	3	TI184413	Method Engineering and Work Measurement	3
TI184308	Manufacturing Process	3	TI184414	Manufacturing System	3
TI184309	Ergonomics	3	TI184415	Engineering Economy	3
TI184310	Operation Research 1	3	TI184416	Operation Research 2	3
Total credits at Semester 3		18	Total credits at Semester 4		18
Third Year					
Semester 5			Semester 6		
TI184517	Quality Control Techniques	3	TI184623	Maintenance and Reliability Engineering	3
TI184518	Production Planning and Inventory Control	3	TI184624	Facility Planning	3
TI184519	Basic Mechanics Engineering	3	TI184625	System Modeling	3
TI184520	Product Design and Development	3	TI184626	Logistics System	3
TI184521	Organization and Human Resource Management	3	TI1849XX	Elective Course 1	3
TI184522	Industrial System Simulation	3	TI1849XX	Elective Course 2	3
Total credits at Semester 5		18	Total credits at Semester 6		18
Fourth Year					
Semester 7			Semester 8		
TI184727	Industrial Ecology	2	TI184830	Project Management	2
TI184728	Supply Chain Management	3	TI184831	Business Information System Design	3
TI184729	Industrial Planning	4	TI184832	Practical Work	2
UG184916	Concept of Technology	3	UG184915	Technopreneurship	2
TI1849XX	Elective Course 3	3	TI1849XX	Elective Course 4	3
	Enrichment Course (Interdepartmental course)	3	TI184833	Final Project	6
Total credits at Semester 7		18	Total credits at Semester 8		18

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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
TI184909	Experiment Design	3	TI184950	Corporate Strategy	3
TI184910	Quality Engineering	3	TI184951	Financial management	3
TI184911	Value Engineering	3	TI184952	Managerial Accounting	3
TI184912	Multi Criteria Decision Making	3	TI184953	Organizational Behaviour	3
TI184918	Industrial Ergonomics Applications	3	TI184954	Corporate Risk Management	3
TI184919	Ergo Safety *	3	TI184955	Industrial Cluster	3
TI184920	Ergonomic Macro	3	TI184956	e-Business and e-Commerce	3
TI184921	Design of Method and Work Studio	3	TI184957	Industrial Economics	3
TI184922	Physiology and Work Biomenikanika	3	TI184958	Agent Based Modelling	3
TI184923	Human Factors in Product Design	3	TI184959	Business Valuation	3
TI184924	Visual Ergonomics	3	TI184965	Enterprise Resource Planning (ERP)	3
TI184925	Human Reliability	3	TI184966	Material Management and Procurement	3
TI184926	Cognitive Ergonomics	3	TI184967	Air Transport Management	3
TI184927	Office Ergonomics	3	TI184968	Distribution Management	3
TI184933	Large-Scale Optimization	3	TI184969	Business Process Engineering	3
TI184934	Data Mining	3	TI184975	Industrial Internship I	3
TI184935	Metaheuristic Optimization	3	TI184976	Industrial Internship II	3
TI184936	Production Scheduling	3			