

Industrial Engineering Delivered In English Curriculum

1 st Year	
1 st Semester	Credit
Indonesian	2
Civics	2
Probability and Statistics	2
Basic Physics 1	4
Calculus 1	4
Basic Chemistry 1	3
Introduction to Industrial Engineering	2
Basic Physics Practicum	1
Harmony, Excellence, and Integrity	1
Total Credit	21
2 nd Semester	Credit
Basic Physics 2	4
Religion Education	2
Calculus 2	4
Basic Chemistry 2	3
Technical and Practical Drawing	3
English	2
Technological Literacy	2
Total Credit	20

2 nd Year	
3 rd Semester	Credit
Algorithms and Computer Programming	2
Material and Manufacturing Processes	3
Matrix and Vector Space	3
Engineering Mechanics	2
Operational Research 1	3
Introduction to Economics	2
Work System Design and Ergonomics	3
Industrial Engineering Practicum 1: Production Process and Work System Design	2
Total Credit	18

4th Semester		Credit
Calculus 3		3
Technical Economics		2
System Modelling		2
Operational Research 2		3
Production Planning and Control		2
Industrial Statistics		2
Industrial Psychology		2
Industrial Engineering Practicum 2: Production System Design and Industrial Optimization		2
Total Credit		18

3rd Year		
5th Semester		Credit
Occupational Health and Safety		2
Marketing Management		2
Cost Accounting		3
Product Development		2
Quality Control and Assurance		3
Industrial Organization Management System		2
Computer Simulation		2
Industrial Engineering Practicum 3: Product Development and Industrial Simulation		2
Total Credit		18
6th Semester		Credit
Supply Chain Management		2
Industrial Production and Automation System		2
Practical Work and Community Service		2
Company Analysis and Design		3
Analysis of Information System and Database Design		3
Facility Layout Design		3
Entrepreneurship		2
Industrial Engineering Practicum 4: Business and Industrial Facility Design		2
Total Credit		19

4th Year	
7th Semester	Credit
Pancasila	2
Analytical Data	2
Enterprise Resource Planning (ERP)	2
Industrial Project Management	2
Preparation of Scientific Proposals	2
WRAP/MBKM/Elective Courses I	3
WRAP/MBKM/Elective Courses II	3
WRAP/MBKM/Elective Courses III	3
Total Credit	19
8th Semester	Credit
Final Project	4
WRAP/MBKM/Elective Courses IV	3
WRAP/MBKM/Elective Courses V	3
Total Credit	10