

CURRICULUM

INDUSTRIAL ENGINEERING SMART INDUSTRY DOUBLE DEGREE WITH SWF

Academic Year 2022/2023

SEMESTER 1	SKS	ECTS	SEMESTER 2	SKS	ECTS
English 1	2	3	English 2	2	3
Calculus	3	4	Linear Algebra with Computational Application	3	4
Physics 1	2	3	Introduction to Industrial Automation	2	3
Physics Laboratory 1	1	1	Static and Strength of Materials	2	3
Algorithm, Programming and Data Structure	3	4	Modern Manufacturing Process	2	3
Chemistry	3	4	Modern Manufacturing Process Lab+Work	1	5
Material Science	2	3	Chemical Process Industry	2	3
Technical Drawing	3	4	Operation Research	4	5
Introduction To Industrial Engineering	2	3	Economy and Engineering Economic	3	4
			Ethics and Religious Philosophy	2	3
TOTAL	21	29	TOTAL	23	36
TOTAL	21	29	TOTAL	23	36
TOTAL SEMESTER 3	21 SKS	29 ECTS	TOTAL SEMESTER 4	23 SKS	36 ECTS
SEMESTER 3	SKS	ECTS	SEMESTER 4	SKS	ECTS
SEMESTER 3 English 3	SKS 2	ECTS 3	SEMESTER 4 English 4	SKS 2	ECTS
SEMESTER 3 English 3 Engineering Statistics Optimization and Artificial Intel-	SKS 2 3	ECTS 3 4	SEMESTER 4 English 4 Project Management	SKS 2 2	ECTS 3 3
SEMESTER 3 English 3 Engineering Statistics Optimization and Artificial Intelligence	SKS 2 3	ECTS 3 4 3	SEMESTER 4 English 4 Project Management Logistics and Supply Chain System	SKS 2 2 3	ECTS 3 3 4
SEMESTER 3 English 3 Engineering Statistics Optimization and Artificial Intelligence Production Planning and Control Ergonomics and Work System	SKS 2 3 2 3	3 4 3 4	SEMESTER 4 English 4 Project Management Logistics and Supply Chain System Quality Control and Assurance	SKS 2 2 3 3	ECTS 3 3 4 4
SEMESTER 3 English 3 Engineering Statistics Optimization and Artificial Intelligence Production Planning and Control Ergonomics and Work System Design	SKS 2 3 2 3 3	3 4 3 4	SEMESTER 4 English 4 Project Management Logistics and Supply Chain System Quality Control and Assurance Human Machine Interaction	SKS 2 2 3 3 2	ECTS 3 3 4 4 3
SEMESTER 3 English 3 Engineering Statistics Optimization and Artificial Intelligence Production Planning and Control Ergonomics and Work System Design Product Lifecycle Management	SKS 2 3 2 3 3 3	ECTS 3 4 3 4 4 4	SEMESTER 4 English 4 Project Management Logistics and Supply Chain System Quality Control and Assurance Human Machine Interaction Lean Operations	SKS 2 2 3 3 2 2 2	ECTS 3 3 4 4 3 3
SEMESTER 3 English 3 Engineering Statistics Optimization and Artificial Intelligence Production Planning and Control Ergonomics and Work System Design Product Lifecycle Management Facilities Planning and Analysis	SKS 2 3 2 3 3 3 3	ECTS 3 4 3 4 4 4 4	SEMESTER 4 English 4 Project Management Logistics and Supply Chain System Quality Control and Assurance Human Machine Interaction Lean Operations Pancasila and Civic	SKS 2 2 3 3 2 2 3	ECTS 3 3 4 4 3 3 4

SEMESTER 5	SKS	ECTS	SEMESTER 6	SKS
Internship 1	2	10	Internship 2 (International Internship)	6
Industrial Automation	3	6		
Circular Economy and Sustainability	2	3		
Elective 1	3	6		
Elective 2	3	6		
Elective 3	2	3		
Elective 4	2	3		
Elective 5	2	3		
TOTAL	19	40	TOTAL	6

SEMESTER 7	SKS	ECTS
English 5 (Academic Writing)	2	3
Research Methodology	2	3
Industrial Engineering System Design	3	4
System Modeling and Simulation	3	4
Enterprise & Industrial Information System	3	4
Human Capital Management and Organizational Behavior	2	3
Business Intelligence, Analytics, and Data Science	3	4
Industrial System Maintenance	3	5
TOTAL	21	30

SEMESTER 8	SKS	ECTS
Oral Final Study Examination (OFSE) / Professional Competence Assessment (PCA)	3	4
Professional Competence Assessment (PCA) Preparation	1	1
Character and Professional Development Program (CPDP)	2	0
Bachelor Thesis	6	15

ELECTIVE SUBJECTS:		
Service Systems Engineering and Management	3	6
Analytical & Creative Thinking	3	6
Relational Database Design & Lab	3	6
Entrepreneurship and Business Development	2	3
Business Creation	2	3
Business Communication		3
International Global Challenge		3
Enterprise Resource Planning		3

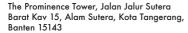
Total Compulsory: 144 SKS
Total ECTS: 244 ECTS
SKS: Satuan Kredit Semester

TOTAL

ECTS: European Credit Transfer System



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ECTS 30

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