



CURRICULUM

INDUSTRIAL ENGINEERING SMART INDUSTRY DOUBLE DEGREE WITH SWF

Academic Year 2022/2023

SEMESTER 1			SEMESTER 2		
	SKS	ECTS		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

SEMESTER 3			SEMESTER 4		
	SKS	ECTS		SKS	ECTS
English 3	2	3	English 4	2	3
Engineering Statistics	3	4	Project Management	2	3
Optimization and Artificial Intelligence	2	3	Logistics and Supply Chain System	3	4
Production Planning and Control	3	4	Quality Control and Assurance	3	4
Ergonomics and Work System Design	3	4	Human Machine Interaction	2	3
Product Lifecycle Management	3	4	Lean Operations	2	3
Facilities Planning and Analysis	3	4	Pancasila and Civic	3	4
Cost Control and Analysis	2	3	Integrated System Practical Lab	2	3
Indonesian Language	2	3			
TOTAL	23	32	TOTAL	19	27

SEMESTER 5	SKS	ECTS
Internship 1	2	10
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

SEMESTER 6	SKS	ECTS
Internship 2 (International Internship)	6	30
TOTAL	6	30

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
TOTAL	12	20

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	2	3
International Global Challenge	2	3
Enterprise Resource Planning	2	3

Total Compulsory : 144 SKS

Total ECTS : 244 ECTS

SKS : Satuan Kredit Semester

ECTS : European Credit Transfer System

SWISS GERMAN UNIVERSITY

The Prominence Tower, Jalan Jalur Sutera
Barat Kav 15, Alam Sutera, Kota Tangerang,
Banten 15143

   @swissgermanuniv

0811 8010 600
marketing hotline SCU

sgu.ac.id