



# INFORMATION TECHNOLOGY : TECHNOPRENEURSHIP



Our Partner:





## Why Information Technology : Technopreneurship

The emergence of startups around the world shows that the world will continue to need people with Information Technology insights, along with business skills. Since 2013, Swiss German University has also directed students to build startups. Some of them even won a grant funding competition from the Ministry of Research, Technology and Higher Education (Kemenristek) /BRIN in Calon Perusahaan Pemula Berbasis Teknologi scheme. The Information Technology - Technopreneurship study program was developed for those of you who also want to have a career as a startup founder. Our Technopreneurship students can collaborate with Business Management students to build a startup team in groups, to produce a minimum eligible product (MVP) which will be launched during the thesis exam.

### Career Prospect

Graduates with a Bachelor's degree in Information Technology Technopreneurship are prepared to become entrepreneurs in the IT field. In addition, they also enjoy excellent, diverse, and global job opportunities.

IT careers range from Tech Startup Founder/Co-founder, Innovation Consultant, Product Manager, Technology Project Manager, to IT Consultant, as well as other professions related to IT.

*Alumni of the Information Technology Study Program have been accepted into top-tier firms, and the study program has established industry partnership with:*



### International Academic Experience:

- Joint Degree Program with **Fachhochschule Südwestfalen** (approx. 7 months), or **Hochschule Albstadt-Sigmaringen** (approx. 12 months), results in earning both Sarjana Komputer (S.Kom.) and Bachelor of Engineering (B.Eng.) degrees.
- Internship program to ensure students receive global professional experience.
- Experience student exchange in several European and Asian countries.
- Accelerate Success with the **SGU-University of Missouri - Kansas City** Fast Track Program

# CURRICULUM

DOUBLE DEGREE  
Academic Year 2024/2025

## SEMESTER 1

English 1  
Algorithms and Object-Oriented Programming & Lab  
Data Science Programming Language  
Relational Database Design & Lab  
Discrete Mathematics  
Web Design Fundamental  
Analytical & Creative Thinking  
Statistics for Data Science  
Linux Fundamental & Computer Network  
[Extracurricular Courses](#)  
German Language and Culture 1

## SEMESTER 3

English 3  
Client-side Front-End Web Development  
Personal & Professional Development  
Non-Relational Database Design & Lab  
Advanced Object-Oriented Programming  
Computer Security & Lab  
UI/UX Design & Evaluation  
Back-end System Administration  
[Extracurricular Courses](#)  
German Language and Culture 3

## SEMESTER 5

JOINT DEGREE (HOCHSCHULE ALBSTADT-SIGMARINGEN)  
Social Engineering  
Introduction to Cyberpsychology  
Digital Forensics  
Offensive Security Methods  
Cyber Security Awareness and Behaviour  
IT Security Management  
Mobile and Cloud Forensics  
[Extracurricular Courses](#)  
German as Foreign Language  
JOINT DEGREE (FACHHOCHSCHULE SÜDWESTFALEN)  
Internship 1

## SEMESTER 7

English 5  
Research Methodology  
Bahasa Indonesia  
Data Mining  
Native Mobile App Development & Lab  
Secure Software Development Life Cycle  
Business Development  
Business Coaching  
Full-stack Data Analytics Project in Business  
OPTIONAL FOR JOINT DEGREE (FACHHOCHSCHULE SÜDWESTFALEN)  
English 5  
Research Methodology  
Bahasa Indonesia  
Internship in Germany

## SEMESTER 2

English 2  
Data Structures & Algorithms  
Server-side Web Programming  
Web Development Life Cycle Project  
Introduction to Entrepreneurship  
Ethics & Religious Philosophy  
Linear Algebra for Data Science  
Probability for Data Science  
System Admin & Maintenance  
[Extracurricular Courses](#)  
German Language and Culture 2

## SEMESTER 4

English 4  
Back-End Web Development & tools  
Framework-based Web Programming  
Pancasila & Civic  
Network Security & Lab  
Mobile Web Service & API (Middleware)  
Digital Marketing for Entrepreneurship  
Applied Data Analytics for Business  
[Extracurricular Courses](#)  
German Language and Culture 4

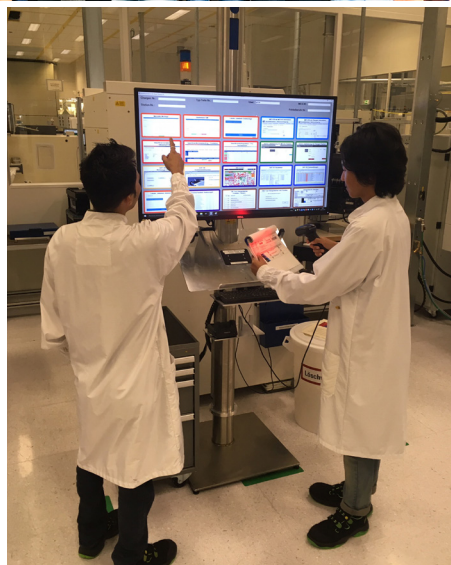
## SEMESTER 6

JOINT DEGREE (HOCHSCHULE ALBSTADT-SIGMARINGEN)  
Internship 2 (6 Months)  
JOINT DEGREE (FACHHOCHSCHULE SÜDWESTFALEN)  
Basics of Electrical Engineering  
Introduction to Project Management  
Model Based Design  
Internship 2 / Project-Based Learning (1,5 Months)  
[Elective Subjects](#)  
Current Developments in Business IT: Basics in Python  
Advanced Programming  
Information Systems (IS) Project

## SEMESTER 8

Thesis  
Professional Competence Assessment (PCA)  
Character and Professional Development Program (CPDP)  
Cross-Platform Mobile App Development

# INTERNSHIP EXPERIENCES



Contact Us:

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