



SAP S/4 HANA

Business Process Integration

2026-2027

Credits: 3

Code: 62002A-0000055

Language of Instruction: English

Faculty

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Email:

Learning Outcomes

LO2	<i>program specific</i>	The Master in GSCM uses quantitative methods, simulation tools, and optimization models to solve complex supply chain problems and support data-driven decision-making.
	<i>course specific</i>	You build and evaluate forecasting and optimization models in Python, using train-test metrics and mathematical formulations to support data-driven supply chain decisions.
LO3	<i>program specific</i>	The Master in GSCM analyzes, designs, and manages international logistics flows, distribution systems, and production networks with attention to efficiency, resilience, and sustainability.
	<i>course specific</i>	You formulate and solve network flow and facility location models to redesign a multi-echelon distribution network while balancing capacity, demand, service and transport cost.
LO4	<i>program specific</i>	The Master in GSCM assesses the impact of emerging technologies, data analytics, automation and AI-enabled tools on supply chain performance and leads digital transformation initiatives.
	<i>course specific</i>	You compare machine learning, reinforcement learning and generative AI applications and assess their implications for supply chain visibility, resilience, automation and human decision-making.

LO	course specific	
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Course Content

This hands-on workshop enables students to gain a deeper understanding of integrated business processes by using an Enterprise Resource Planning (ERP) system. The emphasis is on the integration of logistical, financial, and personnel processes. The workshop uses the S/4HANA GBI (Global Bike) environment provided by the SAP University Alliance and uses the Fiori interface.

The hands-on workshop is based on the exercises of the method 'Hands-on with SAP S/4HANA and GBI, 2023 Schenk & Draijer, Bookboon'.

The workshop content:

- a complete sales-order driven ERP process is carried out;
- transaction master data analytics, tracking, and tracing exercises are carried out;
- a complete make-to-stock process is carried out; master data adjustments and extensions are carried out to support the forecasting and the sales-to-cash process;
- create a sustainable trade and detail in the description of the material the CO2 usage; carry out a complete trade process: purchase-to-pay and sales-to-cash.

In addition, background information is provided on SAP as a company, ERP history, S/A and the intelligent enterprise, recent developments, modules and customizing, and business process management.

Prerequisites

Pre-course readings will be available on Brightspace.

Method of Instruction

Lectures

Practice Sessions

Excursions

SAP Brussels

Assessment Method & Criteria

In-class Project Assignment	100%
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Study Materials

Course materials will be posted on Brightspace.