Fachhochschule Dortmund
University of Applied Sciences and Arts

IDiAL Institute for the Digital Transformation of Application and Living Domains

EUCLiDES

FACT SHEET BIP 2027

Organizing institution	Dortmund University of Applied Sciences and Arts (FH Dortmund) **Erasmus code:** D DORTMUN02
Partners	• KU Leuven, Belgium • University of the Basque Country EHU, Spain • HELHa – Haute École Louvain en Hainaut, Belgium
Are you looking for partners ?	Additional international academic and industry partners are welcome
Title / Name BIP *(Enter the official name of the BIP)*	BIP Automotive Systems Block Week 2027
Abstract *(Brief summary of the activity – what it is about in 3–5 lines)*	The BIP Automotive Systems Block Week 2026 introduces students to the fundamentals of automotive systems engineering, with a focus on driver assistance and autonomous driving technologies. Participants work in international teams to explore the full development cycle, from requirements to validation, using tools like MATLAB/Simulink and a virtual autonomous robot lab. The program blends virtual preparation with hands-on workshops, industry insights, and real-world applications. It offers valuable cross-cultural teamwork experience and a deep dive into one of the most dynamic sectors of the engineering world.
Goal *(What is the main objective or purpose?)*	The main objective of the BIP is to strengthen students' competencies in automotive systems engineering, software development, and autonomous driving technologies while fostering international collaboration, interdisciplinary teamwork, and practical problem-solving skills.
Topics covered *(List the key themes or subject areas that will be addressed)*	• Advanced Driver Assistance Systems (ADAS) • Autonomous Driving (AD) • Automotive software engineering • Model-based development • V-Model and ASPICE • Requirements engineering • System and software architecture • Functional safety and security • Sensor technologies • Software testing and agile methods • Simulation and autonomous robotic systems

Expected outcome(s) *(What should students gain or achieve by the end?)*	By the end of the programme, students will understand key processes and technologies in modern automotive systems development and be able to apply engineering methods in practical project scenarios. Participants will strengthen their technical, analytical, communication, and teamwork skills while working in international and interdisciplinary groups.
Start and end date of the BIP	**On-site phase in Dortmund (confirmed):** 15–19 March 2027 (CW 11)
Content of virtual component *(Describe any online or hybrid elements – e.g., webinars, online modules, collaborative tools)*	The virtual component includes online lectures, interactive seminars, collaborative project work, and preparation activities related to ADAS and autonomous driving technologies. Students work in international teams using digital collaboration tools, discuss theoretical concepts, and prepare practical project tasks and simulations for the physical mobility phase.
Start and end date of the virtual component	• **Virtual component before the on-site phase (tentative):** 8–19 March 2027 (CW 10–11) • **On-site phase in Dortmund (confirmed):** 15–19 March 2027 (CW 11) • **Virtual component after the on-site phase (tentative):** 29 March – 9 April 2027 (CW 13–14)
Maximum number of students *(Total number of participants allowed)*	35 students
Maximum number per university *(Limit per institution, if applicable)*	5 students
Webpage	https://go-study-europe.de/automotive-systems-block-week-2027/
BIP ID *(If already available)*	2026-1-DE01-KA131-HED-000409538-3