

YOUR GLOBAL MOBILITY  
ENGINEERING EXPERTS

EDAG PRODUCTION SOLUTIONS

# COOPERATIVE STUDY PROGRAM 2021

3/12/2021



# PROGRAM SCHEDULE COMPUTER SCIENCE

UMA	1S1	Calculus for Informatics	Physics Foundations of Programming	Electronics Fundamentals of Informatics	Fundamentals of Programming	Discrete Mathematics
UMA	1S2	Algebraic Structures for Computers	Statistical Methods for Informatics	Business Organization	Object-oriented Programming	Computer Technology
UMA	2S1	Analysis and Design of Algorithms	Databases	Computer Structures	Data Structures	Automata Theory and Formal Languages
UMA	2S2	Introduction to Software Engineering	Concurrent Programming	Networked and Distributed Systems	Intelligent Systems	Operating Systems
UMA	3S1	Information Management	Requirements Engineering	Software Modelling and Design	Computational Techniques in Software Engineering	Formal Methods in Software Engineering
UMA	3S2	User Interfaces	Software Maintenance and Testings	Security in Services and Applications	Web Applications Technologies	Professional and Legal Issues
Fulda UAS	4S1	Projektmanagement	Robotik	Simulation	Softwareentwicklung für eingebettete Systeme	
Company/ Fulda UAS	4S2	Künstliche Intelligenz und maschinelles Lernen	Web Applikationen / Webprogrammierung	Building Web- and Mobile Apps	Internship (12 ECTS)	
Company	5S1	BACHELOR THESIS (12 ECTS)				

Spain

Germany

# PROGRAM SCHEDULE MECHATRONICS

Y1 S1	Math I	Math II	Chemistry	Computer science	Technical drawing	Physics I
Y1 S2	Math III	Statistical and operational research	Business management	Computer science	Technical drawing	Physics II
Y2 S1	Circuit theory	Electronic principles	Material resistance	Computer principles	Math complements	
Y2 S2	Automation	Electronics	Feedback control principles	Digital Electronics	Machine and mechanism theory	
Y3 S1	Computer control	Industrial facilities and electric machines	Electronic systems	Thermal Engineering	Hydraulic engineering	Digital signal processing
Y3 S2	Robotics principles	Electronic instrumentation	Power electronics	Network architecture	Business management	Industrial integrated projects
01.08. - 30.09.	BBZ manual metal processing	BBZ CNC	BBZ pneumatic	Intensive course German		
Y4 S1	Computer industry	Perceptual systems	Electronics for automation	Robotics laboratory	Automation of production systems	Bus-systems
	Sensors	VLSI-Design	Lab exercises automation systems	Automation systems		
Y4 S2	Control and programming of Robots	Robot programming	Programming PLCs / SPS	Industrial robot	Special Topic	
	Special Topic	Training on the job / on site activity				
Y5 S1	Training on the job / on site activity			Bachelor thesis in Germany --> Final Presentation at UMA		

Spain

Germany

## Mandatory when starting the phase in Germany:

- All exams of the years 1,2 & 3 in Software Engineering / 1 - 4 in Computer Science
- German Level A2
- English Level A2 (necessary for the application at University of Fulda)
  
- Upper second (8) or first class (9-10) examination results
- Willingness to travel internationally
- Outstanding motivation and commitment
- High degree of social competence
- Capacity for team work
- Excellent communication
- Clear and analytic mindset

# PRESELECTION CRITERIA MECHATRONICS

## Mandatory when starting the phase in Germany:

- All exams of the years 1,2 & 3
  - Branch Robots and Automation
  - German Level A2
  - English Level A2 (necessary for the application at University of Fulda)
- 
- Upper second (8) or first class (9-10) examination results
  - Willingness to travel internationally
  - Outstanding motivation and commitment
  - High degree of social competence
  - Capacity for team work
  - Excellent communication
  - Clear and analytic mindset

- Applicant selection and interviews through technical specialists and HR department
  - ⇒ Handover of training contract to selected students
- 4 training positions per year for 2021
- Monthly salary during the entire program in Germany
- Dismissal of training contract after failing of study objectives
- Salary: 968 Euro/ month (12.85 payments / year) for the entire 1.5 years
- EDAG PS pays for the registration at Uni Fulda (approx. 3 x 300 €)
- Free accommodation in a „EDAG house“ or a flat for the first period (3 months)
- Subsequent housing allowance (150 Euro after exhibiting rental contract)





- First outbound and last return flight is paid at the scheduled start and end of the program (Economy Class)
- Good cultural integration during the first study period in Germany – Continuation though integration in the working life of the company
- Indefinite contract after successful completion of the program (commitment clause for 2 years)
- Creation of an individual training schedule and development program of the company
- Job location in mutual agreement after the program in dependency of project situation



Topic	Responsible	Date latest
Pre call to students	Uni Malaga	February 2021
Starting German Class	Uni Malaga	February 2021
Presentation to students and call for application	Uni Malaga / EDAG PS	March 2021
Application of students until		March 2021
Interviews and selection and contracts (two days)	EDAG PS at Uni Malaga	May 2021
Contract between student and EDAG PS	EDAF PS at Uni Malaga	Same day
Start first students at EDAG PS in Fulda with basic training		2021-08-01



## Necessary status for Students Mechtronics:

- All exams for obligatory subjects of the first 3 years must have been passed
- German Level A2
- English Level A2 (necessary for the application at University of Fulda)
- Branch Robots and Automation

## Necessary status for Students Computer Science / Software Engineering:

- All exams of the years 1,2 & 3 in Software Engineering / 1 - 4 in Computer Science
- German Level A2
- English Level A2 (necessary for the application at University of Fulda)

## Necessary Information for Application:

- Cover Letter in English
- Academic Record
- CV in English
- Application in German is even better

