

WE ARE EUDRES
EUROPEAN UNIVERSITY

BACHELOR | FULL-TIME | 6 SEMESTERS | ENGLISH

BACHELOR

Creative Computing

Interface Design | Experience Design and Development for Web | Mobile | Games and Virtual Reality

Creative Computing

You want to shape the digital future? The human-computer interface is at the centre of the digital transformation. This bachelor degree programme provides you with the necessary skills for planning, designing, and programming these interfaces and allows you to combine technical programming knowledge with creative expertise in User Interface Design, Game Design, Web Technologies, Mobile Programming, and Augmented & Virtual Reality.

Your Studies

The curriculum provides you with a broad qualification profile in computer science and the basics of media design as well as the social science methods necessary for user-centred design.

Focus Areas

- Programming: You learn to code web, mobile, and 3D applications. We start with fundamental programming skills on the basis of JavaScript. Building on this, you learn a high-level language for native programming on smartphones. Subsequently, the programming language C# is taught and used in the development of Augmented and Virtual Reality applications on the platform Unity.
- Human-computer interaction: The curriculum includes essential components of the human-centred design cycle such as user research, prototyping, and evaluation.
 Furthermore, you learn how to develop smart devices and to equip existing objects with computing features.
- User interface design: You acquire the fundamental principles of graphic design for interactive screen media and deepen your knowledge of web, mobile, and Augmented & Virtual Reality in a media-specific manner.

Your Career

Once you have completed this sound scientific training, numerous professional options in various sectors will be open to you. Graduates are well equipped for jobs such as:

- Mobile designer
- Mobile developer
- Web designer
- Web developer
- Multimedia designer
- Digital artist
- 3D artist
- User interface designer
- User experience designer
- Front-end developer
- Full-stack developer
- Game designer
- Game developer
- XR designer
- XR developer
- Al developer





Academic DegreeBachelor of Science in

Engineering (BSc)



Duration of Studies

6 semesters



Tuition Fees¹

363.36 € per semester + Students' Union fee



Application fhstp.ac.at/quide



Study Places/Year

75



Organisational Form

full-time English

What Makes Your Studies Unique

Creative Code Labs

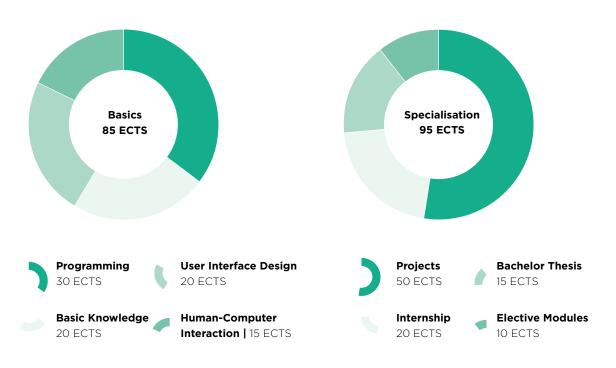
The study content is taught using the method of project-based learning: Each of the first four semesters ends with an intensive two-week project phase. These project phases – called Creative Code Labs – are assigned to specific topics that differ from semester to semester. The topics of the Creative Code Labs in the first four semesters are: Games and Playful Front Ends, Connected World, Mobile Applications, and Extending Realities. In the sixth semester, students can deepen one of these topics in group projects that are carried out over a full semester in the framework of the mediaLab.

Internationalisation at Home

Another option for the sixth semester is to join the international and interdisciplinary project semester. The students form interdisciplinary teams who strive to solve a specific problem during the semester. Our objective is to offer all students the opportunity to gain experience with international teams, independent of stays abroad. However, we also strongly encourage students to opt for a semester abroad.

In addition, a professional internship in the fifth semester gives our students the opportunity to put the acquired content into practice. Supervisors provide individual mentoring and assistance during the internship.

Weighting of Course Contents



Curriculum

1st year of studies

1st semester	ECTS
Front-End Development	
Introduction to Web Technologies	3
Client-Side Coding	4
2D Browser Game Coding	3
User Interface Design	
Graphic Design	3
2D Game Graphics	2
Foundations of Creative Computing	
Game Design and Digital Storytelling	4
Selected Legal Topics for Developers and Designers	1.5
Agile Software Lifecycle Management	1.5
Mathematics and Physics for Computing	3
Creative Code Lab 1: Games and Playful Front-Ends	5

2 nd semester	ECTS
Web Programming	
Server-Side Coding	5
Design-Oriented HCI	
Introduction to Human-Centred Design	2
User Research	3
Web Design	
Visual Interface Design	2
Responsive Design and Prototyping	3
Foundations of Creative Computing 2	
Networks, Cloud & Communication Security	3
Applied Artificial Intelligence (AI)	3
Framework-Oriented Coding	2
Creative Code Lab 2: Connected World	5

2nd year of studies

3 rd semester	ECTS
Mobile Programming	
Mobile Coding	5
Empirical Methods in HCI	
Usability and Experience Evaluation	5
Mobile User Interface Design	
User Interface Design for Mobile Devices	2
Interaction, Interfaces, and Prototyping	3
Physical Computing and Internet of Things	
Physical Computing and Connectivity	3
Tangible User Interfaces	2
Elective Module	
Elective Module	5
Creative Code Lab 3: Mobile Applications	5

4 th semester	ECTS
Cross-Reality Coding	
C# Development	4
Engine-Based Cross Reality Development	5
Software Product Management	1
3D Design	
3D Modelling and Animation	3
Game Audio	2
Scientific Writing	
Scientific Writing	5
Elective Module	
Elective Module	5
Creative Code Lab 4: Extending Realities	5

3rd year of studies

5 th semester	ECTS
Internship	20
Bachelor Thesis	10

6 th semester	ECTS
Project Semester	
mediaLab	18
Project Coaching	4
Project-Specific Coaching	6
Bachelor Exam	2

Details and information about the admission procedure



Stay up to date on social media!

O Instagram Media: instagram.com/fhstp_medien

☑ Instagram: instagram.com/fhstpJ Tiktok: tiktok.com/@fhstp

in LinkedIn: linkedin.com/school/fhstp



Start Your Career in Media:

A campus that is accessible to students 24/7, Campus media, labs and studios that can be used individually, and our very own equipment rental: We offer optimal learning and teaching opportunities for over 900 students of our media study programmes. Establish contacts during your studies and build up a network with over 4,000 alumni in the sector. The St. Pölten UAS trains you as a media expert – in design, production, distrubution, and management.

Information & Contact

Campus und Study Center (CSC) | T: +43 2742 313 228-333 | E: csc@fhstp.ac.at | I: fhstp.ac.at

Diversity at the Campus St. Pölten

Inclusion, gender equality, and diversity are important to us. Our campus is accessible barrier-free. Please contact us in good time so that we can take your needs into account.