UNIVERSITY
OF ECONOMICS AND HUMAN SCIENCES
IN WARSAW

Web applications

Type:
Undergraduate (Bachelor)

Field of study:
Informatics

Duration of study:
4 years (8 semesters)

Mode:
full-time | online

Language:
Polish | English

Obtained title:
engineer

Why You should choose this study programme?

Web applications are one of the dominant areas in the IT industry today. The rapid development of cloud technology means that more and more applications previously installed on computers are now accessible from a web browser. This specialization aims to present methods of creating modern web applications, both from the client layer (frontend) and the server layer and business logic (backend).

lot of emphasis is put on using solutions commonly used in IT companies, such as REST architecture, modern JavaScript frameworks or presenting the possibilities of cloud technologies. Thanks to this, after completing the specialization you will easily find yourself in modern programming teams.

What You can do after this study programme

This occupation is on the list of the 15 most sought after in the market according to the latest data from LinkedIn. Career prospects after graduation with this specialization are therefore very broad. From working as a programmer, designer, coder or tester in software development teams of IT companies to working independently as a freelance professional. In addition, you will be faced with doors to IT departments that now exist in virtually every company, business and organization around the world.

This programme is for You, if:

You have an analytical mind and like solving problems

You think logically and are an organised person

You like challenging tasks and understand new technologies

FIRST DEGREE STUDIES
(ENGINEERING)

UNIVERSITY
OF ECONOMICS AND HUMAN SCIENCES
IN WARSAW

www.vizja.pl

Degree programme and study structure

Study last 4 years (8 semesters), are worth of 240 ECTS credits, end with a Professional Engineering degree.

The curriculum covers the most important key areas of computer science and a wide selection of specialization tracks. A special feature of the program at UEHS is that each student has the opportunity to choose at least 2 specialties that they would like to complete.

FIRST YEAR OF STUDY

The first year of studies is dominated by subjects which, irrespective of the chosen field of study, provide a broad horizon of thinking and an understanding of the concepts and basic issues in a given field of science. As a result, you will acquire knowledge and skills that will make it easier for you to find your place in many different professional areas in the future and prepare you to undertake interdisciplinary projects, which is nowadays particularly important and appreciated on the job market. Beginning in the second semester, classes introduce content specific to the Computer Science major in increasing detail.

FIRST SEMESTER

SUBJECT NAME	ECTS	LECTURE METHOD	AMOUNT OF HOURS (ST/NST)
BASIC OF PROGRAMMING	9	L, D	75/40
GRAPHICS AND HUMAN-COMPUTER COMMUNICATION	7	L, D	60/32
DESIGNING WEBSITES	4	D	30/16
BASIC OF E-LEARNING	2	L, D	16/8
MATHEMATICS FOR COMPUTER SCIENTISTS	8	L, D	75/40
OHS	0	E	8/4

Degree programme and study structure

SECOND SEMESTER

SUBJECT NAME	ECTS	LECTURE METHOD	AMOUNT OF HOURS (ST/NST)
ELECTRONICS FOR COMPUTER SCIENTISTS	6	L, D	60/32
DISCRETE MATHEMATICS	8	L, D	70/40
ELEMENTS OF MODERN PHYSICS	5	L, D	48/28
ALGORITHMS AND COMPLEXITY	6	L, D	75/40
COMPUTER SYSTEMS ARCHITECTURE	6	L, D	60/40

SECOND YEAR OF STUDY

In the second year, subjects concentrating on the chosen field of study are introduced into the programme. They enable students to deepen their knowledge and acquire competences necessary for understanding and practical use of IT knowledge in various spheres of professional activity. Specialist subjects in web application design are also introduced from semester 4.

THIRD SEMESTER

SUBJECT NAME	ECTS	LECTURE METHOD	AMOUNT OF HOURS (ST/NST)
PROGRAMMING LANGUAGES AND PARADIGMS	8	L, D	75/40
DATABASES	7	L, D	60/32
OPERATING SYSTEMS	6	L, D	60/32
NETWORK TECHNOLOGIES	6	L, D	60/32

Degree programme and study structure

FOURTH SEMESTER

SUBJECT NAME	ECTS	LECTURE METHOD	AMOUNT OF HOURS (ST/NST)
EMBEDDED SYSTEMS	6	L, D	60/32
SOFTWARE ENGINEERING	7	L, D	60/32
OBJECT-ORIENTED PROGRAMMING IN JAVASCRIPT	5	L, D	45/24
CREATING WEB SERVICES IN REST	5	L, D	45/24
ARCHITECTURE MVC IN WEB APPLICATION DEVELOPMENT	4	D	30/16

THIRD YEAR OF STUDY

In the third year of study, in the 5th semester, you will complete your studies in web application design, which in practice will already allow you to undertake work in this area. In the 6th semester, you can choose a second specialization that will shape your professional profile.

Artificial intelligence and data science
Data processing has long moved far beyond simple Excel sheets and even traditional database systems. Want to learn how to teach a computer to distinguish between a terrier and a bulldog, or write a program that will recommend a movie to watch tonight? Or are you interested in predicting the future? These and many more examples of practical applications of artificial intelligence in everyday life can be found in this specialization!

Designing mobile applications
Mobile devices are now an integral part of many people's lives, and it's hard to imagine devices without apps written for them. In this specialization you will learn how to create applications for different platforms and in different technologies. You can develop in a practical way the knowledge gained during the UX and PM specialization or expand your technology portfolio obtained during the Web Applications specialization. Be mobile-first with this specialty!

Degree programme and study structure

DESIGNING MOBILE APPLICATIONS

SUBJECT NAME	ECTS	LECTURE METHOD	AMOUNT OF HOURS (ST/NST)
IT PROJECT	4	D	30/16
TEAM PROJECT	8	D	30/16
PROFESSIONAL TRAINEESHIP	10	PT	250/250
NETWORK ISSUES IN MOBILE DEVICES	5	D	45/24
SOFTWARE ENGINEERING OF MOBILE DEVICES	6	L, D	45/24
DEVELOPING PROGRESSIVE MOBILE APPLICATIONS	6	D	60/32

FIFTH SEMESTER

SUBJECT NAME	ECTS	LECTURE METHOD	AMOUNT OF HOURS (ST/NST)
PROFESSIONAL TRAINEESHIP	10	PT	250/250
PREPARATION OF AN IT PROJECT	12	SEM, OW	300/300
DIPLOMA EXAM	5	OW	-

The study programme also includes foreign language classes and (for full-time students) sports and recreational activities.

Degree programme and study structure

FIFTH SEMESTER

SUBJECT NAME	ECTS	LECTURE METHOD	AMOUNT OF HOURS (ST/NST)
CREATING MODERN WEB APPLICATIONS IN THE CLIENT LAYER	8	D	60/32
SECURITY OF WEB APPLICATIONS	6	D	30/16
CREATING APPLICATIONS FOR CLOUD ENVIRONMENTS	7	L, D	45/24
BASIC OF SOCIAL COMMUNICATION	3	L	30/16
BASIC OF ECONOMICS	4	L	30/16
TEAM COMMUNICATION IN IT	3	D	30/16

SIXTH SEMESTER
To choose one of the two specialization path.

ARTIFICIAL INTELLIGANCE AND DATA SCIENCE

SUBJECT NAME	ECTS	LECTURE METHOD	AMOUNT OF HOURS (ST/NST)
FUNCIONAL PROGRAMMING	9	D	75/40
SELECTED ISSUES OF ARTIFICIAL INTELLIGENCE	9	L, D	75/40
MACHINE LEARNING	9	D	75/40

UNIVERSITY
OF ECONOMICS AND HUMAN SCIENCES
IN WARSAW

Degree programme and study structure

DESIGNING MOBILE APPLICATIONS

SUBJECT NAME	ECTS	LECTURE METHOD	AMOUNT OF HOURS (ST/NST)
INTRODUCTION TO MOBILE SYSTEMS	7	D	60/32
DESIGNING INTERFACES FOR MOBILE DEVICES	7	L, D	60/32
MOBILE DEVICES PROGRAMMING LANGUAGES	7	D	60/32
GRAPHICS FOR MOBILE DEVICES	6	D	60/32

FOURTH YEAR OF STUDY

In the fourth year of study you will complete the study of specialty subjects. You will also complete an professional traineeship and work on your own IT project, which will help you to find your future job more easily.

SEVENTH SEMESTER

To choose one of the two specialization path.

ARTIFICIAL INTELLIGANCE AND DATA SCIENCE

SUBJECT NAME	ECTS	LECTURE METHOD	AMOUNT OF HOURS (ST/NST)
IT PROJECT	4	D	30/16
TEAM PROJECT	8	D	30/16
PROFESSIONAL TRAINEESHIP	10	PT	250/250
BUSINESS DATA ANALYSIS	5	D	45/24
BIG DATA HANDLING	5	D	60/32
DEEP LEARNING	6	L, D	60/32

FIRST DEGREE STUDIES
(ENGINEERING)

UNIVERSITY
OF ECONOMICS AND HUMAN SCIENCES
IN WARSAW

www.vizja.pl

Tuition fees

FIXED TUITION - FLEXIBLE PAYMENTS

By choosing to study at UEHS, you can be sure that the tuition fee will not change throughout the duration of your studies. You can pay the tuition fee once for the entire year of study or spread over a semester payment. This allows you to decide how you want to plan your expenses.

REDUCE THE COST OF YOUR STUDIES

As part of the UEHS discount programme, you can take advantage of various reductions and promotions. They are usually applied in the first year of study. It means that your tuition fees will be reduced by the amount of the discounts granted. Candidates who register and pay their tuition fees within one month of registration will receive an English language course for free. The course covers 80 hours of English classes and 20 hours of classes of Polish culture.

FEES

EU&OTHER COUNTRIES GROUP

YEAR OF STUDY	ANNUALLY	PER SEMESTER
1st year	2500 €	1400 €
2nd and 3rd	2500 €	1400 €

OTHER COUNTRIES

YEAR OF STUDY	ANNUALLY	PER SEMESTER
1st year	3600 €	1950 €
2nd and 3rd	3600 €	1950 €

Scholarships -
easier than you think

While studying at UEHS, you can take advantage of a wide range of financial support from the state budget and European funds, as well as benefit from special discounts with UEHS discount program

You can submit most scholarship applications quickly and easily through your online account.

2020/2021 ACADEMIC YEAR

292 RECTOR'S SCHOLARSHIPS **106** SOCIAL SCHOLARSHIPS **79** SCHOLARSHIPS FOR PEOPLE WITH DISABILITIES

PLN 1,890,289.35 was spent in 2019 on scholarships
PLN 2,911,662.50 was spent in 2020 on scholarships

SCHOLARSHIP • SPORTS SCHOLARSHIPS • SOCIAL SCHOLARSHIPS • SPECIAL SCHOLARSHIPS FOR DISABLED PEOPLE • ALLOWANCES