

## MASTER OF SCIENCE IN COMPUTER ENGINEERING AND INFORMATION TECHNOLOGY

### “MULTIMEDIA-DESIGN”PROFILE

#### Short Description:

The study program Master of Science in “Computer Engineering and Information Technology”, Profile “Multimedia –Design”, provides graduates with in-depth theoretical knowledge, as well as training for scientific research in this particular area.

This study program is designed to prepare students in accordance with the technical requirements of the telecommunications industry, financial institutions and post-graduate master studies in Computer Engineering or related fields. The basis of the program is focused on building critical thinking in order for professionals to take proper decisions.

“Multimedia – Design” Profile, is a program that offers solid computer skills and expands students’ knowledge in interactive communication field using new techniques for the data visualization and computer systems interface creation according to new standards. The objective of this profile is to provide its graduate engineers with the ability to design and develop software interfaces for all mobile platforms, tablets, desktop, televisions and other new equipment that are a new in the market such as intelligent clocks.

#### Access Requirement(s):

Students holding a Diploma of the first cycle of studies (Bachelor) or an equivalent degree, recognized by the Ministry of Education and Sports.

To meet the English language criteria according to the paragraph 4 of the Article 76 of the Law No. 80/2015 "For the Higher Education and Scientific Research in the Republic of Albania" and the Guideline No. 52 dated 03.12.2015 of the Ministry of Education and Sport.

#### Typical Career Opportunities:

- Multimedia professionals/consultants
- Multimedia Designer
- Animators or audio and video producers
- Information Technology Professional
- IT Professional for government departments and cultural organizations
- NGOs and private sector image creator
- Computer systems designing industry professional
- Software-publishing industry professional
- Advertising industry professional
- Web marketing and web publishing professional
- TV and creative studios specialist

## I Year

Term	Course Title	Prerequisite (s)	Credits	ECTS Credits
Fall	User Interface Design		3	6
Fall	Advanced Research Methods		3	6
Fall	Database Design and Administration		3	6
Fall	Advanced Java Programming		3	6
Fall	Network Programming		3	6
Spring	Multimedia Theory		3	6
Spring	Design Principles for Multimedia		3	6
Spring	Responsive Web Design		3	6
Spring	Web Engineering		3	6
Spring	Intruduction to Multimedia Imaging		3	6
<b>TOTAL</b>			<b>30</b>	<b>60</b>

## II Year

Term	Course Title	Prerequisite (s)	Credits	ECTS Credits
Fall	Advanced Project Management		3	6
Fall	3D Animation and Virtual Space		3	6
Fall	Data Visualization		3	6
Fall	<i>Electives 1 out of 2:</i> - Digital and Internet Marketing - Mobile App Interface Design and Accessibility		3	6
<b>TOTAL</b>			<b>12</b>	<b>24</b>

Internship	6	12
Thesis	12	24
<b>TOTAL</b>	<b>18</b>	<b>36</b>
<b>TOTAL of the Degree</b>	<b>60</b>	<b>120</b>