
Faculty of Digital transformation

Department of “Economy and Business”

APPROVED BY
Vice-rector for academic affairs,
International Information
Technology University JSC



Mustafina A.K.

6B04105
(Code of Academic Program)

Financial Technologies
(Name of Academic Program)

CATALOGUE OF ELECTIVE DISCIPLINES

1 TERMS AND ABBREVIATIONS

1.1 Academic program is a single set of basic characteristics of education, including goals, results and content of training, the organization of educational process, ways and methods for their implementation and criteria for assessing learning outcomes.

The content of academic program of higher education consists of three cycles of disciplines - general education disciplines (hereinafter - GED), basic disciplines (hereinafter - BD) and core disciplines (hereinafter - CD).

The cycle of GED includes disciplines of the compulsory component (hereinafter - CC), the university component (hereinafter - UC) and (or) the component of choice (hereinafter - COC). BD and CD include disciplines of UC and COC.

1.2 Catalogue of elective disciplines (CED) is a systematic annotated list of all COC disciplines, for the entire training period, containing a brief description indicating the purpose of study, a summary of main sections and expected learning outcomes. CED reflects the prerequisites and postrequisites of each academic discipline. It should provide the students with the possibility of an alternative of elective disciplines for the formation of an individual educational trajectory.

Based on academic program and CED, the students develop individual curricula with the help of advisers.

1.3 Individual curriculum (IC) is a curriculum formed by the students independently with the help of an adviser for each academic year on the basis of the academic program, the catalogue of elective disciplines or modules.

IC defines an individual educational trajectory of each student separately. It includes disciplines and types of educational activities (internship, experimental research, forms of final certification) of the compulsory component (CC), the university component (UC) and the component of choice (COC).

1.4 Advisor is a teacher who performs the functions of an academic mentor of a student (according to the appropriate academic program) and assists in choosing a learning path (creating an individual curriculum) and mastering the academic program during the training period.

1.5 The university component is a list of compulsory educational disciplines determined by the university independently for the mastering of the academic program.

1.6 The component of choice is a list of academic disciplines and the corresponding minimum amounts of academic credits offered by the university and independently chosen by students in any academic period, considering their prerequisites and postrequisites.

1.7 Elective disciplines are educational disciplines that are a part of the university component and the component of choice in the framework of established academic credits, introduced by organizations of education reflecting the individual preparation of students and considering the specifics of socio-economic development, the needs of a particular region and established scientific schools.

1.8 Postrequisites are the disciplines and (or) modules and other types of academic work, the study of which requires knowledge, skills and competencies acquired at the end of the study of this discipline and (or) modules.

1.9 Prerequisites are the disciplines and (or) modules and other types of educational work containing knowledge, abilities, skills and competencies necessary for the mastering of the studied discipline and (or) modules.

1.10 Competencies are the ability of the practical use of acquired knowledge and skills in professional activities.

3 DESCRIPTION OF ELECTIVE DISCIPLINES

3.1 PROJECT MANAGEMENT

1. GENERAL INFORMATION	
Faculty	Digital Transformations
Year, semester	3,5
Subject category	Basic, Elective
Number of credits (ECTS)	5
Prerequisites	Economic Theory, Mathematics, Management
Postrequisites	
2. GOALS, OBJECTIVES AND LEARNING OUTCOMES OF THE COURSE	
<p>This course will review to introduce and explore Project management concept, how to manage product and product development and build competitiveness through Project. Delivering new ideas and technologies as successful products to market in a sustainable way is at utmost importance for companies. This will require not only creative idea generation, but as well management of these creative ideas towards delivering as product portfolio and ensuring sustainable project. Managing these require a solid understanding of Project management.</p>	
The objectives of the course are:	
<ul style="list-style-type: none"> - The major objective of the course is Understand the definitions and concepts of Project, - invention and research and development - Use and apply tools for Project management 	
Learning outcomes of the course	
<p>Students successfully completing the course will be able to:</p> <ul style="list-style-type: none"> • Assess and interpret Project processes • Understand the Project process • Learn the components involving Project management • Diagnose different Project challenges and make recommendations for resolving them • Learn the components involving Project management • Understand the fundamentals of R&D management 	
3. Course description	
<p>This course provides an introduction to the principles and concepts Project management. It explores the history of Project management to help gain an understanding of current drivers of enterprise risk management, as well as the development and impact of international standards. It examines issues relevant to specific sectors and geographical areas, and the needs and demands of various stakeholder groups, including regulatory authorities.</p>	

3.3 1C ACCOUNTING

1. GENERAL INFORMATION	
Faculty	Digital transformation
Year, semester	3,6
Subject category	Basic, Elective
Number of credits (ECTS)	5
Prerequisites	Accounting and Business, Financial Accounting.
2. GOALS, OBJECTIVES AND LEARNING OUTCOMES OF THE COURSE	
The aim of study of a discipline	
To acquire a set of theoretical knowledge and practical skills for working with this software product means to be able to apply the accounting program in different sections of students, to study various modes of operation	
As a result of mastering the discipline, the student must be able to:	
<ul style="list-style-type: none"> - draw up and process accounting primary documents, fill out accounting registers; - reflect the business operations of the organization on the accounts; - to draw up the accounting statements of organizations on the basis of analytical and synthetic accounting data; 	
know:	
<ul style="list-style-type: none"> - tasks, principles and requirements for accounting, objects accounting and their classification; - accounting method and its elements; - classification, details and procedure for filling out accounting documents, accounting forms, rules for organizing document flow; - structure and classification of accounts, structure and content sections of the chart of accounts of financial and economic activities of organizations; - organization and procedure for accounting business transactions in organizations; - the composition of the financial statements, the requirements for it, the procedure for drawing up. 	
3. Course description	
1C: Accounting is a universal accounting program focused on a wide range of applications that can be used in a wide range of activities, from small to large enterprises.	

3. 5 DIGITAL MARKETING AND BRAND MANAGEMENT

1. GENERAL INFORMATION	
Faculty	Digital Transformations
Year, semester	4,7
Subject category	Basic, Elective
Number of credits (ECTS)	5
Prerequisites	Marketing
Postrequisites	Management, Marketing management, Marketing research
Lecturer	
2. GOALS, OBJECTIVES AND LEARNING OUTCOMES OF THE COURSE	
<p>The course goal is to develop thorough understanding of contemporary digital marketing concepts and technologies that are applied extensively by professionals in the field as well as by academia. This course provides an overview of digital marketing, the empathetic art of building relationships between products and services and unique consumers, businesses and markets. Theoretical concepts are supplemented by case studies, real-life examples and extensive activities aimed at gaining understanding of contemporary digital marketing concepts and ideas. In these ways, this class will serve as a training ground for evaluating digital marketing, creating and executing ideas, and grappling with the current trends, ethics and controversies of modern marketing.</p>	
<p style="text-align: center;">The objectives of the course are</p> <ul style="list-style-type: none"> - to form fundamental understanding of contemporary digital marketing concepts and frameworks - to familiarize students with technologies underpinning contemporary digital marketing - to introduce students to strategic and tactical tools necessary for execution of digital marketing plans and Key Performance Indicators (KPIs) 	
<p style="text-align: center;">Learning outcomes of the course</p> <p>Students successfully completing the course will be able to:</p> <ul style="list-style-type: none"> - outline an approach to developing digital marketing plans - understand an online implications of each elements of the marketing mix - review and select e-models which are appropriate for your business - understand online customers and their buying behavior - create strategy and plan to manage social media marketing - grasp fundamentals of website design - evaluate the range of options for traffic building - identify success factors for different online communications tools 	
3. Course description	
<p>Digital marketing and brand management is new and exciting blend of technologies, marketing, and data analysis that addresses key marketing challenges of today. Many of the challenges include new ways of interaction with customers and gaining deeper knowledge of customer by facilitating online communications channels and better satisfying the needs of customer. This subject also looks into identifying patterns of customer behavior and analyzing it to achieve new level of customer satisfaction and driving traffic to website or application.</p>	

3.7 Introduction to FinTech

Description of elective course	
Subject code	FIN6716
Course name	Introduction to FinTech
Number of credits	5
Course, semester	4,7
Name of Department	Economics and Business
Course author	
Prerequisites	Corporate Finance, Financial markets and intermediaries
Postrequisites	
Course objectives	This is a practical course with a heavy emphasis on latest industry trends and industry practices rather than theoretical concepts.
Course description	This course will provide students with the latest empowering and practical knowledge on FinTech enabling them to understand some of the FinTech changes taking place currently in the financial services industry and, most importantly, the trends that will impact the industry in the future.
Learning outcomes	<ol style="list-style-type: none"> 1. The range of financial services and products in the marketplace. 2. New services and products, often mobile and disruptive. 3. The importance of the dominant role of Millennials and their unique preferences. 4. Technology, as it relates to new Fintech. 5. Regulation of financial markets, with relevance to new Fintech. 6. How new startups are financed. 7. Social and distributional issues around new Fintech. 8. Possible future developments.

3.9 Data Base

Description of elective course	
Subject code	SFT6142
Course name	Data Base
Number of credits	5
Course, semester	4,8
Name of Department	IS
Course author	Muratova KN
Prerequisites	ICT
Postrequisites	
Course objectives	The course goal is to introduce students to database systems in Information Systems comprehensively and expand their knowledge on working with PGAdmin developer.
Course description	<p>This course introduces students to database systems. The course explains what a database system is, and then proceeds for the greater part of the learning material to explore relational database systems—databases designed according to the relational (or tabular) model. From data abstraction, the course then turns to transaction management, with some additional material on improving query performance. Finally, there is an introduction of up-to-date trends in database system design, which also locates recent developments in the larger history of data storage technology.</p> <p>he objectives of the course are:</p> <p>To explain database management software to develop data-intensive applications</p> <p>To introduce PGAdmin</p> <p>To explain PGAdmin development environments;</p> <p>To demonstrate hands-on practice in order to reinforce the fundamental concept;</p> <p>To provide practice on querying on PGADmin database;</p> <p>To describe Built-in SQL functions;</p>
Learning outcomes	<p>Students successfully completing the course will be able to:</p> <p>To list data structures and operators in SQL.</p> <p>To create diagrams and data models for projects</p> <p>To design and develop normalization for tables</p> <p>To solve practical tasks on SQL</p> <p>To compare and contrast the different ways of solving problems.</p> <p>To modify and rewrite the created program using the analysis.</p>