## CAUCASUS UNIVERSITY



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Graduate Program in

Information Technology Management





# Caucasus University

### Caucasus School of Technology

Program Name					
	Information Technology Management				
Degree level					
	Master's				
Type of the educational progra	<u>ا</u> س				
	Academic				
Instruction Language					
	Georgian				
Expected Qualification	Georgian				
	Master of Engineering in Information Technologies 040101				
	Waster of Engineering in mormation recinologies 040101				
Date of Program Approval					
	12 February 2014				
Academic head of the Program	1				
	Maksim Iavich PhD. Porfessor at Caucasus University				
Program Volume in Credit Ho	urs				
The program consists of 120 ECTS credits. Caucasus University uses European Credit Transfer and Accumulation System (ECTS) to describe volume of expected work from the students. A credit is a unit for volume of work that is required from the students in terms of time spent. 1 ECTS credit is worth of 25 hours of student's academic workload. Courses in the program are allocated based on their logical structure and sequence. Courses build up on the previously studied material and, therefore, enable students to acquire necessary knowledge. Courses in the program are divided into: • 48 ECTS of Required Courses • 30 ECTS of Research Component (Master's Thesis) • 42 ECTS of Elective Courses (up to 114 ECTS offered:					
Admission Requirements					
<ul> <li>Any person having thr Bachelor's degree in technical field (IT, Engneering, Bussiness Administration, Natural Sciences) is entitled to enrol on the Graduate Program in Information Technology Management.</li> <li>The precondition for the admission to the program is to pass the General Masters Examination held by the Legal Entity of Public Law - The National Assessment and Examinations Center. An exception to the general rule of admission to the higher education institutions is made only in the cases stipulated by the law.</li> <li>Admission Interview at the Caucasus School of Technology</li> <li>Passing the graduate entrance test in the English Language (Level B2), holders of sertificate in English language Level B2 are free from testig. Graduates of English Language degree programs are free from presenting the sertificate or testing.</li> </ul>					

# Program Description

General Information					
Today at the time of global competition, organizations are in need of people with complex knowledge and					
skills. Particularly high need is for those people who have combined knowledge of business and technology:					
with deep expertise in technology and good knowledge of business strategy.					
The Graduate Program in Information Technology Management was developed to prepare professionals with					
the combination of these highly needed skills.					
During the program development it was taken into the consideration the experience of foreign universities,					
having the degree programs in the similar filed; The recommendations of leading specialists and professors of					
the partner universities (Tallinn University of Technology; Upper Austria University of Applied Sciences					
(Hagenberg); Kaunas University Of Technology), obtained through the exchange visits of school					
administration and professors, invoved in the program development, in the partner universities and also from					
the consultation meetings with the representatives of those universities carried out at the Caucasus University.					
The feature of the program is the in-depth examination of a number of issues that have been selected in light					
of current and growing demands on information technology managers both in the Georgian labor market and					
internationally as well.					
The program curriculum has a technical focus and gives good understanding of business operations and					
strategy. Students will learn how IT must be aligned with the strategy of the organization, and how to make					
appropriate choices about architecture in relationship to overall organization goals.					
The teaching process of the program is based on modern methodologies of practice-oriented teaching taking					
into account the elements of scientific research. It focuses on in-depth learning of the disciplines enriched					
with the latest scientific or practical information management technologies. Compatible with modern					
international standards, the program enables the student to acquire deep theoretical knowledge in the field					
and to master good practical skills. The thoughtful proportion of the theoretical and practical components of					
the program provides the basis for a graduate to pursue a career as a prospective IT Management specialist,					
both in Georgia and abroad.					
Program Objectives					
The objectives of the program in Information Technology Management are to:					
• Give students an upportunity to develop research skills in information technology management, deep					
knowledge of information technology as well as business management methodologies and thereby ensure their					
employment in leading positions according to their qualifications;					
• Prerare up-to-date specialist in IT management with deep knowledge of information technologies and good					
analysis of business environment and strategy, competence in innovative methods of management and					
analytical problem solving skills.					
Learning Outcomes					
Upon completion of the Master's degree program in Information Technology Management, the graduate will					
acquire the following competencies:					
• A thorough knowledge of the latest theories in information systems, management methodologies and					
international standards, ability to fully understand and share the role of information technologies;					
• Ability to effectively plan the information technology structure in the organization, develop information					
technology service delivery strategies, capacity to develop and manage service delivery and service processes;					
• Ability to use methods to assess the strengths and weaknesses of an organizational environment, identify					
strategic risks, and use assessment tools. Ability to operate independently while planning and managing in a					
risky and dynamically changing environments;					
• Ability to adapt and apply modern business technologies in the organization, evaluate complex problems of					
information systems, analyze results and solve them in an innovative way;					
• A thorough knowledge of the specific ethical problems inherent in the information technology field, the					
ability to understand information security, its crime and ethical principles and to solve ethical dilemmas;					
• Ability to properly conduct scientific theoretical and practical research in the field of information technology					
and apply modern methodology in scientific research.					
Building a Career					

The program gives students the chance to advance to IT Leadership positions through gaining strong set of technical and managerial skills which are necessary to succeed in the IT field today.

Program graduates will have an opportunity to work in a variety of environments such as academia, research, industry, media, government, private and business organizations. Examples of job titles of program graduates may include: Information Systems consulting officer, Chief Information Officer, Chief Technical Officer, Project Manager, Network Manager/Analyst, Bussiness Analyst, Database Administrator, IT Infrastructure Manager etc.

On the Georgian labor market emloyers are the university's partner organizations, as well as other big or small business companies, banking sector, international companies, educational institutions, telecommunication organizations etc.

#### Study Continuation Opportunities

The program graduates can continue their studies at any of Doctoral programs in Georgia or abroad, in accordance with the regulation required by the law.

#### Student Evaluation and Grading System

The aim of the evaluation is to assess to what extent the learning outcomes prescribed by the syllabus are reached. The student's evaluation consists of multiple components and evaluates the course goals and learning outcomes by applying measurable criteria and appropriate rubrics. The student's evaluation is based on four major principles: objectivity, trustworthiness, validity and transparency.

The students are evaluated according to two sets of evaluation: summative and formative. The aim of the summative assessment is to accurately evaluate the student's performance. It monitors quality of learning and the level of the student's achievement in relation to the goals set by the course. The formative assessment is oriented on the student's development. It gives students appropriate feedback on their achievements.

The evaluation system includes 100 points and envisages:

a) Five types of positive grades:

a.a) (A) Excellent – 91-100 points of assessment;

a.b) (B) Very good – 81-90 points of maximal assessment;

a.c) (C) Good – 71-80 points of maximal assessment;

a.d) (D) Satisfactory – 61-70 points of maximal assessment;

a.e) (E) Sufficient – 51-60 points of maximal assessment;

b) two negative grades:

b.a) (FX) Did not pass – 41-50 points of maximal assessment, which means the student needs to work harder and is allowed to retake the exam one more time after working independently;

b.b) (F) Fail – 40 points or less of maximal assessment, which means the student's work is insufficient and he/she has to retake the course.

Students are awarded credits on the basis of the final evaluation comprising the scores of the interim and final exam assessments.

The attainment of student's learning outcomes considers the interim and final evaluations, for which relative proportions out of the total score (100 points) and a minimum competence level are allocated. Namely, out of 100 points, the interim results are allocated 70 points, while the final exam results are 30 points. In interim

evaluations the minimum competency barrier to be reached is 59%. The interim evaluation includes assessment components, the total of which is 70 points. For each assessment component, the evaluation is based on the pre-determined learning goals, task-oriented clear criteria and the learning rubrics drawn on their basis. In the interim results the student has to accumulate at least 59% of the 70 points to be allowed to take the final exam. The student's final examination is passed, if he/she gets at least 60% of the total 30 points.

In case the student fails to overcome the minimum competency barrier of the final exam, he/she is allowed to retake the final examination. The student shall retake the final exam within the period prescribed by the academic calendar no later than 5 days after announcement of the results of the final exam.

In case the student totally scores 0-50 points or fails to overcome the minimum competency barrier set for any form of the evaluation (Interim/Final exam), he/she shall be given a grade of "F-0".

Teaching and Learning Methods

Different teaching methods are employed during the teaching process depending on the topics covered. Those include:

**Discussions/debates** – one of the most common methods of interactive teaching. Quality of Students' involvement is higher; classes are more dynamic and students are more active. Any discussion can turn into a debate. The method allows professors to give questions and get answers and enables students to develop skills of discussion and debates and prepares them for justifying their opinions and points.

**Team (Collaborative) work** - the method implies dividing students into teams and assigning different tasks to them. Each team member works on the task individually and shares his/her ideas with the rest. Depending on the type of task, team members can change tasks and roles. The strategy ensures students' maximum involvement in the learning process.

**Problem Based Learning (PBL)** – a problem is given and analyzed in order to acquire knowledge.

**Cooperative Learning** – where the whole class is responsible not only for his/her own learning and

understanding of the subject matter but also for aiding and assisting others in better understanding it. Each student works on a problem until he/she fully understands everything.

**Heuristic method** – is largely incremental. Students are to discover facts on their own and make links between them.

**Case Studies** – Professors and students discuss a particular case and fully comprehend an issue at hand. In Medicine it can be discussion of the medical record of a particular patient, in Political Science it can be analysis of a conflict between any two countries (e.g., Armenia-Azerbaijan), etc.

**Brain storming** – the method facilitates to generating as many ideas about a particular topic as possible. The method encourages creativity; it is particularly efficient with a large group of students and consists of a few stages:

- Creative approach to a problem/issue
- Listing the ideas generated, without any criticism, on the board.
- Identifying the ideas most closely linked with the problem/issue;
- Identifying criteria for finding which idea is more relevant to the issue/problem at hand;
- Evaluating selected ideas according to pre-selected criteria;
- Selecting the best idea the one having the best evaluation or meeting most of the criteria;

**Role play** – students are assigned different roles, which allows them to look at a problem from different perspectives. Like debates, role play also helps students develop skills needed for giving their opinion and justifying their judgments.

**Method of Demonstration** – displaying visual materials. In majority of cases it is better to give students both audio and visual material simultaneously; the material can be given by both - professors and students; the method implies giving visual information on the whiteboard or carrying out a complex laboratory experiment. **Induction, Deduction, Analysis, Synthesis.** 

A deductive approach means that the teacher gives students a new concept, explains it and then has the students practice using the concept.

In contrast with the deductive method, inductive instruction makes use of student "noticing". Instead of explaining a given concept and following this explanation with examples, the teacher presents students with many examples showing how the concept is used. The intent is for students to "notice", by way of the examples, how the concept works and fits together.

With the method of analysis a problem is disintegrated into components. This method facilitates to comprehensive analysis of each of the constituent elements of a more complex problem.

Method of synthesis is opposite of the process of analysis. One whole is made by grouping its constituent elements, which allows students to look at a problem as one whole.

**Explanatory method** – discussing a particular issue, i.e., professor provides examples and discusses all sides and details.

**Action-oriented teaching** – requires active participation of both professor and students where major emphasis is put on practical interpretation of theoretical knowledge.

**E-learning** - The method combines three ways of instruction

Teaching methods complement each other during the teaching process. Course syllabus provides detailed information about teaching methods used.

Human Resourses

The Program is implemented by the Academic and Invited Personnel; Six Professors, One Associate Professor, One Associate Professor, One Associate Professor, One Associate Professor, One Assistant and Twelve Invited Lecturers, who, according to their quialification are ready to help students in developing the competencies, difined by the program. Partner Software Mark and Caucasus School of Technology's Partner organizations: foreign and Georgian higher educational institutions, as well as governmental and non-governmental organizations are also involved into the program implementation, within the framework of a Memorandum of Cooperation. Partner Governmental and non-governmental organizations: HR Recruitment Agency, Aliance Group Holding: Omedia; GITA; EY; Imobiliare; Silknet; UGT; Orient Logic; MyGP9; 22FTFS, Scientific Research Institute Optica; Guramex; Georgian National Communications Commission; Ministry of Defence of Georgia; Ministry of Justice of Georgia; Ministry of Pinance of Georgia; National Bank of Georgia; Tbilis City Hall Poreign higher educational institutions: Tallinn University of Southern Demmark; Fairleigh Dickinson University; Kaunas University Of Technology; Ming Chanu University of Taiwan; University and Autonoma de Gvadalajara, Mexico; IESB, Brasilia Higher Education Institute, Brazil. Material and Technical Resources For reaching the outcomes envisaged by the Program, the University infrastructure and material and technical resources or envisaged by the Program, the University infrastructure and material and technical resources of the University premises where sanitary-hygiene and safety rules are adhered to. The University ensure the goals set by the Program are reached and the planned, outcomes are realized: Premises: the Program is conducted on the University premises where sanitary-hygiene and safety rules are adhered to. The University bilding fully complies with technical requirements establied for Universities the University upper subile for Universities and administrative pereso	
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	Financial Resourses

The budjet for financial Support of the Program is developed and included in the whole budget of the University.

# Program Curriculum

						Year		
					I	II		
				ECTS				
№	Course Code	Prerequisite	Course Name	I Semester	II Semester	I Semester	II Semester	ECTS
			Required Courses					
1.	ITSM 5140		IT Service Management	×				6
2.	ISM 5141		Information Systems	×				6
3.	ISM 5145		Database and Data Center Management					6
4.	MNG 5140		Strategic Management					6
5.	ISM 5241		Operating Systems in Corporation		×			6
6.	ISM 5244		ERP Systems		×			6
7.	ISM 5343	ISM 5141	Information Systems Security			×		6
8.	WRT 5340		Academic Writing & Research Methods			×		6
9.	MST 5440	WRT 5340	Master's Thesis <sup>1</sup>				×	30
	Electives *							
10.	ISM 5143		Electronic Governance	×				6
11.	ISM 5144		Enterprise Architecture ×				6	
12.	ISM 5146		Software Engineering ×				6	
13.	BUSA 5240		Accounting and Finances					6
14.	MK 5240		Strategic Marketing ×			6		
15.	ISM 5245	ISM 5141	Information Systems Management ×		6			
16.	ISM 5246		Cyber Security for Managers ×		6			
17.	ISM 5341	ISM 5241	Data Communications and Networking ENG ×				6	

					Î		V		
					Year				
						[	II		
		Course Code Prerequisite	Course Name			EC	TS		
Nº	Course Code				I Semester	II Semester	I Semester	II Semester	ECTS
18.	ISM 5342		Cloud Technologies			×			6
19.	ISM 5344	BUSA 5240	Project Management			×			6
20.	ISM 5345		Modern Cryptography			×			6
21.	STAT 5340		Statistics for managers			×			6
22.	MNG 5340	MNG 5140	Decision Making			×			6
23.	ISM 5441	STAT 5340	Data Warehousing				×		6
24.	ISM 5442		Internet Technologies	Internet Technologies			×		6
25.	MNG 5441	MNG 5140	Innovation & Change Management	Innovation & Change Management			×		6
26.	MNG 5442		Human Resource Management				×		6
27.	PRW 5440		Practical Work				×		12
28.	28.   Free Course			x					
	ECTS		Per Se	mester	30	30	30	30	
			Pe	er Year	6	0	6	0	

<sup>&</sup>lt;sup>1</sup> The volume of "Master's Thesis" is 18 ECTS before Intake 2018-2019, for those who've already accumulated 90 ECTS and more. <sup>ENG</sup> Courses are taught in English.

### Distribution of Total Hours

Nº	Course Code	Course Name	ECTS Credits\ Hours	Lecture / Practical Work Hours	Seminar Hours	Midterm and Final Exam Hours	Presentation Hours	Out of class preparation Hours
1	ITSM 5140	IT Service Management	6/150	21	5	4		120
2	ISM 5141	Information Systems	6/150	23	3	4		120
3	ISM 5145	Database and Data Center Management	6/150	23	3	4		120
4	MNG 5140	Strategic Management	6/150	18	6	4	2	120
5	ISM 5241	Operating Systems in Corporation	6/150	17	7	4	2	120
6	ISM 5244	ERP Systems	6/150	19	5	4	2	120
7	ISM 5343	Information Systems Security	6/150	22	4	4		120
8	WRT 5340	Academic Writing & Research Methods	6/150	24		4	2	120
9	MST 5441	Master's Thesis	30/750	20				730
10	ISM 5143	Electronic Governance	6/150	18	6	4	2	120
11	ISM 5144	Enterprise Architecture	6/150	19	5	4	2	120
12	ISM 5146	Software Engineering	6/150	22	4	4		120
13	BUSA 5240	Accounting and Finances	6/150	18	6	4	2	120
14	MK 5240	Strategic Marketing	6/150	20	4	4	2	120
15	ISM 5245	Information Systems Management	6/150	23		4	3	120
16	ISM 5246	Cyber Security for Managers	6/150	20	2	4	4	120
17	ISM 5341	Data Communications and Networking	6/150	21	5	4		120
18	ISM 5342	Cloud Technologies	6/150	22	4	4		120
19	ISM 5344	Project Management	6/150	22	2	4	2	120
20	ISM 5345	Modern Cryptography	6/150	21	5	4		120
21	STAT 5340	Statistics for managers	6/150	22	4	4		120
22	MNG 5340	Decision Making	6/150	21	5	4		120
23	ISM 5441	Data Warehousing	6/150	19	5	4	2	120
24	ISM 5442	Internet Technologies	6/150	21	3	4	2	120
25	MNG 5441	Innovation & Change Management	6/150	24		4	2	120
26	MNG 5442	Human Resource Management	6/150	21	3	4	2	120
27	PRW 5440	Practical Work	12/300	240				60

### Academic and Invited Personnel

#	Personnel Name	Status	Course				
			Information Systems				
1.	Avtandil Kavrelishvili	Professor	Database and Data Center Management				
			Information Systems Management				
2.	Davit Kapanadze	Professor	Statistics for managers				
3.	Akaki Khvedelidze	Invited Lecturer	Data Communications and Networking				
4.	Andria Gotsiridze	Invited Lecturer	Cyber Security for Managers				
E	Andre Dashuadaa		ERP Systems				
Э.	Andro Dgebuadze	Invited Lecturer	Enterprise Architecture				
6.	Givi Kupatadze	Invited Lecturer	Decision Making				
7.	7.     Giorgi Tsimintia     Invited Lecturer     Project Management		Project Management				
8.	Giorgi Alkhazishvili	Giorgi Alkhazishvili Invited Lecturer Software Engineering					
9.	Giorgi Datukishvili	Datukishvili Professor Cloud Technologies					
10.	Rusudan Chachanidze	Invited Lecturer	Accounting and Finances				
11.	Ioseb Dzamanashvili	Professor	Internet Technologies				
12.	Lili Bibilashvili	Invited Lecturer	Human Resource Management				
13.	Madona Giorgadze	Invited Lecturer	Academic Writing & Research Methods				
14.	Maksim Iavich	Professor	Modern Cryptography				
15.	Giorgi Iashvili	Invited Lecturer	Information Systems Security				
16.	Medea Gelenava	AssociateProfessor	Data Warehousing				
17.	Merab Tavartkiladze	Professor	Operating Systems in Corporation				
18.	Natalia Mumlauri	Invited Lecturer	Strategic Marketing				
19.	9. Nino andriadze Invited Lecturer		Innovation & Change Management				
20.	Paata Sirbiladze	Assistant-Professor	Electronic Governance				
			Strategic Management				
21.	21. Sergi Bejhashvili Invited Lecturer		IT Service Management				