



REPUBLIC OF MACEDONIA  
MINISTRY OF EDUCATION AND SCIENCE

### CALL FOR SCHOLARSHIPS

The Government of the Republic of Macedonia announces the Call for Applications for full undergraduate scholarships, initiating for the academic 2012-2013, at the University of Information Science and Technology "Saint Paul the Apostle" in Ohrid, Macedonia.

The scholarships are available to outstanding students, not older than 22 years old, from Algeria, Angola, Armenia, Azerbaijan, Cameroon, People's Republic of China, Croatia, Czech Republic, Egypt, Estonia, Ethiopia, Gabon, Georgia, Ghana, Indonesia, Israel, India, Laos, Latvia, Lebanon, Japan, Kazakhstan, Kuwait, Lithuania, Malaysia, Moldova, Mongolia, Morocco, Oman, Pakistan, Portugal, Qatar, Poland, Romania, Russian Federation, Saudi Arabia, Spain, Sri Lanka, Slovakia, United Republic of Tanzania, Thailand, Tunisia, Ukraine, United Arab Emirates, United States of America, Uzbekistan, Nigeria and Vietnam who wish to pursue undergraduate studies in one of the following programmes:

- (1) Communication Networks and Security;
- (2) Computer Science and Engineering;
- (3) Information Systems, Visualization, Multimedia and Animation;
- (4) Information Theory and Analysis and
- (5) Machine Intelligence and Robotics. One full scholarship will be awarded to a candidate from each of the eligible countries.

The scholarship provides for:

- full tuition fees;
- visa and residence permit fees (proof of good health condition and immunization chart is required);
- return air fare from the applicant's home country;
- accommodation and food (full board) in the University dorm "Nikola Karev" in Ohrid, the Republic of Macedonia;
- health insurance;
- additional monthly allowance of 5000 MKD (approximately 82 EUR);

All prospective students should note that the application process starts on the 01.04.2012 and will be open until 01.06.2012. Candidates are required to submit an online application, which from 01.04.2012 will be available on the official scholarship web site of the Ministry of Education and Science, [www.stipendii.mon.gov.mk](http://www.stipendii.mon.gov.mk) or submitted in hard copy to the appropriate Ministry of Education of the applicant's home country or in electronic version. All students must send attached scanned copies of the required documents and Application form to the following e-mail: [biljana.zafirovska@mon.gov.mk](mailto:biljana.zafirovska@mon.gov.mk)

In supplement to the application, candidates are required to provide electronic copies from the following original documents:

- Application Form (can be found in the annex of this Call for Scholarships or can be downloaded from the website of the Ministry of Education and Science of the Republic of Macedonia: [www.mon.gov.mk](http://www.mon.gov.mk));
- Official high school diploma or certificate (where applicable);
- Official transcripts;
- Proof of English proficiency. All students whose first language is not English are required to provide evidence that their spoken and written command of the English language is appropriate for the programme they are applying.

The required evidence may take the form of either:

1. Substantial education (minimum 15 months) conducted in English and undertaken no more than two years prior to the date of enrolment
2. Acceptable English language qualification or test result. The qualification or test results must have been awarded no more than two years prior to the proposed date of enrolment.

Accepted results are:

- Grade C or better in English Language at GCSE / GCEO
- Grade C or better in English First Language at IGCSE
- Grade B or better in English Second Language at IGCSE
- An overall band of 6.5 or better in IELTS
- A score of 550 or better in the paper-based TOEFL (213 for computer-based, 80 for internet-based)
- Subscores of 550 or better in Critical Reading and 550 or better in Writing in SAT
- Grade 4 or better in the Higher Level English Language (B Syllabus); or grade 5 or better in the Standard Level English Language (B Syllabus); or grade 4 or better in the Higher or Standard Level English Language (A1 or A2 Syllabus); or grade 4 or better in the Standard Level English - Text and Performance; or grade 4 or better in the Standard Level English - Literature and Performance (A1 syllabus) at International Baccalaureate

- Official document certifying the candidate has no criminal convictions and is not under criminal investigation at the moment of application. Candidates should note that with the exception to some countries, these are two separate documents;
- Official general medical report, including medical tests for HIV and Hepatitis C;
- An electronic copy of Passport which must be valid for the next 3 calendar years;
- In addition, as part of the application candidates are required to submit contact details from two academic professors/teachers, who will provide letters of recommendation for the candidate. Candidates are advised to notify the professors ahead of time, in order for the references to be submitted within the application deadline. Both letters are confidential. In case they are sent in the form of hard copy, the documents must be sent in a sealed envelope, signed by the referee across the seal.

All documents submitted must be in English or officially translated in English.

#### Additional information:

- Applicants who have not completed their high school education by 01 April 2012 may receive a conditional offer for admission pending their high school diploma. Successful applicants must

finalise their high school studies and submit their transcript and diploma no later than 01 August 2012;

- The selection process will be implemented by a five member committee appointed by the Minister for Education and Science of the Republic of Macedonia;
- Successful applicants will sign a contract with the Ministry of Education and Science of the Republic of Macedonia. The contract will stipulate that the scholarship provides funds for the first academic year and subsequently for the rest of the three years of the undergraduate studies, provided that the student satisfactory concludes the first year of studies;
- The students are encouraged to return to their home country after the completion of their studies;
- Official language of the programmes is English and courses are held by distinguished local and international lecturers;
- Programme Outline and Course Overview are included in the annexes of this Call and are available on the website of the University of Information Science and Technology "St Paul the Apostle": <http://www.uist.edu.mk/faculties.htm>;
- Additional information regarding the University and the programmes is available on the website of the University of Information Science and Technology "Saint Paul the Apostle": <http://www.uist.edu.mk>.
- General information about the City of Ohrid, the UNSECO protected city that hosts the University can be found at: <http://www.exploringmacedonia.com>.

For all addition information, please do not hesitate to contact Ms Biljana Zafirovska tel: + 389 2 3140 165, +389 2 3227 761 and e-mail: [biljana.zafirovska@mon.gov.mk](mailto:biljana.zafirovska@mon.gov.mk).

**ANNEX 1: APPLICATION FORM**  
scholarship for studying at University of information science and technology „Saint  
apostle Paul“ – Ohrid

photo

DETAILS OF THE APPLICANT				
FIRST NAME(S)				
FAMILY NAME				
GENDER		<input type="checkbox"/> male <input type="checkbox"/> female		
DATE OF BIRTH Please use format dd/mm/yyyy				
NATIONALITY				
PASSPORT NUMBER and date of expiry				
ADDRESS				
CITY		POSTAL CODE		
email		TELEPHONE including country and city codes		
Please give a short description of your secondary school				
Name and location of the school				
Type of the school (gymnasium, vocational)		Teaching language	Duration (years)	Grade obtained
Knowledge of English language (level or type of certificate)				
Faculty and study programme you wish to study at the University of Information Science and Technology				

Please state briefly why you are applying for the scholarship, and indicate both what you expect from it and how it would benefit your career and your country (500 words)

Please indicate the extracurricular activities you have taken part off (latest first)

**DETAILS OF THE ACADEMIC REFEREE**

Please provide contact details of the person that has provided you with the Recommendation Letter



**IMPORTANT NOTE:** The letter of recommendation is confidential. In case it is sent by hard copy, the document must be sent in a sealed envelope, signed by the referee across the seal. In case it is sent online, the documents must be e-mailed by the referee himself/herself with subject stating the applicant's name. In this section please provide brief details of the referee.

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I certify that the statements made by me in answer to the foregoing questions are true, complete and correct.

DATE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_



**UNIVERSITY FOR INFORMATION SCIENCE & TECHNOLOGY**  
**"ST. PAUL THE APOSTLE"**  
Ohrid, Republic of Macedonia

Program Outlines and Course Overviews

## 1. Communication Networks & Security (CNS)

### Program outline and goal

The faculty of Communication Networks and Security is intended for students who want to achieve a solid level of knowledge and skills in the area of networking, communication and security. In addition to a thorough theoretical base on these topics, hands-on lab assignments and applications are important parts of the courses. Having completed these studies the students will be competent in: communication networks (design and maintenance), security measures and methods, signal processing, network programming etc. The goal of this is to give students the opportunity and means to become high-quality educated professionals who will be able to cope in industry or an academic environment.

### Course overview

Semester	Courses	Semester	Courses
1	Mathematics 1 Programming 1 Technical Communication 1 Physics Discrete Mathematics	2	Mathematics 2 Programming 2 Technical Communication 2 Networks Architectures Digital Signal Processing
3	Programming 3 Database Systems 1 Algorithms and Data Structures 1 Communication Protocols Elective Course	4	Database Systems 2 Algorithms and Data Structures 2 Probability and Statistics Wireless Technology Elective Course
5	Programming 4 Stochastic Processes Server and Client Systems 2 Minor Electives Courses	6	Wireless Sensor Networks Coding Theory Cryptography 2 Minor Electives Courses
7	Network Security Architectures R&D Methods for Science Engineering 2 Final Projects Major Elective Course	8	Advanced Algorithms Senior Seminar Major Elective Course 2 Final Projects

### Offered degree programs

The University for Information Science and Technology "St. Paul the Apostle" offers the next types of degree programs.

- After completion of 3 years of studies students will get a degree of Bachelor of Engineering in IS&T, in the area of Communication Networks and Security.
- After completion of 4 years of studies students will get a degree of Bachelor of Science in IS&T, in the area of Communication Networks and Security.
- Students who wish to continue their education and get a master degree they could study 2 years at UIST master program.



## 2. Computer Science and Engineering (CSE)

### Program outline and goal

The faculty of Computer Science and Engineering is intended for students who want to achieve a solid level of knowledge and skills in the broad area of computer science and engineering. In addition to a thorough theoretical base, hands-on lab assignments and applications are important parts of the course. Having completed these studies the students will be competent in: configuring computers and networks, programming, analyzing processes and their computing, development and use of commercial software, application development, operating systems etc. The goal of this faculty is to give students the opportunity and means to become high quality educated professionals who will be able to cope in industry or an academic environment.

### Course overview

Semester	Courses	Semester	Courses
1	Mathematics 1 Programming 2 Technical Communication 1 Physics Discrete Mathematics	2	Mathematics 2 Programming 2 Technical Communication 2 Computer Organization Assembly Language
3	Programming 3 Database Systems 1 Algorithms and Data structures 1 Computer System Configuration 2 Minor Elective Courses	4	Database Systems 2 Probability and Statistics Algorithms and Data Structures 2 Operating Systems Minor Elective Course
5	Programming 4 Finite State Machines Compiler Theory Concepts 2 Minor Elective Courses	6	Wireless Sensor Networks Network Architectures Programming Language 2 Minor Elective Courses
7	Cloud Computing Technologies R&D Methods for Science Engineering 2 Final Projects Major Elective Course	8	Advanced Algorithms Senior Seminar Major Elective Course 2 Final Projects

### Offered degree programs

The University for Information Science and Technology "St. Paul the Apostle" offers the next types of degree programs.

- After completion of 3 years of studies students will get a degree of Bachelor of Engineering in IS&T, in the area of Computer Science & Engineering.
- After completion of 4 years of studies students will get a degree of Bachelor of Science in IS&T, in the area of Computer Science and Engineering.
- Students who wish to continue their education and get a master degree they could study 2 years at UIST master program.

### 3. Information Systems, Visualization, Multimedia and Animation (ISVMA)

#### Program outline and goal

The faculty of Information Systems, Visualization, Multimedia and Animation is intended for students who want to achieve a solid level of knowledge and skills in the area of multimedia and animation. In addition to a thorough theoretical base, hands-on lab assignments and applications are important parts of the course. Having completed these studies the students will have specific competence in: multimedia system design, programming, computer graphic etc. In addition to this specialized knowledge students will have a solid base knowledge in the broader area of computer science. The goal of this faculty is to give students the opportunity and means to become high-quality educated professionals who will be able to cope in industry or an academic environment.

#### Course overview

Semester	Courses	Semester	Courses
1	Mathematics 1 Programming 1 Technical Communication 1 Physics Discrete Mathematics	2	Mathematics 2 Programming 2 Technical Communication 2 Human Computer Interaction Cognitive Science
3	Programming 3 Database Systems 1 Algorithms and Data Structures 1 Computer Graphic and Display Minor Elective Course	4	Database Systems 2 Quality Control and Assurance Algorithms and Data Structures 2 Multimedia Design Minor Elective Course
5	Programming 4 Numerical Methods Graph Theory 2 Minor Elective Courses	6	Probability and Statistics Pattern Recognition Clustering 2 Minor Elective Courses
7	Management of Virtual Environment and Visualization R&D Methods for Science Engineering 2 Final Projects Major Elective Course	8	Advanced Algorithms Senior Seminar Major Elective Course 2 Final Projects

#### Offered degree programs

The University for Information Science and Technology "St. Paul the Apostle" offers the next types of degree programs.

- After completion of 3 years of studies students will get a degree of Bachelor of Engineering in IS&T, in the area of Information Systems, Visualization, Multimedia and Animation.
- After completion of 4 years of studies students will get a degree of Bachelor of Science in IS&T, in the area of Information Systems, Visualization, Multimedia and Animation.
- Students who wish to continue their education and get a master degree they could study 2 years at UIST master program.

#### 4. Information Theory and Analyses (ITA)

##### Program outline and goal

The faculty of Information Theory and Analyses is intended for students who want to achieve a solid level of knowledge and skills in the broad area of computer science and engineering. In addition to a thorough theoretical base, hands-on lab assignments and applications are important parts of the course. Having completed these studies the students will be competent in: information system analyses, processes, technologies and signals etc. In addition to this specialized knowledge students will have a solid base knowledge in the broader area of computer science. The goal of this faculty is to give students the opportunity and means to become high-quality educated professionals who will be able to cope in industry or an academic environment.

##### Course overview

Semester	Courses	Semester	Courses
1	Mathematics 1 Programming 1 Technical Communication 1 Physics Discrete Mathematics	2	Mathematics 2 Programming 2 Technical Communication 2 Thermodynamics Cognitive Science
3	Programming 3 Database Systems Algorithms and Data structures 1 Differential Equations Minor Elective Course	4	Database Systems 2 Quality Control and Assurance Algorithms and Data Structures 2 Numerical Methods Minor Elective Course
5	Programming 4 Stochastic Processes Information Theory Processing 2 Minor Elective Courses	6	Probability and Statistics Coding Theory Image and Signal Processing 2 Minor Elective Courses
7	Optimization Theory R&D Methods for Science Engineering 2 Final Projects Major Elective Course	8	Advanced Algorithms Senior Seminar Major Elective Course 2 Final Projects

##### Offered degree programs

The University for Information Science and Technology "St. Paul the Apostle" offers the next types of degree programs.

- After completion of 3 years of studies students will get a degree of Bachelor of Engineering in IS&T, in the area of Information Theory and Analyses.
- After completion of 4 years of studies students will get a degree of Bachelor of Science in IS&T, in the area of Information Theory and Analyses.
- Students who wish to continue their education and get a master degree they could study 2 years at UIST master program.

## 5. Machine Intelligence and Robotics (MIR)

### Program outline and goal

The faculty of Machine Intelligence and Robotics is intended for students who want to achieve a solid level of knowledge and skills in the area of robotics and artificial intelligence. In addition to a through theoretical base, hands-on lab assignments and applications are important parts of the course. Having completed these studies the students will be competent in designing and exploiting robotic systems, they will have firm knowledge of concepts and applications in artificial intelligence and automated systems etc. The goal of this faculty is to give students the opportunity and means to become high-quality educated professionals who will be able to cope in industry or an academic environment.

### Course overview

Semester	Courses	Semester	Courses
1	Mathematics 1 Programming 1 Technical Communication 1 Physics Discrete Mathematics	2	Mathematics 2 Programming 2 Technical Communication 2 Sensors and Actuators Automated Reasoning Search
3	Programming 3 Database Systems Algorithms and Data Structures 1 Linear System Theory Minor Elective Course	4	Database Systems 2 Algorithms and Data Structures 2 Wireless Sensor Networks Control Theory Minor Elective Course
5	Programming 4 Stochastic Processes Statistical Learning Systems 2 Minor Elective Courses	6	Probability and Statistics Cognitive Science Decision Theory 2 Minor Elective Courses
7	Artificial Intelligence R&D Methods for Science Engineering 2 Final Projects Major Elective Course	8	Advanced Algorithms Senior Seminar Major Elective Course 2 Final Projects

### Offered degree programs

The University for Information Science and Technology "St. Paul the Apostle" offers the next types of degree programs.

- After completion of 3 years of studies students will get a degree of Bachelor of Engineering in IS&T, in the area of Machine Intelligence and Robotics.
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## ANNEX 1: APPLICATION FORM

scholarship for studying at University of information science and technology „Saint apostle Paul“ - Ohrid

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FAMILY NAME			
GENDER		<input type="checkbox"/> male <input type="checkbox"/> female	
DATE OF BIRTH <small>Please use format dd/mm/yyyy</small>			
NATIONALITY			
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ADDRESS			
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DATE:

SIGNATURE: