UNIVERSITY OF PRIZREN
FACULTY OF COMPUTER SCIENCE

PROGRAM: TIT

Curriculum - – SYLLABUS							
Level of studies	BACHELOR	***Program***	BOS	***Academic year***	2018/2019		
SUBJECT	**Research methods**						
Year	**II**	***Status Of the subject***	Mandatory	***Code***		***ECTS credits***	6
Semester	IV						
Teaching weeks	15	***Teaching hours***	4	***Lectures***	***Exercises***		
				2	2		
Teaching Methodology	**Lectures, exercises, seminar papers, consultations, tests, e-learning, assignments**						
Consultation	**One hour before and one hour after the lecture**						
The teacher	Mr. Elmaz Karadzi	***E-mail:***	elmazk@hotmail.com				
		Tel.:	044-119 231				
Assistant		***E-mail:***					
		Tel.:					

Study goal and table of content	Benefits of student
Students should be introduced into science through clear determinants of the science itself, the stage of the scientific research process, the types of scientific research, the determinants of scientific and professional work, and the other necessary facts for a fuller understanding of science. Therefore, the object of this subject is fourfold. 1.To provide students with a basic insight into social condition of knowledge, production and the historical development of science; 2. Enable students use of the scientific literature they encounter during their studies and increasingly present lifelong learning; 3. To enable students accessing scientific events in a scientific way; 4. Enable students to conduct independent scientific and professional research through the adoption of basic research methods and techniques. The result should also be students' ability to quality writing of seminars and final papers at all levels of the educational process. Enabling students to work on computer and use the devices in a safe and responsible manner. Encourage creative work on the computer and develop communication skills Cognition of curiosity, interest and responsibility for teamwork on the project; Linking and building your own learning strategies. Evaluating and self-evaluating achievements, developing inter-subject competencies related to teamwork, collaboration, entrepreneurship and problem solving in everyday life, the autonomy of students in the process of learning and working in the world of technology, technology and computing; Application of modern web 2.0 technologies in education	**Knowledge:** 1. Compare the scientific approach facts from an unscientific 2. Distinguish the scientific methods and techniques. 3. Analyze the applicability of certain methods to specific research subjects 4. Compare the reach of quantitative and qualitative methods in research. 5. Choose a sample of research. 6. Judge the importance of scientific and professional research. 7. Analyze and compare research results 8. Interpret the read scientific literature **Ability:** • practice to search the Internet to get reliable information; • develop a multimedia project with its team on a given topic; • Student ability to use word processing programs, tabular calculation, presentations and internet browsing. • Create educational content in web 2.0 tools

	• Solving concrete problems from practice

Methodology for the implementation of educational topics:

• Presentation of a teaching topic in Power Point (the student can download the presentation after each lecture from the Web site www.aemdl.com/informatics)
• A student case or task (during exercise) is associated with a lecture topic
• Recovery of the foreground from a particular group of students, analysis and discussion
• Educational portal www.aemdl.com, forums, conceptual folders, wiki, google documents, blogs, glogs ...

Conditions for realization of educational topics:

• The room is equipped with computers and a projector. Internet access

Ways of assessing the student (in %) :	**Evaluation in%**	**Final grade**
• Attendance 0-5%	91-100	10
• Commitment 0-5%	81-90	9
• Seminar paper 0-10%	71-80	8
• Test I 0-10%	61-70	7
• Test II 0-10%	51-60	6
• Final exam 0-50%	0-50	5
Total	**100.00 %**	

Obligations of student:

Lectures	**Exercises**
• Attendance • Active participation in discussions during lectures • Seminar paper • Participation in the test • Final test	• Participation in exercises • Group work in case studies and tasks • Participation in case studies discussions

Activities	**Hour/ weeks**	**Days/Weeks**	**Total**
Lectures	2	15	30
Exercises	2	15	30
Practical work	2	10	20
Contacts with lecturers / consultations	1	15	15
Field exercises	-	-	-
First written assignment, seminars	1	10	10
Assignment	1	20	20
Independent work	2	15	30
Final exam preparation	1	5	5
Past period, success (tests, quiz, final exam, etc.)	1	10	10
Projects, presentations, etc.	1	10	10
Notice: 1 ECTS credits= 30 hour commitment, e.g. if the subject has 6 ECTS credits student must have 180 hours during the semester commitment.		**Total load:**	**180**

Week	**Lectures**	**Hour**	**Exercises**	
	Topic		**Topic**	
1	Topic: The origin, name and development of the methodology, the subject of the methodology, syllabus. - Research methods and types of research methods	2	Topic: The origin, name and development of the methodology, the subject of the methodology,syllabus. - Research methods and types of research methods	2
	References: Esad Jakupovic: Methodology of Scientific Research, Light, Sarajevo, 2014		**References: Esad Jakupovic: Methodology of Scientific Research, Light, Sarajevo, 2014**	

2	**Topic: Science, its role and tasks. Defining science, types and fields of science. Fundamental science, applied science, development science. Science, scientific knowledge, system of classification of science.** **References: Esad Jakupovic: Methodology of Scientific Research, Light, Sarajevo, 2014**	2	**Topic: Science, its role and tasks. Defining science, types and fields of science. Fundamental science, applied science, development science. Science, scientific knowledge, system of classification of science.** **References: Esad Jakupovic: Methodology of Scientific Research, Light, Sarajevo, 2014**	2
3	**Topic: Scientific view of the world, research and acceptance of subjective and objective reality.** **References: Esad Jakupovic: Methodology of Scientific Research, Light, Sarajevo, 2014**	2	**Topic: Scientific view of the world, research and acceptance of subjective and objective reality.** **References: Esad Jakupovic: Methodology of Scientific Research, Light, Sarajevo, 2014**	2
4	**Topic: Methods of scientific work, classification of methods, types of methods, fundamental methods, basic methods, special methods.** **References: Esad Jakupovic: Methodology of Scientific Research, Light, Sarajevo, 2014**	2	**Topic: Methods of scientific work, classification of methods, types of methods, fundamental methods, basic methods, special methods.** **References: Esad Jakupovic: Methodology of Scientific Research, Light, Sarajevo, 2014**	2
5	**Topic :. Fundamental methods:** **- The dialectical method** **- Metaphysical method** **References: Esad Jakupovic: Methodology of Scientific Research, Light, Sarajevo, 2014**	2	**Topic :. Fundamental methods:** **- The dialectical method** **- Metaphysical method** **References: Esad Jakupovic: Methodology of Scientific Research, Light, Sarajevo, 2014**	2
6	**Topic :. Basic methods:** **-Inductive method** **-Deductive method** **- Method analysis** **-Method synthesis** **-Comparative method** **References: Esad Jakupovic: Methodology of Scientific Research, Light, Sarajevo, 2014**	2	**Topic :. Basic methods:** **-Inductive method** **-Deductive method** **- Method analysis** **-Method synthesis** **-Comparative method** **References: Esad Jakupovic: Methodology of Scientific Research, Light, Sarajevo, 2014**	2
7	**Topic: First Assignment** **Methods of scientific work, classification of methods** **References: Esad Jakupovic: Methodology of Scientific Research, Light, Sarajevo, 2014**	2	**Topic: First Assignment** **Methods of scientific work, classification of methods** **References: Esad Jakupovic: Methodology of Scientific Research, Light, Sarajevo, 2014**	2
8	**Topic: Basic methods:** **-Method analogy** **- Anesthetic method** **-Statistic method** **- Observation Method f** **References: Esad Jakupovic: Methodology of Scientific Research, Light, Sarajevo, 2014**	2	**Topic: Basic methods:** **-Method analogy** **- Anesthetic method** **-Statistic method** **-Observation method** **References: Esad Jakupovic: Methodology of Scientific Research, Light, Sarajevo, 2014**	2
9	**Topic: Basic methods** **-Method of expiration** **-Method analogy** **-Sociological methods**	2	**Topic: Basic methods** **-Method of expiration** **-Method analogy** **-Sociological methods**	2

	References: Esad Jakupovic: Methodology of Scientific Research, Light, Sarajevo, 2014		**References: Esad Jakupovic: Methodology of Scientific Research, Light, Sarajevo, 2014**	
10	**Topic: Special (professional) methods** **- An axiological method** **-Dogmatic method** **-Cybernetic method** **Literature: Mithad Samic Methodology of Scientific Work, Light, Sarajevo, 2003**	2	**Topic: Special (professional) methods** **- An axiological method** **-Dogmatic method** **-Cybernetic method** Literature: Mithad Samic Methodology of Scientific Work, Light, Sarajevo, 2003	2
11	**Topic: Technology of research work** **- Survey** **-Interview** **-Test** **- Measurement** **- Counting** **Literature: Mithad Samic Methodology of Scientific Work, Light, Sarajevo, 2003**	2	**Topic: Technology of research work** **-Survey** **-Interview** **-Test** **- Measurement** **- Counting** Literature: Mithad Samic Methodology of Scientific Work, Light, Sarajevo, 2003	2
12	**Topic: Technique of Scientific Research Work** **- Computer modern technology** **-Informatic literacy** **-European Information Technology Standards (ECDL)** **Literature: Mithad Samic Methodology of Scientific Work, Light, Sarajevo, 2003**	2	**Topic: Technique of Scientific Research Work** **- Computer modern technology** **-Informatic literacy** **-European Information Technology Standards (ECDL)** Literature: Mithad Samic Methodology of Scientific Work, Light, Sarajevo, 2003	2
13	**Topic: Written assignment (second exam test).** **Theme: Technique of Scientific Research Work** **Literature: Mithad Samic Methodology of Scientific Work, Light, Sarajevo, 2003**	2	**Topic: Written assignment (second exam test).** **Theme: Technique of Scientific Research Work** Literature: Mithad Samic Methodology of Scientific Work, Light, Sarajevo, 2003	2
14	**Topic: Technique of Scientific Research Work** **-Development of the computer network** **-Computer networks** **-Internet** **-Services via the Internet** **-Internet in practice** **-Communication-Multimedia** **Literature: Mithad Samic Methodology of Scientific Work, Light, Sarajevo, 2003**	2	**Topic: Technique of Scientific Research Work** **-Development of the computer network** **-Computer networks** **-Internet** **-Services via the Internet** **-Internet in practice** **-Communication-Multimedia** Literature: Mithad Samic Methodology of Scientific Work, Light, Sarajevo, 2003	2
15	**Topic: METHODS OF INTERNET RESEARCH AND ONLINE RESEARCH** **Literature: Panian Zeljko, Wealth of the Internet, Zagreb, 2016.Multimedia**	2	**Topic: METHODS OF INTERNET RESEARCH AND ONLINE RESEARCH** Literature: Panian Zeljko, Wealth of the Internet, Zagreb, 2016.Multimedia	2

LITERATURE:

1. Basic literature:
   1. Esad Jakupovic: Methodology of Scientific Research, Light, Sarajevo, 2014
   2. Mithad Samic: Methodology of Scientific Work, Svetlost, Sarajevo, 2003
   3. Panian Zeljko: The Wealth of the Internet, Zagreb, 2016.Multimedia

2. Additional literature:
   1. Žugaj M., Dumičić K., Dušak V. Foundations of scientific research, Varaždin: Faculty of Organization and Informatics, 1999

2.ELECTRONIC INFORMATION SOURCES IN SCIENCE http://www.search-engineindex.co.uk/

NOTICE:

• For every teaching subject, students must have access to literature in the Bosnian language.
• At the end of each lecture, a particular group of students will be engaged in a case study or a task based on a subject.
• Achieved results from a given task, student groups should present and discuss during exercises.

Student Notice:

• The student should be responsible and respect the institution and rules of education.
• The schedule of lectures, exercises and care should be taken during the teaching hours.
• It is required to possess and display the index on tests and exams.
• During the seminar work, the student should adhere to the given instructions from the lecturers on the realization of the research and technical work.