FACULTY OF INFORMATICS (SECOND YEAR)

Third semester		Credits
	Title of the subject	ECTS
1	Data structures and algorithms	**7**
2	Operative system	**6**
3	Discrete Mathematics	**7**
	Elective courses (2 of 4):	
	Management-information systems	**5**
	User interfaces	**5**
	Computer graphics	**5**
	English Language 2	**5**
	Total	**30**

Literature	
Subject	**Literature**
Data structures and algorithms	*Data Structures and Algorithm Analysis in C++, 4th Edition,* Mark A. Weiss, Pearson, 2014
Operative system	*Modern Operating Systems,* Andrew S. Tanenbaum, Prentice Hall, 2010
Discrete Mathematics	*Discrete Mathematics and its Applications, 7th Edition,* K. H. Rosen, The McGraw-Hill Companies, 2012 *Discrete Mathematics-Fundamentals of Informatics, R. L. Graham, D. E. Knut, O. Patashnik, Ars Lamina, 2014* *Introduction to probability, D. P. Bercecas, J. N. Tsitsikis, Ars Lamina, 2012*
Management-information systems	*Management Information Systems,* Keneth Laudon, J. Laudon, Pearson, 2015 *Management Information Systems,* Keneth Laudon, J. Laudon, Pearson,, Ars Lamina, Skopje, 2010
User interfaces	*Essential Mobile Interaction Design,* Cameron Banga Josh Weinhold, Addison Wisley, 2014 *Designing Interfaces,* Jennifer Tidwell, O Reilly, 2011
Computer graphics	*Computer Graphics: Principles and Practice, 3rd Edition,* John F. Hughes et al., Addison-Wesley Professional, 2014

| English Language 2 | **_ProFile 3,_** Naunton J., Oxford University Press, 2005 |