www.uaic.ro

COURSE DESCRIPTION

1. Information about the programme

1.1 Institution of higher education	Alexandru Ioan Cuza University of Iasi
1.2 Faculty	Faculty of Economics and Business Administration
1.3 Department	Accounting, Business Informatics and Statistics
1.4 Field of study	Business Administration
1.5 Level	Master
1.6 Study programme/ Qualification	Software Development and Business Information Systems

2. Information about the course

2.1 Course name			Science, Technology and Society			
2.2 Course coordir	nator		Prof. dr. Alexandru TUGUI			
2.3 Seminar coord	inato	r	Prof. dr. Alexandru TUGUI			
2.4 Year of study	2.4 Year of study II 2.5 Semester IV 2.6 Type of assessment P 2.7 Course status E				Е	
* C – Compulsory / F - Elective						

C – Compulsory / E - Elective

3. Total estimated time (hours alloted to teaching activities per semester)

3.1 Number of hours per week	3	of which: 3.2 lecture	2	3.3 seminar/lab	1
3.4 Number of hours in the curriculum	42	of which: 3.5 lecture	28	3.6 seminar/lab	14
Time distribution					
Study of the textbook, coursebook, bibliog	graphy	and lecture notes			45
Additional research in the library, online a	and on	the field			25
Preparation of seminars/labs, homework, projects, portfolios and essays				50	
Tutorials			15		
Assessment				3	
Other activities			0		
2.7 Total number of calf study hours				129	
				130	
3.8 Lotal number of hours per semester					180
3.9 Number of credits				6	

4. Prerequisites (if applicable)

4.1 Curriculum-based	Not applicable
4.2 Competence-based	Not applicable

5. Conditions (if applicable)

5.1 For lectures	Lecture rooms shall be provided with video projector Students will attend lectures. Cell phones must be turned off.	
5.2 For seminars / labs	Seminar rooms shall be provided with video projector MSO, SPSS, INTERNET, INTRANET	



6. Specific competencies

Professional competencies	 C4.5 Write the specifications and deploy the modules regarding data, applications and services integration (1.0 credit) C5.5 Elaborate a research project that identifies the trends and challenges within the field of software projects and IT services management (2.0 credits) C6.5 Case study development concerning modeling, design and implementation of business processes using BPM tools (2.0 credits)
Transversal competencies	CT1 – The ability to communicate and collaborate in teams of different professionals (0.5 credits) CT3 – Continuous improvement of specific skills and knowledge towards approaching information systems, development of new software technologies and management of information systems (0.5 credits)

7. Course objectives (provided by the specific competencies grid)

7.1. Main	To provide the core knowledge, methodologies and technics for research activities in fields of technology
objective	and society
7.2. Specific objectives	 Knowledge of logic architecture of scientific papers Knowledge and skills for the development of sciece paper in accord of science methodology Development the capabilities of sinthesis and analysis, of integration and communication Ability to identify the technological opportunities for business Development of sensitivity for futurology.

8. Content

8.1	Lectures	Teaching methods	Observations (hours & readings)
1.	Part I – Science		
2.	The fundamentals of scientific papers. Standards, principles, features, species	PPT presentation, explanation, conversation, questioning.	1 lecture
3.	Elements of documentary information	PPT presentation, explanation, conversation, questioning.	0.5 lectures
4.	Framework standard for a research paper	PPT presentation, explanation, conversation, questioning.	0.5 lectures
5.	Styles of writing for scientific papers	PPT presentation, explanation, conversation, questioning.	1 lecture
6.	Project 1: Science paper – Trends in business informatics	PPT presentation, explanation, conversation, questioning.	1 lecture



7	Part II – Technology			
1.	rartii – reciniology	DDT procontation overlanation	1 locturo	
8	What is Technology	conversation, questioning.	Tiecture	
	Technological evolution of society	PPT presentation, explanation, conversation, questioning.	1 lecture	
	Global Information Technology	PPT presentation, explanation, conversation, questioning.	1 lecture	
	Project 2: About technology	PPT presentation, explanation, conversation, questioning.	1.5 lectures	
	Part III – Society			
	Environmental implications of technology	PPT presentation, explanation, conversation, questioning.	1 lecture	
	Economics implications of technology	PPT presentation, explanation, conversation, questioning.	1 lecture	
	Health and safety implications of technology	PPT presentation, explanation, conversation, questioning.	1 lecture	
	Engineering education in social implications of technology	PPT presentation, explanation, conversation, questioning.	1 lecture	
	Social-technical future trends	PPT presentation, explanation, conversation, questioning.	1 lecture	
9	Project 3: Vision about society	PPT presentation, explanation, conversation, questioning.	1.5 lectures	
 Bibliography 1.Avramescu, A., Cândea, V., Introducere în documentarea științifică, București, Ed. Academiei, 1960. 2. Bucchi, M. (2004), Science in Society. An Introduction to Social Studies of Science, Routledge, London 3.Chelcea, Septimiu, Cum redactăm o lucrare de licență, o teză de doctorat, un articol științific în domeniul științelor socioumane, București, comunicare.ro, 2007. 4.Ferréol, Gilles, Flageul, Noël, Metode și tehnici de exprimare scrisă și orală, Ed. Polirom, Iași, 2007. 5.Grawitz, Madeleine, Méthodes des sciences sociales, Paris, Ed. Dalloz, 1993. Hackett, E., Amsterdamska, O., Lynch, M., Wajcman, J., Bijker, W. (2007), The Handbook of Science and Technology Studies, 3rd edition, The MIT Press. 6.Saunders, Mark, N.K., Lewis, Philip, Thornhill, Adrian, Research Methods for Business Students, Pearson Education Limited, 2000. 7.Schuwer, Philippe, Tratat practic de editare, Timișoara, Ed. Amarcord, 1999. Sismondo, S. (2009), An Introduction to Science and Technology Studies, 2nd edition, Wiley-Blackwell 8.Şerbănescu, Andra, Cum se scrie un text, Ed. Polirom, Iași, 2007. 9. Rad, Ilie, <i>Cum se scrie un text,</i> Ed. Polirom, Iași, 2007. 9. Rad, Ilie, Cum se scrie un text științific, Iași, Ed. Polirom, 2008. 10. American Psychological Association, The Publication Manual of the American Psychological Association, 6th ed. Washington, DC, 2009 11. Sternberg, Robert. The Psychologist's Companion. A Guide to Scientific Writing for Students and Researchers, 				
4 th ed,	Cambridge, Cambridge University Press, 200	03	Observations	

8.2	Seminars / Labs	Teaching methods	Observations (hours & readings)
1.	Explanations for project specifications	PPT presentation, Explanationa	2 h



2.	Part I – Science		
3.	Case study: Framework standard for a research paper: Title, Authors, Abstract, Introduction.	Demonstration, discussions, Case study analisys	2 h
4.	Case study: Framework standard for a research paper:Methods, Results	Demonstration, discussions, Case study analisys	2 h
5.	Case study: Framework standard for a research paper: Discussions, Conclusions, Aknowledgement, Notes, Appendix	Demonstration, discussions, Case study analisys	2 h
6.	Writing Styles	Demonstration, discussions, Case study analisys	2 h
7.	Part II – Futurology		
8.	Future of science	Discussion, presentation	1 h
9.	Future of technology	Discussion, presentation	1,5 h
10.	Futrure of society	Discussion, Scripts and code execution	1,5 h

Bibliography

1. Avramescu, A., Cândea, V., Introducere în documentarea științifică, București, Ed. Academiei, 1960.

2. Bucchi, M. (2004), Science in Society. An Introduction to Social Studies of Science, Routledge, London

3. Chelcea, Septimiu, *Cum redactăm o lucrare de licență, o teză de doctorat, un articol științific în domeniul științelor socioumane*, București, comunicare.ro, 2007.

4. Ferréol, Gilles, Flageul, Noël, Metode și tehnici de exprimare scrisă și orală, Ed. Polirom, Iași, 2007.

5. Grawitz, Madeleine, *Méthodes des sciences sociales*, Paris, Ed. Dalloz, 1993.

Hackett, E., Amsterdamska, O., Lynch, M., Wajcman, J., Bijker, W. (2007), The Handbook of Science and Technology Studies, 3rd edition, The MIT Press.

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9. Rad, Ilie, *Cum se scrie un text științific*, Iași, Ed. Polirom, 2008.

10. American Psychological Association, *The Publication Manual of the American Psychological Association*, 6th ed. Washington, DC, 2009

11. Sternberg, Robert. *The Psychologist's Companion. A Guide to Scientific Writing for Students and Researchers*, 4th ed, Cambridge, Cambridge University Press, 2003

9. Corroboration of the course content with the expectations of community representatives, professional associations and representative employers from the programme's related field

The content of this discipline has been decided upon by taking into account both the curricula of some prestigious universities: 1. The Part 1 according Bolgnia standards, The Part II and Part III according with the content of the same course from MIT şi Stanford University



10. Assessment

Type of activity	10.1 Assessment criteria	10.2 Assessment methods	10.3 Weight in final grade (%)		
	Project 1: Science paper – Trends in business informatics	Essay	35%		
10.4 Lectures 10.5 Seminars/ Labs	Project 2: About technology Project 3: Vision about society	Essay	35%		
	Project 3: Vision about society	Essay	30		
10.6 Minimum performance standard					
Minim grade is 5(five) for every part of evaluation.					

Date

Course Coordinator

Seminar Coordinator

Prof. dr. TUGUI Alexandru

20.09.2020

Prof. dr. TUGUI Alexandru

Date of approval

Head of Department Prof. dr. DUMITRIU Florin