

## EFFECTS OF EDUCATION THE MAJOR

**DEPARTMENT OF COMPUTER SCIENCE AND MANAGEMENT**

**Study major: MANAGEMENT**

**Degree of the studies: 2ND DEGREE STUDIES**

**Field of Knowledge/Education: FIELD OF SOCIAL SCIENCES**

**Field of science: DOMAIN OF ECONOMIC SCIENCES**

**Scientific discipline: MANAGEMENT SCIENCES**

**Profile: GENERAL ACADEMIC**

No.	Symbols of effects of education on the major:	<b>EFFECTS OF EDUCATION ON THE MAJOR</b> <b>2nd degree studies</b> <b>After graduation from 2nd degree studies, major:</b> <i>Management</i> the graduate can be characterised with the following knowledge and abilities:	<b>Reference to the description of the effects of education in the field of social sciences</b>
<b>KNOWLEDGE</b>			
1.	K2_ZARZ_W01	Extended knowledge of economic sciences and their place in the system of sciences and relationships with other social sciences.	S2A_W01
2.	K2_ZARZ_W02	Extended knowledge related to economic policy as an element of regulation of the economy – on national scale and international scale as well as scale of economic and integration associations. Knows premises, types, directions and effects of economic and legal evolution of markets, market structures and institutions as well as economic and integration associations.	S2A_W02 S2A_W07 S2A_W03 S2A_W08
3.	K2_ZARZ_W03	Understands the strategic context of functioning of an organisation. Explains the impact of global determinants (including legal and economic) on competitiveness of organisation as well as efficiency of its functioning. Familiar with the essence of the strategy of an organisation. Knowledge of the essence, stages and methods of strategic management.	S2A_W02 S2A_W03 S2A_W06 S2A_W07 S2A_W08 S2A_W11

4.	K2_ZARZ_W04	Deepened knowledge concerning the theory of organisation and management. Identifies different phases of organisational development. Extended knowledge of contemporary concepts of organisation.	S2A_W01 S2A_W02 S2A_W06 S2A_W08 S2A_W09
5.	K2_ZARZ_W05	Understands strategic importance of knowledge management in an organisation. Identifies determinants, processes and instruments of knowledge management in an organisation.	S2A_W10 S2A_W07 S2A_W05
6.	K2_ZARZ_W06	Understands complexity and complex nature of substantive and management problems in an organisation. Interprets interdependencies exceeding particular functions, processes and the organisation. Extended knowledge of information system of an organisation.	S2A_W02 S2A_W03
7.	K2_ZARZ_W07	Knows advanced methods of measurement and evaluation of achievements of an organization as a whole. Explains basics and meaning of restructuring processes: stabilising, development and repair in an organisation.	S2A_W02 S2A_W06 S2A_W08
8.	K2_ZARZ_W08	Extended knowledge with regard to methods and techniques used in management.	S2A_W06 S2A_W08
9.	K2_ZARZ_W09	Deepened and extended substantive knowledge regarding management in functional areas of an organisation related to the studied specialisation*).	S2A_W02 S2A_W03 S2A_W06
10.	K2_ZARZ_W10	Characterises, explains and interprets norms and standards (legal, organisational, professional, moral and ethical) relevant to functional areas of an organisation related to the studied specialisation*).	S2A_W07 S2A_W01
11.	K2_ZARZ_W11	Deepened knowledge of leadership, decision-making, motivating, group mechanisms and social impact realised in an organisation. Indicates the principles of counteracting negative individual and social phenomena in an organisation.	S2A_W01 S2A_W04 S2A_W05
12.	K2_ZARZ_W12	Extended knowledge of entrepreneurship. Indicates its determinants. Identifies factors encouraging individual and team effectiveness of enterprising behaviour.	S2A_W11 S2A_W05
13.	K2_ZARZ_W13	Knows the principles of construction of econometric and simulation models. Specialised knowledge concerning quantitative modeling and forecasting of states and processes in an organisation.	S2A_W06 T2A_W05
14.	K2_ZARZ_W14	Understands objectives, mechanisms of functioning and characteristics of integrated IT management systems.	S2A_W06 T2A_W05

15.	K2_ZARZ_W15	Achieves additional results in the KNOWLEDGE category for one of the following specialisations: 1) Enterprise Processes Management (App. 1) 2) Financial Engineering (App. 2.) 3) Information Technologies in Management (App. 3.) 4) Entrepreneurship, Innovations and Projects (App. 4.) 5) Managerial Behaviours and Decisions (App. 5.) 6) Business Information Systems (App. 6.)	
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No.	Symbols of effects of education on the major	<b>EFFECTS OF EDUCATION THE MAJOR</b> 2nd degree studies After graduation from 2nd degree studies, major: <i>Management graduate:</i>	<b>Reference to the description of the effects of education in the field of social sciences</b>
<b>SKILLS</b>			
1.	K2_ZARZ_U01	Able to specify and analyse potential effects of introduced national and international economic and legal regulations for particular organisations, markets and integration associations. Able to use extended models of market structures to solve economic and management problems.	S2A_U01 S2A_U02 S2A_U03 S2A_U08
2.	K2_ZARZ_U02	Able to analyse the causes and dynamics of events and phenomena in an organisation as a whole, in the context of their internal and external determinants. Able to identify, analyse and evaluate complex management and substantive problems in an organisation.	S2A_U01 S2A_U02 S2A_U03 S2A_U08
3.	K2_ZARZ_U03	Able to select sources of information and use them in solving complex management and substantive problems in an organisation.	S2A_U02
4.	K2_ZARZ_U04	Able to select, justify and follow methods and techniques to identify, analyse and solve complex management and substantive problems in an organisation. Able to critically evaluate the usefulness of methods and techniques.	S2A_U02 S2A_U03
5.	K2_ZARZ_U05	Able to use specialist normative systems linked to the studied specialisation. Able to select, adapt, justify and follow appropriate norms and standards (legal, professional, moral and ethical) in specific activities in an organisation*).	S2A_U05

6.	K2_ZARZ_U06	Ability to formulate solutions for complex management and substantive problems in an organisation. Able to justify, select and verify solutions according to the agreed priorities in the context of internal and external conditions.	S2A_U01 S2A_U02 S2A_U03 S2A_U05 S2A_U06 S2A_U07
7.	K2_ZARZ_U07	Ability to design complex changes in an organisation.	S2A_U04 S2A_U06 S2A_U07
8.	K2_ZARZ_U08	Ability to design advanced methods of measurement and evaluation of achievements of an organization as a whole. Able to comprehensively assess an organisation according to the adopted goals, priorities and criteria and suggest directions of possible changes.	S2A_U01 S2A_U02 S2A_U05
9.	K2_ZARZ_U09	Able to perform strategic analysis of an organisation and its environment. Able to formulate alternative strategies at the level of an organisation and domains of its operations; analyses; critically assesses and selects proper strategy option. Able to select and assess strategic control instruments.	S2A_U01 S2A_U02 S2A_U03 S2A_U06 S2A_U07
10.	K2_ZARZ_U10	Able to use operational testing methods as a tool supporting advanced decision-making analyses.	S2A_U03 S2A_U02
11.	K2_ZARZ_U11	Able to build and use econometric and simulation models in solving complex management problems.	S2A_U04 S2A_U03
12.	K2_ZARZ_U12	Ability to use of quantitative methods including advanced econometric and simulation methods to describe and forecast processes and results of activities of an organisation.	S2A_U03 S2A_U04
13.	K2_ZARZ_U13	Able to prepare elements of IT introduction strategy for an organisation; assesses, selects prepares integrated IT management systems for implementation. Able to use advanced IT systems supporting management in an organisation and in its functional areas related to the studied specialisation *).	S2A_U04 S2A_U07
14.	K2_ZARZ_U14	Advanced research skills: formulates simple hypotheses and research problems, selects adequate research methods, techniques and tools, prepares, presents and interprets research findings, draws conclusions, indicates directions of further research with regard to management sciences.	S2A_U02 S2A_U03 S2A_U08
15.	K2_ZARZ_U15	Sufficiently fluent in specialist language and able to use specialist language in all language activities to communicate in the professional environment in detailed issues from the field of management sciences - in Polish and a foreign language (1).	S2A_U11

16.	K2_ZARZ_U16	Understands Polish and foreign (1) texts related to management, able to interpret them, draw conclusions, acquire necessary information, interpretation it and critically assess it, read and understand professional literature, business and organisational documentation.	S2A_U09 S2A_U11
17.	K2_ZARZ_U17	Able to prepare a well-documented study (e.g. a short scientific report showing the author's own scientific research findings) or present descriptions of detailed issues with regard to management sciences in Polish and a foreign language (1).	S2A_U10 S2A_U11
18.	K2_ZARZ_U18	Able to formulate and exhaustively justify opinions, conduct presentations of problems regarding management sciences, topics related to work environment as well as participate in scientific and professional discussions - in Polish and a foreign language (1).	S1A_U11
19.	K2_ZARZ_U19	Speaks in a foreign language (2) good enough for a native speaker to understand and uses foreign language in matters relating to the specific needs of everyday life, both in written and spoken form.	
20.	K2_ZARZ_U20	Basic skills in a foreign language (2): understands simple spoken and read texts, able to initiate social contacts, speaks in a coherent manner on a known subject, able to write an e-mail, a postcard or a note.	
21.	K2_ZARZ_U21	Distinguishes and applies the formal and the informal variety of foreign language to a limited extent (2) uses basic socio-cultural knowledge in communication in a given a foreign language (2).	
22.	K2_ZARZ_U22	Achieves additional results in the SKILLS category for one of the following specialisations: 1) Enterprise Processes Management (App. 1) 2) Financial Engineering (App. 2.) 3) Information Technologies in Management (App. 3.) 4) Entrepreneurship, Innovations and Projects (App. 4.) 5) Managerial Behaviours and Decisions (App. 5.) 6) Business Information Systems (App. 6.)	

No.	Symbols of effects of education on the major	<b>EFFECTS OF EDUCATION THE MAJOR 2nd degree studies After graduation from 2nd degree studies, major: <i>Management</i> graduate:</b>	<b>Reference to the description of the effects of education in the field of social sciences</b>
<b>SOCIAL COMPETENCES</b>			
1.	K2_ZARZ_K01	Aware of the need of independent, critical evaluation of the scope and of the level of their professional knowledge and skills, both in terms of organisation and management sciences as well as in the interdisciplinary aspect. Prepared to search for fields of knowledge to supplement and skills to improve unassisted. Able to inspire and organise the process of learning of other people.	S2A_K01 S2A_K06

2.	K2_ZARZ_K02	Able to cooperate and work in group and team forms of work organisation (assuming different roles in them). Shows readiness to organise and manage the work of teams unassisted.	S2A_K02
3.	K2_ZARZ_K03	Able to properly define priorities in own work and in cooperation with others in connection with performing various organisational roles.	S2A_K03 S2A_K04
4.	K2_ZARZ_K04	Shows readiness to identify, critically analyse and resolve problems arising at the workplace. Able to anticipate the effects of made decisions.	S2A_K04 S2A_K05
5.	K2_ZARZ_K05	Shows readiness to unassisted to conduct flexible searches and use critical selection of methods and tools in solving problems arising at the workplace.	S2A_K04 S2A_K07
6.	K2_ZARZ_K06	Prepared to initiate changes in the organisation and participate in their planning and implementation. Able to anticipate multi-directional effects of introduced changes. Able to think and act in an enterprising manner.	S2A_K07 S2A_K05
7.	K2_ZARZ_K07	Prepared to assume responsibility for entrusted tasks within designated organisational roles. Characterised by responsibility for own preparation for work, made decisions and taken actions as well as their results.	S2A_K07 S2A_K05
8.	K2_ZARZ_K08	Presents courage in conveying and defending their views. Prepared to persuade and negotiate in order to achieve common goals.	S2A_K03 S2A_K04
9.	K2_ZARZ_K09	Prepared to behave in a professional and ethical manner; notices and formulates ethical dilemmas related to their own and someone else's work; looks for proper solutions and opportunities of correction of irregularities of their attitude and behaviour at the workplace.	S2A_K04

\*) Specialties:

- 1) Enterprise Processes Management
- 2) Financial Engineering
- 3) Information Technologies in Management
- 4) Entrepreneurship, Innovations and Projects
- 5) Managerial Behaviours and Decisions
- 6) Business Information Systems

# EFFECTS OF EDUCATION FOR THE SPECIALISATION

## Business Information Systems (BIS)

**DEPARTMENT OF COMPUTER SCIENCE AND MANAGEMENT**

**Study major: MANAGEMENT**

**Degree of the studies: 2ND DEGREE STUDIES**

**Specialization: BUSINESS INFORMATION SYSTEMS**

No.	Effects of education at 2nd degree of the studies for the BIS specialisation	<b>EFFECTS OF EDUCATION FOR THE SPECIALISATION</b> <b>2nd degree studies</b> <b>After graduation from 2nd degree studies, major: <i>Management</i></b> <b>, specialty: <i>Business Information Systems</i></b> <b>the graduate can be characterised with the following knowledge and abilities:</b>	Reference to the description of the effects of education in the field of social sciences
<b>KNOWLEDGE</b>			
1.	S2_BIS_W01	Knows methods of data analysis and ways of representation of knowledge. Knows specialist applications of advanced methods and tools used for collection, analysis and presentation of data.	S2A_W02 S2A_W03 S2A_W06 S2A_W08 X2A_W03
2.	S2_BIS_W02	Knows and understands theoretical basics and advanced formal methods as well as tools supporting decision-making processes, including discrete optimisation, theory of decisions and games in solving practical decision-making problems.	S2A_W02 S2A_W03 S2A_W06 S2A_W08 X2A_W03
3.	S2_BIS_W03	Knows mechanisms of functioning and characteristics (properties) of IT management systems, including intelligent data processing systems, integrated IT management systems, internet applications, e-economy systems.	S2A_W06 T2A_W05 X2A_W04
4.	S2_BIS_W04	Knows objectives, notations, methods and tools of modeling and analysis of business processes. Knows objectives, notations, methods and tools of structural and object-oriented modeling and analysis of an organisation and its information systems.	S2A_W02 S2A_W03 S2A_W06 S2A_W08

5.	S2_BIS_W05	Knows issues of identification and analysis of management problems and business information systems as well as formulation of requirements for systems. Familiar with the essence of management of IT projects.	S2A_W02 S2A_W03 S2A_W06 S2A_W08
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No.	Effects of education at 2nd degree of the studies for of the BIS specialisation	<b>EFFECTS OF EDUCATION FOR THE SPECIALISATION</b> <b>2nd degree studies</b> <b>After graduation from 2nd degree studies, major: <i>Management</i></b> <b>, specialty: <i>Business Information Systems</i></b> <b>the graduate can be characterised with the following knowledge and abilities:</b>	<b>Reference to the description of the effects of education in the field of social sciences</b>
<b>SKILLS</b>			
1.	S2_BIS_U01	Able to select and use formal methods, intelligent techniques and advanced tools in analysis and exploration of business data.	S2A_U02 S2A_U03
2.	S2_BIS_U02	Able to select and use advanced formal methods as well as tools supporting decision-making processes.	S2A_U02 S2A_U03 S2A_U04
3.	S2_BIS_U03	Able to use structural and object-oriented methods and techniques of business identification and analysis in specification of requirements and designing management information systems.	S2A_U02 S2A_U03 S2A_U04
4.	S2_BIS_U04	Able to prepare IT introduction strategy for an organisation, including directions of development of IT systems of the organisation in the context of electronic economy.	S2A_U04 S2A_U06 S2A_U07
5.	S2_BIS_U05	Able to assess and, choose and participate in implementation of IT subsystems in an organisation, including components of integrated IT management systems and internet applications.	S2A_U04 S2A_U06 S2A_U07