

INFORMATION MANAGEMENT

–Master: AAA (Year I SEMESTER I)

Credit value (ECTS): 6

Course category

Discipline field (mandatory)

Discipline holder

Prof. PHd George UNGUREANU

Discipline objectives (course and applications)

The purpose of this course is to impart to students the ability to identify and evaluate information, to use it appropriately, they will also be able to acquire skills in the technique of searching and processing information. They will learn how to provide information, documents, use of sources, traditional and modern documentary information, making simpler information tools. Professional practice will give the opportunity to apply the theoretical knowledge acquired.

The knowledge society represents more than the information society and the information society, in fact encompassing them. Knowledge is meaningful information and data that acts. That is why the knowledge society is only possible in the information society and cannot be separated from it. The notion of the Information Society describes an economy and a society in which the collection, storage, processing, transmission, dissemination and use of information and knowledge, including the development of interactive communication techniques, play a decisive role.

The general objectives of this course are the use of economic-mathematical methods in order to make information processing profitable, increase the competitiveness and added value of products on the market and minimize production costs. The use of analysis methods is in order to evaluate the performance of the organization and to increase the efficiency and effectiveness of activities in agri-food enterprises. Familiarization with the concept of economic modeling; increasing the skills of evaluating the managerial strategy in relation to the internal and external environment; increase the ability to select alternative strategies based on the most appropriate information.

The current economic environment is constantly changing, and the unpredictable situations are the most numerous. Therefore, in the conditions of the market economy, there is a need more than ever to have rules that would allow a better reasoning of the decision. A correct economic decision can be made only when it is formed on the basis of a scientifically argued mathematical model based on truthful information.

Information processing has a wide range of common models and methods for rigorous management, which allows the economist to know how to make correct and rigorous reasoning because only in this way we will ensure that he is able to understand new models, to apply them effectively in solving concrete problems raised by economic practice. This allows them to delve deeply into the essence of the phenomena, to synthesize and make abstractions and possibly to make corrections to the models or to build new models.

Through its content, the course transmits to the students of this specialization, future managers within the organizational structures, the main fund of knowledge in Information Management which is an accessible tool in solving various economic processes, by adopting the most appropriate management decisions.

The content of the course is in line with the similarities of the profile specializations in the EU countries.

Course content (analytical program)

Course (Chapters / Subchapters)
Concepts of information society - knowledge society. Information system, computer system, knowledge based system. Data, information and knowledge.
Managing information in the age of globalization,
Information management systems, Information system Characteristics of organizational information systems
Value of information (negative value, profit, social profit). Research and processing of user information requirements
Information management and variants used (information counselor, information broker, information scientist, knowledge-engineers, database administrators, etc.)
Documentation activity (content, extension, structure). Sources of bibliographic documentation. How to submit search results, journals, online services, Internet, search engines. Efficient use of results
Agro-industrial information systems,
Organizational foundations of information / information systems
Modeling multi-criteria decision-making processes,
Economic-mathematical and information simulation models for the use and allocation of resources (material, human, financial and time) within an agricultural farm

Practical work
Chapter 1. Databases. Database concept
Chapter 2. The technique of simulating applications in agriculture
Definitions and concepts useful in describing information simulation
Advantages and disadvantages of using information simulation
Types of simulation
Chapter 3. Methods and techniques of information planning
Monte Carlo simulation for calculating product labor productivity
Random / pseudorandom numbers
Working steps
Applications of the simulation technique
Chapter 4. Resource Description Framework (RDF) Model
Methods for rationalizing decisions in indeterminate conditions (uncertainty and risk)
Decision tree method
Stochastic decision tree method
Chapter 5. RDF data management. Querying RDF data with SPARQL;
New information-documentation products and services in the information society.
Chapter 6 Information processing languages used

BIBLIOGRAPHY

1. BLEICHER, K. - 1996 - *Das Konzept Integriertes Management*, Campus: Frankfurt/Main, Germany.
2. ECCLES, R. G., MILLER PERKINS, K., & SERAFEIM, G. – 2012 -. *How to become a sustainable company*. MIT Sloan Management Review, 53(4).
3. FREEMAN, R. E. – 1984 - *Strategic management. A stakeholder approach*, Boston, MA: Pitman.
4. Information Resources Management Association – 2018 - *Sustainable Development: Concepts, Methodologies, Tools and Applications*, IGI Global, Hershey PA, USA.
5. UNGUREANU George. Management. Moldova Type Publishing House. 2018.
6. UNGUREANU George. Production processing and preservation management. Alpha Publishing. 2008. ISBN (10) 973 8953 53 7

Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Exam	Written evaluation	60%
Appreciation of the activity during the semester	Oral assessment during the semester, midterm verification, project evaluation.	40%

Contact person

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