

Program	gram 59EC – Communications Electronic Engineering B. Eng.	
	59SC – Telecommunications Systems Engineering B. Eng.	
	59SO – Sound and Image Engineering B.Eng.	
	59TL – Telematics Engineering B. Eng.	

Course number and name		
Number	595000024, 595000323, 595000123, 595000223	
Name	Economics and Business Management	
Semester	S5 [(September-January)]	

Credits and contact hours			
ECTS Credits	4,5		
<b>Contact hours</b>	45		

Coordinator's name	Pérez Aguiar, Waldo Saúl [waldo.perez@upm.es]
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#### Specific course information

#### **Description of course content**

ICTs are not isolated phenomena, they are connected with the social reality that stimulates their development and which they transform. ICTs have facilitated the unprecedented progress of the modern enterprise.

The development of ICTs has been planned by the public authorities and, sometimes, by the free interaction between companies and users as an engine for the definition and extension of services, the selection of alternative technologies, pricing, etc.

The evolution in Telecommunications has been leaded by the private initiative with a strong public protection (more than in other sectors). The engineers cannot ignore this reality, on the contrary, they must understand the logic that rules the economic and social processes in which their activity is immersed.

This course will provide the conceptual tools for this learning and understanding.

#### List of topics to be covered

1. Enterprise theory and markets

- 2. Behavior, specialization and exchange
- 3. Democratic governance and contractual process
- 4. Company and entrepreneur
- 5. Legal status and company governance
- 6. Financial information I
- 7. Financial information II
- 8. The strategic process: objectives and analysis
- 9. Strategies and business model

## **Prerequisites or co-requisites**

None



## Specific goals for the course

### Specific outcomes of instruction

- RA1141 To apply the ability of self-learning in new knowledges and appropriate techniques for the development or utilization of telecommunications services and systems.
- RA1142 To increase the ability of using communications and computing applications.
- RA1143 To identify the role to create, deploy, organize and manage telecommunications infrastructures, services, systems and networks in a business and institutional context.
- RA1144 To identify the economic and social impact of telecommunications infrastructures, services, systems and networks.
- RA1139 Ability to express oneself in oral and written form, and to convey information through documents and public presentations.
- RA1140 Ability for teamwork in multidisciplinary environments.
- RA1138 To produce documents and reports that communicate information.
- RA759 Extending the model of behavior of economic agents as utility maximizers for situations where operating with perfect information.
- RA760 To identify the model of behavior of the final consumer.
- RA761 To describe the model of company behavior characterized by a transformation function, both from the point of view of production and costs.
- RA762 To recognize the pattern of market behavior in perfect competition and monopoly, with interest in their differences
- RA763 Extending the model of behavior of economic agents as utility maximizers for situations where operating with imperfect information.
- RA766 To interpret the market, political and organizational solutions as various complementary solutions to the economic problem.
- RA768 To conceptualize the organization as complex form of hiring
- RA773 To become familiar with the different meanings of businessman.
- RA774 To know the main characteristics of the individual entrepreneur and unincorporated partnerships.
- RA776 To distinguish the main features of the other corporations.
- RA778 Approaching the issue of company governance.
- RA784 To recognize annual report and other financial documents that are part of the accounts of the year.
- RA785 Analysis of the profitability of a company from the information provided in the annual accounts.
- RA786 Recognizing the level of debt and working capital from financial information.
- RA789 To recognize the main tools for external strategic analysis.
- RA1147 To value the different ways of organization, planning and decision making.
- RA1145 To identify the conflict sources.
- RA1146 To get familiar with the negotiation and leadership difficulties.



# Further reading and supplementary materials

 "Economía y Empresa para Ingenieros". Martinez Núñez, M.; Pérez Aguiar, W. S. ETSIST Printing, 2014.