Specific Student Outcomes: BE Telematics Engineering Outcomes

	Specific Student Outcomes
CODE	**BE TE Outcomes**
CE TM01	Ability to build, utilize and manage telecommunication services and applications for the acquisition, transport, representation, processing, storage, management and presentation of multimedia information, from the point of view of telematic services.
CE TM02	Ability to apply techniques on which telematic networks, services and applications are based, such as management, signaling and switching, routing, security (cryptographic protocols, tunneling, firewalls, digital payment, authentication, and content protection), traffic engineering (graph theory, queuing theory, tele traffic), billing, reliability and quality of service, whether in fixed or mobile environments, local or long distance, with different bandwidths, including telephony and data.
CE TM03	Ability to build, utilize, and manage telematic services, including internet, web, architectural design (data and protocols), programming, distributed knowledge management, multimedia information management, using analytic tools for planning, dimensioning, and analysis.
CE TM04	Ability to describe, program, validate and optimize communication protocols and interfaces at the different levels of a network architecture.
CE TM05	Ability to advance with the technological progress in the areas of transmission, switching and processing in order to improve networks and telematic services.
CE TM06	Ability to design client-server and P2P architectures, and to adapt operating systems and virtual machines.
CE TM07	Ability to program networked, distributed, or interactive services and applications, taking into account usability and accessibility criteria.
CE TM08	Ability to carry out professional projects in the specific field of telecommunication technologies in which competences attained in the program have to be synthesized and integrated.

	Specific Student Outcomes
CODE	**Final Degree Project Outcomes**
CE-PFG	Ability to present and defend, in front of a University Committee, an individually developed work consisting of a professional project in the specific field of Telematics /Telecommunication Engineering technologies, which integrates and synthesizes the outcomes attained during the graduate formation period.