

Program	09TT- Engineering in Telecommunication Technologies and Services
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Course number and name	
Number	95000092
Name	Telecommunication Engineering in Cooperation for Development Ingeniería de Telecomunicación en Cooperación para el Desarrollo
Semester	Y3-S6

Credits and contact hours	
ECTS Credits	4.5
Contact hours	45

Coordinator's name	Manuel M ^a Lambea Olgado
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Specific course information		
Description of course content		
The objective is to give the student a global vision on development cooperation foundations and the role of telecommunication and solar energy systems in developing countries scenarios.		
List of topics to be covered		
1.-The world we live in: Development concepts: economic, social and environment aspects.		
2.-Development cooperation strategies.		
3.-Development cooperation projects. Project cycle and design methodology.		
4.-Applications of information and communication technologies to development		
5.-Rural electrification applications.		
6.-Meeting with professionals in the "Cooperation and Engineering" sector.		
Prerequisites or co-requisites		
None		
Course category in the program		
<input type="checkbox"/> R (required)	<input checked="" type="checkbox"/> E (elective)	<input type="checkbox"/> SE (selective elective)

Specific goals for the course
Specific outcomes of instruction
RA1: Knowledge and skills in the scientific and technical topics developed in the subject contents.
RA2: Adquisition of a wide and objective vision of actual environment and social inequalities; the causes, range and perspectives of evolution.
RA2: Knowledge of the structure and instruments of development international

cooperation and to encourage the student potential contribution, as engineers, to the fight against poverty and social exclusion.

RA3: Knowledge and application of planning and design methodologies on development projects with technological components.

RA4: Practical application of their knowledge in information and communication technologies and rural electrification.

Student outcomes addressed by the course

CG2, CG3,CG7,CG13

Bibliography and supplemental materials

A. Pérez Foguet et al , “Introducción a la cooperación al desarrollo para las ingenierías: una propuesta para el estudio”, Associació Catalana d'Enginyeria Sense Fronteras, Barcelona, 2005.

P. Collier, “El Club de la Miseria”, Ed. Turner, 2008

J. Sachs, “El fin de la pobreza”, Ed. Debate, 2005

J. Sachs, “El precio de la civilización,” Ed. Galaxia Gutenberg, 2012

D. Acemoglu y J.A. Robinson, “Por qué fracasan los países”, Ed. Deusto, 2012

E. Duflo y A. Banerjee, “Repensar la pobreza”, Ed. Taurus 2012

“El enfoque del marco lógico. Manual para la planificación de proyectos orientada mediante objetivos IUDC-CEDEAL”, Madrid, 1993.

“Evaluación de Proyectos de Ayuda al Desarrollo. Manual para evaluadores y gestores, IUDC-CEDEAL”, Madrid, 1997.

VV.AA., “Tecnologías para el desarrollo humano de las comunidades rurales aisladas”, Ed. Real Academia de Ingeniería, 2012

Moodle of Telecommunication engineering in cooperation for development

Teaching methodology

<input checked="" type="checkbox"/> lectures	<input checked="" type="checkbox"/> problem solving sessions	<input checked="" type="checkbox"/> collaborative actions	<input type="checkbox"/> laboratory sessions
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Other: Individual and group presentations