



POLITÉCNICA

TECHNICAL UNIVERSITY OF MADRID (UPM)
SCHOOL OF ARCHITECTURE (ETSAM)
DEGREE IN FOUNDATIONS OF THE ARCHITECTURE
Academic year 2017-2018



| CODE | COURSE TAUGHT IN ENGLISH | ECTS | YEAR | SEMESTER | INFORMATION AND CONTENTS |
|----------|--|------|---|-----------------|---|
| 35001103 | Related and projective geometry | 6 | 1 st | 1 st | http://www.etsamadrid.aq.upm.es/sites/default/files/APR_SE_VISIT%203_ETSAM_UPM%20v4.pdf#page=159 |
| 35001204 | Calculus | 6 | 1 st | 2 nd | http://www.etsamadrid.aq.upm.es/sites/default/files/APR_SE_VISIT%203_ETSAM_UPM%20v4.pdf#page=166 |
| 35001305 | Curves and surfaces | 3 | 2 nd | 1 st | http://www.etsamadrid.aq.upm.es/sites/default/files/APR_SE_VISIT%203_ETSAM_UPM%20v4.pdf#page=173 |
| 35001702 | Construction and building technology 3 | 6 | 4 th | 1 st | http://www.etsamadrid.aq.upm.es/sites/default/files/APR_SE_VISIT%203_ETSAM_UPM%20v4.pdf#page=193 |
| 35001601 | Architectural projects 5 | 12 | Available for students from all courses | | http://www.etsamadrid.aq.upm.es/sites/default/files/APR_SE_VISIT%203_ETSAM_UPM%20v4.pdf#page=186 |
| 35001701 | Architectural projects 6 | 12 | | | http://www.etsamadrid.aq.upm.es/sites/default/files/APR_SE_VISIT%203_ETSAM_UPM%20v4.pdf#page=192 |
| 35001605 | English for architects /English oral and written communication/ | 6 | | | http://www.etsamadrid.aq.upm.es/sites/default/files/APR_SE_VISIT%203_ETSAM_UPM%20v4.pdf#page=190 |



POLITÉCNICA

TECHNICAL UNIVERSITY OF MADRID (UPM)
SCHOOL OF BUILDING (ETSEM)
BACHELOR DEGREE IN BUILDING ENGINEERING
Academic year 2017-2018



| CODE | COURSE TAUGHT IN ENGLISH | ECTS | YEAR | SEMESTER | INFORMATION AND CONTENTS /in Spanish/ |
|-----------|---|------|-----------------|-----------------|---|
| 545000001 | Mathematics I | 6 | 1 st | 1 st | http://www.edificacion.upm.es/images/545000001_Mathematics_I.pdf |
| 545000006 | Mathematics II | 6 | 1 st | 2 nd | http://www.edificacion.upm.es/images/545000006V1_MAtthermatics_II_ENG_R.pdf |
| 545000016 | Concrete structure construction | 6 | 2 nd | 1 st | http://www.edificacion.upm.es/images/545000016V1Concrete_Structure_Construction.pdf |
| 545000017 | Architectural detail drawing I | 3 | 2 nd | 1 st | http://www.edificacion.upm.es/images/545000017V1Architectural_Detail_Drawing_I.pdf |
| 545000026 | Roof and envelope construction | 6 | 3 rd | 1 st | http://www.edificacion.upm.es/images/545000026V1_Roof_and_Envelope_Construction.pdf |
| 545000048 | Interior design | 6 | 4 th | 2 nd | http://www.edificacion.upm.es/images/545000048V1_Interior_Design.pdf |
| 545000018 | Bussines administration | 6 | 2 nd | 2 nd | http://www.edificacion.upm.es/images/545000018V1Bussines_Administration.pdf |
| 900001018 | History of the urban law and planning of Madrid | 5 | ALL | 2 nd | Subject taught online. Students must attend to 3 tours in Madrid, which take place in February, and do a project work afterwards. |



POLITÉCNICA

TECHNICAL UNIVERSITY OF MADRID (UPM)
SCHOOL OF AERONAUTICS AND SPACE ENGINEERING (ETSIAE)
MASTER IN AERONAUTICAL ENGINEERING (MUIA)
Academic year 2017-2018



| CODE | COURSE TAUGHT IN ENGLISH | INTENSIFICATION PATH | ECTS | YEAR | SEMESTER | INFORMATION AND CONTENTS /in Spanish/ |
|-----------|---|----------------------|----------|-----------------|-----------------|---|
| 143003011 | Applied and Unsteady Aerodynamics (AAynE) | Aircrafts | 6 | 2 nd | 1 st | https://www.etsiae.upm.es/titulaciones/muia/plan_de_estudios/segundo/Asignaturas_17_18/AE/14IB-GA-143003011-3S-2017-18-AAynE.pdf |
| 143003012 | GNC and Optimization of Missile Trajectories (GNC) | Aircrafts | 4,5 | 2 nd | 1 st | https://www.etsiae.upm.es/titulaciones/muia/plan_de_estudios/segundo/Asignaturas_17_18/AE/14IB-GA-143003012-3S-2017-18-GNCOTM.pdf |
| 143003021 | Hypersonic Aerodynamics (AH) | Space Vehicles | 4,5 | 2 nd | 1 st | https://www.etsiae.upm.es/titulaciones/muia/plan_de_estudios/segundo/Asignaturas_17_18/VE/14IB-GA-143003021-3S-2017-18-AH.pdf |
| 143003022 | Astrodynamic and Attitude Dynamics (AyDA) | Space Vehicles | 6 | 2 nd | 1 st | https://www.etsiae.upm.es/titulaciones/muia/plan_de_estudios/segundo/Asignaturas_17_18/VE/14IB-GA-143003022-3S-2017-18-AyDA.pdf |
| 143003023 | Spacecraft Thermal Control (CTE) | Space Vehicles | 4,5 | 2 nd | 1 st | https://www.etsiae.upm.es/titulaciones/muia/plan_de_estudios/segundo/Asignaturas_17_18/VE/14IB-GA-143003023-3S-2017-18-CTE.pdf |
| 143003033 | Physical Basis of Rocket Engines by Plasma Acceleration (FFMCA) | Aerospace Propulsion | 3 | 2 nd | 1 st | https://www.etsiae.upm.es/titulaciones/muia/plan_de_estudios/segundo/Asignaturas_17_18/PA/14IB-GA-143003033-3S-2017-18-FFMCA.pdf |
| 143003037 | Experimental Techniques in Fluid Mechanics (TEMF) | Aerospace Propulsion | 3 | 2 nd | 1 st | https://www.etsiae.upm.es/titulaciones/muia/plan_de_estudios/segundo/Asignaturas_17_18/PA/14IB-GA-143003037-3S-2017-18-TechExpMF-1S.pdf |
| 143003045 | Air Transport Environmental Impact (IATA) | Aerospace Systems | 3 | 2 nd | 1 st | https://www.etsiae.upm.es/titulaciones/muia/plan_de_estudios/segundo/Asignaturas_17_18/SATA/14IB-GA-143003045-3S-2017-18-IATA.pdf |
| 143003048 | Optional Courses or Internship (OPRr) | Common | 12 | 2 nd | 2 nd | https://www.etsiae.upm.es/titulaciones/muia/programacion_curso_muia_17_18.html |
| 143004010 | Master Thesis (TFM) | Common | 18 to 30 | 2 nd | 2 nd | https://www.etsiae.upm.es/titulaciones/muia/tfg/trabajo_fin_master_MUIA_17_18.html |



TECHNICAL UNIVERSITY OF MADRID (UPM)
SCHOOL OF FOREST ENGINEERING AND NATURAL RESOURCES (ETSIM)
Academic year 2018-2019



| CODE | COURSE TAUGHT IN ENGLISH | ECTS | YEAR | SEMESTER | INFORMATION AND CONTENTS |
|---|--|------|-----------------|-----------------|---|
| BACHELOR DEGREE IN FORESTRY ENGINEERING | | | | | |
| 135001303 | Structure and function of woody plants | 6 | 2 nd | 1 st | http://www.montesymedianatural.upm.es/sfs/montesymedianatural/English/Academic_offer_in_English/Estaticos/STRUCTURE_AND_FUNCTION_OF_WOODY_PLANTS.pdf |
| 135001302 | Statistics | 6 | 2 nd | 1 st | http://www.montesymedianatural.upm.es/sfs/montesymedianatural/English/Academic_offer_in_English/Estaticos/STATISTICS.pdf |
| 135001509 | Unit operations in the forest industries | 5 | 3 rd | 1 st | http://www.montesymedianatural.upm.es/sfs/montesymedianatural/English/Academic_offer_in_English/Estaticos/UNIT_OPERATIONS_IN_THE_FOREST_INDUSTRIES.pdf |
| 135001760 | Use of medicinal and aromatic plants | 3 | 4 th | 1 st | http://www.montesymedianatural.upm.es/sfs/montesymedianatural/English/Academic_offer_in_English/Estaticos/USES_OF_MEDICINAL_AND_AROMATIC_PLANTS.pdf |
| BACHELOR DEGREE IN NATURAL ENVIRONMENTAL ENGINEERING | | | | | |
| 135002105 | Zoology | 6 | 1 st | 1 st | http://www.montesymedianatural.upm.es/sfs/montesymedianatural/English/Academic_offer_in_English/Estaticos/ZOOLOGY.pdf |
| 135002308 | Limnology | 3 | 2 nd | 1 st | http://www.montesymedianatural.upm.es/sfs/montesymedianatural/English/Academic_offer_in_English/Estaticos/LIMNOLOGY.pdf |
| 135002704 | Use of medicinal and aromatic plants | 3 | 4 th | 1 st | http://www.montesymedianatural.upm.es/sfs/montesymedianatural/English/Academic_offer_in_English/Estaticos/USES_OF_MEDICINAL_AND_AROMATIC_PLANTS.pdf |
| 135002757 | Active compounds in non-wood forest products | 3 | 4 th | 1 st | http://www.montesymedianatural.upm.es/sfs/montesymedianatural/English/Academic_offer_in_English/Estaticos/ACTIVE_COMPOUNDS_IN_NON_WOOD_FOREST_PRODUCTS.pdf |
| MASTER DEGREE IN FORESTRY ENGINEERING | | | | | |
| 133000100 | Animal applied ecology | 6 | 2 nd | 1 st | http://www.montesymedianatural.upm.es/sfs/montesymedianatural/English/Academic_offer_in_English/Estaticos/ANIMAL_APPLIED_ECOLOGY.pdf |
| 133000147 | Advanced silviculture | 3 | 2 nd | 2 nd | http://www.montesymedianatural.upm.es/sfs/montesymedianatural/English/Academic_offer_in_English/Estaticos/ADVANCED_SILVICULTURE_MIM.pdf |
| 133000026 | Knowledge management. Tools in decision making | 3 | 1 st | 1 st | http://www.montesymedianatural.upm.es/sfs/montesymedianatural/English/Academic_offer_in_English/Estaticos/KNOWLEDGE_MANAGEMENT.pdf |
| 133000023 | Control of pollution in the natural environment | 3 | 1 st | 2 nd | http://www.montesymedianatural.upm.es/sfs/montesymedianatural/English/Academic_offer_in_English/Estaticos/CONTROL_OF_POLLUTION.pdf |
| 133000148 | Monitoring and control of pollution in soils, water and vegetation | 3 | 2 nd | 2 nd | http://www.montesymedianatural.upm.es/sfs/montesymedianatural/English/Academic_offer_in_English/Estaticos/MONITORING_AND_CONTROL_OF_POLLUTION.pdf |
| 133000088 | LIDAR data applied to forest inventory and management | 3 | 2 nd | 1 st | http://www.montesymedianatural.upm.es/sfs/montesymedianatural/English/Academic_offer_in_English/Estaticos/LIDAR.pdf |



POLITÉCNICA

TECHNICAL UNIVERSITY OF MADRID (UPM)
CAMINOS, CANALES Y PUERTOS SCHOOL OF CIVIL ENGINEERING (ETSICCP)
Academic year 2017-2018



| CODE | COURSE TAUGHT IN ENGLISH | ECTS | YEAR | SEMESTER | INFORMATION AND CONTENTS |
|---|---|------|-----------------|-----------------|--|
| BACHELOR DEGREE IN CIVIL AND TERRITORIAL ENGINEERING | | | | | |
| 45001203 | English | 6 | 2 nd | 1 st | http://www.caminos.upm.es/internacional/documents/Guide-ICT-EN.pdf#page=13 http://www2.caminos.upm.es/Departamentos/Ling%FC%EDstica/Syllabus14_15_Inglis.pdf |
| BACHELOR DEGREE IN MATERIALS ENGINEERING | | | | | |
| 45000120 | Mechanical behaviour of materials III | 6 | 3 rd | 1 st | http://www.materiales.upm.es/GIM/fichas/45000120-2016.pdf |
| 45000121 | Properties of materials II | 6 | 3 rd | 1 st | http://www.materiales.upm.es/GIM/fichas/45000121-2016.pdf |
| 45000122 | Composite materials | 6 | 3 rd | 1 st | http://www.materiales.upm.es/GIM/fichas/45000122-2016.pdf |
| 45000123 | Simulation in materials engineering | 6 | 3 rd | 1 st | http://www.materiales.upm.es/GIM/fichas/45000123.pdf |
| 45000129 | Soft matter | 6 | 3 rd | 1 st | http://www.materiales.upm.es/GIM/fichas/45000129-2016.pdf |
| 45000125 | Mechanical behaviour of materials IV | 6 | 3 rd | 2 nd | http://www.materiales.upm.es/GIM/fichas/45000125-2016.pdf |
| 45000126 | Nanotechnology | 6 | 3 rd | 2 nd | http://www.materiales.upm.es/GIM/docs/CoursesOfferedBachelor_English.pdf#page=14 http://www.materiales.upm.es/GIM/fichas/45000126.pdf |
| 45000127 | Surface engineering | 6 | 3 rd | 2 nd | http://www.materiales.upm.es/GIM/docs/CoursesOfferedBachelor_English.pdf#page=15 http://www.materiales.upm.es/GIM/fichas/45000127.pdf |
| 45000128 | Materials recycling | 6 | 3 rd | 2 nd | http://www.materiales.upm.es/GIM/fichas/45000128-2016.pdf |
| 45000124 | Quality and quality management | 6 | 3 rd | 2 nd | http://www.materiales.upm.es/GIM/fichas/45000124-2016.pdf |
| MASTER DEGREE IN CIVIL ENGINEERING | | | | | |
| 43000384 | Experimental structural analysis | 4,5 | 2 nd | 1 st | http://www.caminos.upm.es/mastericcp/Documentos/04AG_17-18_Tomoll.pdf#page=35 |
| 43000390 | Advanced analysis and design of concrete structures | 4,5 | 2 nd | 2 nd | http://www.caminos.upm.es/mastericcp/Documentos/04AG_17-18_Tomoll.pdf#page=147 |
| 43000397 | Structural composite materials | 4,5 | 2 nd | 2 nd | http://www.caminos.upm.es/mastericcp/Documentos/04AG_17-18_Tomoll.pdf#page=224 |
| 43000388 | Design, analysis and construction of bridges | 4,5 | 2 nd | 2 nd | http://www.caminos.upm.es/mastericcp/Documentos/04AG_17-18_Tomoll.pdf#page=174 |
| 43000404 | Hydroelectric systems analysis | 4,5 | 2 nd | 2 nd | http://www.caminos.upm.es/mastericcp/Documentos/04AG_17-18_Tomoll.pdf#page=251 |
| 43000406 | Marine energies | 4,5 | 2 nd | 2 nd | http://www.caminos.upm.es/mastericcp/Documentos/04AG_17-18_Tomoll.pdf#page=266 |
| 43000411 | Transports demands models | 4,5 | 2 nd | 2 nd | http://www.caminos.upm.es/mastericcp/Documentos/04AG_17-18_Tomoll.pdf#page=326 |
| 43000414 | Smart ports | 4,5 | 2 nd | 2 nd | http://www.caminos.upm.es/mastericcp/Documentos/04AG_17-18_Tomoll.pdf#page=316 |
| 43000420 | Development and civil engineering | 4,5 | 2 nd | 2 nd | http://www.caminos.upm.es/mastericcp/Documentos/04AG_17-18_Tomoll.pdf#page=343 |
| 43000423 | Global economy and international environment in Business Administration | 4,5 | 2 nd | 2 nd | http://www.caminos.upm.es/mastericcp/Documentos/04AG_17-18_Tomoll.pdf#page=383 |
| 43000422 | Finance infrastructure and public services | 4,5 | 2 nd | 2 nd | http://www.caminos.upm.es/mastericcp/Documentos/04AG_17-18_Tomoll.pdf#page=361 |
| MASTER DEGREE IN MATERIALS ENGINEERING /2nd semester subjects may be eventually offered in Spanish, depending on the demand/ | | | | | |
| 43000317 | Optical, electrical and magnetic characterization of materials | 4 | 1 st | 1 st | http://www.materiales.upm.es/master/fichas/2017/43000317-2017.pdf |
| 43000314 | Structural characterization of materials I: Microscopy and Diffraction | 5 | 1 st | 1 st | http://www.materiales.upm.es/master/fichas/2017/43000314-2017.pdf |
| 43000315 | Structural characterization of materials II: Spectroscopy | 5 | 1 st | 1 st | http://www.materiales.upm.es/master/fichas/2017/43000315-2017.pdf |
| 43000321 | Materials economics and management | 3 | 1 st | 1 st | http://www.materiales.upm.es/master/fichas/2017/43000321-2017.pdf |
| 43000320 | Modeling and simulation In material science & engineering | 3 | 1 st | 1 st | http://www.materiales.upm.es/master/fichas/2017/43000320-2017.pdf |
| 43000318 | Advanced numerical methods | 3 | 1 st | 1 st | http://www.materiales.upm.es/master/fichas/2017/43000318-2017.pdf |
| 43000319 | Materials selection | 3 | 1 st | 1 st | http://www.materiales.upm.es/master/fichas/2017/43000319-2017.pdf |
| 43000316 | Mechanical characterization and analysis | 4 | 1 st | 1 st | http://www.materiales.upm.es/master/fichas/2017/43000316-2017.pdf |

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|---|--|-----|-----------------|-----------------|----------|---|
| 43000322 | Forensic engineering: In service failure analysis | 3 | 1 st | 2 nd | | http://www.materiales.upm.es/master/fichas/2017/43000322-2017.pdf |
| 43000324 | Structural integrity | 3 | 1 st | 2 nd | | http://www.materiales.upm.es/master/fichas/2017/43000324-2017.pdf |
| 43000325 | Design and fabrication of advanced composite materials | 3 | 1 st | 2 nd | | http://www.materiales.upm.es/master/fichas/2017/43000325-2017.pdf |
| 43000327 | Advanced forming processes | 3 | 1 st | 2 nd | | http://www.materiales.upm.es/master/fichas/2017/43000327-2017.pdf |
| 43000328 | Impact behaviour of materials | 3 | 1 st | 2 nd | | http://www.materiales.upm.es/master/fichas/2017/43000328-2017.pdf |
| 43000331 | Materials for sport | 3 | 1 st | 2 nd | | http://www.materiales.upm.es/master/fichas/2017/43000331-2017.pdf |
| 43000332 | Materials for transportation | 3 | 1 st | 2 nd | | http://www.materiales.upm.es/master/fichas/2017/43000332-2017.pdf |
| 43000330 | Materials under extreme in-service conditions | 3 | 1 st | 2 nd | | http://www.materiales.upm.es/master/fichas/2017/43000330-2017.pdf |
| 43000333 | Materials for aerospace industry | 3 | 1 st | 2 nd | | http://www.materiales.upm.es/master/fichas/2017/43000333-2017.pdf |
| 43000356 | Materials for renewable energies | 6 | 1 st | 2 nd | | http://www.materiales.upm.es/master/fichas/2017/43000356-2017.pdf |
| 43000334 | Functional materials at macro and micro/nanometer scales | 5 | 1 st | 2 nd | | http://www.materiales.upm.es/master/fichas/2017/43000334-2017.pdf |
| 43000335 | New emerging materials and technologies | 3 | 1 st | 2 nd | | http://www.materiales.upm.es/master/fichas/2017/43000335-2017.pdf |
| 43000337 | Materials for electronic and optoelectronic devices | 4 | 1 st | 2 nd | | http://www.materiales.upm.es/master/fichas/2017/43000337-2017.pdf |
| 43000339 | Polymeric materials for advanced applications | 3 | 1 st | 2 nd | | http://www.materiales.upm.es/master/fichas/2017/43000339-2017.pdf |
| 43000340 | Materials and applications in nanotechnology | 6 | 1 st | 2 nd | | http://www.materiales.upm.es/master/fichas/2017/43000340-2017.pdf |
| 43000341 | Materials and microfabrication technologies for electronic devices | 6 | 1 st | 2 nd | | http://www.materiales.upm.es/master/fichas/2017/43000341-2017.pdf |
| 43000342 | Spintronics and nanomagnetism | 3 | 1 st | 2 nd | | http://www.materiales.upm.es/master/fichas/2017/43000342-2017.pdf |
| 43000326 | Quality management and metrology | 3 | 1 st | 2 nd | | http://www.materiales.upm.es/master/fichas/2017/43000326-2017.pdf |
| 43000338 | Materials for photonic devices | 4 | 1 st | 2 nd | | http://www.materiales.upm.es/master/fichas/2017/43000338-2017.pdf |
| MASTER DEGREE IN CIVIL ENGINEERING SYSTEMS (MUSIC) | | | | | | |
| 43000271 | Hydroelectric systems analysis | 4,5 | 1 st | 2 nd | | http://www1.camino.upm.es/sic/files/03_Master/TA_analisis_de_sistemas_hidroelectricos_eng.pdf |
| 43000274 | Coastal engineering | 4,5 | 1 st | 2 nd | Spanish: | http://www1.camino.upm.es/sic/files/03_Master/TA_ingenieria_del_litoral.pdf |
| 43000281 | Transport planning theory | 4,5 | 1 st | 2 nd | Spanish: | http://www1.camino.upm.es/sic/files/03_Master/TA_politica_y_planificacion_del_transporte.pdf |
| 43000277 | Economy and transport operation | 4,5 | 1 st | 1 st | Spanish: | http://www1.camino.upm.es/sic/files/03_Master/TA_economia_y_operacion_del_transporte.pdf |
| 43000279 | Traffic management | 4,5 | 1 st | 2 nd | Spanish: | http://www1.camino.upm.es/sic/files/03_Master/TA_gestion_de_la_circulacion_viaria.pdf |
| 43000282 | Ports management | 4,5 | 1 st | 1 st | Spanish: | http://www1.camino.upm.es/sic/files/03_Master/TA_gestion_portuaria.pdf |
| 43000284 | Systems analysis applied to civil engineering | 4,5 | 1 st | 1 st | | http://www1.camino.upm.es/sic/files/03_Master/CI_analisis_de_sistemas_aplicados_a_la_ing_civil_eng.pdf |
| 43000288 | Sustainable management of drainage basins | 4,5 | 1 st | 1 st | Spanish: | http://www1.camino.upm.es/sic/files/03_Master/FI_gestion_sostenible_de_cuencas_hidrograficas.pdf |
| 43000289 | Control of hydraulic systems | 4,5 | 1 st | 2 nd | | http://www1.camino.upm.es/sic/files/03_Master/FI_control_de_sistemas_hidraulicos_eng.pdf |
| 43000290 | Urban water services management | 4,5 | 1 st | 2 nd | Spanish: | http://www1.camino.upm.es/sic/files/03_Master/FI_gestion_de_servicios_de_agua_urbana.pdf |
| 43000294 | Climate analysis and the effects on the public works (shore) | 4,5 | 1 st | 2 nd | Spanish: | http://www1.camino.upm.es/sic/files/03_Master/FI_analisis_y_efectos_del_clima_sobre_el_litoral.pdf |
| 43000285 | Finance infrastructure | 4,5 | 1 st | 2 nd | | http://www1.camino.upm.es/sic/files/03_Master/CI_financiacion_de_infraestructuras.pdf |
| 43000286 | Methods for regional planning and sustainability | 4,5 | 1 st | 1 st | Spanish: | http://www1.camino.upm.es/sic/files/03_Master/CI_tecnicas_de_planificacion_territorial.pdf |
| 43000287 | Applied statistics for civil engineers | 4,5 | 1 st | 1 st | Spanish: | http://www1.camino.upm.es/sic/files/03_Master/CI_estadistica_aplicada_a_la%20investigacion_en_ingenieria.pdf |
| 43000297 | Roads use systems | 4,5 | 1 st | 2 nd | Spanish: | http://www1.camino.upm.es/sic/files/03_Master/FI_sistemas_de_explotacion_de_carreteras.pdf |
| 43000298 | Sustainable transportation strategies | 4,5 | 1 st | 1 st | | http://www1.camino.upm.es/sic/files/03_Master/FI_estrategias_de_movilidad_sostenible.pdf |
| MASTER DEGREE AND PHD IN ENGINEERING OF STRUCTURES, FOUNDATIONS AND MATERIALS /Usually not applicable for exchange students/ | | | | | | |
| 43000442 | Project and construction of mixed structures and bridges | 4,5 | 1 st | 2 nd | Spanish: | http://www1.camino.upm.es/estructuras/?q=node/16 |
| 43000443 | Special structures: predimensioning, design and testing | 4,5 | 1 st | 2 nd | | http://www1.camino.upm.es/estructuras/?q=en/node/169 |
| 43000444 | Nonlinear finite element models for solids and structures | 4,5 | 1 st | 2 nd | | http://www1.camino.upm.es/estructuras/files/estructuras/GA_04AM_43000444_2S_2017-18_0.pdf |
| 43000445 | Computational mechanics | 4,5 | 1 st | 2 nd | | http://www1.camino.upm.es/estructuras/files/estructuras/GA_04AM_43000445_2S_2017-18_0.pdf |
| 43000439 | Dynamic and seismic analysis of structures | 4,5 | 1 st | 2 nd | | http://www1.camino.upm.es/estructuras/files/estructuras/GA_04AM_43000439_2S_2017-18.pdf |
| 43000388 | Design, analysis and construction of bridges | 4,5 | 1 st | 2 nd | | http://www1.camino.upm.es/estructuras/files/estructuras/Design_Analysis_and_Construction_of_Bridges_0.pdf |

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|----------|---|-----|-----------------|-----------------|--|
| 43000441 | Advanced analysis and design of concrete structures | 4,5 | 1 st | 2 nd | http://www1.camino.upm.es/estructuras/files/estructuras/GA_04AM_43000441_2S_2017-18.pdf |
| 43000438 | Bridge dynamics | 4,5 | 1 st | 2 nd | http://www1.camino.upm.es/estructuras/files/estructuras/GA_04AM_43000438_2S_2017-18_0.pdf |
| 43000452 | Structural composite materials | 4,5 | 1 st | 2 nd | Spanish: http://www1.camino.upm.es/estructuras/files/estructuras/GA_04AM_43000452_2S_2017-18_0.pdf |



| CODE | COURSE TAUGHT IN ENGLISH | ECTS | YEAR | SEMESTER | INFORMATION AND CONTENTS |
|---|--|------|-----------------|----------------------------------|---|
| BACHELOR OF ENGINEERING IN TELECOMMUNICATION TECHNOLOGIES AND SERVICES | | | | | |
| 93000093 | Numerical analysis lab | 4,5 | 3 rd | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/95000093_GITST.pdf |
| MASTER DEGREE IN TELECOMMUNICATION ENGINEERING | | | | | |
| 93000792 | Signal analysis for communication | 6 | 1 st | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MUIT_1/93000792_Signal_Analysis_for_communications.pdf |
| 93000793 | Radio access technologies | 3 | 1 st | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MUIT_1/93000793_Radio_access_technologies.pdf |
| 93000795 | User equipment and terminals | 6 | 1 st | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MUIT_1/93000795_user_equipment_and_terminals.pdf |
| 93000797 | Communication networks | 6 | 1 st | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MUIT_1/93000797_Communication_networks.pdf |
| 93000798 | Applications and services | 6 | 1 st | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MUIT_1/93000798_applications_and_services.pdf |
| 93000801 | Strategic vision of technologies and systems integration in ICT sector | 3 | 1 st | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MUIT_1/93000801_Strategic_vision_of_technologies_and_system_integration_in_ICT_sector.pdf |
| 93000791 | Communication systems | 6 | 1 st | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MUIT_1/93000791_Communication_Systems.pdf |
| 93000794 | Multimedia systems and services | 6 | 1 st | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MUIT_1/93000794_multimedia_systems_and_services.pdf |
| 93000796 | Instrumentation systems engineering | 6 | 1 st | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MUIT_1/93000796_Instrumentation_and_systems_engineering.pdf |
| 93000800 | Project management | 6 | 1 st | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MUIT_1/93000800_Project_Management.pdf |
| 93000870 | Master Thesis | 30 | 2 nd | 1 st /2 nd | Spanish: http://www.etsit.upm.es/fileadmin/documentos/estudios/master_universitario/Guias_de_Aprendizaje/Curso_2017-18/Guia_GAUSS_de_TFM.pdf |
| 93000803 | Antennas | 6 | 2 nd | 1 st | Spanish: http://www.etsit.upm.es/fileadmin/documentos/estudios/master_universitario/Guias_de_Aprendizaje/Curso_2017-18/93000803_ANTE.pdf |
| 93000811 | Satellite communications | 6 | 2 nd | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MUIT_2/Signals_and_Communications/93000811_Satellite_Communications_CSAT.pdf |
| 93000812 | Fiber optics communications | 6 | 2 nd | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MUIT_2/Signals_and_Communications/93000812_Fiber_Optics_Communication_CFOP.pdf |
| 93000820 | Video digital processing | 6 | 2 nd | 1 st | Spanish: http://www.etsit.upm.es/fileadmin/documentos/estudios/master_universitario/Guias_de_Aprendizaje/Curso_2017-18/93000820_TSVD.pdf |
| 93000810 | Mobile communications | 6 | 2 nd | 2 nd | Spanish: http://www.etsit.upm.es/fileadmin/documentos/estudios/master_universitario/Guias_de_Aprendizaje/Curso_2016-17/93000810_CMOV.pdf |
| 93000813 | Communications systems workshop | 6 | 2 nd | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MUIT_2/Signals_and_Communications/93000813_Communication_system_Workshop_TSCO.pdf |
| 93000806 | Audiovisual production environments | 6 | 2 nd | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/estudios/master_universitario/Guias_de_Aprendizaje/Curso_2016-17/93000806_EPAV.pdf |
| 93000819 | Acoustic signal processing | 6 | 2 nd | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/estudios/master_universitario/Guias_de_Aprendizaje/Curso_2017-18/GA_09AQ_93000819_25_2017-18.pdf |
| 93000835 | Microelectronic design | 6 | 2 nd | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MUIT_2/Electronic/93000835_Microelectronic_Design_DIMI.pdf |
| 93000834 | Engineering of systems with processors | 6 | 2 nd | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MUIT_2/Electronic/93000834_Engineering_of_systems_with_processors_ISPR.pdf |
| 93000836 | Microelectronic technology | 6 | 2 nd | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MUIT_2/Electronic/93000836_Microelectronic_Technology_TMEL.pdf |
| 93000839 | Nanoelectronic | 6 | 2 nd | 2 nd | Spanish: http://www.etsit.upm.es/fileadmin/documentos/estudios/master_universitario/Guias_de_Aprendizaje/Curso_2016-17/93000839_NELC.pdf |
| 93000844 | Neurosensory engineering | 6 | 2 nd | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MUIT_2/Bioengineering/93000844_Neurosensory_Engineering_INRS.pdf |
| 93000848 | Technology and business innovation | 4,5 | 2 nd | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MUIT_2/Management_Innovation_and_ICT_Business/93000848_Technology_and_Business_Innovation_INTN.pdf |
| 93000850 | ICT market policy and regulation | 3 | 2 nd | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MUIT_2/Management_Innovation_and_ICT_Business/93000850_ICT_Market_Policy_and_Regulation_RTIC.pdf |
| 93000855 | ICT business analysis | 3 | 2 nd | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MUIT_2/Management_Innovation_and_ICT_Business/93000855_ICT_Business_Analysis_NTIC.pdf |
| 93000856 | Market prospective and demand analysis | 3 | 2 nd | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MUIT_2/Management_Innovation_and_ICT_Business/93000856_Market_Prospective_and_Demand_Analysis_DTIC.pdf |
| 93000852 | Systems and information techniques for business management | 3 | 2 nd | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MUIT_2/Management_Innovation_and_ICT_Business/93000852_Information_Systems_for_Business_Management_II_SIG2.pdf |
| 93000821 | Signal processing workshop | 6 | 2 nd | 2 nd | Planned for academic year 2018-2019 |
| MASTER OF SCIENCE IN SIGNAL THEORY AND COMMUNICATIONS | | | | | |
| - | Master Thesis | 12 | 1 st | 2 nd | Spanish: http://www.etsit.upm.es/fileadmin/documentos/estudios/master_universitario/Guias_de_Aprendizaje/Curso_2017-18/Guia_GAUSS_de_TFM.pdf |
| 93000920 | Optimization fundamentals | 3 | 1 st | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/MSTC/RF_Technologies_and_systems/optimization_fundamentals.pdf |
| 93000921 | Radiofrequency optimization techniques | 3 | 1 st | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/MSTC/RF_Technologies_and_systems/radiofrequency_optimization_techniques.pdf |
| 93000923 | Advanced topics on antenna technologies | 6 | 1 st | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/MSTC/RF_Technologies_and_systems/advanced_topics_on_antenna_technologies.pdf |
| 93000922 | Radiofrequency technologies | 6 | 1 st | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/MSTC/RF_Technologies_and_systems/radiofrequency_technologies.pdf |
| 93000925 | Design of communication systems and equipment | 6 | 1 st | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/MSTC/RF_Technologies_and_systems/design_of_communication_systems_and_equipment.pdf |
| 93000924 | Mobile communications: 4G and beyond | 3 | 1 st | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/MSTC/RF_Technologies_and_systems/mobile_communications.pdf |
| 93000929 | Computational electromagnetics | 6 | 1 st | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/MSTC/RF_Technologies_and_systems/computational_electromagnetics.pdf |
| 93000928 | Laboratory courses on RF measurements | 6 | 1 st | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/MSTC/RF_Technologies_and_systems/LaboratoryCourseonRFMeasurements.pdf |
| 93000926 | From Array processing to MIMO communications | 6 | 1 st | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/MSTC/RF_Technologies_and_systems/FromArrayProcessingtoMIMO.pdf |
| 93000927 | Secure RF communications | 3 | 1 st | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/MSTC/RF_Technologies_and_systems/SecureRFCommunications.pdf |
| 93000938 | Optimization techniques for Big-Data analysis | 3 | 1 st | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/MSTC/signal_processing_and_machine_learning/Courseinfo_Optimizacion_BigData.pdf |

| | | | | | |
|---|---|-----|-----------------|-----------------|---|
| 93000939 | Statistical modeling | 3 | 1 st | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/MSTC/signal_processing_and_machine_learning/CourseInfo_StatisticalModelling.pdf |
| 93000940 | Time series analysis | 4,5 | 1 st | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/MSTC/signal_processing_and_machine_learning/CourseInfo_TimeSeriesAnalysis.pdf |
| 93000941 | Predictive and descriptive learning | 6 | 1 st | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/MSTC/signal_processing_and_machine_learning/CourseInfo_PredictiveandDescriptiveLearning.pdf |
| 93000942 | Data science foundations and applications | 2 | 1 st | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/MSTC/signal_processing_and_machine_learning/CourseInfo_DataScienceFoundations.pdf |
| 93000943 | Machine learning lab | 4,5 | 1 st | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/MSTC/signal_processing_and_machine_learning/CourseInfo_MachineLearningLab.pdf |
| 93000920 | Optimization fundamentals | 3 | 1 st | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/MSTC/signal_processing_and_machine_learning/CourseInfo_Optimization.pdf |
| 93000947 | Bio-inspired learning | 3 | 1 st | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/MSTC/signal_processing_and_machine_learning/CourseInfo_Bio-InspiredLearning.pdf |
| 93000948 | Reinforcement learning | 3 | 1 st | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/MSTC/signal_processing_and_machine_learning/CourseInfo_ReinforcementLearning.pdf |
| 93000945 | Signal processing for Big Data | 4 | 1 st | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/MSTC/signal_processing_and_machine_learning/CourseInfo_SignalProcessingforBigData.pdf |
| 93000946 | Big Data for image and video signals | 4 | 1 st | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/MSTC/signal_processing_and_machine_learning/CourseInfo_BigDataforImageandVideoSignals.pdf |
| 93000944 | Large scale media analytics | 4 | 1 st | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/MSTC/signal_processing_and_machine_learning/CourseInfo_LargeScaleMediaAnalytics.pdf |
| 93000949 | Applications projects | 4 | 1 st | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/MSTC/signal_processing_and_machine_learning/CourseInfo_ApplicationProjects.pdf |
| MASTER OF SCIENCE ON PHOTOVOLTAIC SOLAR ENERGY | | | | | |
| 93000651 | Solar cells fundamentals | 4 | 1 st | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MSFV/93000651_MUESFV.pdf |
| 93000652 | Energy and society | 4 | 1 st | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MSFV/93000652_MUESFV.pdf |
| 93000654 | Solar cell characterization lab | 4 | 1 st | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MSFV/93000654_MUESFV.pdf |
| 93000657 | Solar cell technology lab | 6 | 1 st | 1 st | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MSFV/93000657_MUESFV.pdf |
| 93000659 | Optical engineering | 5 | 1 st | 1 st | Spanish: http://www.ies.upm.es/sfs/IES/master/Curso%202017-18/1st_semester/GA_09AX_93001041_15_2017-18_IO.pdf |
| 93000663 | New generation solar cells | 3 | 1 st | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MSFV/93000663_MUESFV.pdf |
| 93000666 | Simulation lab for cells and systems | 4 | 1 st | 2 nd | http://www.etsit.upm.es/fileadmin/documentos/servicios/internacionales/extranjeros/Syllabus_MSFV/93000666_MUESFV.pdf |
| 93000674 | Master Thesis | 15 | 1 st | 2 nd | Spanish: http://www.etsit.upm.es/fileadmin/documentos/estudios/master_universitario/Guias_de_Aprendizaje/Curso_2017-18/Guia_GAUSS_de_TFM_.pdf |
| MASTER OF SCIENCE IN BIOMEDICAL ENGINEERING | | | | | |
| Module 1 | Core course | 15 | Spanish: | | http://docencia.gbt.tfo.upm.es/wp-content/uploads/2016/11/MODULO-I-MODULO-FUNDAMENTAL.pdf |
| Module 2 | Biomedical technologies specialization track | 18 | | | http://docencia.gbt.tfo.upm.es/wp-content/uploads/2016/11/MODULO-II-Itinerario-TECNOLOGIAS-BIOMEDICAS.pdf |
| Module 3 | Management and innovation in healthcare technologies specialization track | 18 | | | http://docencia.gbt.tfo.upm.es/wp-content/uploads/2016/11/MODULO-III-Itinerario-GESTION-E-INNOVACION-EN-TECNOLOGIAS-SANITARIAS.pdf |
| Module 4 | Elective courses | 9 | | | http://docencia.gbt.tfo.upm.es/wp-content/uploads/2016/11/MODULO-IV-MATERIAS-OPTATIVAS.pdf |
| Module 5 | Seminars | 3 | | | http://docencia.gbt.tfo.upm.es/wp-content/uploads/2016/11/MODULO-V-SEMINARIOS.pdf |
| Module 6 | Final Master Thesis | 15 | | | http://docencia.gbt.tfo.upm.es/wp-content/uploads/2016/11/MODULO-VI-TRABAJO-FIN-DE-MASTER.pdf |



TECHNICAL UNIVERSITY OF MADRID (UPM)
SCHOOL OF NAVAL ARCHITECTURE AND MARINE ENGINEERING (ETSIN)
Academic year 2017-2018



| CODE | COURSE TAUGHT IN ENGLISH | ECTS | YEAR | SEMESTER | INFORMATION AND CONTENTS |
|---|---|------|----------------------------------|----------------------------------|--|
| BACHELOR DEGREE IN NAVAL ARCHITECTURE | | | | | |
| 85001511 | English for professional and academic communication | 6 | 3 rd | 1 st | http://www.etsin.upm.es/sfs/E.T.S.I.%20Navales/GENERAL/GRADUADO%20EN%20ARQUITECTURA%20NAVAL/Asig_Guias%202017-18/GA_08IA_85001511_2S_2017-18.pdf |
| BACHELOR DEGREE IN MARITIME ENGINEERING | | | | | |
| 85002511 | English for professional and academic communication | 6 | 3 rd | 1 st | Spanish: http://www.etsin.upm.es/sfs/E.T.S.I.%20Navales/GENERAL/GRADUADO%20EN%20INGENIERIA%20MARITIMA/asig_guias%202017-18/GA_08IM_85002511_1S_2017-18.pdf |
| MASTER DEGREE IN NAVAL AND OCEAN ENGINEERING | | | | | |
| 4519 | Differential equations and fluid mechanics | 5 | 1 st /2 nd | 1 st /2 nd | Spanish: http://www.etsin.upm.es/sfs/E.T.S.I.%20Navales/GENERAL/MASTER%20UNIVERSITARIO%20EN%20INGENIERIA%20NAVAL%20Y%20OCEANICA/Descripci%C3%B3n%20Asignaturas%20M%C3%A1ster%20INyO.pdf |
| 4520 | Numerical methods in fluid mechanics | 5 | 1 st /2 nd | 1 st /2 nd | |
| 4521 | Industrial modelling | 5 | 1 st /2 nd | 1 st /2 nd | |
| 4523 | Sloshing | 5 | 1 st /2 nd | 1 st /2 nd | |
| 4525 | Nuclear propulsion ships | 5 | 1 st /2 nd | 1 st /2 nd | |
| 4526 | Reliability and risk analysis | 5 | 1 st /2 nd | 1 st /2 nd | |
| 4527 | Advanced technology in fission reactors | 5 | 1 st /2 nd | 1 st /2 nd | |
| 4528 | Academic writing and translation in English | 5 | 1 st /2 nd | 1 st /2 nd | |
| 4531 | Combustible battery technology and hydrogen energy | 5 | 1 st /2 nd | 1 st /2 nd | |



POLITÉCNICA

TECHNICAL UNIVERSITY OF MADRID (UPM)
FACULTY OF SCIENCES FOR PHYSICAL ACTIVITY AND SPORT (INEF)
BACHELOR DEGREE IN SPORTS SCIENCES
Academic year 2017-2018



| CODE | COURSE TAUGHT IN ENGLISH | ECTS | YEAR | SEMESTER | INFORMATION AND CONTENTS /in Spanish/ |
|----------|---|------|-----------------|----------------------------------|---|
| 11500007 | Handball | 4 | 1 st | 1 st /2 nd | http://www.inef.upm.es/sfs/INEF/Estudiantes/Estudios/GRADO/plan_estudios_GRADO.pdf |
| 11500010 | Athletics | 4 | 1 st | 1 st /2 nd | |
| 11500017 | Basketball | 4 | 2 nd | 1 st /2 nd | |
| 11500030 | Exercise Physiology | 6 | 3 rd | 1 st | |
| 11500034 | Adapted physical activity and sport | 6 | 3 rd | 2 nd | |
| 11500061 | Tennis | 6 | 3 rd | 2 nd | |
| 11500168 | Developing English language skills | 6 | 3 rd | 2 nd | |
| 11500031 | English for professional and academic communication in sports | 6 | 4 th | 1 st | |
| 11500064 | Biomechanic analysis of sport technique | 6 | 4 th | 2 nd | |



POLITÉCNICA

TECHNICAL UNIVERSITY OF MADRID (UPM)
SCHOOL OF CIVIL ENGINEERING (ETSIC)
BACHELOR DEGREE IN CIVIL ENGINEERING
Academic year 2017-2018



| CODE | COURSE TAUGHT IN ENGLISH | ECTS | YEAR | SEMESTER | | INFORMATION AND CONTENTS /in Spanish/ |
|-----------|--|------|-----------------|-----------------|----------|---|
| 585005170 | English for professional communication | 3 | 4 th | 2 nd | Spanish: | http://www.ingenieriacivil.upm.es/index.php?option=com_docman&task=doc_download&gid=1168&Itemid= |



TECHNICAL UNIVERSITY OF MADRID (UPM)
 SCHOOL OF INDUSTRIAL DESIGN AND ENGINEERING (ETSIDI)
 Academic year 2017-2018



| CODE | COURSE TAUGHT IN ENGLISH | ECTS | YEAR | SEMESTER | INFORMATION AND CONTENTS |
|---|--|------|-----------------|-----------------|---|
| INTERNATIONAL SEMESTER IN ENGLISH | | | | | |
| | Computer aided manufacturing workshop | 3 | | 1 st | http://www.etsidi.upm.es/sfs/E.U.I.T.%20Industrial/INTERNACIONAL/DOCUMENTOS/ISemester.pdf |
| | Intellectual capital and knowledge management | 3 | | 1 st | |
| | Practical Internet of things with Raspberry Pi | 6 | | 1 st | |
| | Spanish language course | 6 | | 1 st | |
| | Final degree project | 12 | | 1 st | |
| | Biodegradable polymers for food packaging | 3 | | 2 nd | |
| | Drawing and sketching | 3 | | 2 nd | |
| | Finite element based simulation model for fluid dynamics | 3 | | 2 nd | |
| | Fundamentals of photovoltaic engineering | 3 | | 2 nd | |
| | Introduction to chaos in science and technology | 3 | | 2 nd | |
| | Numerical calculations for engineering | 6 | | 2 nd | |
| | Solving electrical engineering problems using software tools | 3 | | 2 nd | |
| | Sustainable design | 3 | | 2 nd | |
| | Topics in engineering mathematics | 6 | | 2 nd | |
| | Final degree project | 12 | | 2 nd | |
| MASTER DEGREE IN INDUSTRIAL DESIGN ENGINEERING | | | | | |
| 563000068 | Materials and processes selection | 3 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_56AC_563000068_1S_2017-18.pdf |
| 563000071 | Design and manufacturing based on assembly | 4,5 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_56AC_563000071_1S_2017-18.pdf |
| 563000072 | Manufacturing projects developed in cam environments | 4,5 | 1 st | 2 nd | https://www.upm.es/comun_gauss/publico/guias/2017-18/2S/GA_56AC_563000072_2S_2017-18.pdf |
| 563000074 | Ecoefficiency and ecoinnovation | 3 | 1 st | 2 nd | https://www.upm.es/comun_gauss/publico/guias/2017-18/2S/GA_56AC_563000074_2S_2017-18.pdf |
| 563000078 | Polymer materials and nanocomposites applied on packaging | 3 | 1 st | 2 nd | https://www.upm.es/comun_gauss/publico/guias/2017-18/2S/GA_56AC_563000078_2S_2017-18.pdf |



POLITÉCNICA

TECHNICAL UNIVERSITY OF MADRID (UPM)
SCHOOL OF MINING AND ENERGY ENGINEERING (ETSIME)
MASTER DEGREE IN ENVIRONMENTAL RESEARCH, MODELLING AND RISK ASSESSMENT (MIMARMA)
Academic year 2017-2018



| CODE | COURSE TAUGHT IN ENGLISH | ECTS | YEAR | SEMESTER | INFORMATION AND CONTENTS /in Spanish/ |
|----------|--|------|-----------------|-----------------|---|
| 63000064 | Partition of contaminants in the environment | 4 | 1 st | 1 st | http://www.minasyenergia.upm.es/attachments/article/385/GA_06AE_63000064_1S_2016-17.pdf |
| 63000065 | Environmental risk assessment | 5 | 1 st | 1 st | http://www.minasyenergia.upm.es/attachments/article/385/GA_06AE_63000065_1S_2016-17.pdf |
| 63000053 | Contaminated site assessment | 4 | 1 st | 2 nd | http://www.minasyenergia.upm.es/attachments/article/385/GA_06AE_63000053_2S_2016-17.pdf |
| 63000072 | Preparation of a research paper | 4 | 1 st | 2 nd | http://www.minasyenergia.upm.es/attachments/article/385/GA_06AE_63000072_2S_2016-17.pdf |



POLITÉCNICA

TECHNICAL UNIVERSITY OF MADRID (UPM)
SCHOOL OF INDUSTRIAL ENGINEERING (ETSII)

Academic year 2017-2018



| CODE | COURSE TAUGHT IN ENGLISH | ECTS | YEAR | SEMESTER | INFORMATION AND CONTENTS /in Spanish/ |
|--|--|------|-----------------|----------------------------------|---|
| MASTER DEGREE IN INDUSTRIAL ELECTRONICS | | | | | |
| 53001534 | Energy management in electronic systems | 3 | 1 st | 1 st | |
| 53001535 | Electronic lab | 6 | 1 st | 1 st | |
| 53001536 | Advanced seminar 1 | 1,5 | 1 st | 2 nd | https://www.upm.es/comun_gauss/publico/guias/2017-18/2S/GA_05BG_53001536_2S_2017-18.pdf |
| 53001537 | Advanced seminar 2 | 1,5 | 1 st | 2 nd | https://www.upm.es/comun_gauss/publico/guias/2017-18/2S/GA_05BG_53001537_2S_2017-18.pdf |
| 53001538 | Advanced power supply systems | 3 | 1 st | 1 st | |
| 53001542 | Smart grids | 3 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_05BG_53001542_1S_2017-18.pdf |
| 53001541 | Modelling and control of power converters | 3 | 1 st | 1 st | |
| 53001539 | Design of magnetic components | 3 | 1 st | 1 st | |
| 53001540 | Grid connected converters: AC/DC & DC/AC | 3 | 1 st | 2 nd | |
| 53001543 | Three phase rectifiers and inverters | 3 | 1 st | 2 nd | |
| 53001545 | Wireless sensor networks | 3 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_05BG_53001545_1S_2017-18.pdf |
| 53001550 | Integrated circuits and reconfigurable computing | 3 | 1 st | 1 st | |
| 53001549 | High level description of systems | 3 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_05BG_53001549_1S_2017-18.pdf |
| 53001547 | Design of embedded systems | 3 | 1 st | 2 nd | https://www.upm.es/comun_gauss/publico/guias/2017-18/2S/GA_05BG_53001547_2S_2017-18.pdf |
| 53001548 | Embedded processing architecture | 3 | 1 st | 2 nd | |
| 53001546 | DPS: Methods and algorithms | 3 | 1 st | 2 nd | |
| 53001552 | Communication networks | 3 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_05BG_53001552_1S_2017-18.pdf |
| 53001554 | Electronic design for reliability | 3 | 1 st | 2 nd | |
| 53001544 | Initiation to research | 6 | 1 st | 1 st /2 nd | |
| 53001558 | Master Thesis | 12 | 1 st | 2 nd | http://www.etsii.upm.es/estudios/pod/pfc/Procedimiento-TFG-TFM-PFC-def.pdf |



POLITÉCNICA

TECHNICAL UNIVERSITY OF MADRID (UPM)
SCHOOL OF COMPUTER ENGINEERING (ETSIINF)
Academic year 2017-2018



| CODE | COURSE TAUGHT IN ENGLISH | ECTS | YEAR | SEMESTER | INFORMATION AND CONTENTS |
|--|---|------|-----------------|----------------------------------|--|
| BACHELOR DEGREE IN INFORMATICS (COMPUTER) ENGINEERING | | | | | |
| 105000005 | Calculus | 6 | 1 st | 2 nd | Spanish: https://www.upm.es/comun_gauss/publico/guias/2016-17/2S/GA_10II_105000005_2S_2016-17.pdf |
| 105000012 | Digital systems | 6 | 1 st | 2 nd | Spanish: https://www.upm.es/comun_gauss/publico/guias/2015-16/2S/GA_10II_105000012_2S_2015-16.pdf |
| 105000046 | Building up communications skills | 3 | 3 rd | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10II_105000046_1S_2017-18.pdf |
| 105000011 | English for Professional and Academic Communications | 6 | 4 th | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10II_105000011_1S_2017-18.pdf |
| EUROPEAN MASTER DEGREE IN SOFTWARE ENGINEERING | | | | | |
| 103000482 | Requirements Engineering | 6 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AM_103000482_1S_2017-18.pdf |
| 103000483 | Software Design | 4 | 1 st | 2 nd | https://www.upm.es/comun_gauss/publico/guias/2017-18/2S/GA_10AM_103000483_2S_2017-18.pdf |
| 103000484 | Software Architecture | 4 | 1 st | 2 nd | https://www.upm.es/comun_gauss/publico/guias/2017-18/2S/GA_10AM_103000484_2S_2017-18.pdf |
| 103000485 | Software Project Management | 4 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AM_103000485_1S_2017-18.pdf |
| 103000486 | Models and Methods for Process Improvement and Assessment | 4 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AM_103000486_1S_2017-18.pdf |
| 103000487 | Software Quality Management | 4 | 1 st | 2 nd | https://www.upm.es/comun_gauss/publico/guias/2017-18/2S/GA_10AM_103000487_2S_2017-18.pdf |
| 103000488 | Software Metrics | 4 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AM_103000488_1S_2017-18.pdf |
| 103000489 | Verification and Validation | 6 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AM_103000489_1S_2017-18.pdf |
| 103000547 | Software Engineering Economics | 6 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AM_103000547_1S_2017-18.pdf |
| 103000540 | Critical Software | 3 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AM_103000540_1S_2017-18.pdf |
| 103000541 | Data Engineering | 4 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AM_103000541_1S_2017-18.pdf |
| 103000546 | Rigorous Software Development | 4 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AM_103000546_1S_2017-18.pdf |
| 103000603 | Challenges for Accessible Computing for People with Functional Diversity | 4 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AM_103000603_1S_2017-18.pdf |
| 103000544 | Management, Relationships and Communication in Working Groups | 4 | 1 st | 1 st | Spanish: https://www.upm.es/comun_gauss/publico/guias/2015-16/2S/GA_10AM_103000544_2S_2015-16.pdf |
| 103000545 | Agile Software Development: Agile Practices and Agile Usability | 4 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AM_103000545_1S_2017-18.pdf |
| 103000542 | Experimental Software Engineering | 6 | 1 st | 2 nd | https://www.upm.es/comun_gauss/publico/guias/2017-18/2S/GA_10AM_103000542_2S_2017-18.pdf |
| 103000538 | Agent Based Software Engineering | 6 | 1 st | 2 nd | https://www.upm.es/comun_gauss/publico/guias/2017-18/2S/GA_10AM_103000538_2S_2017-18.pdf |
| 103000543 | Interaction Design | 6 | 1 st | 2 nd | https://www.upm.es/comun_gauss/publico/guias/2017-18/2S/GA_10AM_103000543_2S_2017-18.pdf |
| 103000680 | Fundamentals of Business Administration | 4 | 1 st | 2 nd | https://www.upm.es/comun_gauss/publico/guias/2017-18/2S/GA_10AM_103000680_2S_2017-18.pdf |
| 103000490 | Software Project | 14 | 2 nd | 1 st /2 nd | http://www.dlsiis.fi.upm.es/emse/en/practicum.php |
| 103000491 | Master Thesis | 30 | 2 nd | 1 st /2 nd | http://www.dlsiis.fi.upm.es/emse/en/TFM.php |
| MASTER DEGREE IN SOFTWARE AND SYSTEMS | | | | | |
| 103000380 | Non-classical Project Management Strategies and Development Methodologies | 4 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AK_103000380_1S_2017-18.pdf |
| 103000379 | Experimental Software Engineering | 4 | 1 st | 2 nd | https://www.upm.es/comun_gauss/publico/guias/2017-18/2S/GA_10AK_103000379_2S_2017-18.pdf |
| 103000381 | 21st Century Challenges for Software Engineering | 4 | 1 st | 2 nd | https://www.upm.es/comun_gauss/publico/guias/2017-18/2S/GA_10AK_103000381_2S_2017-18.pdf |
| 103000580 | Software Construction: Analysis of Requirements | 6 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AK_103000580_1S_2017-18.pdf |
| 103000631 | Weekly Presentation Series: Fall Term | 4 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AK_103000631_1S_2017-18.pdf |
| 103000385 | Software Verification and Validation | 4 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AK_103000385_1S_2017-18.pdf |
| 103000383 | Rigorous Software Development | 4 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AK_103000383_1S_2017-18.pdf |
| 103000583 | Abstract Interpretation | 4 | 1 st | 2 nd | https://www.upm.es/comun_gauss/publico/guias/2017-18/2S/GA_10AK_103000583_2S_2017-18.pdf |
| 103000632 | Formal Methods for Concurrent and Reactive Systems | 4 | 1 st | 2 nd | https://www.upm.es/comun_gauss/publico/guias/2017-18/2S/GA_10AK_103000632_2S_2017-18.pdf |
| 103000584 | Reading Group on Basic Analysis of Non-Functional Global Properties | 4 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AK_103000584_1S_2017-18.pdf |
| 103000585 | Reading Group on Advanced Analysis of Non-Functional Global Properties | 4 | 1 st | 2 nd | https://www.upm.es/comun_gauss/publico/guias/2017-18/2S/GA_10AK_103000585_2S_2017-18.pdf |
| 103000634 | Software Construction: Implementation Issues | 6 | 1 st | 2 nd | https://www.upm.es/comun_gauss/publico/guias/2016-17/2S/GA_10AK_103000634_2S_2016-17.pdf |

| | | | | | |
|---|--|----|-----------------|-----------------|---|
| 103000387 | New Trends in Distributed Systems | 4 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AK_103000387_1S_2017-18.pdf |
| 103000587 | Analysis of Concurrent Systems | 4 | 1 st | 2 nd | https://www.upm.es/comun_gauss/publico/guias/2017-18/2S/GA_10AK_103000587_2S_2017-18.pdf |
| 103000635 | Independent Study with Adviser | 6 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AK_103000635_1S_2017-18.pdf |
| 103000389 | Data Mining Concepts, Practice and Research Challenges | 4 | 1 st | 2 nd | https://www.upm.es/comun_gauss/publico/guias/2017-18/2S/GA_10AK_103000389_2S_2017-18.pdf |
| 103000390 | Image Processing and Analysis | 4 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AK_103000390_1S_2017-18.pdf |
| 103000590 | Computer Security | 4 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AK_103000590_1S_2017-18.pdf |
| 103000592 | Advanced Topics On Computer Security | 4 | 1 st | 2 nd | https://www.upm.es/comun_gauss/publico/guias/2017-18/2S/GA_10AK_103000592_2S_2017-18.pdf |
| 103000636 | Directed Study with Adviser | 4 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AK_103000636_1S_2017-18.pdf |
| 103000633 | Weekly Presentation Series: Spring Term | 4 | 1 st | 2 nd | https://www.upm.es/comun_gauss/publico/guias/2016-17/2S/GA_10AK_103000633_2S_2016-17.pdf |
| 103000392 | Intelligent Virtual Environments: Technologies, Architectures and Applications | 4 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AK_103000392_1S_2017-18.pdf |
| 103000393 | Challenges of Accessible Computing for People with Functional Diversity | 4 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AK_103000393_1S_2017-18.pdf |
| 103000630 | Software Construction: Architecture and Interface Design Issues | 6 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_10AK_103000630_1S_2017-18.pdf |
| MASTER OF SCIENCE IN ARTIFICIAL INTELLIGENCE /Taught in English with at least 1 foreign student/ | | | | | |
| 103000359 | Bayesian networks | 5 | 1 st | 1 st | http://www.dia.fi.upm.es/materia/sites/default/files/Descripciones/2017-18/Ingles/A4%20Bayesian%20Networks.pdf Spanish: http://www.dia.fi.upm.es/materia/sites/default/files/master/Guias-aprendizaje/2017-18/A4.%20Redes%20bayesianas.pdf |
| 103000363 | Programmable biology: DNA computing and biocircuits engineering | 5 | 1 st | 1 st | http://www.dia.fi.upm.es/materia/sites/default/files/Descripciones/2017-18/Ingles/A8%20Programmable%20biology.pdf Spanish: http://www.dia.fi.upm.es/materia/sites/default/files/master/Guias-aprendizaje/2017-18/A8.%20Biolog%20C3%ADa%20programable.pdf |
| 103000364 | Logic programming | 5 | 1 st | 1 st | http://www.dia.fi.upm.es/materia/sites/default/files/Descripciones/2017-18/Ingles/A9%20Logic%20Programming.pdf http://www.dia.fi.upm.es/materia/sites/default/files/master/Guias-aprendizaje/2017-18/A9.%20Programaci%C3%B3n%20C3%B3gica.pdf |
| 103000366 | Intelligent agents and multi-agent systems | 5 | 1 st | 1 st | http://www.dia.fi.upm.es/materia/sites/default/files/Descripciones/2017-18/Ingles/A10%20Intelligent%20Agents%20and%20Multi-Agent%20Systems.pdf http://www.dia.fi.upm.es/materia/sites/default/files/master/Guias-aprendizaje/2017-18/A10.%20Agentes%20inteligentes.pdf |
| 103000367 | Ontological engineering | 5 | 1 st | 1 st | http://www.dia.fi.upm.es/materia/sites/default/files/Descripciones/2017-18/Ingles/A11%20Ontological%20Engineering.pdf Spanish: http://www.dia.fi.upm.es/materia/sites/default/files/master/Guias-aprendizaje/2017-18/A11.%20Ingenier%C3%ADa%20ontol%C3%B3gica.pdf |
| 103000368 | Models of reasoning | 5 | 1 st | 1 st | http://www.dia.fi.upm.es/materia/sites/default/files/master/Guias-aprendizaje/2017-18/A12.%20Modelos%20de%20razonamiento.pdf |
| 103000371 | Biomedical informatics | 5 | 1 st | 1 st | http://www.dia.fi.upm.es/materia/sites/default/files/Descripciones/2017-18/Ingles/A15%20Biomedical%20Informatics.pdf Spanish: http://dia.fi.upm.es/materia/sites/default/files/master/Guias-aprendizaje/2017-18/A15.%20Informatica%20Biomedica.2017-%2018.pdf |
| 103000358 | Participatory decision making and negotiation | 5 | 1 st | 1 st | http://www.dia.fi.upm.es/materia/sites/default/files/Descripciones/2017-18/Ingles/A2%20Participatory%20Decision-Making%20and%20Negotiation.pdf Spanish: http://www.dia.fi.upm.es/materia/sites/default/files/master/Guias-aprendizaje/2017-18/A2.%20Decisi%C3%B3n%20participativa%20y%20negociaci%C3%B3n.pdf |
| 103000360 | Machine learning | 5 | 1 st | 1 st | http://www.dia.fi.upm.es/materia/sites/default/files/Descripciones/2017-18/Ingles/A5%20Machine%20Learning.pdf Spanish: http://www.dia.fi.upm.es/materia/sites/default/files/master/Guias-aprendizaje/2017-18/A5.%20Aprendizaje%20autom%C3%A1tico.pdf |
| 103000720 | Web science | 5 | 1 st | 1 st | http://www.dia.fi.upm.es/materia/sites/default/files/Descripciones/2017-18/Ingles/A17%20Web%20Science.pdf Spanish: http://dia.fi.upm.es/materia/sites/default/files/master/Guias-aprendizaje/2017-18/A17.%20Ciencia%20de%20la%20Web.pdf |
| Seminars: 103000372 | Research methodology | 10 | 1st | 2nd | http://www.dia.fi.upm.es/materia/sites/default/files/master/Guias-aprendizaje/2017-18/GA_10AJ_103000372_2S_2017-18.pdf |
| | Project management and risk control | | | | |
| | Decision analysis | | | | |
| | Data mining | | | | |
| | Natural computing | | | | |
| | Logic computing | | | | |
| | Knowledge representation and reasoning | | | | |
| | Cognitive computation | | | | |
| | Robotics and computational perception | | | | |
| | Principals of robotics locomotion | | | | |
| Applications of artificial intelligence | | | | | |
| Automated planning | | | | | |



POLITÉCNICA

TECHNICAL UNIVERSITY OF MADRID (UPM)
SCHOOL OF COMPUTER SYSTEMS ENGINEERING (ETSISI)
Academic year 2017-2018



| CODE | COURSE TAUGHT IN ENGLISH | ECTS | SEMESTER | INFORMATION AND CONTENTS |
|-----------|---|------|-----------------|---|
| 615000071 | English for professional and academic communication | 6 | 1 st | https://www.etsisi.upm.es/erasmus-information |
| 615000042 | Information coding | 6 | 1 st | |
| 615000310 | Legal and professional issues | 3 | 1 st | |
| - | Linux system administration | 6 | 1 st | |
| - | Software quality | 6 | 1 st | |
| - | Spanish for Science and Technology | 3 | 1 st | |
| - | Verification and validation | 6 | 1 st | |
| 615000071 | English for Professional and Academic Communication | 6 | 2 nd | |
| - | Frontiers in Computer Science | 6 | 2 nd | |
| - | Software architecture and design | 6 | 2 nd | |
| - | Spanish for Science and Technology | 3 | 2 nd | |



POLITÉCNICA

TECHNICAL UNIVERSITY OF MADRID (UPM)
SCHOOL OF TELECOMMUNICATIONS SYSTEMS AND ENGINEERING (ETSIST)

Academic year 2017-2018



| CODE | COURSE TAUGHT IN ENGLISH | ECTS | YEAR | SEMESTER | INFORMATION AND CONTENTS |
|---|--|------|-----------------|----------------------------------|---|
| BACHELOR DEGREE IN TELEMATICS ENGINEERING | | | | | |
| 595000233 | English for professional and academic communication | 6 | 4 th | 1 st | http://www.etsist.upm.es/uploaded/68/English/syllabus/BE-TE_Syllabus_semester-7.pdf#page=3 |
| 595030263 | Introduction to Professional and Academic Communication I | 3 | 3 rd | 1 st /2 nd | http://www.etsist.upm.es/uploaded/68/English/syllabus/BE-TE_Syllabus_electives-C.pdf#page=3 |
| 595030271 | Introduction to Professional and Academic Communication II | 3 | 4 th | 1 st /2 nd | http://www.etsist.upm.es/uploaded/68/English/syllabus/BE-TE_Syllabus_electives-C.pdf#page=15 |
| 59500240 | Final Degree Project | 12 | 4 th | 2 nd | http://www.etsist.upm.es/uploaded/68/English/syllabus/BE-TE_Syllabus_semester-8.pdf#page=9 |
| MASTER OF SCIENCE IN SYSTEMS AND SERVICES ENGINEERING FOR THE INFORMATION SOCIETY (MISSSI) | | | | | |
| 593000104 | Wireless communication | 5 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_59AC_593000104_1S_2017-18.pdf |
| 593000107 | Advanced digital architectures | 5 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_59AC_593000107_1S_2017-18.pdf |
| 593000110 | Audio and video signal processing | 5 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_59AC_593000110_1S_2017-18.pdf |
| 593000113 | Ubiquitous and secure networks and services | 5 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_59AC_593000113_1S_2017-18.pdf |
| 593000116 | ICT managements in the organizations | 2 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_59AC_593000116_1S_2017-18.pdf |
| 593000117 | ICT and the information society | 3 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_59AC_593000117_1S_2017-18.pdf |
| 593000196 | Data modelling and analysis in engineering | 5 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_59AC_593000196_1S_2017-18.pdf |
| 593000197 | Advanced research seminars I | 5 | 1 st | 1 st | https://www.upm.es/comun_gauss/publico/guias/2017-18/1S/GA_59AC_593000197_1S_2017-18.pdf |
| 593000199 | Industry internship I | 5 | 1 st | 1 st | - |
| 593000105 | RF Electronic design | 5 | 1 st | 2 nd | - |
| 593000106 | Signal processing techniques for communications | 5 | 1 st | 2 nd | - |
| 593000108 | Advanced virtual instrumentation systems | 5 | 1 st | 2 nd | - |
| 593000109 | Embedded systems | 5 | 1 st | 2 nd | - |
| 593000121 | Master Thesis | 15 | 1 st | 2 nd | - |
| 593000182 | Embedded systems | 5 | 1 st | 2 nd | - |
| 593000183 | Signal recognition techniques | 5 | 1 st | 2 nd | - |
| 593000112 | | | | | - |
| 593000187 | RF Electronic design | 5 | 1 st | 2 nd | - |
| 593000188 | Signal processing techniques for communications | 5 | 1 st | 2 nd | - |
| 593000190 | Advanced virtual instrumentation systems | 5 | 1 st | 2 nd | - |
| 593000192 | Advanced audiovisual coding | 5 | 1 st | 2 nd | - |
| 593000111 | | | | | - |
| 593000194 | Telematic services for the information society | 5 | 1 st | 2 nd | - |
| 593000114 | | | | | - |
| 593000195 | Services and protocols engineering | 5 | 1 st | 2 nd | - |
| 593000115 | | | | | - |
| 593000198 | Advanced research seminars II | 5 | 1 st | 2 nd | - |
| 593000200 | Industry internship II | 5 | 1 st | 2 nd | - |



POLITÉCNICA

TECHNICAL UNIVERSITY OF MADRID (UPM)
SCHOOL OF FASHION DESIGN OF MADRID (CSDMM)
BACHELOR DEGREE IN FASHION DESIGN
Academic year 2017-2018

CSDMM

| CODE | COURSE TAUGHT IN ENGLISH | ECTS | YEAR | SEMESTER | INFORMATION AND CONTENTS /in Spanish/ |
|------|---------------------------------------|------|-----------------|-----------------|---------------------------------------|
| - | English language for fashion industry | 6 | 3 rd | 2 nd | - |