COMILLAS-ICAI Engineering Research Projects (SPRING & SUMMER 2019)	
RP DEA01 Integration of smart sensors (RFIDs and cameras) on a production line	
RP DEA02 Programming robots using virtual reality	
RP DEA03 Pallet quality control	
RP DEA04 Cutting-edge information and communications technologies for Smart Grids	
RP DEA05 Low-cost sensor characterization for biomedical applications	
RP DIE01 Testing power system protections	
RP DIE02 Analisys of emissions (CO2 & NO2) of medium motor vehicles and the indirect emissions of a typical e	electric vehicle (CO2) in his/her country of origin
RP DIE03 Performance tests of electric machines	
RP DIE04 Calibration of measuring instruments in the Electric Systems Lab.	
RP DIE05 State-of-the-art on flexibility options for investment in a decarbonized electric power system	
<u>RP_DIM01</u> Optimization of mechanical and thermal properties of microencapsulated antibiotic bone cements with	ith improved antimicrobial activity
RP DIM02 Improved bonding strength of acrylic adhesives reinforced with silanised graphene	
RP DIMO3 Influence of Graphene Nanoplatelets on Mechanical Properties of Epoxy Adhesive Joints	
<u>RP_DIM04</u> Biogas from anaerobic digestion of organic substrates; Building and operating anaerobic digestors	
RP DIM05 Chemical functionalization of graphene for improved dispersion in polymeric matrix composites	
RP DIM06 Development of parametric models of the human body	
RP DIM07 Mechanical characterization of GRP and CFRP composites reinforced with graphene nanoplatelets	
RP DIMO8 Fire resistant adhesive joints; Study of the mechanical behavior	
RP DIM09 Development of Nanomaterial based Scaffolds for Bone Tissue Regeneration	
RP DIM10 Numerical simulation of adhesive joints	
RP DIM11 Additive manufacturing of railway cantilever system	
RP DIM12 Numerical simulation of 3D printing process	
RP DIM13 Assessment of the birth-dead FEM technique to simulate the loss of stiffness in wood beams under fi	re conditions
RP DIM14 Numerical analysis of fire spread in highly densely populated areas	
RP DOI01 Making teaching material for learning Process Statistical Control at class	
RP DOI02 Energy poverty in the US	
RP DTC01 Application of Machine Learning techniques to classification problems	
RP DTC02 Application of Machine Learning to usupervised learning problems	
RP DTC03 Application of Machine Learning to regression problems	
RP DTC04 Assessment of IoT contexts through Bluetooth Low Energy Networks	
RP IIT01 Impact of the generation expansion decisions in the current TEP problem	
RP IITO2 Impact of the hourly representation in the operation of the European transmission network	
RP IITO3 Transition of the transmission network to a 100 % renewable European system	
RP IIT04 Including battery investment decisions into a long-term transmission expansion planning model	
RP IITO5 Prerequisites for the emergence of an hydrogen economy in Spain	

LEGEND

DEA Department of Electronics, Control and Communications

DIE Department of Electrical Engineering

DIM Department of Mechanical (and Materials) Engineering

DOI Department of Industrial Organization

DTC Department of Telematics and Computer Sciences

IIT Institute for Research in Technology