



Technical Program – IESTEC VII

Thematic areas	
Topics	Subtopics
Agroindustry	<ul style="list-style-type: none"> ◆ Food security ◆ Land use and management ◆ Safety and traceability ◆ Cooling chain ◆ Biopesticides ◆ Agriculture in controlled environment
Dr. Wedleys Tejedor	
Business Management, Innovation and Entrepreneurship	<ul style="list-style-type: none"> ◆ Social innovation ◆ New business ◆ Knowledge and marketing management ◆ From the laboratory to the industry ◆ Processes of manufacture ◆ Design and analysis of dynamic systems
Dra. Sidia Moreno	
Manufacturing Processes and Materials Science	<ul style="list-style-type: none"> ◆ Physics of materials ◆ Design and analysis of dynamic systems ◆ Union processes ◆ Corrosion ◆ Naval applications
Dra. Nacarí Marín	
Emerging Technologies	<ul style="list-style-type: none"> ◆ Bioinformatics ◆ Bioengineering ◆ Green technologies ◆ Medical technologies ◆ Neuroengineering ◆ Nanotechnology ◆ New materials ◆ Biomaterials ◆ Arts & science
Dr. Rolando Gittens (INDICASAT)	
Robotics, Automation and Artificial Intelligence	<ul style="list-style-type: none"> ◆ Educational robotics ◆ Digital Image processing ◆ Mobile robotics ◆ Mechatronics ◆ Parallel robots
Dr. Humberto Rodríguez	
Information and Communication Technologies	<ul style="list-style-type: none"> ◆ Mobile applications ◆ e-health ◆ m-Health ◆ Social network ◆ Linked open data ◆ Information security ◆ Computing auditing ◆ Communication network ◆ Ubiquitous computing ◆ Augmented reality ◆ Semantic web ◆ Smart cities ◆ IoT ◆ Software engineering
Dr. Vladimir Villarreal	
Energy and Environment	<ul style="list-style-type: none"> ◆ Renewable energy sources ◆ Climate change ◆ Biofuels ◆ Resilience and sustainability ◆ Energy storage systems ◆ Energy management systems ◆ Sustainable energy systems
Dra. Jessica Guevara	
Basic Sciences	<ul style="list-style-type: none"> ◆ Physical chemistry of materials ◆ Mathematical model ◆ Theoretical physics ◆ Astrophysics
Dr. Alfredo Campos	
Engineering Education	<ul style="list-style-type: none"> ◆ E-learning ◆ Research as academic tool ◆ Inclusive education ◆ Educational technologies ◆ Active methodologies ◆ Evaluation ◆ Professional development of academic staff ◆ Classroom research ◆ Curriculum ◆ Accreditation and internationalization
Dra. Norma Miller	
Infrastructure	<ul style="list-style-type: none"> ◆ Architecture and urban development ◆ Structural mechanics ◆ Design, construction and maintenance of civil infrastructures ◆ Science of building materials ◆ Geotechnics ◆ Pavement structure and quality control ◆ Port and coastal infrastructure ◆ Sanitary engineering ◆ Geodesy and geographic information systems ◆ Territorial planning
Dra. Casilda Saavedra	
Logistics and Transportation	<ul style="list-style-type: none"> ◆ Risk Management ◆ Supply chain analysis ◆ Modeling and analysis of multimodal transport ◆ Modeling, simulation and control of railway systems ◆ Information systems ◆ Operations research and optimization ◆ System dynamics analysis
Dra. Aranzazu Berbey Álvarez Dra. Zoila de Castillo	
Economy and Society	<ul style="list-style-type: none"> ◆ Monitoring and evaluation of public policies ◆ Sociological research and public opinion studies ◆ Studies about the education system ◆ Studies about citizen security ◆ Studies about impact of violence and criminality ◆ Studies about urban development ◆ Social studies from a gender perspective
Mgtr. Danilo Toro	

