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Undergraduate Research Program

Project Name	Integrated Product, Process and Manufacturing System Development
Campus & Location in Mexico	Ciudad de México
Faculty	Engineering and Sciences
Research Area	Engineering and Industry
Research Responsible	Arturo Molina-Gutiérrez Ph.D.
Description of the Project	The project seeks to provide technology-based solutions to different industry applications through the implementation of the reference model called "Integrated Product, Process and Manufacturing-System Development (IPPM)" Therefore, students are participating in the design and development of new products, manufacturing processes and facilities. Therefore, they must apply emerging technologies and techniques to provide adequate and innovative solutions. Students are involved in real cases and problems where through case studies they must document the use of emerging technologies and practices to provide appropriate solutions. Also, students could propose new methodologies, techniques, and practices to be implemented during these processes.
Training Provided	Soft competencies such as critical thinking, collaboration, communication, creativity, and open innovation. Hard competencies through the implementation of emerging technologies and techniques, and the design and implementation of digitalisation, virtualisation, and connectivity tools.

Offered during:

SUMMER

WINTER

SEMESTER

Student

Tasks/Responsibilities	Participate in collaborative groups for the design, development and implementation of projects that must be documented in scientific products.
Required Language Proficiency	English
Required Skills and Abilities	All areas are invited to join this project. Prior knowledge in the engineering field is desirable. Also, previous knowledge about design thinking, electronic, control, programming, CAD, Digital Manufacturing, Life Cycle Assessment, Product-Lifecycle Management Systems can be useful.
Other Documents	<ol style="list-style-type: none"> 1) Being at least in your 2nd year of bachelor 2) Accumulative grade point average (GPA) 2.5 3) Official Transcript 4) 2 letters of recommendation of faculty members 5) Resume 6) Letter of intention explaining the reason why you would like to participate in the research program