The IPPD program is an innovative educational initiative at the College of Engineering, University of Florida. Over two semesters, (eight months), in weekly classes, we teach students from various engineering and business disciplines how to design products and processes. Then, working in small multidisciplinary teams under the guidance of faculty coaches and industrial liaison engineers, our students design and build authentic industrial products.

- That design involves not just product function but also productivity, cost, schedule, reliability, quality, customer preferences and life cycle issues
- How to complete projects on time and within budget
- That engineering is a multidisciplinary effort

Provides solutions to your important design projects. IPPD utilizes development methodologies proven over seventeen years with more than 2200 students participating in 406 faculty-coached undergraduate design teams. The program provides classroom and laboratory experiences that show:
- How fundamental engineering science is relevant to effective product and process design
- That design involves not just product function but also productivity, cost, schedule, reliability, quality, customer preferences and life cycle issues
- How to complete projects on time and within budget
- That engineering is a multidisciplinary effort

practical maturity
Working in multidisciplinary teams of four to seven, students get important practical experience in teamwork, and in developing their leadership, management, communication, and people skills.

Advantages of integrating product and process design are well recognized by industry. Concurrent design of products and processes improves product costs and quality and reduces time-to-market. Students who have worked on real-life projects and know how to work in teams are more valuable as employees. They also recognize the importance of communication among different engineering and business disciplines.
Industry participation offers benefits such as:

- An opportunity to influence the education of potential employees
- Completion of an important project for your company by a multidisciplinary faculty-coached student design team at very competitive costs
- Provides your company valuable interaction with faculty who have interest and expertise in technical areas of your business
- Gain visibility with our students and be able to identify and recruit the best graduates

We invite you to join us and realize the many benefits of our Integrated Product and Process Design program. We are seeking industrial projects, your interaction with student teams, and an educational grant to cover the costs anticipated with the project.

Each project is scoped at 600 to 800 student engineering hours. Sponsor companies pay $23,000 per project and provide access to a liaison engineer for several hours a week. Industry funding is leveraged by funding from the State of Florida.

Sponsor companies own the design but agree not to hold students or the University responsible for the final success of the project or any product liability. Unless specifically requested by the sponsor company, students will be allowed to discuss and display the project. If required, we will sign a non-disclosure agreement.

Please contact us to discuss the definition of an appropriate project. We would be delighted to visit your facility for a planning meeting.

Projects may include, but are not limited to, the design (or redesign) and manufacture of a new or derivative product, manufacturing process, test apparatus, chemical process, or software system, including consideration of the following:

- Design of associated manufacturing processes and facility layout
- Redesign for cost, quality, performance, productivity, automation, etc.
- Physical prototyping
- Modeling, simulation and analytical prototyping
- Firmware
- Software requirements specifications
- Business case

for more information

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