

IPRO NxtGen Faculty Associates Engaging IIT Faculty Members in the IPRO 2.0 Experience

Motorola Solutions Foundation | Innovation Generation Grant Program

Aim: Support continued development and prototyping of the IPRO 2.0 model through the IPRO 397 Interprofessional by Design course that has three prominent threads:

1. building an interprofessional foundation
2. learning and applying design thinking and thereby
3. forming core collaborative innovation teams that shape compelling IPRO project concepts that can create value.

Context: The format for IPRO 397 is a workshop in the Idea Shop that meets once a week in a double session (Thursdays from 3:15 to 5:55 and Fridays from 9:00 to 11:40). There are 50+ students representing a rich cross-section of undergraduate disciplines enrolled in each section.

Goal for Faculty Outreach and Engagement: Our goal is to create awareness and stimulate interest about IPRO NxtGen among our faculty from all IIT colleges that encompass applied technology, architecture, business, design, engineering, law, psychology, and science and letters. We aim to accomplish this by engaging regular IIT faculty members to serve as an “IPRO NxtGen Faculty Associate” in the IPRO 397 course. The four roles and responsibilities of an IPRO NxtGen Faculty Associate are:

- Interact with IPRO 397 student teams in the Thursday or Friday workshop session:
 - Offer expertise from a diversity of fields, i.e., technical sounding boards for ideas
 - Consider serving as candidate IPRO instructors for IPRO projects that are incubated in IPRO 397
- Serve as a “college gatekeeper” – a resource role to refer IPRO NxtGen students to other faculty within a college who could:
 - critique or provide specific guidance or
 - become candidate IPRO instructors for projects incubated in IPRO 397
- Participate with the IPRO 397 instructor team for at least eight weeks during the semester by becoming acquainted with the 10-student “pods” that incorporate two IPRO idea generation teams.
- Consider IPRO 397 complex problem solving methods and best practices that may be transferable to other IPRO 497 projects/teams and other IIT project-oriented courses, including:
 - Framework and methods for an interprofessional foundation:
 - Teamwork
 - Communication
 - Project management
 - Leadership and
 - Ethical decision making

- Framework and methods for user-centered design:
 - The Innovation equation and Balanced breakthroughs
 - Need finding / Framing a problem space
 - User research and analysis
 - Conceptual frameworks / Points of view
 - Concept generation / Ideation / Brainstorming
 - Prototyping strategy and methods
 - Value creation / Evaluation / Opportunity Assessment

Faculty Development Stipend: \$2,000 from the IPRO Program supported by a grant from the Motorola Solutions Foundation to support regular faculty engagement during the semester. The expectation is that the IPRO NxtGen Faculty Associates will: (1) participate in at least eight IPRO 397 classes in one of the IPRO 397 sections (Thursday afternoons or Friday mornings), (2) serve on a judging panel at IPRO Day, (3) provide regular written reflections on the IPRO 397 class and how the methods can be applied in IPRO 497 or other IIT courses, and (4) serve in a structured fashion to share expertise with the student teams.

The IPRO 397 Interprofessional by Design syllabus is incorporated by reference and offers a detailed view of the weekly schedule of IPRO 397 activities.