



HANS VAN OOSTROM, PH.D.

FOUNDING CHAIR &
ASSOCIATE PROFESSOR,
ENGINEERING EDUCATION

Founded in 2019, the University of Florida's **Department of Engineering Education (EEd)** in the Herbert Wertheim College of Engineering specializes in engineering education research and the delivery of innovative and effective instructional methods in engineering undergraduate courses, as well as assessment.

Our faculty design and teach large enrollment undergraduate engineering courses that span

multiple majors using methods that promote conceptual understanding and student retention.

We perform research into the effectiveness of learning methods, and continually strive to improve and adapt course content and delivery methods to serve students and faculty.

RESEARCH AREAS

TECHNOLOGY-ENHANCED EDUCATION

Considers the use of any type of technology (e.g., cell phones, apps, virtual reality, artificial intelligence, serious educational games) to enhance the educational experience of students

PROCESSES AND THINKING

Focuses on how learners execute human-centered, solution-focused ways to solve a complex engineering problem. Execution can include cognitive, affective, and behavioral processes

BROADENING PARTICIPATION

A scientific endeavor that allows for the rigorous study of factors that impede persistence, retention, and completion in engineering. Its focus is to build capacity in academic and workplace settings

MENTORING AND SUPPORT

The study of the professional and educational alliances created, formally or informally, to best support the engineering career progression

FORMATION OF ENGINEERS

The study of the formal and informal processes and value systems across the educational lifespan (cradle to grave) by which individuals become engineers

RESEARCH METHODS & APPROACHES

Focuses on the development, validation, and use of inter- and multi-disciplinary research tools, approaches, and methods used to study various engineering education and workforce issues

FACTS & FIGURES

3,400

ENGINEERING STUDENTS

TAUGHT BY US DURING THE
2022-23 ACADEMIC YEAR

168

SCHOLARSHIPS
GENERATED TO DATE

62

INNOVATIVE COURSE
TECHNIQUES

1,200

FIRST-YEAR STUDENTS

TAKING ENGINEERING DESIGN &
SOCIETY COURSE EACH YEAR

34

NATIONAL &
INTERNATIONAL
AWARDS

18

COMMUNITY
PROGRAMS &
INITIATIVES

13

INNOVATIVE COURSE
TOOLS & PROGRAMS



OUT OF 23 FACULTY
MEMBERS, 60% ARE
WOMEN WHILE 56%
COME FROM A DIVERSE
BACKGROUND

IPPD

INTEGRATED PRODUCT &
PROCESS DESIGN

is an experiential education program where interdisciplinary engineering teams of senior-level undergraduates work for two semesters under the guidance of a faculty expert in designing, building and testing projects for industrial sponsors.

93

STUDENTS

17

PROJECTS

15

INDUSTRY
SPONSORS

9

ENGINEERING
PROGRAMS

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*Numbers above reflect the 2023-24 academic year