

**ME 55400
INTELLECTUAL PROPERTY**

Course Outcomes

1. Understand and practice the basics of *defining inventions*. [2, 3, 7]
2. Learn basics of *patents, trade secrets, trademarks, copyrights*. [3, 4, 7]
3. Understand *licensing and infringement* of intellectual property. [3, 4, 5]

Intellectual Property Classes and Definitions (4 wks)

1. Breadth of definitions
2. Diversity of definitions
3. Genus/Species
4. Plant Patents
5. Trade Mark and Copyright basics

Typical Examples

- From Apparatuses and Machines
- From Methods
- From Compositions of matter
- From Articles of Manufacture
- From Abstract ideas and Business Methods

Intellectual Property (Typical Project) (4 wks)

Understanding and Analyzing an Intellectual Property items in all its dimensions and nuances.

Patents and Trade Secrets (5 wks)

1. Subject matter
2. Types of patents
 - Utility
 - Design
 - Plant
3. Term of patents
4. Standard of prior art
5. Obviousness
6. Licensing
7. Infringement

Trademarks and Copyrights (2 wks)

1. Types of Trademarks
2. Copyright issues
3. Copyrighting software codes

Employment, Confidential Disclosure, and General IP issues (1 wk)

1. Obligations to Assign to employer
2. Confidential Disclosures
3. Trade Secret obligation of employees

Licensing and Infringement (2 wks)

1. Exclusive/nonexclusive
2. Commercialization considerations
3. Working with attorneys

1. COURSE NUMBER AND NAME: ME 55400 Intellectual Property

2. CREDITS AND CONTACT HOURS: 1 credit

a. Lecture – 1 day per week at 50 minutes for 16 weeks

3. COURSE COORDINATOR OR INSTRUCTOR:

D.H.R. Sarma

4. TEXTBOOK:

No Text Required

5. SPECIFIC COURSE INFORMATION:

a. **Catalog Description:** Survey of the law of patents, trade secrets, trademarks and copyrights with special emphasis on the process of defining inventions broadly and diversely. Obtaining, registering, licensing and infringement basics of intellectual property.

Typically offered in both Fall and Spring Semesters

b. **Prerequisites:**

Junior Standing in Science or Engineering

c. **Status:**

Elective

6. SPECIFIC GOALS FOR THE COURSE:

a. **Course Outcomes:**

1. Understand and practice the basics of *defining inventions*. [2, 3, 7]
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3. Understand *licensing* and *infringement* of intellectual property. [3, 4, 5]

b. **RELATED ME PROGRAM OUTCOMES:**

1. Engineering fundamentals
2. Engineering design
3. Communication skills
4. Ethical/Prof. responsibilities
5. Teamwork skills
6. Experimental skills
7. Knowledge acquisition

PREPARED BY D.H.R. Sarma

REVISION DATE: June 12, 2019