ENGR 310

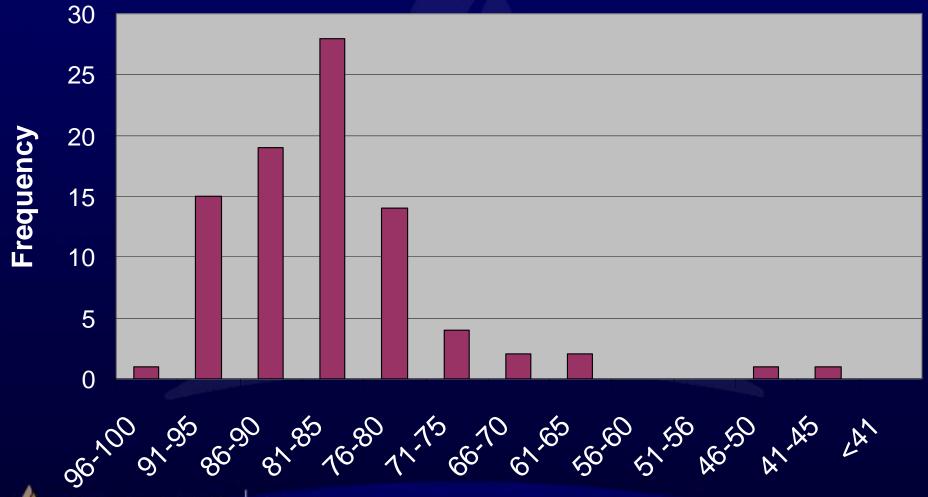
Lecture 24

21 April 2008



Exam Results

mean = 83, s.d. = 9





Exam Results

- Scores posted outside my office
- You will be able to view your graded exam in recitation this week
- I would like to keep the exam papers so that I can improve the test
 - Thank you!

Posters

- Dr. Plumb will lead a class on effective poster design on April 25.
- Design Fair on May 1.
- Poster Design Awards in class on May 2.

Design Fair

- 12:00 6:00 p.m., Thursday, May 1.
- By Thursday, email me with:
 - Project title
 - Schedule for who will attend your poster, when
 - Time when entire team will be present
 - Whether you need electrical power
 - Any other special needs
- Room opens at 7:00 a.m. for set-up



Know-How

- Good design engineers must:
 - acquire deep and broad technical understanding
 - develop ability to apply it
- How?
 - Research
 - Modeling
 - Experimentation

You must become domain experts in your project topic areas.

Intellectual Property

ownership of ideas, concepts and other intangibles

IP Protection

- Trade secrets
 - no time limit
 - "stealing" is legally protected
 - but, reverse engineering is also legal
- Trademarks
 - names, logos, symbols used to identify a good
 - unlimited renewals

IP Protection, cont.

- Copyright
 - artwork, books, articles, music
 - protects form of expression, but not idea
 - for 50 years after owner's death
- Patents
 - 20 years of protection in exchange for sharing the idea.

3 kinds of Patents

- Utility
 - products, processes, machines, materials, chemical compounds, etc.
- Plant
- Design
 - Form and shape

- Novelty
- Usefulness
- Non-obviousness

- Novelty
 - First it invent (not first to apply)
 - demonstrably different than prior technology
 - diligence to reduce to practice without a period of abandonment
 - prior disclosure < 1yr.
- Usefulness
- Non-obviousness



- Novelty
- Usefulness
 - practical utility
 - specific
 - demonstrable
 - substantial
- Non-obviousness

- Novelty
- Usefulness
- Non-obviousness
 - more than addition/duplication of components
 - more than "ordinary skill" required

Applying for a Patent

- Called a "patent disclosure"
- www.uspto.gov

