

IENG 542 Advanced Production Control
Spring 2014
CRN: 11801, Section: 001

Objective: To educate students in the area of advanced production planning and control. Analysis and understanding of various aspects of static and dynamic production control systems.

Prerequisite: IENG 350 or consent

Instructor: B. Gopalakrishnan, Professor and Director of the IAC, 325D MRB, Phone: 293 9434.
Email: bgopalak@mail.wvu.edu, Office Hours: Thursday 4-5 or by appointment

Topics:

- Fundamentals of production and operations management.
- Production planning and control methods for the job shop and flow shop
- Industrial forecasting
- Product strategies
- Process strategies and capacity planning
- Plant layout and location
- Inventory management and JIT
- Materials Requirement Planning (MRP) and MRP II
- Aggregate planning
- Production scheduling
- Energy Management – how does it impact production planning and control?
- Case studies

Text book: Production and Operations Management, Heizer, J., Render, B., Prentice Hall, 10th Edition.

Grade: Quizzes – 20% - Quizzes can be given any class period
Exam – 20%, March 6, 2014
Homework, projects - 20%
Discussion of case studies, and miscellaneous in class activities – 5%
Final Exam – 35% (last day of class)

Statement on Attendance:

Student attendance is mandatory unless excused by the instructor. The basis for an excused absence will follow University and IMSE policy. Students who are absent from class for any reason are responsible for all missed work. Students absent for a scheduled exam or test will not be given a make-up examination or test without a reasonable excuse in the view of the instructor based on appropriate verifiable documentation presented by the student. If any test or exam is allowed to be made up, they will be given along with the final exam. Students who miss the final exam will not be given a make-up exam without a reasonable excuse in the view of the instructor based on appropriate verifiable documentation presented by the student.

Statement on Social Justice:

West Virginia University is committed to social justice. I concur with that commitment. I expect to foster a nurturing learning environment that is based upon open communication, mutual respect, and non-discrimination. Our University does not discriminate on the basis of race, sex, age, disability, veteran status, religion, sexual orientation, color or national origin. Any suggestions as to how to further such a positive and open environment in this class will be appreciated and given serious consideration. If you are a person with a disability and anticipate needing any type of accommodation in order to participate in this class, you must make appropriate arrangements through Disability Services (293-6700). They will identify the nature of the accommodation your disability requires.