Placement Exam
MBA 612- Manufacturing and Service Systems

MBA 612 Exam Details:
- 30 multiple choice and 2 short answers
- Open book
- Calculator Permitted
- Time Limit: 3 hours
- Passing score= 70%

MBA 612 Exam Content:
Exam takers should focus on the following content:
- Linear programming applications to Operations Management
  - Modeling OM problems as linear programs
  - Solving problems using the graphical method
- Queueing systems applications
  - Single server results
  - Little's Law calculations
- Forecasting
  - Exponential smoothing
  - Regression
  - Measures of forecast accuracy
- Aggregate Planning
  - Problem definition
  - Modeling
- Inventory Management
  - Reorder point
  - Order quantity and total cost models
  - Safety Stock
  - Service level calculations
- Project Planning and Scheduling
  - PERT
  - CPM calculations
- Production Scheduling
  - Dispatching rules
  - Theory of Constraints
  - Finite scheduling
- Statistical Quality Control Methods
  - Analysis of acceptance sampling plans
  - Statistical process control calculations
- Quality Management
  - ISO 9000
- TQM methods and tools
- MRP/ERP Systems Design and Operation
  - Inputs
  - Outputs of MRP
  - Explosion Process
- Assembly Line and Facility Layout
  - Line balancing methods
  - Facility layout modeling approaches