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RARITAN VALLEY COMMUNITY COLLEGE ACADEMIC COURSE OUTLINE

BUSI 117 Inventory Management

I. Basic Course Information

A. Course Number and Title: BUSI 117 Inventory Management

B. New or Modified Course: NEW

C. Date of Proposal: Semester: Spring Year: 2022

D. Effective Term: Fall 2022

E. Sponsoring Department: Business and Public Service

F. Semester Credit Hours: 3 Credit Hours

G. Weekly Contact Hours: 3 Lecture: 3
Laboratory: N/A
Out of class student work per week: 6

H. Prerequisites/Corequisites: N/A

I. Laboratory Fees: None

J. Name and Telephone Number or E-Mail Address of Department Chair and Divisional Dean at time of approval:

Tracy Rimple, Department Chair,
Email: tracy.rimple@raritanval.edu
Phone: 908-526-1200 ext. 8321

Dr. Patrice Marks, Divisional Dean
Email: Patrice.Marks@raritanval.edu
Phone: 908-526-1200 ext. 8802

II. Catalog Description

This course is an introduction to inventory management and control. Topics include: inventory fundamentals, forecasting demands, production systems, warehouse management, outsourcing, and inventory planning trends.

III. Statement of Course Need

- A. Understanding the latest manufacturing and control paradigms is critical to efficient and effective production of goods and services. Emphasis will be placed on how successful businesses design products to be manufactured at the right time, in the right quantities, following quality specifications most cost-efficiently.
- B. No lab component
- C. This course generally transfers as a free elective or business elective.

IV. Place of Course in College Curriculum

- A. Free Elective
- B. This course serves as a Business Elective
- C. This course meets a program requirement for the Supply Chain Management Certificate of Completion.
- D. To see course transferability: a) for New Jersey schools, go to the NJ Transfer website, www.njtransfer.org; b) for all other colleges and universities, go to the individual websites.

V. Outline of Course Content

- A. Supply Chain Focused Manufacturing Planning & Control
- B. Forecasting Demand
- C. Sales & Operations Planning / Aggregate Production Planning
- D. Master Production Scheduling
- E. Supply Chain Focused Inventory Management
- F. Material Requirements Planning Production Systems
- G. Just in Time-Lean Production
- H. Push & Pull Production Systems
- I. Capacity & Warehouse Management
- J. Production Planning & Control for Remanufacturing
- K. Supply Chain ----Focused Outsourcing
- L. Manufacturing Focused Supply Chain Integration

VI. General Education and Course Learning Outcomes

A. General Education Learning Outcomes:

At the completion of the course, students will be able to:

1. Identify appropriate inventory strategies used in a manufacturing and/or service enterprise. (GE-2)
2. Apply inventory management and control concepts in planning and forecasting. *
(*Embedded critical thinking)

B. Course Learning Outcomes:

At the completion of the course, students will be able to:

1. Summarize the procedures and issues involved in supply chain inventory and planning
2. Outline the basic types of inventories and their functions
3. Develop inventory strategies
4. Analyze tradeoffs between inventory control and customer service levels
5. Examine forecasting demands and the impact on planning & inventory management

C. Assessment Instruments

Given the outcomes described above, the following assessment methods may be used:

1. case studies
2. essays
3. exams

VII. Grade Determinants

The following factors may enter into the determination of the final.

- A. homework
- B. discussion questions
- C. exams
- D. case Study

Given the goals and outcomes described above, the primary formats, modes, and methods for teaching and learning that may be used in the course:

- A. lecture/discussion
- B. small-group work
- C. computer-assisted instruction
- D. guest speakers
- E. student collaboration

VIII. Texts and Materials

- A. Inventory Management: Supply Chain Focused Manufacturing Planning & Control (1st Edition) W.B. Benton (Cengage) ISBN: 9781133586815
- B. Web sources
- C. Periodicals

Please Note: The course outline is intended only as a guide to course content and resources. Do not purchase textbooks based on this outline. The RVCC Bookstore is the sole resource for the most up-to-date information about textbooks.

IX. Resources

- A. Access to Library Resources/Databases

X. Honors Options N/A