Master Course Syllabus

Department: Engineering Technology  Course Prefix/Number: MET 4763
Official Course Title: Automated Manufacturing Systems
Master Syllabus Approved by Department on: 08 / 11 / 04

I. Catalog Description: An analysis of materials flows to design automated
manufacturing systems in the manufacturing environment. This will include material
handling systems, how computer-aided manufacturing software improves
productivity, automated storage and retrieval systems, automated guided vehicles,
bar-coding systems, automated warehousing, and the programming and application of
robotics.

II. Prerequisites: MET 3363, 3863.

III. Expanded Course Description: The focus of the course is to provide the student
with a basic knowledge of the role of manufacturing automation in providing the
manufacturer with a technology competitive edge. It deals with the application (not
the design) of robots and manufacturing automated systems, including familiarity
with automated material handling systems, automated storage and retrieval systems,
avtomated guided vehicle systems, bar-coding systems, automated warehousing
systems, computer integrated manufacturing, flexible manufacturing systems, and the
application of robotics. A term project, regarding one of the many topics of the
course, is researched and presented to the class.

IV. Knowledge Outcomes: Students are expected to have knowledge of the importance
and the basics of the following topics; CAD/CAM, CIM, FMS, robotics basics, DFM,
and other concepts and practices of Automated Manufacturing Systems. Some depth
in a particular topic will be obtained by the student through the term project.

V. Unless otherwise stipulated in this master syllabus by the department, the following
items are subject to faculty discretion as described in each faculty member’s
individual course outline/syllabus:

a) Course Requirements? (grading/evaluation procedures; class attendance policy;
term papers, projects, field assignments; examinations; class participation, etc.)

b) Required Text(s)?

b) Bibliography?

VI. Academic Honesty: Cheating, plagiarism (submitting another person’s materials or
ideas as one’s own), or doing work for another person who will receive academic
credit are all-impermissible. This includes the use of unauthorized books,
Notebooks, or other sources in order to secure or give help during an examination, the unauthorized copying of examinations, assignments, reports, or term papers, or the presentation of unacknowledged material as if it were the student’s own work. Disciplinary action may be taken beyond the academic discipline administered by the faculty member who teaches the course in which the cheating took place.

VII. Students With Disabilities Policy: It is the policy of Tarleton State University to comply with the Americans with Disabilities Act (ADA) and other federal, state, and local laws relative to the provision of disability services. Students with disabilities attending Tarleton State University may contact the Office of Disability Services at (254) 968-9478 to request appropriate accommodation. Furthermore, formal accommodation requests cannot be made until the student has been officially admitted to Tarleton State University.

Department Head Signature/Date:

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Signature        Date