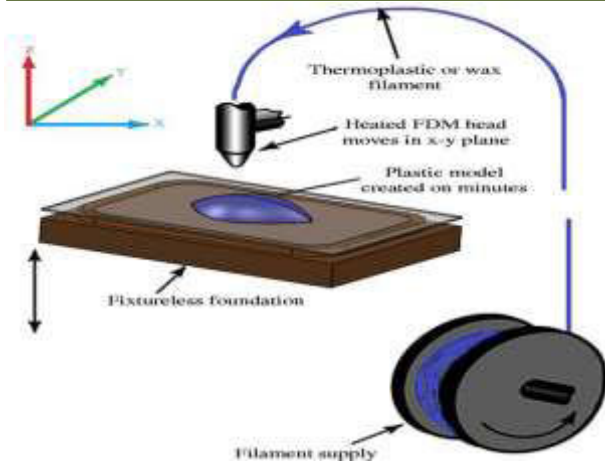


PRINCIPLE OF 3D PRINTING (FDM)



A graduate student in this Programme is expected to have a strong analytical and mathematical background and possess the ability to use specialized software applications within this context.

We encourage you to visit our website for details of the [MEM programme](#) and [application guidelines](#).

CNC VERTICAL MILLING



FOR MORE INFORMATION

Secretary

M.Sc. Manufacturing Engineering
and Management Programme
Department of Mechanical and
Manufacturing Engineering

Tel: (868) 662-2002 ext. 82068/82170

Email: MEM@sta.uwi.edu



Scan this code to get more information from our website

For further details, you may also visit
our website:

<https://sta.uwi.edu/eng/cnclab/>

Faculty of Engineering
The University of the West Indies (UWI)
St. Augustine, Trinidad, W.I.



UWI

ST. AUGUSTINE CAMPUS

Department of Mechanical & Manufacturing Engineering



M.Sc. MANUFACTURING ENGINEERING & MANAGEMENT

INFORMATION BROCHURE

Programme Aims and Objectives

To provide advanced education and training for graduates in Mechanical Engineering and equivalent graduates of accredited degree programmes to meet current and future needs of manufacturing and allied industries.

To provide Mechanical Engineering Graduates and equivalent Graduates with a deeper understanding of knowledge required for designing products, tools and manufacturing systems.

Output:

A competent Manufacturing Engineer capable of combining technical, professional and managerial skills and capabilities.

Structure of Programme

Part-time students: Normally expected to complete the examination requirements within four (4) semesters and complete the Project in accordance with the relevant University Regulations.

Full-time students: Normally expected to complete the examination requirements within two (2) semesters and complete the Project in accordance with the relevant University Regulations.

The Programme consists of six (6) Compulsory courses and four (4) Optional courses that are grouped under two major Subject Areas and a Final Project. Each course carries three (3) credits and the Final Project carries nine (9) credits.

Programme - Course Listing

Compulsory Courses

Course Code	Course Title
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MENG 6200	Production Technology
MENG 6207	Computer Integrated Manufacturing
MENG 6306	Advanced CAD/CAM for Product Realization
MENG 6400	Production Planning & Control
MENG 6504	Technology & Product Development
MENG 6508	Research Methods
MENG 6600	<u>Final Project</u> (On Successful Completion of 10 Courses)

Optional Courses

Group A: Manufacturing Engineering Two (2) courses from the following:

Course Code	Course Title
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MENG 6203	Robotic Technology & Applications
MENG 6302	Design of Plants & Services
MENG 6305	Finite Elements Analysis in Manufacturing
MENG 6307	Design & Simulation of Manufacturing Systems
MENG 6701	Asset Maintenance Technologies

Group B: Manufacturing Management Two (2) courses from the following:

Course Code	Course Title
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MENG 6505	Health, Safety & the Environment
MENG 6405	Total Quality Management
MENG 6506	Project Management
MENG 6700	Strategic Asset Management

Requirements for Award of MSc

Candidates are required to obtain a total of thirty (30) credits:

Six Compulsory Courses - 18 credits

Four Optional Courses

Two from Group A - 6 credits

Two from Group B - 6 credits

Upon attainment of thirty (30) credits, candidates are required to undertake an Industry-Oriented Project worth 9 credits.

Who Should Enroll

The Programme would be most useful to Engineers and Managers holding responsibilities for Planning, Design & Development, Production/Operations, Plant Maintenance, and Projects in Manufacturing and Service Industries.

Regulations

The General Regulations of the University and Faculty of Engineering for M.Sc. Degrees shall apply.

Entry Requirements

The requirements for admission to the Programme are as follows:

- ❖ **A B.Sc. Degree** in Mechanical, Production, Manufacturing, Industrial Engineering or equivalent with at least a Lower Second Class degree.
- ❖ **At least one (1) year of industrial experience** is desirable. This may be waived for Recent Graduates with First or Upper Second Class Honours degrees, who wish to complete the program on a Full-Time basis.
- ❖ Applicants with Third Class or Pass degrees require at least three (3) years industrial experience.