

DEPARTMENT OF MECHANICAL & MANUFACTURING ENGINEERING

# UNDERGRADUATE STUDENTS' GUIDE



*This Undergraduate Students' Guide should be your companion as you navigate through your programme in the Department of Mechanical and Manufacturing Engineering.*

*It provides information on some necessary procedures and resources to help you easily assimilate into Department and enrich your experience.*

*Please note that this is not a substitute for University and Faculty guidelines with which students are expected to familiarise themselves.*

2026/2027  
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# FOREWORD

Welcome! We're hoping that at the end of your academic stint with us that you'll transition into a productive member of society with the knowledge and tools you need to serve others effectively. You will be essential to society to help in its innovation transformation. Engage fully in your classes and workshop/laboratory experiences. Take the time to ponder topics taught; discuss them with your colleagues and seek clarification on unclear concepts from your lecturers or teaching assistants. Get to know your classmates and create study groups. When you graduate, your classmates will be a valuable professional and support network. Join the student societies and participate fully.

This student guide seeks to equip you with current and relevant information which will facilitate your aim. It outlines:

- How students are expected to conduct themselves,
- How to access the University's support systems,
- The role and execution of the mentor-protégé system and
- How to access resources needed for academic excellence (such as offsite access to computer software).

Links are provided, where necessary, to more in-depth documentation of the rules, regulations and resources you need to be aware of. The Department of Mechanical and Manufacturing Engineering is committed to providing an environment which facilitates your success. Please refer to this guide for initial enquiries about any of your concerns.

If you still have questions, email either [STA-Mechanical.Engineering@uwi.edu](mailto:STA-Mechanical.Engineering@uwi.edu) or [STA-AdminAssistant.MECHENG@uwi.edu](mailto:STA-AdminAssistant.MECHENG@uwi.edu) for further clarification and we will respond forthwith.

We wish you an enjoyable and productive period of study!

**Chris Maharaj, Ph.D.**  
**Head of Department**



# OUR VISION & MISSION

*Our vision is to be...*

*“A globally competitive  
academic engineering  
department  
rooted in the Caribbean.”*



*Our mission is...*

*“To provide quality education,  
advance technology and deliver solutions  
for regional and global development  
thereby improving the standard of living.”*



# 1. INTRODUCTION

**Mechanical Engineering** is concerned with the design, manufacture, testing, operation and maintenance of various types of components, machinery, structures and industrial plants as well as the executive management of industries. Mechanical Engineers are employed in a wide range of fields including utilities, processing, robotics/automation, manufacturing, aerospace and automotive.

**Industrial Engineering** is concerned with the identification, analysis and synthesis of the various components (people, machines, materials, management and money) that are necessary for the design, construction and operation of systems and organisations that produce goods and/or services of high quality. Industrial Engineers therefore provide the necessary technological and management inputs for rational and effective decisions, and to control these inputs to ensure objectives are met.

**Biosystems Engineering** (which has replaced Agricultural Engineering) is defined as the application of engineering principles to modern food and fibre production, and to bulk handling, storage and processing systems for biological products. It covers the areas of mechanisation (field, transport and plant), land and water development, infrastructural development, post-harvest technology and food engineering, including food plant machinery.

## PROGRAMMES

The Department has several undergraduate and postgraduate programmes. These include:

*BSc programmes in:*

- BSc Industrial Engineering (See **Appendix A** for details)
- BSc Mechanical Engineering (See **Appendix A** for details)
- BSc Mechanical Engineering with a Minor in Biosystems (See **Appendix A** for details)

*MSc programmes in:*

- MSc Engineering Asset Management
- MSc Engineering Management
- MSc Manufacturing Engineering Management

MPhil and PhD research programmes are available.

Please refer to the following link for more information:

<http://sta.uwi.edu/faculty-booklet-archive>





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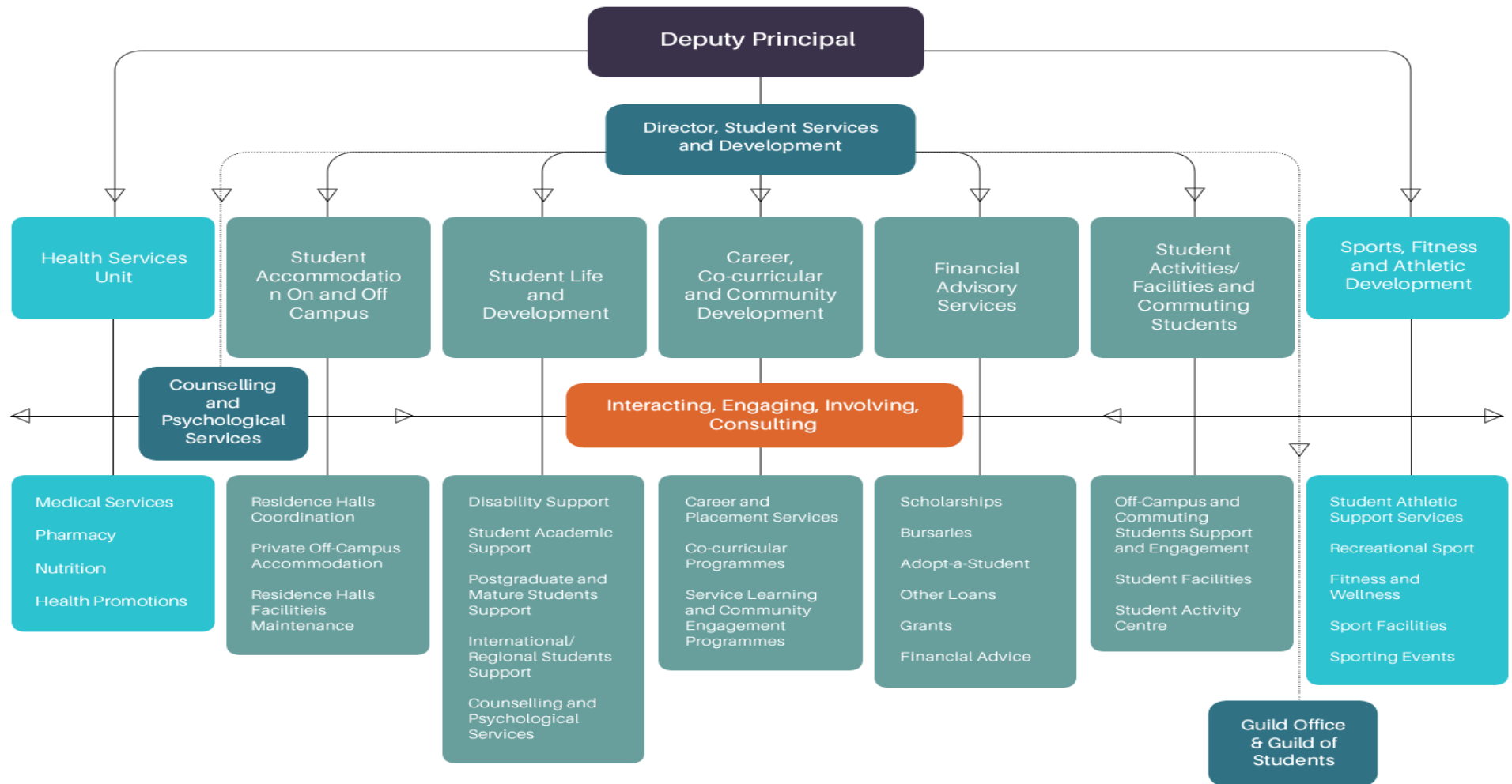
***As the most important stakeholders of the University, students are expected to seek the welfare and advancement of the institution and to protect it from misuse, abuse and all other detrimental activities and influences.***

## 2. STUDENT'S RESPONSIBILITIES

It is the **responsibility of each student** to:

1. **READ THE UNDERGRADUATE STUDENTS' GUIDE and ENGINEERING FACULTY BOOKLET – Undergraduate Regulations & Syllabuses**—in addition to other relevant documents (available at the University's website: <http://sta.uwi.edu/>) **thoroughly**. These publications are intended to provide details of university regulations and other useful information for compliance and success at the University.
2. Bring any issues/problems as they arise, to the attention of relevant person – Class Representatives, Mentors, Lecturers, Level Coordinators or the Head of Department.
3. Be aware of and engage the various facilities of the Student Support Services as illustrated in Section 3 (pp 4).
4. Endeavour to attend all classes, tutorials, laboratory sessions and field visits.
5. **LOG IN TO THE MYEARNING PORTAL REGULARLY** to access information regarding class and laboratory schedules; in-course examinations; assignment deadlines; examination timetables; consultations with staff and other information, including changes necessary for the proper conduct of the academic programmes.
6. Adhere to appropriate codes of conduct particularly in physical/virtual classrooms and laboratories (a code of conduct is displayed in each lab).
7. Endeavour to be present and on time for classes, tutorials, laboratories sessions and examinations and submit all assignments by the stipulated deadline.

### 3. ORGANISATIONAL STRUCTURE OF THE DIVISION OF STUDENT SERVICES AND DEVELOPMENT



For more information, please visit the following:

[Division of Student Services and Development \(DSSD\)](#)

Tel: (868) 662-2002 ext. 82099, 82096

Email: [studentservicesanddevelopment@sta.uwi.edu](mailto:studentservicesanddevelopment@sta.uwi.edu)



## 4. DEPARTMENTAL SUPPORT COMMITTEES & SYSTEMS

Within the Department there are also specific committees and systems to be of benefit to our students. These include:

### 4.1 Accreditation

All programmes in the Department are accredited by the Institution of Mechanical Engineers (IMechE). Visit [www.imeche.org](http://www.imeche.org) for more information on the IMechE.

Reference: <http://www.engc.org.uk/education-skills/course-search/acad/>

### 4.2 Head of Department (HOD)

All students have access to the HOD if they have difficulties in resolving issues within the Department.

### 4.3 Level Coordinator

Each Level is assigned a Level Coordinator. Level Coordinators are available to provide academic advice on an individual basis. (Please refer to **Appendix I** for contact information).



#### 4.4 Administrative Support

There are administrative staff assigned to the BSc programmes (*Please refer to **Appendix I** for contact information*) who will provide appropriate guidance and support to BSc students as well as coordinate activities between students, lecturers, supervisors and level coordinators.

#### 4.5 Academic Mentor-Protégé System

The Academic Mentor-Protégé System pairs a student (the protégé) with a member of academic staff (mentor) who provides appropriate advice/guidance and assistance on academic and other personal matters where possible. Mechanical/Industrial Engineering Project Supervisors serve as mentors for the students they supervise. (*Please refer to **Appendix B** for listing*)

#### 4.6 Orientation

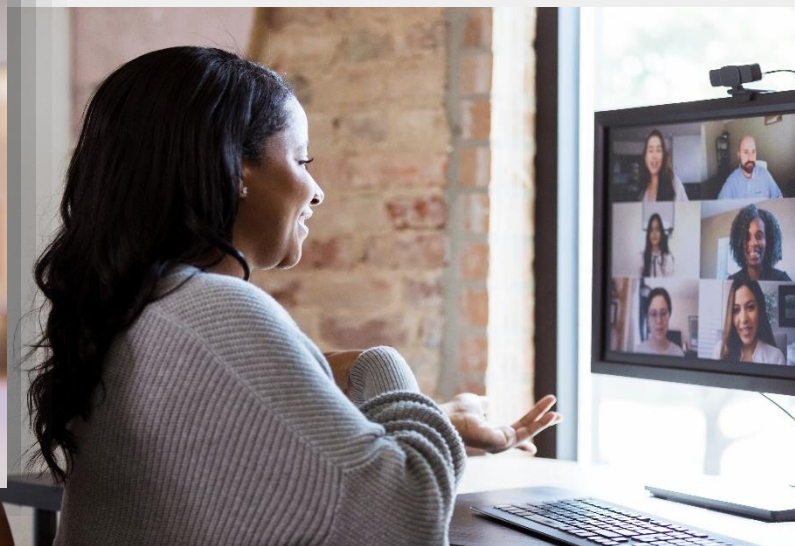
There will be a suite of orientation activities which are designed to assist the student in the transition to university life. It includes several assessment activities and introduction to various aspects of engineering. The agenda for 2026/2027 can be found [HERE](#).

#### 4.7 Help Desk

##### a. Virtual Help Desk

The Department of Mathematics and Statistics has established a [Math Help Centre](#) (MHC) to provide assistance to persons with difficulties in courses involving Mathematics and Statistics components.

The Department of Modern Languages and Linguistics has established [The Writing Centre](#) which provides writing coaching.



#### 4.8 my eLearning

The my eLearning platform is available to all **registered** students and provides access to:

- Virtual classrooms (where applicable),
- Course materials,
- Class announcements and other important information,
- Uploading of assignments,
- Turnitin software,
- Other resources stipulated by individual course lecturers.

#### 4.9 Turnitin

The University has a strong policy against plagiarism:

[https://sta.uwi.edu/resources/documents/Exam\\_Regulations\\_Plagiarism.pdf](https://sta.uwi.edu/resources/documents/Exam_Regulations_Plagiarism.pdf)

At the Departmental level, student projects will be processed through Turnitin software and results will be dealt with according to university policy as stipulated on plagiarism.

#### 4.10 Endnote Online Training Videos

There are several online Endnote training videos available via the following link: <https://www.youtube.com/user/EndNoteTraining> These are official training videos from Thomson Reuters. Additionally, you may contact the [Faculty Librarian](#) for advice and training.

#### 4.11 Library Services

##### a. [Campus Library](#)

The Campus has a Main Library - the Alma Jordan Library - which not only provides the required teaching books for the various courses in the programmes but also provides reading space, past examination papers, newspapers, databases, journals, e-Journals, as well as West Indiana and other Special Collections of academic materials required by students. Use this link for a guide to accessing e-resources <https://libraries.sta.uwi.edu/ajl/index.php/how-to/18-eresources>

##### b. **Department Library**

The Department has a BSc Mechanical/Industrial Engineering Project Library which houses some BSc projects that are made accessible to students by request.



#### 4.12 Mechanical Engineering Computer Lab

- All registered students in the Department have access to computers and software packages located in the Mechanical Engineering Lab during the hours of 8:30 a.m. and 4:30 p.m. under normal operating conditions.
- These labs are also used for teaching purposes and are therefore restricted for use during such times (the lab schedule is posted in the lab).
- Students may access the required software packages for practice or assignment purposes by downloading **trial/student licences** or purchasing full versions, at their own expense, from the developers' websites. In some cases, students will be provided with instructions to access institutional licenced versions. *(Please refer to **Appendix D** for a list of these software packages and download instructions/purchase links)*



#### NOTE:

FOR REMOTE ACCESS TO  
THE DMME COMPUTER LAB USING ZEROTIER  
REFER TO [APPENDIX D](#)



#### 4.13 Student Feedback/Course Evaluation

Student feedback is integral to improving the delivery of the programmes within the Department. In addition to having a voice at the Student-Staff Liaison Committee meetings, each student has the opportunity to provide feedback on the delivery of each course undertaken via a Student Feedback/Course Evaluation Form distributed at the end of each semester. These forms are analysed by the Centre for Excellence in Teaching and Learning (CETL) and results are sent to the HOD and the respective lecturers. Any issues/concerns raised by the students are addressed and measures are taken to resolve these issues.

#### 4.14 Student – Staff Liaison Committee (SSL)

The Student – Staff Liaison Committee meets at least once a semester and provides a platform for dialogue on matters/issues of concern toward enhancing the delivery of the programmes within the Department. This committee comprises a group of students (including Student Representatives) and staff (including the HOD and Departmental Level Coordinators). *(Please refer to **Appendix I** for listing)*

#### 4.15 Industry Liaison Committee (ILC)

The Industry Liaison Committee serves to bridge the gap between the Department and the Industry with the aim of ensuring that our graduates are a credit to the profession and relevant to the society.



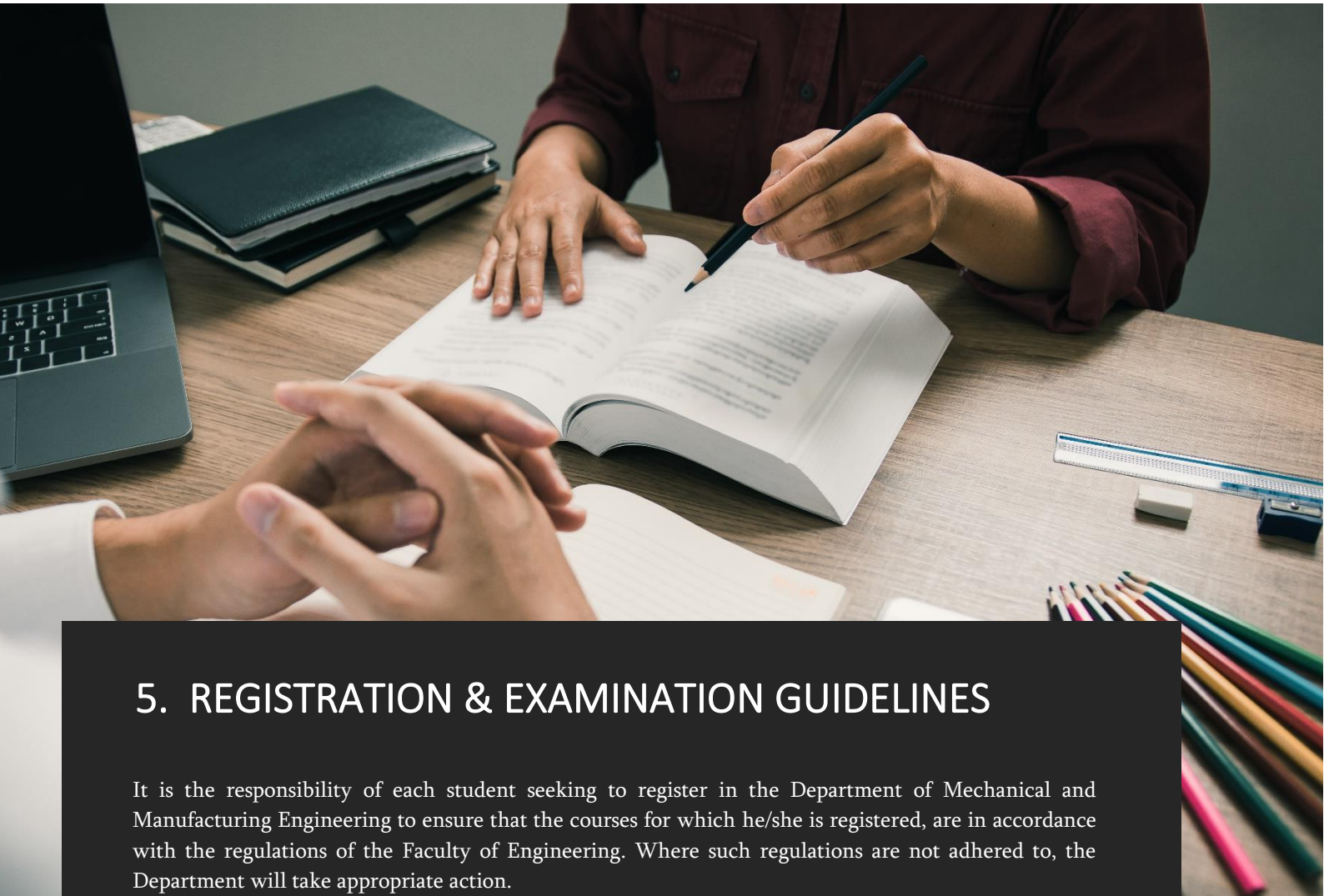
#### 4.16 Engineering Students' Society (ESS)

Students in the Department, all belong to the Engineering Students' Society, which organizes special activities for students and represents their interests in Campus Academic Board, Faculty Boards and other Committees within the Campus and University.

#### 4.17 Professional Engineering Bodies – Student Chapters

BSc students are encouraged to join local and international professional engineering bodies as Student Members. These include: the Association of Professional Engineers of Trinidad and Tobago (**APETT**); the Caribbean Academy of Sciences TT Chapter (**CASTT**) and the Institute of Industrial and Systems Engineers (**IISE**) and The Society of Manufacturing Engineers (**SME**). The Department currently has four (4) **active Student Chapters** associated with the American Society of Mechanical Engineers (**ASME**); the American Society of Heating, Refrigerating and Air-Conditioning Engineers (**ASHRAE**); the Institution of Mechanical Engineers (**IMechE**) and the Society of Caribbean Industrial Engineers (**SCIE**). (Refer to **Appendix E** for more information)





## 5. REGISTRATION & EXAMINATION GUIDELINES

It is the responsibility of each student seeking to register in the Department of Mechanical and Manufacturing Engineering to ensure that the courses for which he/she is registered, are in accordance with the regulations of the Faculty of Engineering. Where such regulations are not adhered to, the Department will take appropriate action.

*In addition, the Department has imposed its own constraints on the registration and examination process. These are listed below along with the more significant Faculty Regulations.*

### 5.1 Orientation and Academic Advising

The Department strongly advises all new students to attend the **Orientation Seminar** (which takes place before the start of the academic year) while both new and returning students are required to attend the respective **Academic Advising** sessions (which take place before the start of each semester). The dates of these sessions are posted on the Department's website and are also circulated via the respective Class Representatives. (Please refer to **Appendix F** for FAQs and schedules)

### 5.2 Pre-Requisite Courses

Pre-requisites for a given course must be passed before a student is allowed to enrol for that course. **For a list of courses and their associated pre-requisites, please refer to the current edition of the ENGINEERING FACULTY BOOKLET – Undergraduate Regulations & Syllabuses.**

### 5.3 Trailing Courses

Students must register in the first instance, for all courses being carried forward i.e. trailing courses. Students are required to attend Academic Advising and consult the respective Level Coordinators (listed in **Appendix G**) for details.



#### 5.4 Students on Grade Boundaries

Examinations at the University of the West Indies are subject to a system of second examination. Thus, scripts of students which fall just short of the passing mark have been scrutinised separately by two examiners.

After this process, there is no further consideration for “grade boundaries”. Students who have not achieved the pass mark in a specific course are deemed to have failed the course and are required to repeat it. However, the University allows students to appeal for review of the examination script with the examiner or re-mark of the examination script by an independent examiner (neither the original first nor second examiner). [As per item 141 of [The Examinations Regulations](#).

#### 5.5 Review of Examination Results

Extracted from [The UWI Assessment Regulations for First Degrees, Associate Degrees, Undergraduate Diplomas and Certificates](#) with effect from 2019-2020.

##### REVIEW OF EXAMINATION RESULTS – RE-MARKINGS AND CONSULTATIONS (Section VII)

142. A student who is dissatisfied with the results of his/her examination may apply for a review of his/her results in writing to the Campus Registrar. Such an application must be to the Campus Registrar on the prescribed form within two weeks of publication of results, and in the case of the Supplemental, Summer Session or re-sit examinations within five days of the publication of results.

The options available in requesting a review are as follows:

- a. Any student may apply for a consultation with the Examiner of his/her script, but where the student who requests the consultation has passed the examination, the consultation shall be at the discretion of the examiner;
- b. Any student may apply for a re-mark of his/her examination subject to an administrative fee payable to the Bursary for the re-mark to be processed and may only be refunded in accordance with Regulation 145.

For more information, refer to the [Review of Results Process](#).

A student who fails an examination is required to repeat the module in the following academic year. Note that some courses **may be** offered during the Summer School period and students who pass these examinations are credited with the marks obtained.



It is the responsibility of the student to login to mySecureArea periodically during the semester to determine his/her examination schedule and to ensure that changes to the schedule are not missed.

## 5.6 Leave of Absence

In cases where a student needs to leave campus before completing the semester or needs to be away from campus for a period of time, please refer to the following University guidelines: [https://sta.uwi.edu/admissions/undergrad/faqs\\_absence.asp](https://sta.uwi.edu/admissions/undergrad/faqs_absence.asp)



## 5.7 Required to Withdraw (RTW) from the programme of study

A student with a **GPA of less than 2.00** in any given semester, is placed on **warning** and if his/her **GPA does not increase to 2.00 or above in the subsequent semester**, the student is automatically **required to withdraw** from the system for a period of one (1) academic year.

Students who are on “Required to Withdraw” at the end of the first or second semester of any academic year can attend the Summer School, but the results obtained will not affect their status.

It is the responsibility of the student (who is required to withdraw) to re-apply to the Admissions Office, at least three (3) months prior to the time they are supposed to return to the University.

For further information: <https://sta.uwi.edu/admissions/undergrad/reentry.asp>



## 5.8 Grade Point Average

For details of the University's Grading Scheme and requirements for Award Classification:

[Grading Scale \(uwi.edu\)](http://uwi.edu/Grading Scale)

[Degree Requirements \(uwi.edu\)](http://uwi.edu/Degree Requirements)

## 5.9 Graduation Requirements

The following credit ranges are required for graduation:

- |     |                                       |   |                     |
|-----|---------------------------------------|---|---------------------|
| (i) | Mechanical Engineering                | - | at least 95 credits |
|     | Industrial Engineering                | - | at least 97 credits |
|     | Mechanical with a Minor in Biosystems | - | at least 96 credits |

The requisite number of courses indicated in the schedules for different programmes in the

[ENGINEERING FACULTY BOOKLET – Undergraduate Regulations & Syllabuses](#),

must also be passed.

- (ii) **All the prescribed courses must be passed before graduation.** All core/compulsory courses must be completed. Students who have failed an elective course can choose to repeat the failed course or do another elective course instead. Students who, in the first semester, have failed elective courses are encouraged to register for make-up elective courses in the second semester if they have not registered for the maximum number of courses already.



### 5.10 Level 3 Schedule

The Level 3 schedule of courses for each programme in the Department is specified in the **ENGINEERING FACULTY BOOKLET – Undergraduate Regulations & Syllabuses**.

Note that students are allowed course options (electives) at Level 3. Students must attend Academic Advising to ensure that their chosen electives are currently being offered. Note also that students are required to select course options from streams of specialisation for the Mechanical Engineering programme while there are no specialisation streams for the Industrial and Mechanical with a Minor in Biosystems programmes (*refer to **Appendix E** for details*). These course options represent what the Department considers to be the minimum requirements for proficiency within the relevant stream for an engineer operating in the regional environment.



## 6. MENG 3019 / IENG 3012 MECHANICAL/INDUSTRIAL ENGINEERING PROJECT

As part of the credit requirements for graduation, each student must complete an individual research, application, **or** design/design-and-build project in his/her final year. This Mechanical/Industrial Engineering Project carries six (6) credits and is weighted at 20% of the graduate's final Honours standing. The project is an essential component to the student's education and training allowing him/her to practically apply and utilise the knowledge and skills developed throughout the programme toward the completion of a specific objective and is designed to bring out the students':

- (i) Ability to arrange matters/subjects in proper priority;
- (ii) Time management skills;
- (iii) Ability to conduct and complete:
  - a. Design/fabrication procedures;
  - b. Research/analysis procedures;
- (iv) Ability to work with technical staff in fabricating prototypes;
- (v) Initiative, creativity/imagination and innovativeness;
- (vi) Ability to analyse results and properly report the findings (in terms of correct and appropriate language, clarity and presentation) concisely and in a timely manner, both in a written report and orally;
- (vii) Ability to identify, analyse and propose solutions to societal needs.

**Students who fail the BSc Mechanical/Industrial Engineering Project must undertake a different project in the following academic year and will not be eligible for an Honours degree.**



**A series of learning outcomes are assessed using a variety of methods as listed:**

**Semester 1**

- Preliminary Report and
- Presentation

**Semester 2**

- Final Report and
- Presentation  
(with Demonstration where appropriate)
- Poster

**Year long**

- Logbook

Scheduled dates for these sessions will be communicated via the MENG 3019 / IENG 3012 course shell.

**To facilitate students' workload, a two-hour session has been timetabled for Final Year Project each week. Please note however, that the Final Year Project is mainly self-driven and requires each student to allocate sufficient time and effectively manage that time for the successful completion of his/her project.**

As an additional support mechanism, three sessions are scheduled throughout the duration of the year-long project to equip students with requisite skills as follows:

1. Project Management
2. Research Methods
3. Data Analysis and Presentation

Additional documents developed and compiled to assist students in preparing and planning for a successful Final Year Project are available via myeLearning to all students enrolled for IENG 3012 Industrial Engineering Project and MENG 3019 Mechanical Engineering Project.

Scheduled dates for these sessions will be communicated via the MENG 3019 / IENG 3012 course shell.



# APPENDICES TO THE UNDERGRADUATE STUDENTS' GUIDE



*This section of the Undergraduate Students' Guide provides some supplementary information to the the DMME's undergraduate programmes, teaching and learning resources and important contact information.*

2025/2026

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# APPENDIX A

## AIMS AND EXPECTED LEARNING OUTCOMES OF THE DEPARTMENT'S BSc PROGRAMMES:

- BSc MECHANICAL ENGINEERING
- BSc INDUSTRIAL ENGINEERING
- BSc MECHANICAL ENGINEERING with MINOR IN BIOSYSTEMS





# BSc MECHANICAL ENGINEERING

## AIM

To provide students with the skills necessary to make decisions about the acquisition, design, commission, testing and operation of engineering equipment. The programme aims to provide students with a core engineering educational base in the first two years through an integration of subject material including engineering analysis and design in key subdisciplines such as:

*Engineering Mechanics, Design, Thermal Engineering Systems, Manufacturing Processes, and Systems and Instrumentation and Controls.*

Support courses in Mathematics, Information Technology and Electrical Energy Systems augment the programme.

The final year of the Bachelor's degree programmes, provides breadth and depth through exposure to such areas as:

- Business and Management,
- Power Plant Engineering,
- HVAC Systems,
- Component/Product Design and Manufacturing,
- Maintenance, Health & Safety and Production Operations.

Students may opt to serve the Agro Industrial Sector of the region by selecting courses for the Minor in Biosystems Engineering offered by the Department. Students also have the opportunity to develop their skills in project management, problem solving, investigation and technical report writing, through a major project, which integrates various other subject areas in the programme.

## EXPECTED LEARNING OUTCOMES / OUTPUTS



*The Mechanical Engineering Graduate should be able to:*

- Apply mathematical, scientific and statistical principles and methodology to the analysis and solution of current mechanical engineering problems and in the development of new technologies.
- Plan and manage the design process, including cost drivers, and evaluate outcomes.
- Combine theory and experience for practical aspects (labs, technical literature, codes of practice, quality awareness, different roles in an engineering team).
- Create/develop economically viable products, processes or systems to meet a defined need.
- Demonstrate transferrable skills including working with others, effective use of general IT, plan self-learning, responsibility.
- Understand their obligations with regards to professional, ethics, commercial, social context, project management, sustainable development, legal and risk issues.

# BSc INDUSTRIAL ENGINEERING

## AIM

To produce engineers, with broad-based knowledge and skills in production and service-oriented systems, who are capable of dealing with the design, analysis, operation, control and improvement of the systems, which provide goods and services to our society.



The programme provides a sound background in technical topics in the first two years as well as the necessary non-technical subject areas. In the third year:

- the students are introduced to a variety of concepts, tools and techniques in Industrial Engineering and Management,
- students also undertake a major project to demonstrate their ability to apply the knowledge and skills acquired throughout the programme to develop solutions to real-world problems.

## EXPECTED LEARNING OUTCOMES / OUTPUTS



*The Industrial Engineering Graduate should be able to:*

- Formulate and analyze problems, then synthesize and develop appropriate solutions and improvements to production operations.
- Design and operate effective systems and procedures for using the basic resources of production (people, materials, machines and capital) in organizations.
- Function in a wide range of industrial organizations such as banks, regulatory agencies and other institutions in the context of techno-economic evaluations, project management and systems implementation.

Industrial Engineers are more oriented to the interaction between components of a system rather than the individual components themselves. Their professional training is such that they can function effectively in a wide variety of positions in manufacturing, production, and the service industries.

# BSc MECHANICAL ENGINEERING (Minor in BIOSYSTEMS)

## AIM

To orient Mechanical Engineers towards operations and problem-solving activities in the agricultural, environmental and food production sectors in the following areas:

- Ensuring a certain level of food security in the region.
- Increasing the efficiency and productivity of agriculturists and related land users through the application of engineering principles, methods and technologies.
- Raising the awareness of rural socio-economic issues in the territories in the Caribbean, by the inclusion in the courses, of some of the cultural practices and income-earning activities of urban and rural sectors of the region. The studies extend to agriculture and to some extent, environment, horticulture, forestry and fisheries, including aquaculture, in the taught courses or in Final Year Projects.
- Increasing the general awareness of the need for efficient use of limited land and water resources of the Caribbean as well as protecting those resources.
- Advancing the body of knowledge required for the above through research leading to the MSc, MPhil and PhD degrees in the three main areas – Soil and Water Engineering, Post-Harvest Storage and Food Processing and Production Systems and Mechanization and Equipment/Tool Design.

Students may opt for the “full” Minor, which consists of the Final Year Project plus at least five other Level 3 courses in the Biosystems Engineering area. Students may choose the courses that enable them to concentrate on the main areas of the Minor described in the last paragraph. The courses in the Minor were selected to make the student as useful and flexible as possible in aspects of Biosystems Engineering without compromising the overall Mechanical Engineering content of the degree. Most of the courses in the Minor are coded **MENG** so that other Mechanical Engineering students interested in them could take them as electives within the basic BSc Mechanical Engineering Programme.



## EXPECTED LEARNING OUTCOMES / OUTPUTS



*The Mechanical Engineering with the Minor in Biosystems Graduate should be able to:*

- Function competently and effectively as Mechanical Engineers within any type of organization, private or public or as individual entrepreneurs.
- Work effectively within multi-disciplinary teams in agriculture or agro-business enterprises in food/feed storage, in handling and processing of crops and foods, in soil and water and environmental engineering or rural engineering, or in other related fields, bringing to the team the ability to apply engineering knowledge, skills and techniques to solving problems in those areas. Such areas may include design, operation and maintenance of engineering systems used in agriculture and food production, environment and processing.
- Start his/her own enterprise to offer services/products, which bridge the various areas of study, to governments, other enterprises or to the public directly.
- Acquire sufficient knowledge and ability to enter and successfully complete any Graduate Studies Programme leading to higher degree(s) in the fields of Mechanical or Manufacturing Engineering, Agricultural/Biological/ Environmental Engineering or Engineering Management, as well as other fields.



**ALL GRADUATES** of the Department of Mechanical and Manufacturing Engineering should be able to:

- Understand the importance of the human element and teamwork in design, analysis, execution and management.
- Collect, evaluate and present data and clearly communicate results, ideas, conclusions/recommendations and instructions orally and in writing.
- Demonstrate professional, ethical, environmental and societal responsibilities.
- Recognize the need for life-long learning and professional development.

# APPENDIX B

## MENTOR CONTACT INFORMATION

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## MENTOR CONTACT INFORMATION

| TUTOR                     | EMAIL ADDRESS                                                                | Office                                                                    | Phone                |
|---------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------|
| Prof. Boppana CHOWDARY    | <a href="mailto:Boppana.Chowdary@uwi.edu">Boppana.Chowdary@uwi.edu</a>       | Ken Julien Building, Engineering Block 1, 2 <sup>nd</sup> Floor, Room 207 | 662 – 2002 ext 83185 |
| Prof. Krishpersad MANOHAR | <a href="mailto:Krishpersad.Manohar@uwi.edu">Krishpersad.Manohar@uwi.edu</a> | Ken Julien Building, Engineering Block 1, 2 <sup>nd</sup> Floor, Room 233 | 662 – 2002 ext 83190 |
| Prof. Chris MAHARAJ       | <a href="mailto:Chris.Maharaj@uwi.edu">Chris.Maharaj@uwi.edu</a>             | Ken Julien Building, Engineering Block 1, 2 <sup>nd</sup> Floor, Room 203 | 662 – 2002 ext 84158 |
| Dr. Anthony ADEYANJU      | <a href="mailto:Anthony.Adeyanju@uwi.edu">Anthony.Adeyanju@uwi.edu</a>       | Ken Julien Building, Engineering Block 1, 2 <sup>nd</sup> Floor, Room 231 | 662 – 2002 ext 83192 |
| Dr. Jacqueline BRIDGE     | <a href="mailto:Jacqueline.Bridge@uwi.edu">Jacqueline.Bridge@uwi.edu</a>     | Ken Julien Building, Engineering Block 1, 2 <sup>nd</sup> Floor, Room 208 | 662 – 2002 ext 83166 |
| Dr. Richard BACHOO        | <a href="mailto:Richard.Bachoo@uwi.edu">Richard.Bachoo@uwi.edu</a>           | Ken Julien Building, Engineering Block 1, 2 <sup>nd</sup> Floor, Room 213 | 662 – 2002 ext 83168 |
| Dr. Ruel ELLIS            | <a href="mailto:Ruel.Ellis@uwi.edu">Ruel.Ellis@uwi.edu</a>                   | Ken Julien Building, Engineering Block 1, 2 <sup>nd</sup> Floor, Room 214 | 662 – 2002 ext 83169 |
| Dr. Kuldeep OJHA          | <a href="mailto:Kuldeep.Ojha@uwi.edu">Kuldeep.Ojha@uwi.edu</a>               | Ken Julien Building, Engineering Block 1, 2 <sup>nd</sup> Floor, Room 235 | 662 – 2002 ext 82060 |
| Dr. Cilla PEMBERTON       | <a href="mailto:Cilla.Pemberton@uwi.edu">Cilla.Pemberton@uwi.edu</a>         | Ken Julien Building, Engineering Block 1, 2 <sup>nd</sup> Floor, Room 212 | 662 – 2002 ext 83167 |
| Dr. Renique MURRAY        | <a href="mailto:Renique.Murray@uwi.edu">Renique.Murray@uwi.edu</a>           | Ken Julien Building, Engineering Block 1, 2 <sup>nd</sup> Floor, Room 224 | 662 – 2002 ext 83181 |
| Mr. Jainarine BANSEE      | <a href="mailto:Jainarine.Bansee@uwi.edu">Jainarine.Bansee@uwi.edu</a>       | Ken Julien Building, Engineering Block 1, 2 <sup>nd</sup> Floor, Room 220 | 662 – 2002 ext 82466 |
| Dr. Portia FELIX          | <a href="mailto:Portia.Felix@uwi.edu">Portia.Felix@uwi.edu</a>               | Ken Julien Building, Engineering Block 1, 2 <sup>nd</sup> Floor, Room 205 | 662 – 2002 ext 82067 |
| Dr. Arshad MOHAMMED       | <a href="mailto:Arshad.Mohammed@uwi.edu">Arshad.Mohammed@uwi.edu</a>         | Computer Numerical Control (CNC) Lab                                      | 662 – 2002 ext 83468 |
| Mr. Bhopendra MAHARAJ     | <a href="mailto:Bhopendra.Maharaj@uwi.edu">Bhopendra.Maharaj@uwi.edu</a>     | Ken Julien Building, Engineering Block 1, 2 <sup>nd</sup> Floor, Room 203 | 662 – 2002 ext 84158 |
| Mr. Ezekiel YORKE         | <a href="mailto:Ezekiel.Yorke@uwi.edu">Ezekiel.Yorke@uwi.edu</a>             | Computer Numerical Control (CNC) Lab                                      | 662 – 2002 ext 83468 |

\*on leave for 2026/2027 academic year

# APPENDIX C

## HELP DESK SCHEDULE





### **Virtual Help Desk**

The Department of Mathematics and Statistics has established a [Math Help Centre](#) (MHC) to provide assistance to persons with difficulties in courses involving Mathematics and Statistics components.

The Department of Modern Languages and Linguistics has established [The Writing Centre](#) which provides writing coaching.

# APPENDIX D

## SOFTWARE PACKAGES

- REMOTE ACCESS
- DOWNLOAD INSTRUCTIONS
- PURCHASE LINKS



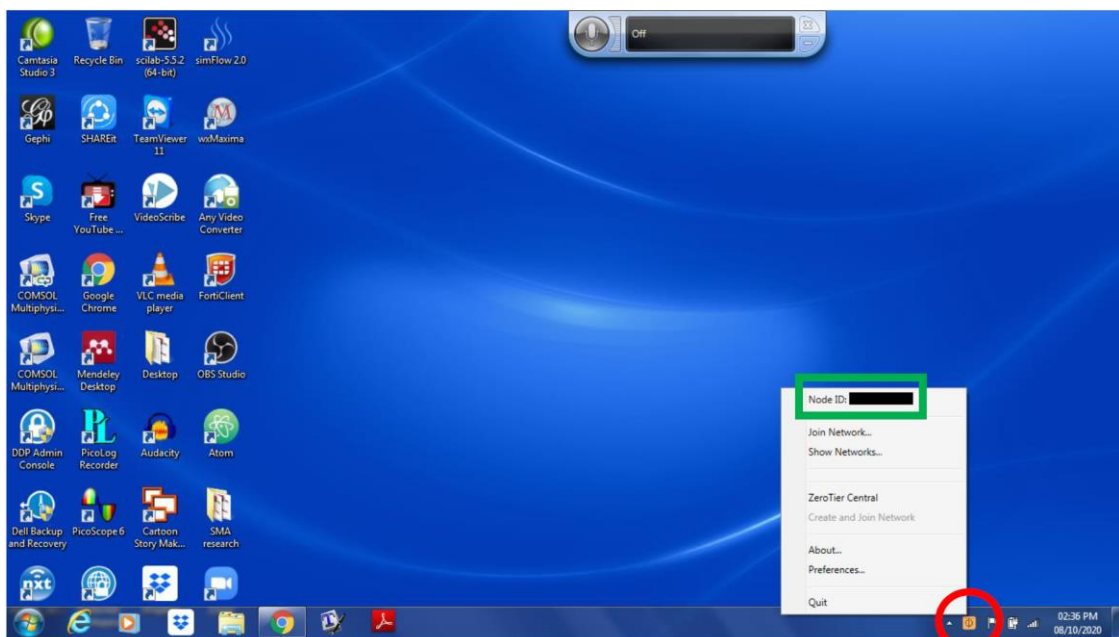
## Remote Access to the DMME Computer Lab using ZeroTier

The Department of Mechanical and Manufacturing Engineering (DMME) Remote Computer Access Service allows use of the Computer Lab's devices and software from home. DMME students with a current UWI ID can securely connect their own computers to the lab's and thereby use any of the software available on the machines, including SolidWorks, CHVAC, MasterCAM, COMSOL. Setup is a simple two step process involving connecting to UWI's VPN and installing the remote connection application.

### Step 1: Instructions to Download and Connect to VPN

You need to be added to the remote network. In order to do that you will need to:

1. Download ZeroTier <https://www.zerotier.com/download/> .
2. Install it on your computer. **THE REMOTE ACCESS WILL ONLY WORK FOR THIS COMPUTER.**
3. Once this is done, you should see a yellow icon (with a circle in the middle) in the lower right hand portion of the screen (or wherever you have your toolbar). I have circled it in red in the picture.
4. Click on the icon. You should see a menu come up similar to what is seen in the picture. Note the Node number – a 10-character identifier. I have placed it in a green rectangle in the picture.



5. Complete and submit this form [REMOTE ACCESS LINK](#)
6. An email will be sent to you indicating when you can proceed to the next steps. The email will contain the following:  
Your assigned computer IP address : \*\*\*\*  
To login use: MECHLAB\*\*\\*\*\*  
Your password is:\*\*\*\*\*

## Step 2: Instructions to Connect to the Remote Desktop

Use Remote Desktop to connect to the PC you set up:

- **On your local Windows 10 PC:** In the search box on the taskbar, type **Remote Desktop Connection**, and then select **Remote Desktop Connection**. In Remote Desktop Connection, type the name of the PC you want to connect to (from Step 1), and then select **Connect**.
- **On your Windows, Android, or iOS device:** Open the Remote Desktop app (available for free from Microsoft Store, Google Play, and the Mac App Store), and add the name of the PC that you want to connect to (from Step 1). Select the remote PC name that you added, and then wait for the connection to complete.

Input the login and password assigned to you from the previous step. You should now be able to complete our exercises on the UWI computer remotely.

## Step 3. Log Off & Disconnect from VPN

When you are done with the remote computer, go to the start menu and sign out. **DO NOT shutdown the computer.** If you are using the VPN to connect through an off-campus connection, please disconnect the VPN once you are finished.

## MATLAB

Use the latest versions of MATLAB and Simulink and other MathWorks products to support your course work and research.

The University of the West Indies offers a campus-wide license to MATLAB, Simulink, and companion products. All faculty, researchers, and students are eligible to download and install these products on their university computers as well as their personally-owned computers.

Here's a sampling of the add-on products available:

- Bioinformatics Toolbox
- Control System Toolbox
- Curve Fitting Toolbox
- Data Acquisition Toolbox
- DSP System Toolbox
- Image Processing Toolbox
- Instrument Control Toolbox
- Optimization Toolbox
- Parallel Computing Toolbox
- Signal Processing Toolbox
- Simscape
- Simscape Multibody
- Simulink Control Design
- Stateflow
- Statistics and Machine Learning Toolbox
- Symbolic Math Toolbox

Go to [The University of the West Indies' MATLAB Portal](#) to download.

Access free, self-paced training to get started in less than 2 hours: MATLAB Onramp.

### NOTE

**Commercial use of MathWorks products is not covered by our TAH license, so if you are using a commercial license, please continue to do so.**

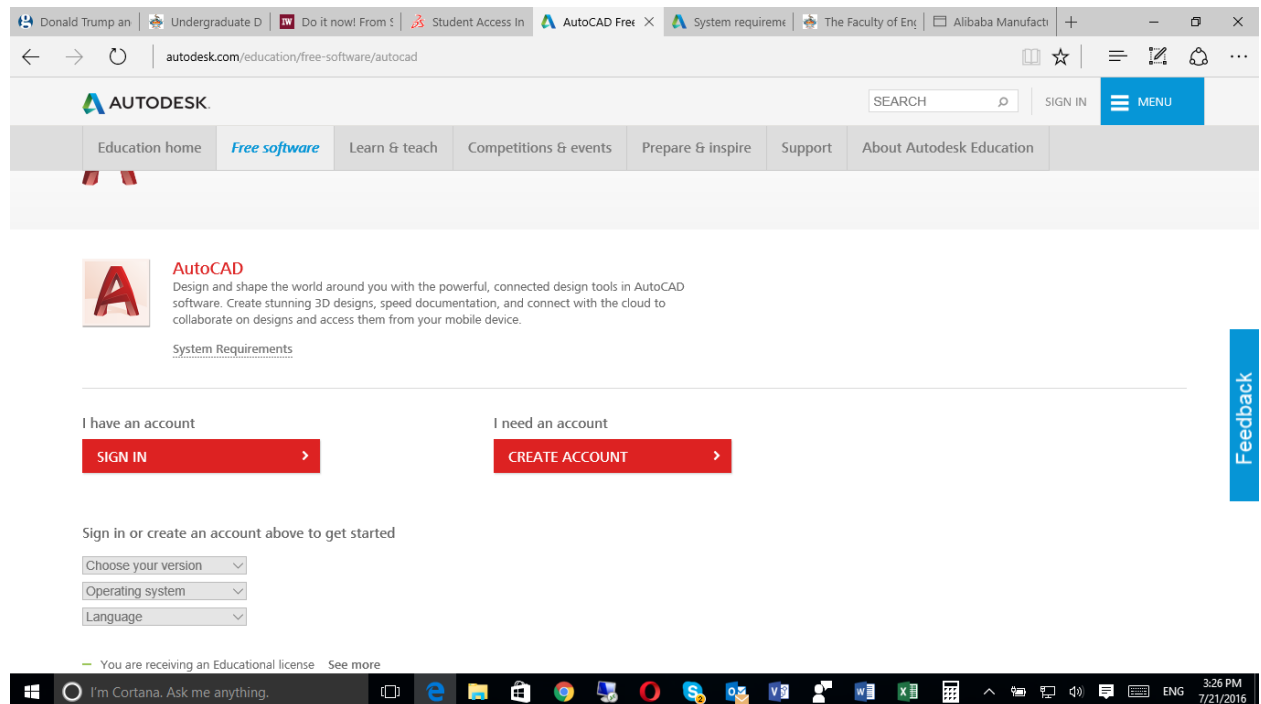
## AutoDesk Products for Student Use

This can be obtained at <http://www.autodesk.com/education/free-software/autocad>

Make sure the machine you indeed to use meets the system requirements of the software.

<https://knowledge.autodesk.com/support/autocad/troubleshooting/caas/sfdcarticles/sfdcarticles/System-requirements-for-AutoCAD.html>

You will have to create an account on the site.



### Please note the restrictions:

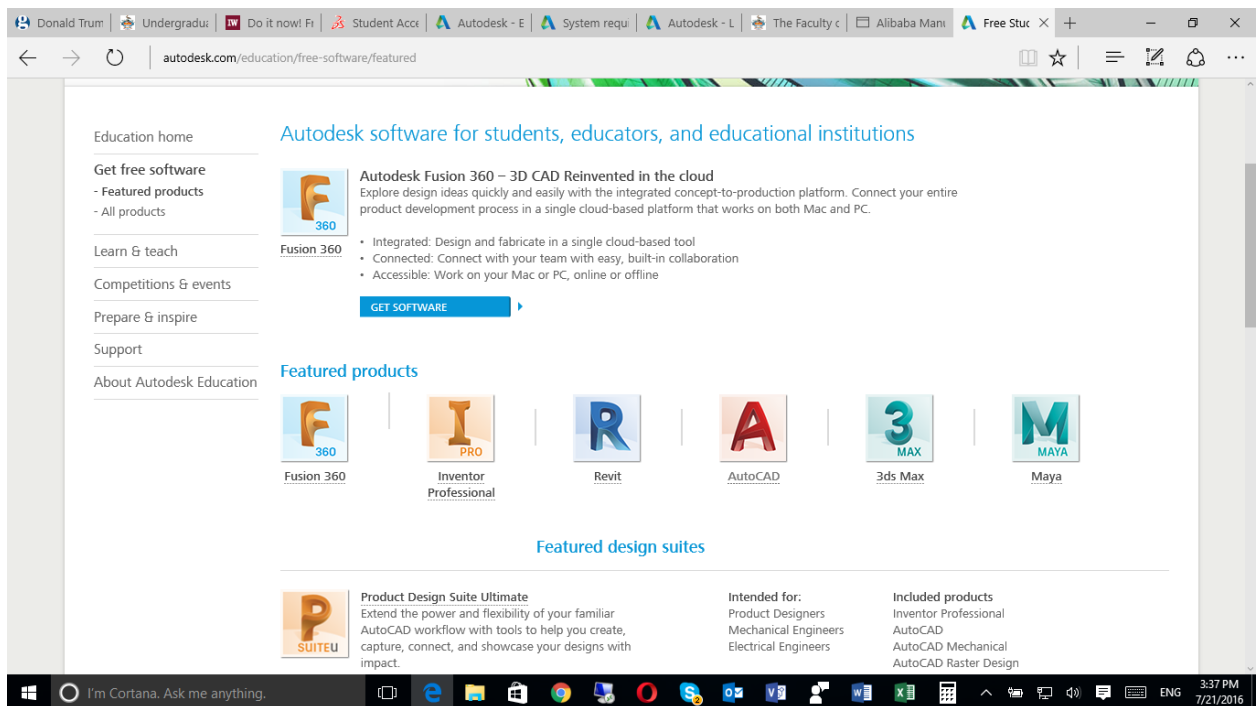
You are receiving an Educational license or entitlement for the software or service you have chosen and it can only be used for educational purposes in accordance with the terms set forth in the applicable software license agreement or terms of service.

Software licensed through Education Community by students or educators may only be installed on the student's or educator's personal computer or devices. Software licensed through Education Community by educational institutions may only be installed on the educational institution's computers or devices.

Once you have created an account and logged in go to the section of the page at the bottom with the heading **Free Resources**. Under **Free Software for Students** click **Get Software**.

You will be taken to a page where you can access various AutoDesk products including AutoCAD.

Choose the product you want to download. You will be taken to a screen to log in and provide information on the institution (The University of the West Indies, St. Augustine campus, address, telephone number, etc), how you intend to use the software and then you will be allowed to download the product.



## Student Version of SolidWorks

### NOTE

Access to SolidWorks will be provided for registered students in the following classes:

- MENG 1008
- MENG 1009
- MENG 2011
- MENG 2013
- MENG 3013

Students who require SolidWorks for use in their Final Year Project should contact the PC Network Technician, Mr. Navin Narine at [navin.narine@uwi.edu](mailto:navin.narine@uwi.edu).

## Student Version of MasterCAM

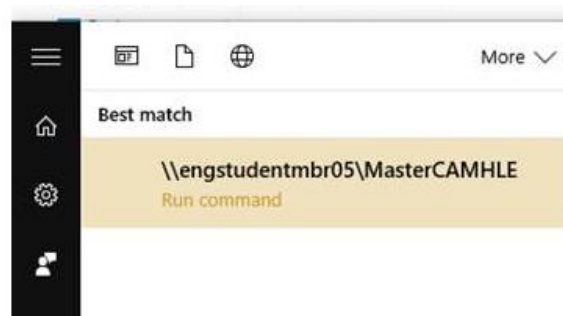
### MasterCAM Home Learning Edition Student instructions for install.

Step 1. Note that the install file is on one of the Engineering Student servers, so the student laptop will have to be plugged into the Engineering Student network, and the Wi-Fi card needs to be disabled.

Step 2. Click on the **Start** button and start typing the share name as indicated at step 3.

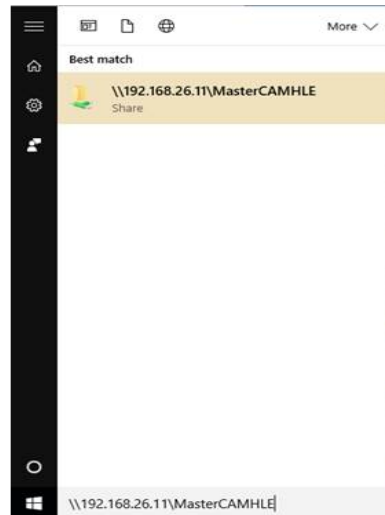


Step 3. The share name can be typed as \\engstudentmbr05\MasterCAMHLE. If this does not work try (4) otherwise go to step (5).

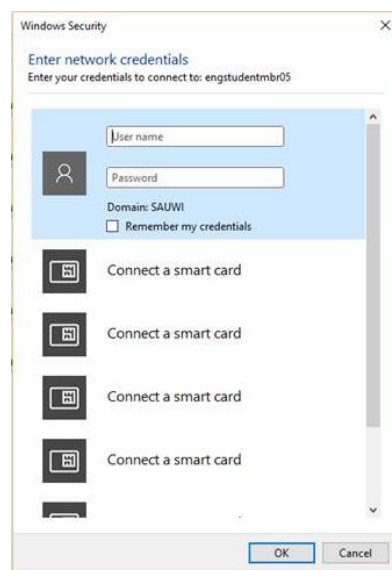


- Step 4. The share name can be typed as \\192.168.26.11\MasterCAMHLE if the system cannot find the server by name.

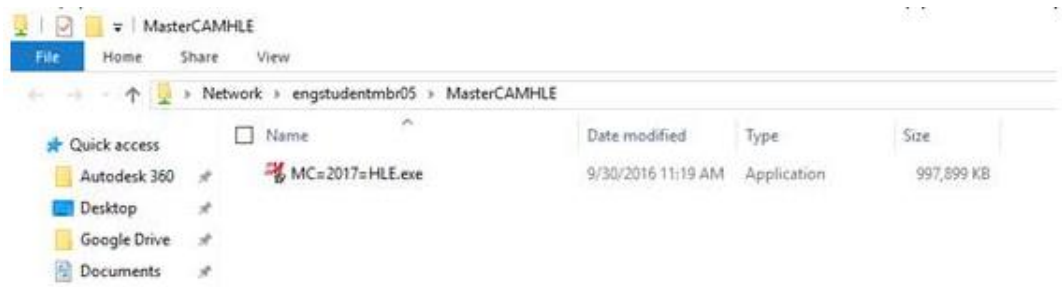
38



- Step 5. You will most likely be prompted for a password. Ensure that you type in sastudents\username and then complete the password.

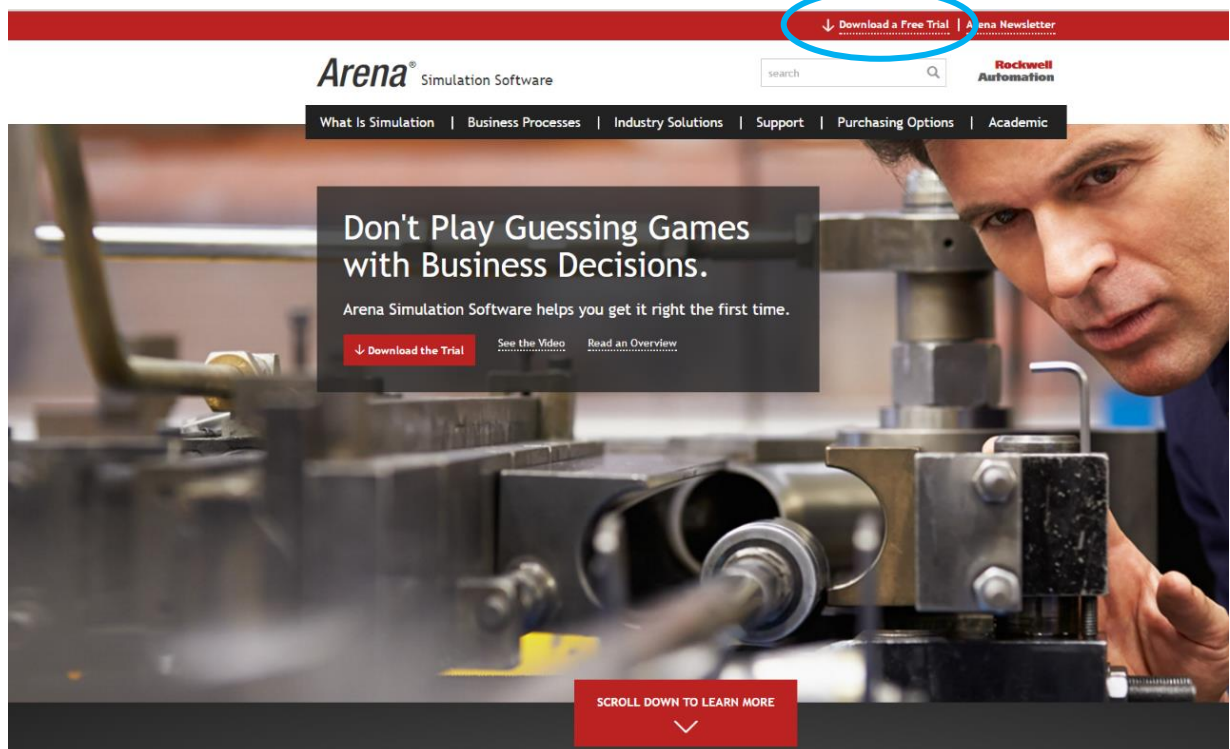


- Step 6. You can either double-click the executable to run it from the folder or copy the file to your desktop. Note it is over 900MB in size.



## Student Version of Arena

1. Go to <https://www.arenasimulation.com>
2. Click the **Download a Free Trial** link



3. Complete the form shown.

[Home](#) » [Download a Free Trial of Arena Software](#)

## Download Trial Version

Try Arena for free. Download a trial version of Arena Professional Edition.

### Getting Started with Arena



Although Arena can model very complex processes, it is easy to learn.

Visit our [video library](#) to learn more about Arena features and functionality

[Need Help?](#) Our Technical Support Team is ready to assist you.

#### Register for Free Download

First Name\*

Last Name\*

Organization\*

Email\*

Phone

Job Type\*

Select Your Job Type

Country

- Please Select -

4. Download link and instructions will be emailed to the address you provide.

## SOFTWARE PURCHASE LINKS

- MATLAB (*Student pricing available*)

<https://www.mathworks.com/pricing-licensing/index.html?intendeduse=student&prodcode=ML>

- AUTOCAD (*Free for student use*)

<http://www.autodesk.com/education/home>

- SOLIDWORKS (*Prices available for student edition*)

<https://store.solidworks.com/studentstore/default.php>

- ARENA

<https://www.arenasimulation.com/academic/compare-products>

# APPENDIX E

## STUDENT CHAPTERS



## STUDENT CHAPTERS

The Department of Mechanical and Manufacturing Engineering recognises the importance of Professional Engineering Institutions and has undertaken a number of initiatives to get its students involved in some of these Associations during their programme of study.

During the orientation period each year, senior members from the Association of Professional Engineers of Trinidad and Tobago (**APETT**), the American Society of Mechanical Engineers (**ASME**) and the American Society of Heating, Refrigerating and Air-Conditioning Engineers (**ASHRAE**) are invited by the Faculty to address the new and returning students on the benefits of being a member of a Professional Institution. New students are offered free **student membership** for one year by ASME while APETT offers free membership for all students throughout the duration of the undergraduate programmes. APETT works closely with the Engineering Students' Society (**ESS**) in the Faculty of Engineering, The UWI, St. Augustine, and organises events for students such as lectures and field visits. ASHRAE Caricom Chapter has a student membership with the benefits of access to ASHRAE standards, seminars and workshops.

On 20<sup>th</sup> February 2014, The UWI St. Augustine celebrated the establishment of an official Student Chapter of the Institution of Mechanical Engineers (**IMechE**). The Student Chapter formation was guided by IMechE Caribbean Representatives Mr. Deepak Lall and Dr. Chris Maharaj. The group was formally launched when it teamed up with the local student branch of the Institute of Electrical and Electronics Engineers (**IEEE**) to host a technical seminar. Since then, the Chapter has been intimately involved in numerous activities including a Mechanical Engineering Networking event, a technical seminar on the Responsibilities of an Engineering Manager, and a UWI Department of Mechanical and Manufacturing Engineering Student/Staff Appreciation Day. In addition, the IMechE Student Chapter also launched its newsletter.

The Society of Manufacturing Engineers (**SME**) Student Unit launched its recruitment efforts during the orientation period of Semester I, 2015-2016 academic year. In November 2016 this Unit became registered as an official SME Student Chapter. The SME Student Chapter plans to host industry workshops/guest lectures and other interactive activities for the benefit of the students.

The IMechE and SME Student Chapters collaborate on various activities and contributed an article to the first edition of the Department's Newsletter, which detailed the goals of the group.

The Society for Caribbean Industrial Engineers (**SCIE**) was established in 2017 to promote the Industrial Engineering (IE) profession through activities based on core IE principles of efficiency, productivity and innovation. A student arm of the SCIE, the IE Students Club, was officially launched in 2018 and hosts activities, lectures and training sessions for IE students.

ASHRAE CARICOM Chapter was formed in July, 2018, by engineers and affiliate members across the Caribbean region. We are part of ASHRAE International, founded in 1894. This is a global society for advancing human well-being through sustainable technology for the built environment. The Society and its members focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability within the industry. Through research, standards writing, publishing and continuing education, ASHRAE shapes tomorrow's built environment today. The ASHRAE CARICOM Student Chapter, based at the UWI St. Augustine Campus, is a vibrant group guided by industrial professionals. The student chapter is actively involved in arranging continuous engineering training programs, workshops, hosting distinguished lectures from ASHRAE, identifying job opportunities, mock interview sessions and creating global links with the international membership.

For more information on these Professional Associations, please visit the following links or speak with your assigned Mentor/Programme Coordinator.



APETT

<http://www.apett.org/home/>



ASME

<https://www.asme.org/about-asme/professional-membership/benefits-forstudents>



ASHRAE

<https://www.ashrae.org/>



IMECHE

<https://nearyou.imeche.org/near-you/The-Americas/Pan-CaribbeanGroup/Trinidad---Tobago/university-of-west-indies-student-chapter>



SCIE

<https://scieonline.org/>



SME

<https://www.sme.org/>

# APPENDIX F

## ORIENTATION & ACADEMIC ADVISING SCHEDULE

are available at

<https://sta.uwi.edu/eng/mechanical/student-resources>



# APPENDIX G

## LEVEL THREE SCHEDULE



## Mechanical Engineering Level 3 Course Listing

| 1. Year-Long Mechanical Engineering Project (MENG 3019) (6 Credits)                                                                                                                   |                                                                                                                      |          |                                                                          |                                                                          |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|----------|
| Semester 1 (13/14 Credits)                                                                                                                                                            |                                                                                                                      |          | Semester 2 (12 to 14 Credits)                                            |                                                                          |          |
| Compulsory Courses                                                                                                                                                                    |                                                                                                                      |          |                                                                          |                                                                          |          |
| 2.                                                                                                                                                                                    | MENG 3000 Engineering Management I                                                                                   | E3       | 7.                                                                       | MENG 3016 Maintenance & Safety Engineering                               | E3       |
| 3.                                                                                                                                                                                    | MENG 3015 Materials Technology                                                                                       | E2       |                                                                          |                                                                          |          |
| 4.                                                                                                                                                                                    | ECNG 3030 Electromechanical Energy Conversion (Prerequisite: ECNG 1007)                                              | E3       |                                                                          |                                                                          |          |
| Together with any two (2) of:                                                                                                                                                         |                                                                                                                      |          | Together with any four (4) of:                                           |                                                                          |          |
| +Thermal Engineering and Energy Systems                                                                                                                                               |                                                                                                                      |          |                                                                          |                                                                          |          |
| 5.                                                                                                                                                                                    | MENG 3022 Energy Engineering (Prerequisites: MENG 2007, MENG 2012)                                                   | E2       | 8.                                                                       | MENG 3026 Renewable Energy (Prerequisite: MENG 2012)                     | E2       |
| 6.                                                                                                                                                                                    | MENG 3023 Environmental Control Engineering I (Prerequisite: MENG 2007)                                              | E2       | 9.                                                                       | MENG 3028 Power Plant Engineering II (Prerequisite: MENG 3025)           | E2       |
| 7.                                                                                                                                                                                    | MENG 3025 Power Plant Engineering I (Prerequisite: MENG 2007)                                                        | E2       | 10.                                                                      | MENG 3029 Environmental Control Engineering II (Prerequisite: MENG 3023) | C2       |
| 8.                                                                                                                                                                                    | *Elective Course                                                                                                     | E2 or E3 | 11.                                                                      | *Elective Course                                                         | E2 or E3 |
| +Engineering Mechanics and Design                                                                                                                                                     |                                                                                                                      |          |                                                                          |                                                                          |          |
| 5.                                                                                                                                                                                    | MENG 3024 Strength of Materials II (Prerequisite: MENG 2010)                                                         | E2       | 8.                                                                       | MENG 3011 Advanced Mechanics of Solids                                   | E3       |
| 6.                                                                                                                                                                                    | MENG 3017 Finite Element Methods in Engineering Practice (Prerequisites: MENG 1011, MATH 2230, MENG 2010, MENG 2012) | E3       | 9.                                                                       | * Elective Course                                                        | E2       |
|                                                                                                                                                                                       |                                                                                                                      |          | 10.                                                                      | * Elective Course                                                        | E2       |
|                                                                                                                                                                                       |                                                                                                                      |          | 11.                                                                      | *Elective Course                                                         | E2       |
| +Manufacturing (Design Processes and Systems)                                                                                                                                         |                                                                                                                      |          |                                                                          |                                                                          |          |
| 5.                                                                                                                                                                                    | MENG 3013 Product Design and Development                                                                             | E3       | 8.                                                                       | MENG 3014 Computer-Aided Design and Manufacture                          | E2       |
| 6.                                                                                                                                                                                    | *Elective Course                                                                                                     | E2 or E3 | 9.                                                                       | *Elective Course                                                         | E2 or E3 |
|                                                                                                                                                                                       |                                                                                                                      |          | 10.                                                                      | *Elective Course                                                         | E2 or E3 |
|                                                                                                                                                                                       |                                                                                                                      |          | 11.                                                                      | *Elective Course                                                         | E2 or E3 |
| *Elective Courses (Compulsory for some Specialization Streams above)                                                                                                                  |                                                                                                                      |          |                                                                          |                                                                          |          |
| MENG 3006 Production Management                                                                                                                                                       |                                                                                                                      | E3       | ENGR 3000 The Technology of the Steelpan (Prerequisite: MATH 2230)       |                                                                          | E3       |
| MENG 3013 Product Design & Development                                                                                                                                                |                                                                                                                      | E3       | IENG 3002 Plant Layout and Material Handling                             |                                                                          | E2       |
| MENG 3017 Finite Element Methods in Engineering Practice                                                                                                                              |                                                                                                                      | E2       | IENG 3006 Automation                                                     |                                                                          | E2       |
| MENG 3022 Energy Engineering (Prerequisites: MENG 2007, MENG 2012)                                                                                                                    |                                                                                                                      | E3       | MENG 3001 Engineering Management II                                      |                                                                          | E2       |
| MENG 3023 Environmental Control Engineering I                                                                                                                                         |                                                                                                                      | E2       | MENG 3011 Advanced Mechanics of Solids (Prerequisites: MENG 3024)        |                                                                          | E3       |
| MENG 3024 Strength of Materials II (Prerequisite: MENG 2010)                                                                                                                          |                                                                                                                      | E2       | MENG 3014 Computer-aided Design & Manufacture                            |                                                                          | E2       |
| MENG 3025 Power Plant Engineering I (Prerequisites: MENG 2007)                                                                                                                        |                                                                                                                      | E2       | MENG 3026 Renewable Energy (Prerequisite: MENG 2012)                     |                                                                          | E2       |
|                                                                                                                                                                                       |                                                                                                                      |          | MENG 3027 Traction & Power Hydraulics                                    |                                                                          | E2       |
|                                                                                                                                                                                       |                                                                                                                      |          | MENG 3028 Power Plant Engineering II (Prerequisite: MENG 3025)           |                                                                          | E2       |
|                                                                                                                                                                                       |                                                                                                                      |          | MENG 3029 Environmental Control Engineering II (Prerequisite: MENG 3023) |                                                                          | C2       |
| + Specialisation Streams                                                                                                                                                              |                                                                                                                      |          |                                                                          |                                                                          |          |
| * Elective courses can be taken from the courses above or other Mechanical Engineering or Industrial Engineering Level 3 course(s) subject to the approval of the Head of Department. |                                                                                                                      |          |                                                                          |                                                                          |          |
| Some of these Elective courses are compulsory for the three Specialisation Streams as shown above.                                                                                    |                                                                                                                      |          |                                                                          |                                                                          |          |

## Industrial Engineering Level 3 Course Listing

| Year-Long Industrial Engineering Project (IENG 3012) (6 Credits)                                     |                                                                     |                   |                                                                                                      |                                                          |                   |
|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------|
| Semester 1 (13/14 Credits)                                                                           |                                                                     |                   | Semester 2 (12 /14 Credits)                                                                          |                                                          |                   |
| Course Code                                                                                          | Course Title                                                        | Number of Credits | Course Code                                                                                          | Course Title                                             | Number of Credits |
| IENG 3000                                                                                            | Industrial Management                                               | E3                | IENG 3001                                                                                            | Production Planning & Control                            | E3                |
| IENG 3005                                                                                            | Quality Control & Reliability Engineering (Prerequisite: MATH 2250) | E2                | IENG 3002                                                                                            | Plant Layout & Materials Handling                        | E2                |
| MENG 3015                                                                                            | Materials Technology                                                | E2                | MENG 3016                                                                                            | Maintenance & Safety Engineering                         | E3                |
| Together with TWO (2) courses, subject to the approval of the Head of Department, to be chosen from: |                                                                     |                   | Together with TWO (2) courses, subject to the approval of the Head of Department, to be chosen from: |                                                          |                   |
| IENG 3015                                                                                            | Enterprise Information Systems (Prerequisite: IENG 2004)            | E3                | ENGR 3000                                                                                            | The Technology of the Steelpan (Prerequisite: MATH 2230) | E3                |
| IENG 3016                                                                                            | Applied Project Management                                          | E3                | IENG 3003                                                                                            | Behavioural Science in Management                        | E3                |
| IENG 3017                                                                                            | Industrial Design of Products and Services                          | C3                | IENG 3006                                                                                            | Automation                                               | E2                |
|                                                                                                      |                                                                     |                   | IENG 3013                                                                                            | Simulation of Industrial & Business Processes            | E3                |
|                                                                                                      |                                                                     |                   | MENG 3001                                                                                            | Engineering Management II                                | E2                |

## Mechanical Engineering with a Minor in Biosystems Level 3 Course Listing

| Year-Long Mechanical Engineering Project (MENG 3019) (6 Credits) |                                                               |                   |                                                                                                      |                                                          |                   |
|------------------------------------------------------------------|---------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------|
| Semester 1 (13 Credits)                                          |                                                               |                   | Semester 2 (11 /12 Credits)                                                                          |                                                          |                   |
| Course Code                                                      | Course Title                                                  | Number of Credits | Course Code                                                                                          | Course Title                                             | Number of Credits |
| ECNG 3030                                                        | Electromechanical Energy Conversion (Prerequisite: ECNG 1007) | E3                | CVNG 3007                                                                                            | Environmental Engineering I                              | E3                |
| MENG 3000                                                        | Engineering Management I                                      | E3                | MENG 3016                                                                                            | Maintenance & Safety Engineering                         | E3                |
| MENG 3004                                                        | Soil & Water Engineering                                      | E2                | Together with TWO (2) courses, subject to the approval of the Head of Department, to be chosen from: |                                                          |                   |
| MENG 3020                                                        | Elements of Food Engineering                                  | E2                | ENGR 3000                                                                                            | The Technology of the Steelpan (Prerequisite: MATH 2230) | E3                |
| MENG 3030                                                        | Basic Engineering Infrastructure                              | E2                | MENG 3001                                                                                            | Engineering Management II                                | E2                |
| MENG 3015                                                        | Materials Technology                                          | E2                | MENG 3002                                                                                            | Post-harvest Technology                                  | E2                |
|                                                                  |                                                               |                   | MENG 3007                                                                                            | Drainage & Irrigation Engineering                        | E2                |
|                                                                  |                                                               |                   | MENG 3008                                                                                            | Field Machinery & Equipment                              | E2                |
|                                                                  |                                                               |                   | MENG 3026                                                                                            | Renewable Energy                                         | E2                |
|                                                                  |                                                               |                   | MENG 3027                                                                                            | Traction & Power Hydraulics                              | E2                |

# APPENDIX H

## COURSEWORK CALENDAR

will be available at

<https://sta.uwi.edu/eng/mechanical/student-resources>

and will also be emailed to students' university-provided email address  
(firstname.lastname@my.uwi.edu)



# APPENDIX I

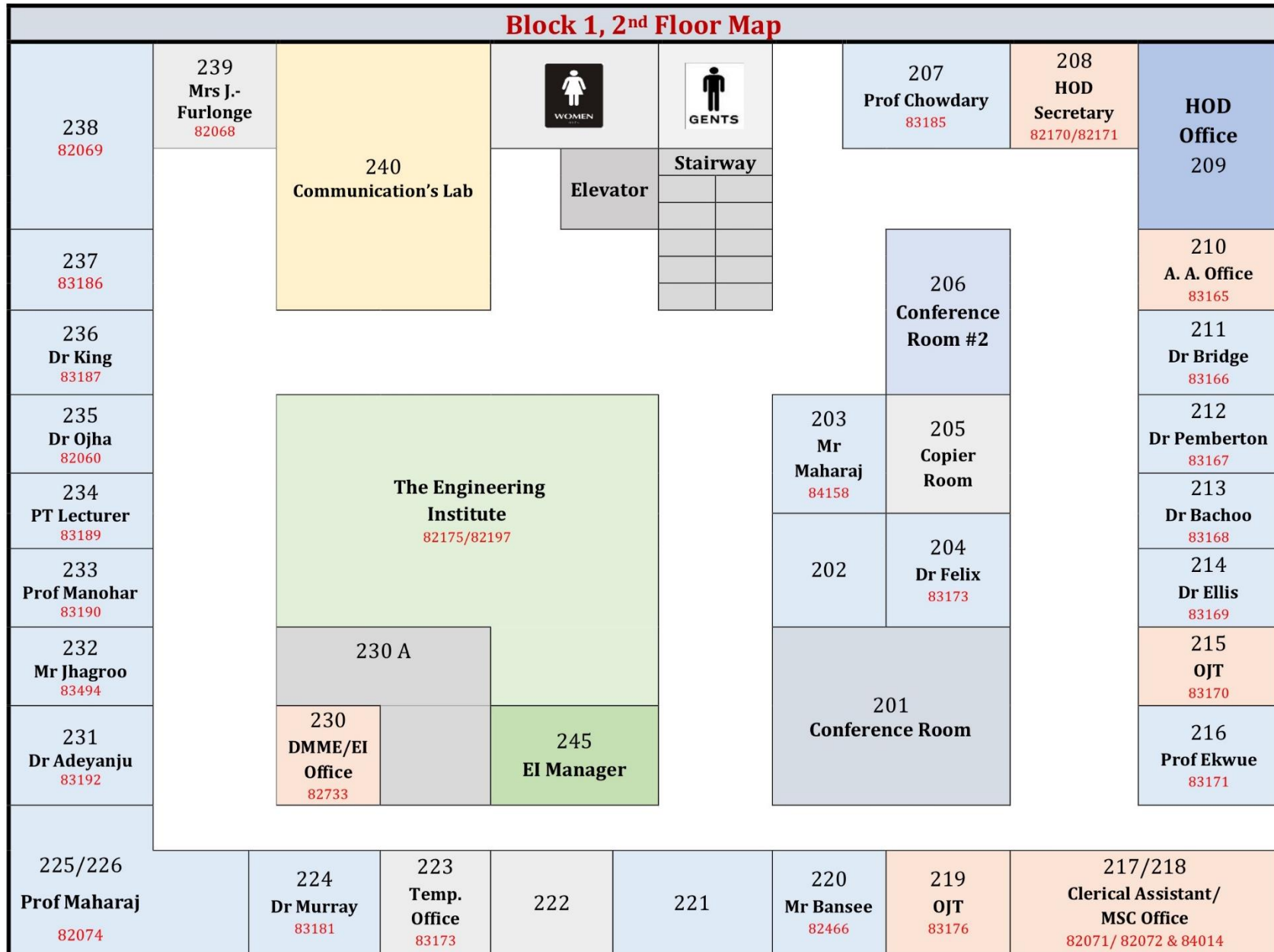
## IMPORTANT DEPARTMENTAL CONTACT INFORMATION



## CONTACT INFORMATION

|  | POSITION                           | NAME                   | EMAIL                                                                                          | OFFICE                                 | EXT         |
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|  | Programme Coordinator - Industrial | Prof. Kit Fai Pun      | <a href="mailto:KitFai.Pun@uwi.edu">KitFai.Pun@uwi.edu</a>                                     | Rm. 239                                | 82068/82069 |
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|  | PC Network Support Technician      | Mr. Navin Narine       | <a href="mailto:Navin.Narine@uwi.edu">Navin.Narine@uwi.edu</a>                                 | Mechanical Engineering<br>Computer Lab | 83431       |

## DEPARTMENTAL MAP



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Phone            (868) 662 – 2002 ext 82170

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