

1. PROGRAMME AIMS AND PROGRAMME INTENDED LEARNING OUTCOMES

1.1 **Aims**

This programme aims to equip students with analytical, technical, managerial, and behavioural skills / knowledge in aspects of contemporary quality and reliability engineering, product safety, health and environmental compliance, and related technologies in order to prepare them to play key professional role in the global manufacturing industry amidst increasing quality challenges. Students will acquire a broad understanding of the concepts, techniques and tools in the subject domain to enable them to identify and tackle diverse problems with effective use of contemporary technology and solutions in the quality engineering and related aspects.

1.2 **Programme Intended Learning Outcomes (PILOs)**

Upon successful completion of this Programme, students should be able to:

1. demonstrate multi-disciplinary knowledge and skills in the engineering design, methodologies, analysis and improvement of a manufacturing/service system in the areas of customer interface, product design, process design and control, supply management, and product assurance and compliance to meet the requirements of health, safety and environmental regulations;
2. apply the principles, analytical skills, computational techniques, modelling tools, experimental practices in the subject domain of the Total Quality Engineering and related aspects;
3. demonstrate required problem solving ability and skills, communication skills, and teamwork in quality and reliability engineering, and product safety, health and environmental compliance to cope with the dynamic nature of the global manufacturing industry;
4. design, develop, implement and improve total quality engineering systems that integrates people, material, information and equipment.
5. meet the required levels and standards perceived by the potential employers with experience acquired through practical hands-on projects and exposure to industry during their studies;
6. have substantial exposure to real-life working environment in industries if the students opt for industrial internship (cooperative education scheme);
7. develop the attitude of life time learning and take part in continuing education opportunities;
8. meet the core competency requirements for corporate membership of professional bodies, such as the Hong Kong Institute of Engineers (HKIE), American Society for Quality (USA), and Chartered Quality Institute (UK).

2. PROGRAMME STRUCTURE

2.1 **University Requirements: (21 credits)**

• **Chinese Civilization Courses*** 6 Credits

Course Code	Course Title	Level	Units Worth	Remarks (e.g. College Accreditation, or Exemption requirements, etc.)
CCIV0101	Chinese Civilisation I	B	3	
CCIV0102	Chinese Civilisation II	B	3	
CCIV0303 [#]	Chinese Civilisation III	B	3	

* Students are reminded to complete all the CCIV courses which will cease to be offered at the end of 2011/12 in their first two years of study.

[#] Application and approval from Chinese Civilization Centre is required.

• **Language Requirement** 6 Credits

Students may meet the University Language requirement by successful completion of the English Enhancement Courses. Students who are not required to take the ELC should select two courses from the approved list of Courses Fulfilling University Language Requirements for Bachelor's Degree Students. **English language courses are highly recommended.**

• **Out-of-Discipline / General Education Courses** 9 Credits

Starting from the 2008 intake, students must take at least 3 credit units from the General Education (GE) courses in fulfilment of the Out-of-Discipline (OOD) requirement and this would be applicable to senior year entrants from 2009/10. However, students taking a Minor to fulfil the OOD requirement would not be required to take an addition of 3 credit units from the GE courses.

Course Code	Course Title	Level	Units Worth	Remarks (e.g. College Accreditation, or Exemption requirements, etc.)
N.A.	As per student choice of electives	B	9	Any GE courses, MEEM or non-MEEM courses not listed in the programme core and electives at B2 level or above for a total of 9 credit units.

2.2 Programme Core Courses: (69 credits)

Course Code	Course Title	Level	Units Worth	Remarks (e.g. College Accreditation, or Exemption requirements, etc.)
MA2176	Basic Calculus and Linear Algebra	B2	3	Students having obtained Grade C or above in both MA1002 <i>Higher Mathematics I (B)</i> and MA1004 <i>Higher Mathematics II (B)</i> in their Foundation Year can be exempted from MA2176 <i>Basic Calculus and Linear Algebra</i> . Instead, they will take an additional course from the list of Programme Electives.
MA2172	Applied Statistics for Sciences and Engineering	B2	3	
CS2363	Computer Programming	B2	3	
MEEM2003	Mechanics	B2	3	
MEEM2004	Engineering Principles and Design	B2	3	
MEEM2016	Computer-Aided Engineering Drawing	B2	3	
MEEM2020	Engineering Workshop Practice	B2	0	This course is exclusively designed for Full-time year ONE students who do not have any experience in engineering workshop practices. Students who have HD or AD and relevant experience in workshop practices may be exempted.
MEEM2029	Electrical and Electronic Principles I	B2	3	
MEEM2034	Introduction to Engineering Materials and Manufacturing Processes	B2	3	
MEEM2039	Introduction to Total Quality Engineering	B2	3	
BCH2801	Characterization and Analysis of Chemical Hazards I	B2	3	
MEEM3061	Instrumentation and Testing Technologies	B3	3	
MEEM3062	Quality Engineering I	B3	3	
MEEM3053	Quality Improvement Methodologies	B3	3	
MEEM3063	Material Analysis for Product Quality	B3	3	
BCH3802	Characterization and Analysis of Chemical Hazards II	B3	3	
MEEM4025	Quality Systems and Management	B4	3	
MEEM4058	Product Health, Safety, Environmental Standards and Compliance	B4	3	
MEEM4059	Advanced Monitoring and Inspection Techniques	B4	3	
MEEM4062	Quality Engineering II	B4	3	
MEEM4064	Reliability Engineering	B4	3	
MEEM4068	Project (Individual)	B4	9	Student must fulfil either MEEM4068 or MEEM4069
MEEM4069	Group Project			

2.3 Programme Electives: (9 credits) [Select THREE from the following]

Course Code	Course Title	Level	Units Worth	Remarks (e.g. College Accreditation, or Exemption requirements, etc.)
MEEM3006	Plastics Engineering	3	3	
MEEM3020	Engineering Economic Analysis	3	3	
MEEM3034	Work Design	3	3	
MEEM3056	Engineering Management Principle and Practice	3	3	
AP3110	Deformation and Fracture	3	3	
MEEM4024	Project Management	4	3	
MEEM4023	Occupational Health & Safety Management	4	3	
MEEM4043	Global Operations Management	4	3	
MEEM4047#	Directed Studies	4	3	
MEEM4066	Professional Engineering Practice	4	3	

only for special occasions

2.4 Internship Courses (Optional)

Course Code	Course Title	Level	Units Worth	Remarks
FS4001	Co-operative Education Scheme (CES)	B4	8	A year-long company attachment during final year of study
FS4002	Industrial Attachment Scheme (IAS)	B4	3	Summer Internship

2.5 Classification of Award

Classification	CGPA
1 st Class	CGPA 3.50 or above
2 nd Upper	CGPA 3.00-3.49
2 nd Lower	CGPA 2.50-2.99
3 rd Class	CGPA 2.00-2.49
Pass	CGPA 1.70-1.99

3. ACADEMIC REGULATIONS AND GUIDELINES

Students should observe the University's academic regulations and guidelines at all times. More information can be available by referring to the following websites maintained by the Academic Regulations and Records Office (ARRO).

ARRO Homepage: <http://www.cityu.edu.hk/arro>

4. COMMUNICATIONS

Listed below are the normal channels of communication between students and courses / programme / department :

- a) Students having difficulties in a course of study should first talk to the course teacher concerned.
- b) A student who wishes to discuss the overall organization of the programme should speak to the Programme Leader.
- c) A student who wishes to discuss issues on a particular part of the programme should speak to the relevant Year Tutor.
- d) The programme's Joint Staff & Student Consultative Committee helps to facilitate consultation and communication. A student from each entry cohort will be elected to sit in the Committee.
- e) In addition, a student from each entry cohort will be elected to sit in the Programme Committee which meets every semester to discuss programme-related matters.
- f) Students should feel free to approach their respective academic advisors for advice regarding their study plan or personal and career development.

5. PROGRAMME LEADERS AND YEAR TUTORS

<u>Position</u>	<u>Staff Name</u>
Programme Leader :	Dr. K. S. Chin
Deputy Programme Leader :	Dr. H. Y. Tam
Year Tutor :	
2009-10	Dr. Zhang Kaili
2010-11	Dr. Oscar Hui
Co-ordinator :	Ms. Agnes Lee

6. INFORMATION TO NEW MEEM STUDENTS

6.1 **How to access your Personal Class Schedule**

- i) Go to <http://www.cityu.edu.hk> from any terminal on campus or off campus.
- ii) Click “Students” and then log onto “e-Portal/Blackboard”.
If you have problems in logging in, please follow the instructions in “Having problems logging in?”.
- iii) Select “View Student Schedule” under the “Courses I am taking” box.
- iv) Press the “View Detail Schedule” button at the bottom of your timetable to display details of your class schedule.

6.2 **How to get Instructors’ handouts through Blackboard**

- i) Log onto the CityU e-Portal from any terminal on campus or off campus.
- ii) Enter the course under “My Courses”.
- iii) Click “Current Semester Courses” or “Other Courses”.

6.3 **How to check Programme Requirements and Course Syllabus**

Log onto the CityU home page and click “Academic Programme”.

6.4 **Course Registration for Semester A 2010-2011**

For Semester A 2010-2011, students will be pre-registered in required courses and programme electives in most cases if possible.

- i) The date for release of your class schedule is **27 July 2010**. Please check your curriculum requirements, review your study plan and then make appropriate adjustments to your pre-registered courses.
- ii) Add/Drop of courses can be made through AIMS for web-enabled courses during the web registration period. For non-web-enabled courses, approval is required from the programme department and you can submit your change request by using the Add/Drop Form.

How to do the Add/ Drop:

- Go to <http://www.cityu.edu.hk> from any terminal on campus or off campus and click “Students”.
- Log onto “AIMS” and then click “Course Registration”.
- Choose “Add or Drop Classes”.

- iii) Web registration begins on **16 August 2010** but you need to check your time ticket first from “AIMS”.
- iv) All add/drops end on **6 September 2010**.
- v) Detailed arrangements on Course Registration for Semester A 2010-2011 will be posted by **27 July 2010**. For details, please refer to ARRO website:
<http://www.cityu.edu.hk/arro/crsreg/>.

6.5 How to access your Student Email Account

- i) Go to <http://www.cityu.edu.hk> from any terminal on campus or off campus and click “Students”.
- ii) Click “Email” and then “@student.cityu.edu.hk”.
- iii) Enter your student number as username and password.
- iv) Then you can read and compose mail.

Important notes:

- 1. For email communication, please state your student name, number and contact telephone number.*
- 2. Always check and clear your email account, make sure it will not exceed quota (Max. 50M).*

6.6 Credits Transfer

Applications for credit transfer are accepted at the beginning of the semester/term. For Semester A 2010-2011, the application period is from **12 July 2010 to 27 August 2010**. For details, please refer to ARRO website: <http://www6.cityu.edu.hk/arro/content.asp?cid=10>.

6.7 Safety Orientation

All students are REQUIRED to complete the on-line Safety Orientation through the MEEM On-line Information System (IntraMEL). A Lab Tour session will be held by the MEEM Laboratory Office in week 1 of Semester A. Students who fail to do so will not be allowed to attend laboratory classes. Details of the session will be sent to you by e-mail.

6.8 Administrative Support from MEEM General Office

Normal

Mon to Fri	8:30am to 5:30 pm
<i>Lunch Break</i>	<i>12:30pm to 1:45pm</i>
Sat	9:00am to 12:00 noon

Add/Drop Period of Each Semester

Mon to Fri	8:30 am to 6:30 pm
<i>Lunch Break</i>	<i>12:30pm to 1:45pm</i>
Sat	9:00am to 12:00 noon

Inquiry:	3442-8420
Fax:	3442-0172
Email:	mego@cityu.edu.hk