

BSc (HONS) / DIPLOMA OF HIGHER EDUCATION INTERNATIONAL FIRE SAFETY ENGINEERING

Duration: Diploma of Higher Education 2 years full-time study, BSc (Hons) 4 years full-time study.

Entry requirements: Applicants will normally have completed 12 years of secondary schooling and having followed Pure Mathematics stream, or the equivalent, with a grade D or higher in Mathematics, Physics, Chemistry and English. Applicants with non-standard entry qualifications will be assessed individually on merit. Applicants will be required to have a minimum average level of proficiency in English Language equivalent to IELTS band 4.5 with no band in any of the four skills (reading, listening, speaking writing) lower than 4.0. The programme includes structured provision for further development of English Language skills.

A Foundation entry programme which starts in September of each year and runs until December is available. The foundation programme is designed to develop both English Language skills, numeracy and study skills to support students transition to studying in a Higher Education environment. English Language proficiency required for entry onto the Foundation programme is IELTS band 4.0 with no band in any of the four skills (reading, listening, speaking writing) lower than 3.5.



Start Date: January of each year

Fee: 17,500 QAR per year, total fee 70,000 QAR

A course for those interested in seeking or advancing a professional career within the fire industry, including civil defence fire and rescue services, construction and specialist fire engineering companies, or the wider public sector.

Course overview

Fire engineering explores how fires work, the effects they have on people, society and the environment, and how they can be prevented or suppressed. This course focuses on fire in the context of buildings and infra-structure, the technology for predicting fires and designs for fire prevention. As building design becomes increasingly more innovative and the development of building materials has rapidly advanced, the need for highly qualified fire engineers to ensure the safety of a building's occupants has increased.

This course is designed for students aiming to occupy roles after graduation within fire engineering in either the public or private sectors. Fire safety engineering is a discipline in itself but also overlaps with chemistry, physics, mathematics, materials, computational engineering, law, psychology and sociology. This course combines academic, practical elements and work placements thereby increasing students' employability potential. The course is supported by an English language and study skills programme to prepare students for employment globally.

The education of the fire professional should cater for the many new developments and their associated problems occurring in the field of application. Innovative design cannot always be covered by prescriptive solutions and hence the application of principles and development of engineered solutions are employed in solving these often complex problems. It is precisely the development of novel solutions within the often contradictory constraints of safety, economy, law and technology which pose the challenge. Integration across diverse fields in order to propose an acceptable design or management decision is a major feature of the diploma programme. The course will be delivered from the Ras Laffan Emergency and Safety College which has an internationally renowned reputation for the education and training of fire professionals. The college combines state of the art facilities with leading academic and professional trainers from across the world.

The Diploma programme provides students with the generic skills required by a fire safety inspector, while the BSc (Hons) develops the necessary design and fire modelling competencies necessary for a fire safety engineer. This programme also further develops critical thinking and research skills which would support higher level study in this area.

Why Ras Laffan Emergency and Safety College (RLESC)?

- **A course developed to meet the requirements of both Civil Defence organisations and commercial fire safety engineers.**
- **Delivered at the internationally-leading fire training facilities at RLESC.**
- **The academic programme is delivered by UCLan staff who have been recruited for their experience as fire professionals.**
- **An opportunity to obtain an Advanced Diploma in two years, with the potential of obtaining a BSc by spending one academic year in the UK.**

Key Message

A qualification in Fire Safety Engineering provides the opportunity for a professional career within the fire industry, including civil defence fire and rescue services, construction and specialist fire engineering companies, or the wider public sector.

YEAR 1

Code / Course Title	Credits
FV1001 Introduction to Combustion and Fire	20
FV1100 English for Fire Safety (I)	10
FV1102 Academic Skills and English (I)	10
FV1103 Skills for Fire Studies	10
FV1106 Academic Skills and English (II)	10
FV1109 English for Fire Safety (II)	10
FV1110 Fire Safety in the Community	10
FV1202 Engineering Design Practice	20
FV1302 Engineering Analysis	20

YEAR 2

Code / Course Title	Credits
FV2004 Fire Safety Management and Legislation	20
FV2102 Safety Health and Environment	20
FV2103 Project Management	10
FV2105 Academic Skills and English (III)	10
FV2106 Fire Safety for Communities	20
FV2108 Academic Skills and English (IV)	10
FV2203 Computer Aided Engineering	10
FV2207 Structure, Materials and Fire	20

YEAR 3

Code / Course Title	Credits
FV2001 Fluid Dynamics of Fire	20
FV2104 Control of Hazardous Materials	20
FV2204 Computational Engineering	20
FV2301 Engineering Analysis 2	20
FV2401 Risk and Safety Engineering	20
FV3002 Fire Protection Engineering	20

YEAR 4

Code / Course Title	Credits
FV3001 Enclosure Fire Dynamics	20
FV3004 Fire Investigation	20
FV3103 Hazards and Risk Management	20
FV3201 Engineering Design Project	20
FV3900 Engineering Dissertation	20
FV3985 Communication and Research Studies	20

For further information, please contact:

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