



IICSE University
...a liberal arts education

MS in Fire Protection and Safety Engineering **Graduate Program**

Master of Science in Fire Protection and Safety Engineering

Fire Suppression



MS

**FIRE PROTECTION & SAFETY
ENGINEERING**

Acquire the skill set that will lead to success. Fire protection engineering is a multidisciplinary program that combines principles from various areas of science and engineering. Our program enables you to study how to apply these principles to the problem of fire protection by designing, constructing, and installing fire protection systems to prevent or minimize potential losses.

Course topics include Fire Dynamics, System Safety Analysis, Industrial Fire Safety, Fire Protection Design, among others. It is basically designed to provide you with a strong background in math and science, while also educating you about the dynamics of fire and fire protection systems.

You will begin by laying a firm foundation in mathematics, science, and engineering, then progress to acquiring the critical-thinking and problem-solving skills that are vital in this field.

The Fire Protection and Safety Engineering Technology program is a unique program that provides you with the knowledge to investigate fire damage; research why protective measures failed, and identify how more effective fire prevention methods can be developed and designed.

www.iicseuniversity.org



The Program Structure:

Course Code	MS: First Semester Courses	Credit
ENG 801	Fire Science Dissertation	5
ENG 802	Research Methods	5
ENG 803	Advanced Engineering Design Project	5
ENG 804	Fire in Buildings	5
ENG 805	Computational Fluid Dynamics	5
ENG 806	Fire Engineering Solutions	5
TOTAL CREDITS		30
Course Code	MS: Second Semester Courses	Credit
ENG 811	Energy and Sustainability	5
ENG 812	Risk Assessment and Management	5
ENG 813	Safety Health and Environmental Management	5
ENG 814	Accidents and Catastrophes	5
ENG 815	Emergency Preparedness and Response	5
ENG 816	Computational Fluid Dynamics	5
TOTAL CREDITS		30
Course Code	MS: Third Semester Courses	Credit
ENG 821	Fire Protection Strategies	5
ENG 822	Fire and Combustion	5
ENG 823	Forensic Analysis	5
ENG 824	Expert Witness in the Legal Process	5
ENG 825	Practical Fire Investigation	5
ENG 826	Human Response to fire	5
TOTAL CREDITS		30
Course Code	MS: Fourth Semester Courses	Credit
ENG 831	Human Factors Methods	5
ENG 832	Fire Safety, Explosions and Process Safety	5
ENG 833	Environmental Impact Assessment	5
ENG 834	Value and Risk Management	5
ENG 835	Project Management Theory and Practice	5
ENG 836	Master Thesis	5
TOTAL CREDITS		30

The thesis

A thesis on a particular topic of your choice (with a Supervisor's approval) will be completed by each student in the last semester. There is considerable scope in the choice of subject areas by the student and the research method employed. Each student is allocated a supervisor who guides them through the thesis. The thesis aims to assimilate the theoretical and practical elements of the academic program of study.

Duration of program: A Semester runs for a period of three months. Our "Master's Degree" programs are completed within the period of four semesters (one year). We allow extension in the period of study, in case your courses could not be completed within the stipulated time frame. No additional fee, no extra charge for extension in the period of study.

How to apply

Prospective student must complete the Admission Form and pay the processing fee of \$45 USD or its equivalent. The processing fee is refundable if admission is denied.



Applications for the program:

Applications for this program are made online by going to www.iicseuniversity.org/apply.html

