EMFSEN

Semester 1

Fire Dynamics

Thermodynamics,Heat and Mass Transfer

Modelling of Turbulence and Combustion

FSE Based Firefighting

Semester 2

Fluid Mechanics Applications in Fire

Semester 3

Active Fire Protection I: Detection and Suppression

Active Fire Protection II: Smoke and Heat Control

Computional Fluid Dynamics for FSE

Semester 4

Fire Safety Strategy Project

Active Fire Protection

Semester 1

- Explosions and Industrial Fire Safety
- Material Behaviour at Ambient & Elevated Temperatures
- Thermodynamics, Heat and Mass Transfer
- Fire Dynamics
- *Analysis of Structures*

OR

- *Design for Structural Fire Resistance*

Semester 2

- Compartmentation Strategies
- Risk Management
- Structural Fire Engineering

Semester 3

- Passive Fire Protection
- Computional Fluid Dynamics for FSE
- *Design for Structural Fire Resistance*

OR

- *Applications of Advanced Structural Fire Engineering*

Semester 4

- Fire Safety Strategy Project

Structural Fire Engineering

Semester 1

- Fire Dynamics
- Thermodynamics,Heat and Mass Transfer
- Explosions and Industrial Fire Safety
- *FSE Based Firefighting*

Semester 2

- Risk Management

Semester 3

- Active Fire Protection I: Detection and Suppression

Industrial Fire Safety

EMFSEN

Semester 1

- *Introduction to Entrepreneurship*
- *Data-Driven Management of Fire Incidents*
- Fire Research Seminar

Semester 2

- Interaction between People and Fire

Semester 3

- Performance-Based Design
- Fire Safety and Legislation

Semester 4

- Fire Safety Strategy Project

Active Fire Protection

Industrial Fire Safety

Structural Fire Engineering

Performance-Based Design