

CIVL 7012 BUILDING FIRE SERVICES

Credit Points 10

Legacy Code 300711

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Description This unit describes the various types and application of building services and fire safety systems. It introduces appropriate standards for building fire service system design and the methods of applying recommendations of fire engineering assessments with respect to building services and fire safety systems.

School Eng, Design & Built Env

Discipline Building Services Engineering

Student Contribution Band HECS Band 2 10cp

Level Postgraduate Coursework Level 7 subject

Equivalent Subjects LGYC 0661 - Building Fire Services

Restrictions

Students must be enrolled in a postgraduate program.

Assumed Knowledge

Building surveying, fire safety engineering and related disciplines.

Learning Outcomes

On successful completion of this subject, students should be able to:

1. explain the operation of building fire services
2. identify and apply the relevant standards for building fire services
3. describe the relationship between fire brigade intervention and fire safety design
4. assess the adequacy of building fire safety system designs

Subject Content

Building Fire Safety Systems
 Smoke Hazard Management
 Automatic Fire Detection
 Fire Hydrants
 Hose Reels and Extinguishers
 Fire Sprinklers
 Special Hazard Extinguishment
 Warning, communication signage and lighting
 Emergency Planning and Response
 Environment in which Fire Brigade Intervention Model operates
 The Fire Brigade Intervention Model
 Fire Brigade Operations
 Fire System Reliability
 Fire awareness
 Hazard reduction & performance based designs and servicing, maintenance and certification.

Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are

regularly updated, where there is a difference your Learning Guide takes precedence.

Item	Length	Percent	Threshold	Individual/Group Task
Quiz 1	Short quiz with 10 multiple choice questions.	10	N	Individual
Assignment 1. Essay and analytical.	1500 words	20	N	Individual
Quiz 2	Short quiz with 10 multiple choice questions.	10	N	Individual
Assignment 2. Essay and analytical.	3000 words.	40	N	Individual
Assignment 3. Essay and analytical.	1500 words	20	N	Individual

Teaching Periods

Spring

Online

Online

Subject Contact Sameera Wijesiri Pathirana ([https://directory.westernsydney.edu.au/search/name/Sameera Wijesiri Pathirana/](https://directory.westernsydney.edu.au/search/name/Sameera+Wijesiri+Pathirana/))

View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=CIVL7012_22-SPR_ON_O#subjects)