

SBS5313 Fire Services <http://ibse.hk/SBS5313/> Teaching Schedule 2018-2019

Semester 1, Friday, 9:30 a m-12:30 p m(lecture 2 hours, tutorial 1 hour, in average), venue: LT5, THEi-TY

Ref.	Date	Topics	Lecturer(s)
A01	07-Sept-2018 (Fri)	Module introduction; Fundamental concepts of building fires, fire characteristics and hazards; types of fire services installations; Fire safety law/regulation/code requirements for buildings; F S Notes in drawings submitted to BD.	Ir Prof K P Cheung
A02	14-Sept (Fri)	https://www.hkfsd.gov.hk/eng/source/safety/File2012.pdf : 5.8 Emergency generator & 5.16 Fireman's lift -Electrical power and control for fire pumps and F S Installations	Ir Dr Y F Kwok yfkwok@vtc.edu.hk
A03	21-Sept	Passive fire protection, firemen access, high rise fire safety, smoke control and fire engineering approach	Ir Prof K P Cheung & guest speaker
A04	28-Sept	Fire hydrant & hose reel systems: design principles and hydraulics. Issuance of Mini design project –group project -15 groups (15% marks): Design of Fire Hydrant System & Sprinkler System	Ir Prof K P Cheung
A05	05-Oct	Tutorial Session on Design of fire hydrant system of Mini Design project– Room 614 : Each group 20 minutes = 9 groups each of 11 students	Ir Prof K P Cheung
A06	12-Oct	Automatic sprinkler systems : design principles and hydraulics ; Further briefing on Mini design project	Ir Prof K P Cheung
A07	19-Oct (Fri)	https://www.hkfsd.gov.hk/eng/source/safety/File2012.pdf : 5.1 Audio/visual advisory system 5.2 Automatic actuating devices (Electrical and electronic parts) 5.9 Emergency lighting & 5.10 Exit sign (& circuitry fundamentals) 5.11 Fire alarm system & 5.12 Fire control centre 5.13 Fire detection system & 5.15 Fire resisting cable for fire service installations	Ir Dr Y F Kwok yfkwok@vtc.edu.hk

A08	26-Oct	Tutorial Session on Design of sprinkler system of Mini Design project– Room 614 : Each group 20 minutes = 9 groups	Ir Prof K P Cheung
A09	02-Nov	Further discussion on Hydraulics for Fire Hydrant and Hose Reel Systems & Automatic Sprinkler system; Briefing of laboratory work	Ir Prof K P Cheung
A10	09-Nov	Hand-in of Mini design project: group project, (15%); BSE Laboratory- Room 614 on 3 experiments: (10%) -Experiment 1: Reynolds Experiment -Experiment 2: Pumps operating in parallel and in series - Group report: 11 persons to write 2 reports of 2 experiments: - 9 groups of 99 students, each group of 10-11 students	Ir Prof K P Cheung
A11	16-Nov	Pre-action sprinkler systems; Drencher systems	Ir Prof K P Cheung
A12	23-Nov	Gas protection systems : CO2, clean fire fighting agents, FM200	Ir Prof K P Cheung
A13	30-Nov	Hand-in of Laboratory Group work report (10% marks) Commissioning and Testing of fire services installations; Some common fire tests used in Hong Kong	Ir Prof K P Cheung
A14	07-Dec 2018	In-class test : 1.5 hour (15% marks); Revision	Ir Prof K P Cheung
Exam	Dec 2018	Written examination: (60% marks) - Date & Time: ?? - Venue: The Grand Hall, THEi Building, Tsing Yi	Ir Prof K P Cheung

Assessment Methods:

Mini design project : 15%

Laboratory work : 10%

In-class test : 15%

Examination : 60%