

Doctor of Philosophy (PhD) in Fire Protection and Safety Engineering

YEAR ONE

Course Code	PhD: First Semester Courses Year 1	Credit
FSE 901	Applied Fire and Safety Analysis	2
FSE 902	Fire Service Emergence Aids	3
FSE 903	Hazardous Materials	3
FSE 904	Fire Protection Structure and System Design	2
FSE 905	Fire Arson and Explosion Investigation	2
FSE 906	Fire Protection Hydraulics and Water Supply	3
TOTAL CREDITS		15
Course Code	PhD: Second Semester Courses Year 1	Credit
FSE 911	Principles of Occupational Safety and Health	2
FSE 912	System Safety Analysis	3
FSE 913	Advanced Structural Fire Protection	3
FSE 914	Industrial Fire Safety	2
FSE 915	Fire Protection Design	2
FSE 916	Year One: Independent Research I	3
TOTAL CREDITS		15

YEAR TWO

Course Code	PhD: First Semester Courses Year 2	Credit
FSE 921	Statistics and Strength of Materials	2
FSE 922	Fire Service Management and Acts	3
FSE 923	Fire Drill and Equipment Handling	3
FSE 924	Fire Service Operations	2
FSE 925	Fire Ground Operational Techniques	2
FSE 926	Fire Service Communication and Mobilizing	3
TOTAL CREDITS		15
Course Code	PhD: Second Semester Courses Year 2	Credit
FSE 1001	Fire Service Operations	2
FSE 1002	Environment and Sustainable Development	3
FSE 1003	Fire Service Technology and Media	3
FSE 1004	Fire Service Equipment	2
FSE 1005	Safety Provisions and Precaution in industry	2
FSE 1006	Year Two: Independent Research II	3
TOTAL CREDITS		15



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YEAR THREE

Course Code	PhD: First Semester Courses Year 3	Credit
FSE 1011	Fire Science Dissertation	2
FSE 1012	Advanced Engineering Design Project	3
FSE 1013	Computational Fluid Dynamics	3
FSE 1014	Fire Engineering Solutions	2
FSE 1015	Safety Health and Environment Management	2
FSE 1016	Human Factor Methods	3
TOTAL CREDITS		15
Course Code	PhD: Second Semester Courses Year 3	Credit
FSE 1021	Fire Safety, Explosions and Process Safety	2
FSE 1022	Environmental Impact Assessment	3
FSE 1023	Value and Risk Management	3
FSE 1024	Project Management Theory and Practice	2
FSE 1025	Year Three: PhD Research Thesis	5
TOTAL CREDITS		15

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