

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	5
FSE 902	Fire Service Emergence Aids	5
FSE 903	Hazardous Materials	5
FSE 904	Fire Protection Structure and System Design	5
FSE 905	Fire Arson and Explosion Investigation	5
FSE 906	Fire Protection Hydraulics and Water Supply	5
TOTAL CREDITS		30
Course Code	PhD: Second Semester Courses Year 1	Credit
FSE 911	Principles of Occupational Safety and Health	5
FSE 912	System Safety Analysis	5
FSE 913	Advanced Structural Fire Protection	5
FSE 914	Industrial Fire Safety	5
FSE 915	Fire Protection Design	5
FSE 916	Year One: PhD Research Thesis	5
TOTAL CREDITS		30

YEAR TWO

Course Code	PhD: First Semester Courses Year 2	Credit
FSE 921	Statistics and Strength of Materials	5
FSE 922	Fire Service Management and Acts	5
FSE 923	Fire Drill and Equipment Handling	5
FSE 924	Fire Service Operations	5
FSE 925	Fire Ground Operational Techniques	5
FSE 926	Fire Service Communication and Mobilizing	5
TOTAL CREDITS		30
Course Code	PhD: Second Semester Courses Year 2	Credit
FSE 1001	Fire Service Operations	5
FSE 1002	Environment and Sustainable Development	5
FSE 1003	Fire Service Technology and Media	5
FSE 1004	Fire Service Equipment	5
FSE 1005	Safety Provisions and Precaution in industry	5
FSE 1006	Year Two: PhD Research Thesis	5
TOTAL CREDITS		30



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YEAR THREE

Course Code	PhD: First Semester Courses Year 3	Credit
FSE 1011	Fire Science Dissertation	5
FSE 1012	Advanced Engineering Design Project	5
FSE 1013	Computational Fluid Dynamics	5
FSE 1014	Fire Engineering Solutions	5
FSE 1015	Safety Health and Environment Management	5
FSE 1016	Human Factor Methods	5
TOTAL CREDITS		30
Course Code	PhD: Second Semester Courses Year 3	Credit
FSE 1021	Fire Safety, Explosions and Process Safety	5
FSE 1022	Environmental Impact Assessment	5
FSE 1023	Value and Risk Management	5
FSE 1024	Project Management Theory and Practice	5
FSE 1025	Year Three: PhD Research Thesis	10
TOTAL CREDITS		30

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