



Rashtrasant Tukadoji Maharaj Nagpur University
Faculty of Science and Technology

Scheme of Absorption
for
B. Tech (Fire Engineering)
Board of Studies, Fire Engineering

Scheme of Absorption for Semester Pattern of B. Tech. Fire Engineering (CBCS)								
As per RTM Nagpur University (CBS Pattern)					As per RTM Nagpur University (CBCS Pattern)			
S. No	Sub Code Theory/ Practical	Board	Subject	Theory/ Practical	Sub Code Theory/ Practical	Board	Subject	Theory/ Practical
THIRD SEMESTER B. TECH (FIRE ENGINEERING)					THIRD SEMESTER B. TECH (FIRE ENGINEERING)			
1	FESIII-01	FIRE	Applied Mathematics-III	Theory	ESC-FE-201	FIRE	Fluid Mechanics	Theory
2	FESIII-02	FIRE	Building Planning & Construction	Theory	ESC-FE-202	FIRE	Advanced Electrical Systems	Theory
3	FESIII -03	FIRE	Fluid Mechanics	Theory & Practical	ESC-FE-203	FIRE	Structural Mechanics	Theory
4	FESIII -04	FIRE	Theory of Structure	Theory & Practical	ESC-FE-204	FIRE	Engineering Thermodynamics	Theory
5	FESIII -05	FIRE	Automobile Engineering	Theory & Practical	HSMC-FE-201	FIRE	Universal Human Values – II	Theory
6	FESIII -06	FIRE	Machine Design	Theory & Practical	ESC-FE-201(P)	FIRE	Fluid Mechanics Laboratory	Practical
7	FESIII-07	FIRE	Environmental Studies	Theory	ESC-FE-202(P)	FIRE	Advanced Electrical Systems Laboratory	Practical
8	FESIII -08	FIRE	Fire Ground Operation-III	Practical	ESC-FE-203(P)	FIRE	Structural Mechanics Laboratory	Practical
9					PCC-FE-201(P)	FIRE	Fire Ground Operations – III	Practical

Scheme of Absorption for Semester Pattern of B. Tech. Fire Engineering (CBCS)								
As per RTM Nagpur University (CBS Pattern)					As per RTM Nagpur University (CBCS Pattern)			
S. No	Sub Code Theory/ Practical	Board	Subject	Theory/P ractical	Sub Code Theory/ Practical	Boar d	Subject	Theory/P ractical
FOURTH SEMESTER B. TECH (FIRE ENGINEERING)					FOURTH SEMESTER B. TECH (FIRE ENGINEERING)			
1	FESIV-01	FIRE	Elements of Electronics & Communication	Theory & Practical	PCC-FE-202	FIRE	Fire Service Hydraulics	Theory
2	FESIV-02	FIRE	Engineering Thermodynamics		ESC-FE-205	FIRE	Heat and Mass Transfer	Theory
3	FESIV - 03	FIRE	Heat & Mass Transfer	Theory & Practical	ESC-FE-206	FIRE	Basic Electronics and Communication	Theory
4	FESIV - 04	FIRE	Computer Application	Theory & Practical	PCC-FE-203	FIRE	Fundamentals of Fire Engineering	Theory
5	FESIV - 05	FIRE	Applied Psychology	Theory & Practical	PCC-FE-204	FIRE	Structural Fire Protection	Theory
6	FESIV - 06	FIRE	Paramedics	Theory & Practical	PCC-FE-202(P)	FIRE	Fire Service Hydraulics Laboratory	Practical
7	FESIV - 07	FIRE	Fire Ground Operation-IV	Practical	ESC-FE-205(P)	FIRE	Heat and Mass Transfer Laboratory	Practical
8					ESC-FE-206(P)	FIRE	Basic Electronics and Communication Laboratory	Practical
9					PCC-FE-205(P)	FIRE	Fire Ground Operations – IV	Practical

Scheme of Absorption for Semester Pattern of B. Tech. Fire Engineering (CBCS)								
As per RTM Nagpur University (CBS Pattern)					As per RTM Nagpur University (CBCS Pattern)			
S No	Sub Code Theory/ Practical	Board	Subject	Theory/P ractical	Sub Code Theory/ Practical	Board	Subject	Theory/Pr actical
FIFTH SEMESTER B. TECH (FIRE ENGINEERING)					FIFTH SEMESTER B. TECH (FIRE ENGINEERING)			
1	FESV-01	FIRE	Fire Modeling	Theory & Practical	ESC-FE-201	FIRE	Fire Dynamics	Theory
2	FESV-02	FIRE	Fire Codes & Standards	Theory	ESC-FE-202	FIRE	Automobile Engineering	Theory
3	FESV -03	FIRE	Fire service hydraulics	Theory & Practical	ESC-FE-203	FIRE	Instrumentation and Control	Theory
4	FESV -04	FIRE	Fire Protection-I	Theory & Practical	ESC-FE-204	FIRE	Fire Protection	Theory
5	FESV -05	FIRE	Urban planning	Theory	HSMC-FE-201	FIRE	Fundamentals of Management	Theory
6	FESV -06	FIRE	Project-I	Practical	ESC-FE-201(P)	FIRE	Fire Laws	Practical
7	FESV -07	FIRE	Fire Ground Operation - V	Practical	ESC-FE-202(P)	FIRE	Fire Dynamics Laboratory	Practical
8					ESC-FE-203(P)	FIRE	Automobile Engineering Laboratory	Practical
9					PCC-FE-201(P)	FIRE	Instrumentation and Control Laboratory	Practical
10					PCC-FE-304 (P)	FIRE	Fire Ground Operations – V	Practical

Scheme of Absorption for Semester Pattern of B. Tech. Fire Engineering (CBCS)								
As per RTM Nagpur University (CBS Pattern)					As per RTM Nagpur University (CBCS Pattern)			
S No	Sub Code Theory/ Practical	Board	Subject	Theory/P ractical	Sub Code Theory/ Practical	Board	Subject	Theory/Pr actical
SIXTH SEMESTER B. TECH (FIRE ENGINEERING)					SIXTH SEMESTER B. TECH (FIRE ENGINEERING)			
1	FESVI-01	FIRE	Fire Protection-II	Theory & Practical	PCC-FE-305	FIRE	Fixed Fire Fighting Installations	Theory
2	FESVI-02	FIRE	Elective-I EI01. Fire & Smoke dynamics EI02. Artificial Intelligence Passive Measures for Fire Safety	Theory & Practical	PCC-FE-306	FIRE	Paramedics	Theory
3	FESVI - 03	FIRE	Fire Laws	Theory	PCC-FE-307	FIRE	Fire Modelling	Theory
4	FESVI - 04	FIRE	Design and Installation of Detection & Fire Fighting System-I	Theory & Practical	PCC-FE-308	FIRE	Fundamentals of Industrial Safety and Health	Theory
5	FESVI - 05	FIRE	Industrial, Rural and Forest Development	Theory	PCC-FE-309	FIRE	Fire Codes and Standards	Theory
6	FESVI - 06	FIRE	Special Hazards & Protection	Theory & Practical	PCC-FE-310	FIRE	Fire and Life Safety Audit	Practical
7	FESVI - 07	FIRE	Project Seminar-II	Practical	PCC-FE-305 (P)	FIRE	Fixed Fire Fighting Installations Laboratory	Practical
8	FESVI - 08	FIRE	Fire Ground Operation-VI	Practical	PCC-FE-306 (P)	FIRE	Paramedics Laboratory	Practical
9					PCC-FE-307 (P)	FIRE	Fire Modelling Laboratory	Practical
10					PCC-FE-311 (P)	FIRE	Fire Ground Operations – VI	Practical

Scheme of Absorption for Semester Pattern of B. Tech. Fire Engineering (CBCS)								
As per RTM Nagpur University (CBS Pattern)					As per RTM Nagpur University (CBCS Pattern)			
S No	Sub Code Theory/ Practical	Board	Subject	Theory/Practical	Sub Code Theory/ Practical	Board	Subject	Theory/Practical
SEVENTH SEMESTER B. TECH (FIRE ENGINEERING)					SEVENTH SEMESTER B. TECH (FIRE ENGINEERING)			
1	FESVII-01	FIRE	Engineering Economics	Theory & Practical	PCC-FE-401	FIRE	Fire and Arson Investigation	Theory
2	FESVII-02	FIRE	Elective-II EII01. Robotics and Robot Application EII02. Fire Retardants Design of Pressure Vessel for Fire Protection	Theory & Practical	PCC-FE-402	FIRE	Fire Risk Assessment	Theory
3	FESVII-03	FIRE	Fire & Arson Investigation	Theory & Practical	PCC-FE-403	FIRE	Special Hazards	Theory
4	FESVII-04	FIRE	Piping Design	Theory	PEC-FE- (401-404)	FIRE	Elective-I 401-Nuclear Reactors and Safety 402-Chemical Process Safety 403-Occupational Health & Hygiene Management 404-Disaster Management	Theory
5	FESVII-05	FIRE	Design and installation of Detection & Fire Fighting System-II	Theory & Practical	OEC-FE- (401-404)	FIRE	Open Elective – I 401-Robotics 402-Cyber Security 403-Internet of Thing 404-Artificial Intelligence	Theory
6	FESVII-06	FIRE	Fire Risk Calculations	Theory	PROJ-FE-401 (P)	FIRE	Mini Project	Practical
7	FESVII-07	FIRE	Fire Ground Operation-VII	Practical	PCC-FE-404 (P)	FIRE	Fire Ground Operation -VII	Practical
8					MC-FE-401 (P)	FIRE	Summer Internship	Practical

Scheme of Absorption for Semester Pattern of B. Tech. Fire Engineering (CBCS)								
As per RTM Nagpur University (CBS Pattern)					As per RTM Nagpur University (CBCS Pattern)			
S No	Sub Code Theory/ Practical	Board	Subject	Theory/Practical	Sub Code Theory/ Practical	Board	Subject	Theory/Practical
EIGHTH SEMESTER B. TECH (FIRE ENGINEERING)					EIGHTH SEMESTER B. TECH (FIRE ENGINEERING)			
1	FESVIII-01	FIRE	Industrial Training and Project	Practical	PROJ-FE-402 (P)	FIRE	Industrial Training and Attachment	Practical