



# IPS Academy

INSTITUTE OF ENGINEERING & SCIENCE

(A UGC Autonomous Institute affiliated to RGPV)

## List of Major Projects of (B.Tech) Final Year Students - 2021-22

### Fire Technology & Safety Engineering

**S.No. Title**

- 1 Design and modelling of accident alert system.
- 2 Risk Assessment of Accidents Caused By Improper Machine Safeguarding
- 3 Analysis of Major fire Accidents and existing fire fighting facilities in different location of Indore city
- 4 Designing a model for Fire-Extinguishing Robot by Using Arduino
- 5 Reliability evaluation of fire extinguisher- A safety approach.
- 6 Hazard Identification and Risk Assessment of an LPG Bottling Plant Using JSA, FMEA and HAZOP Integrated Methodology
- 7 Assessing the Consequences of Fire and Explosion due to Gas Leakage During Pipeline Transportation of LOG
- 8 Risk Assessment and mitigation model for steel plants process safety management
- 9 Design of Medium Velocity Water Spray System around storage tank
- 10 Accident prevention and control measures at construction works through implementation in engineering program.
- 11 Analysis of Hazards in gas chlorination units of water treatment plants by using Failure Mode Effects Method
- 12 Modelling Effects of Fire Accidents in chemical process plant by using HIRA method
- 13 Assessment and survey research on evacuation plan of hotels
- 14 An Analysis of Fire Sprinkler System Failures During Emergency
- 15 Design Analysis of Fire Safety System for Rail Compartments Monitoring using Automation Technology
- 16 Analysis of technical design for the establishment of fire safety sustainability in High rise building.
- 17 Hazard identification and risk assessment in heavy vehicle manufacturing industry.
- 18 Accident model on boiler explosion hazard in steel manufacturing plant

- 19 Risk Assessment for fire detection in heavy vehicles systems
- 20 Design and modeling of Intelligent Fire warning application Using internet of things
- 21 Occupational safety measures and morbidity among welders in India
- 22 Risk assessment of welders exposure to the released contaminated gases in different types of welding processes in a steel industry
- 23 Assessment and Design of the effectiveness of occupational health and safety management systems in SMEs
- 24 Evaluation of Occupant behavior in Evacuation Operations and their function in the high-rise building
- 25 Assessment of fire safety frame work existing for Oil & Gas Industries.
- 26 HSE Management and Hazard identification in petrochemical Industry.
- 27 Evaluation of Fire precaution and protection measure in Liquefied Petroleum Gas (LPG) Bottling Process plant.
- 28 Noise level assessment and its impact on human community in Industrial area.
- 29 Analysis and challenges in municipal solid waste management in Indore city