



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Technology and Science
Choice Based Credit System (CBCS) in Light of NEP-2020
Generic Elective

COURSE CODE	CATE-GORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
GUME601	GE	Introduction to Industrial Safety	60	20	20	0	0	4	0	0	4

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Educational Objective s(CEOs):

The subject aims to provide the student with:

- 1) To introduce the basic concepts of industrial safety.
- 2) To familiarize students with safety regulations and standards.
- 3) To provide knowledge on accident prevention, risk management, and emergency preparedness in industrial environments.
- 4) To promote awareness about occupational health and safety in various industries.

Course Outcomes (COs):

Students will able to:

- 1) Understand and apply the fundamentals of industrial safety.
- 2) Identify common hazards in industrial workplaces.
- 3) Recognize the importance of safety regulations and standards.
- 4) Develop safety protocols for various industrial processes.
- 5) Respond appropriately to emergency situations and accidents.

Syllabus:

UNIT I

Introduction to Industrial Safety: Definition of Industrial Safety, Importance of safety in, Role of industrial safety in reducing accidents and enhancing productivity, Types of industries.

UNIT II

Hazard Identification: Risk Assessment, Types of Industrial Hazards-Physical, chemical, biological, ergonomic, and psychosocial hazards, Hazardous materials and their handling.

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UNIT III

Occupational Health and Safety Regulations: Occupational health and safety management systems, Local safety regulations, Legal and Ethical Aspects of Industrial Safety, Worker's rights and employer responsibilities

UNIT IV

Safety in Specific Industrial Environments: Safety in Manufacturing Industries, Machine safety and operator training, Common injuries and preventive measures. Safety in Chemical and Hazardous Material Handling.

UNIT V

Emergency Preparedness and Safety Training and Awareness: Emergency Response Plans, Evacuation procedures and emergency drills, First aid, firefighting, **Safety Training and Awareness-** Developing safety training programs, Promoting safety awareness among workers.

Reference Books:

- 1) "Industrial Safety and Health Management" by C. Ray Asfahl.
- 2) "Fundamentals of Occupational Safety and Health" by Mark A. Friend and James P. Kohn.
- 3) "Safety Management Systems: A Guide to Developing & Implementing" by Frank R. Spellman.
- 4) "Industrial Safety, Health and Environment Management Systems" R.K. Jain and Sunil S. Rao, Khanna Publication.
- 5) "Industrial Safety Management: Hazard Identification and Risk Control", By L.M. Deshmukh, McGraw Hill Education.
- 6) "Fundamentals of Industrial Safety and Health" by S.C. Sharma, Khanna Publication.
- 7) "Safety and Quality Management in Industries" by K.C. Arora, S. Chand Publication.

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