

PGD in Real Estate Construction and Management		Trimester II	
Construction Safety		Code : RECM 09	
Periods per week		Lecture	03
		Practical	--
		Tutorial	02
Evaluation Scheme		Hours	Marks
	Term End Exam ( Theory)	03	100 (Weightage 50%)
	Internal Continuous Assessment	--	50 (Weightage 100%)
	Test	01	20
	Quiz/Viva/Presentations/Group work based on assignments given by faculty.	--	30
Objectives	<ul style="list-style-type: none"><li>To understand about construction safety, causes and measures to avoid accidents.</li><li>To understand the cost of accidents vis a vis cost of safety.</li><li>To study various policies and related laws.</li></ul>		
Outcome	After successful completion of the course, students will be able to: <ul style="list-style-type: none"><li>Understand and evaluate the safety requirements</li><li>Carry out an audit of a structure and assess the shortcomings</li></ul>		
Detailed Syllabus			
Units	Topics		Duration (Hrs.)
1	Human Factors:  Human behavior, Planned motivation schemes. The application of ergonomics in working situations, Principles of ergonomic design, Controls and displays, Display screen equipment, Manual handling injuries and conditions, Management actions Stress at Work, Post-traumatic stress disorder.		04

<b>2</b>	<b>Occupational Health:</b> Occupational Diseases and Conditions, Occupational health, Occupational diseases, The Employment Medical Advisory Service, Occupational health schemes, Benefit of occupational health services, absence control, procedures, absence monitoring.	<b>04</b>
<b>3</b>	<b>Selection of Work Equipment:</b> Principles of machinery safety, Other hazards associated with machinery operation, Machinery guards, Machinery safety devices, Planned maintenance.	<b>04</b>
<b>4</b>	<b>Fire Prevention:</b> The fire triangle, causes of fire spread, safety while using electrical appliances, explosives, fire extinction, fire application, colour coding of fire appliances, fire protection systems, legal requirements.	<b>04</b>
<b>5</b>	<b>Safety Regulations :</b> Labour laws, legal requirement and cost aspects of accidents on site. Study of safety policies, methods, equipment and training provided in construction company. Safety gadgets.	<b>04</b>
<b>6</b>	<b>Construction Safety Management :</b> Role of various stakeholders , duties and responsibilities of top management, site managers, supervisors, etc. role of safety officers, responsibilities of general employees, safety training, incentives and monitoring, writing safety manuals, preparing safety checklists and inspection reports. Cost of accidents and cost of safety, Insurance Policies related to safety.	<b>05</b>
<b>7</b>	<b>Investigation and Reporting :</b> Investigation of injuries, Diseases and Dangerous Occurrences, Principles of Accident Prevention, Accident definitions, Incidents ‘Hazard’, ‘Danger’ and ‘Risk’ , Accident and ill-health, Risk assessment, the role of the health and safety officer.	<b>05</b>
	<b>Total</b>	<b>30</b>

**Text Books:**

1. Vaid N. K.(1988) “ Construction Safety Management” NICMAR (Classic book).
2. Mishra R.K (2013) “Construction Safety” AITBS Publishers.

**References:**

1. Stranks, Jeremy (2010), “Health and Safety at Work: An Essential Guide for Managers”, 9th Edition
2. Girimaldi and Simonds (2004),” Safety Management”, AITBS Publication

**Internal Continuous Assessment**

1. One class test based on the above syllabus.
2. Quiz, viva, presentation, Group work, based on assignments given by faculty.