

SEMESTER -III

Subject : Human Factors

Theory

Topics	Level
9.1 General The need to take human factors into account; Incidents attributable to human factors/human error; 'Murphy's' law.	2
9.2 Human Performance and Limitations Vision; Hearing; Information processing; Attention and perception; Memory; Claustrophobia and physical access.	2
9.3 Social Psychology Responsibility: individual and group; Motivation and de-motivation; Peer pressure; 'Culture' issues; Team working; Management, supervision and leadership	1
9.4 Factors Affecting Performance Fitness/health; Stress: domestic and work related; Time pressure and deadlines; Workload: overload and underload; Sleep and fatigue, shiftwork; Alcohol, medication, drug abuse.	2
9.5 Physical Environment Noise and fumes; Illumination; Climate and temperature; Motion and vibration; Working environment.	1
9.6 Tasks Physical work; Repetitive tasks; Visual inspection; Complex systems.	1
9.7 Communication Within and between teams; Work logging and recording; Keeping up to date, currency;	2

Dissemination of information.	
9.8 Human Error Error models and theories; Types of error in maintenance tasks; Implications of errors (i.e accidents) Avoiding and managing errors.	2
9.9 Hazards in the Workplace Recognising and avoiding hazards; Dealing with emergencies.	2