

Semester Lecture Plan

Name of the college: Government College of Arts, Science & Commerce Khandola , Marcela – Goa.							
Name of Faculty: Devanand K Velingkar				Subject: Industrial Management			
Paper code: COC 111			Program/Course: B.Com			Division: A & B	
Academic year: 2022 - 23			Semester: V			Total Lectures: 60	
Course Objectives:							
<p>Unit - I 1) To understand the concept of Industrial Management and related concepts. 2) To conceive practical knowledge on principles of scientific management, factory location and factory layout..</p> <p>Unit – II 1) To understand the concept of productivity – factors, significance, role of NPC. 2) To seek practical knowledge on occupational hazards and their types.</p> <p>Unit –III 1) To understand the concept of TQM – its principles, benefits and methods of TQM 2) To analyse TQM’s management methods and analytical methods, ISO-9000-Concept- Standards and guidelines.</p> <p>Unit – IV 1) To understand concept of safety management, industrial accidents – causes, effects, prevention, occupational hazards. 2) To acquire practical knowledge on areas of above unit through group discussions, essays, case studies.</p>							
Course Learning Outcome:							
<p>Unit - I 1) Students would learn practical aspects of industrial management and related concepts. 2) Students shall apply their knowledge & skills to solve case studies, discussion on best processes and factory layouts.</p> <p>Unit – II 1) Students would learn practical aspects of productivity – factors, significance, Role of NPC. 2) Students shall apply their knowledge & skills to design better precautionary measures to deal with various types of hazards.</p> <p>Unit –III 1) Students would learn practical aspects of TQM – principles, benefits, methods of TQM. 2) Students shall apply their knowledge to debate on TQM’s management methods and analytical methods, ISO-9000-Concept- Standards.</p> <p>Unit – IV 1) Students would learn practical aspects on safety management, industrial accidents – causes, effects, prevention, occupational hazards. 2) Students shall apply their knowledge & skills on related areas of unit through group discussions, essays, case studies.</p>							
Mont h	Lectures From: To:	No. of lectu res	Topic, Sub-topic to be covered	Learning outcome	ICT Tools	Reference books	

			allotted				
July 2022	20/07/2022	23/07/2022	2	Unit- I Introduction to Industrial Management, Factory Location and Plant Layout (25 Marks -15 Lectures) Concept of Industrial Management - Industrial Management Process. Importance of IM	Students would learn practical aspects of Industrial Management	PPT on Industrial mgt. Scenario in India. & global scenario	Industrial Management by Rao. Thukaram.
	25/07/2022	30/07/2022	4	Scientific approach to Industrial Management - Concept, principles and significance of scientific management.	Students would undertake an assignment on related areas to understand practicalities.	Critical analysis of principles of Scientific mgt. PPT & videos	Factory Organisation and Mgt by Ashwathapa.
Aug 2022	01/08/2022	06/08/2022	4	Meaning and factors determining factory location. Plant layout-Concept, objectives.	Students would Sketch an own layout model after interaction with Engineers/ architects	Videos on layouts of factories in Industrial estates.	Refer, papers articles, net Ref. in management Journals
	08/08/2022	13/08/2022	4	Importance of plant layout. Factors influencing plant layout.	Students shall engage in discussion, & analyse on importance of various factors.	Description of various factors in Plant Layout. PPT, youtube	IM by Ghosarwadkar, Amonkar, Sadekar, Usgaonkar
	15/08/2022	20/08/2022	4	Types of layout (i) Product layout-meaning, merits (ii) Process Layout-meaning, merits	Identify difference between two main layouts and their benefits for higher productivity.	Videos on diff types of layout (Factory assembly line)	IM by N.G.Kale and Ahmad
	22/08/2022	27/08/2022	4	(iii)Combined Layout-concept only (iv) Fixed Layout –concept only. Problems of layout.	Field visit to fixed layout- ship building, bridge construction site. ISA –I – Assignment.	Field visit, PPT, videos on various layouts.	IM by N.G.Kale and Ahmad
Sept 2022	29/08/2022	Ganesh Vacation 10/09/2022	4	Unit- II Industrial Productivity and Work Environment (25 Marks-15 Lect) Meaning of Productivity: Factors affecting Industrial Productivity,	Students would learn practical aspects of Industrial productivity through class	ISA-I Written – Test Library reference in	Industrial Engineering and Management by Khanna, O.P.

				Significance of higher Industrial Productivity.	discussion, videos, Library references	books & journals.	
	12/09/2022	17/09/2022	4	Suggestions for Productivity improvement- Role of National Productivity Council. Work environment (concept) - Factors affecting Work Environment - Lighting, air, ventilation, temperature, water, sanitation and noise.	Ss would understand relevance of each factor by personally visiting nearby factory sites in industrial estates.	Videos, field visit to nearby Industrial Estate.	Industrial Health and Safety Mgt. by Sarma, A Productivity, Quarterly Journal
	19/09/2022	24/09/2022	4	Occupational Hazards- Meaning and types - Biological Hazards, Chemical Hazards and Psychological Hazards, Measures to minimize occupational hazards.	ISA-II- Written Test. Students shall understand & recreate difference between types of Hazards.	Videos on types of hazards, causes effects & Measures.	Case studies, Internet, Research Journals.
Oct 2022	26/09/2022	01/10/2022	4	Unit- III Total Quality Management (25 Marks-15 Lectures) Concept of TQM - Principles of TQM - Benefits of TQM. Methods of TQM – (A) Management methods (i) Benchmarking - Meaning, Types of Benchmarking.	Students will learn practical aspects of TQM through class discussion, videos, Library references	Library reference of books & journals.	Total Quality Management by Mukherjee, P.N.
	03/10/22	08/10/22	4	Steps in Benchmarking Process (ii) Deming Wheel - Steps in Deming wheel (iii) Just in time –Objectives (in brief) and Characteristics of Just in Time.	Ss would understand relevance of each method and analyse benefits of various methods.	Videos on various methods and success stories of each methods.	Industrial Engineering and Management by Khanna,O.P
	10/10/22	15/10/22	4	(iv) Quality Circles-Concept and features of Quality Circles (v) Six Sigma-Concept . (B)Analytical methods - (i) Critical Path Method - Process and advantages of Critical Path Method	Ss would understand relevance of each method and analyse benefits of various methods.	Comparative analysis of different methods	Industrial Engineering and Management by Khanna,O.P
	17/10/22	22/10/22	4	(ii) Force Field Analysis - Driving and restraining forces in decision making (iii) Failure Mode and Effect Analysis -	Compare and apply best methods for completion of various tasks.	Experience sharing on use and benefits of various	Refer Management Journals, articles, watch videos on

				Meaning and steps . ISO-9000- Concept- Standards and guidelines.		methods.	
	24/10/22	29/10/22	4	Unit-IV: Industrial Safety and Occupational Health (25 Marks-15 Lect) Definition of safety - Objectives of Safety Management. Industrial Accidents - Causes of Accidents (a) Mechanical causes (b) Human Causes.	Students will learn practical aspects of Industrial safety and occupational health through class discussion, videos, Library references.	Library reference of books & journals. Visit to nearby ESI centre.	Industrial Safety Chronicle, Quarterly Journal
Nov 2022	31/10/22	05/11/22	4	Effects of Industrial accidents on employers, workers and society. Code of practices for accident prevention.	Understand effects of accidents by interacting with concerned.	Videos & case studies.	Industrial Safety, Health and Environ Management Systems by Rao, Sunil. Jain R.K.,
Nov 2022	06/11/22	07/11/22	2	Occupational Health- Concept- Health program in industries - Role of National Institute of Occupational Health(NIOH) - legal provisions regarding health- OHSAS 18000- (Occupational Health and Safety Standards).	Participate, co-ordinate and understand occupational health programmes organised for workers.	Reference on net. Talk by resource person/ Doctor MCQ's. Oral Q & A.	Management Journals, articles case studies.

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