

Maharashtra State Board of Technical Education, Mumbai

TEACHING PLAN (TP)

Academic Year: 2025-26 (EVEN)

Institute Code and Name: 0078- K. K. Wagh Polytechnic, Nashik

Semester: SIXth

Programme and Code: Electrical Engineering (EE)

Course Index: 405

Course and Code: Management

Course Code: 315301

Scheme: K Allocated Hrs.: 45

Name of Faculty: Miss. M.R.Ramtirthkar

CLASS: SYEE-OHM

SCHEM. A. - INDICATED H.P.S. IS NAME OF FACULTY. CLASS. FILE OF

COURSE LEVEL LEARNING OUTCOMES (COS):

- CO1 - Use relevant management skills to handle work situation
- CO2 - Apply appropriate techniques of product, operations and project management
- CO3 - Use comprehensive tools of recent management practices
- CO4 - Plan suitable marketing strategy for a product / service
- CO5 - Utilize supply chain and human resource management techniques for effective management

TEACHING-LEARNING & ASSESSMENT SCHEME :

Course Code	Course Title	Abbr	Course Category	Learning Scheme			Credits	Paper Duration	Assessment Scheme								Total Marks			
				Actual Contact Hrs/Week					Theory		Based on LL & TSL Practical			Based on SL						
				SLH		NLH			FA-PR		SA-PR		SLA							
				F A- T H	S A- T H	Total														
315301	Management	MAN	AEC	3	-	-	1	4	2	1.5	30	70*#	100	40	-	-	-	25 10 125		

Total IKS Hrs for Sem. : 1 Hrs

Abbreviations: CL- ClassRoom Learning , TL- Tutorial Learning, LL-Laboratory Learning, SLH-Self Learning Hours, NLH-Notional Learning Hours, FA - Formative Assessment, SA -Summative assessment, IKS - Indian Knowledge System, SLA - Self Learning Assessment

Legends: @ Internal Assessment, # External Assessment, *# On Line Examination , @\\$ Internal Online Examination

Note:

1. FA-TH represents average of two class tests of 30 marks each conducted during the semester.
2. If candidate is not securing minimum passing marks in FA-PR of any course then the candidate shall be declared as "Detained" in that semester.
3. If candidate is not securing minimum passing marks in SLA of any course then the candidate shall be declared as fail and will have to repeat and resubmit SLA work.
4. Notional Learning hours for the semester are (CL+LL+TL+SL)hrs.* 15 Weeks
5. 1 credit is equivalent to 30 Notional hrs.
6. * Self learning hours shall not be reflected in the Time Table.
7. * Self learning includes micro project / assignment / other activities.

Maharashtra State Board of Technical Education

K-1

Academic Year: 2025-26

Program:Electrical Engineering (OHM)

Course: Management

Name of faculty: Miss.M.R.Ramtirthkar

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Unit No. (Alloted Hrs.)	CO Mention only Number	TLO Mention only Number	Unit Name and Learning Content Title/ Details	No. of Lecture	Plan (From-To)	Actual Execution (From-To)	Teaching method/ Media	Remark
I(05)	CO-1	1.1 1.2 1.3 1.4 1.5 1.6	Unit - I Introduction to management 1.1 Evolution of management thoughts from ancient/medieval to modern times in India (IKS)	1	18/12/2025		Chalk,Board + LCD Projector	
			1.2 Management: meaning, importance, characteristics, functions & challenges.	1	19/12/2025			
			1.3 Introduction to scientific management- Taylor's & Fayol's principles of management	1	20/12/2025			
			1.4 Levels & functions of management at supervisory level.	2	26/01/2025 TO 27/01/2025		Class room Demonstration+ PPT Presentations + MKCL ERA LMS	
			1.5 Self management skills: Self awareness, self discipline, self motivation, goal setting, time management, decision making, stress management, work life balance and multitasking					
			1.6 Overview of Managerial Skills: negotiation skills, team management, conflict resolution, feedback, leadership					

II(12)	CO-2	Unit - II Product, operation And project management <p>2.1 Creativity and innovation management: creativity techniques - brainstorming, checklist, reverse brainstorming, morphological analysis, six thinking hats.</p>		3	11/01/2025 TO 17/01/2025	Chalk,Bo ard + LCD Projector + PPT Presentat ions + MKCL ERA LMS			
		2.1	2.2 New product development, change management						
		2.2	2.3 Product Management - meaning, strategic steps for sustainable design of a product	3	01/01/2026 TO 03/01/2026				
		2.3	2.4 Agile product management- concept, benefits, principles and manifesto	3	08/01/2026 TO 10/01/2026				
		2.4	2.5 Project Management: importance, areas within project management,4Ps and phases						
		2.5	2.6 Tools of Project Management: PERT and CPM, GANTT & Chart Overview of Estimate and Budget	3	15/01/2026 TO 17/01/2026				
		2.6							
III(12)	CO-3	Unit - III Management practices <p>3.1 Quality circle, kaizen, Six Sigma, TQM</p>		3	22/01/2026 TO 24/01/2026	Chalk,Bo ard + LCD Projector + Class room Demonst ration+ PPT Presentat			
		3.1	3.2 5S, Kanban card system, TPM, Lean Manufacturing: Meaning, Steps and Importance						
		3.2		3	30/01/2026 TO 31/01/2026				
		3.3							
		3.4							
		3.5	3.3 Quality Standards and ISO: Meaning, ISO 9001:2016, ISO 14000, OSHA 2020.						

			3.4 The overview of ERP along with example	3	05/02/2026 TO 07/02/2026		ions	
			3.5 Service quality and customer/client satisfaction, service scape	3	12/02/2026 TO 14/02/2026			
IV(08)	CO-4	4.1 4.2 4.3 4.4	Unit - IV Marketing Management 4.1 Marketing management: meaning, significance, Seven P's of Marketing.	2	20/02/2026 TO 21/02/2026		Chalk,Bo ard + LCD Projector	
			4.2 Needs, wants and demands in marketing. Customer relationship management	2	26/02/2026 TO 28/02/2026		Class room Demonstration+	
			4.3 Types of marketing: traditional and digital marketing	2	05/03/2026 TO 07/03/2026		PPT Presentat ions	
			4.4 Event management: types, different aspects of event management, crisis management	2	12/03/2026 TO 14/03/2026			
V(08)	CO-5	5.1 5.2 5.3 5.4 5.5 5.6	Unit - V Supply chain &Human Resource 5.1 The overview of Supply Chain and logistics Management 5.2 Components of Supply Chain and logistics Management	2	20/03/2026 TO 20/03/2026		Chalk,Bo ard + LCD Projector + Class room Demonstration+	
			5.3 Role of information technology in supply chain & logistics management 5.4 Overview of Human Resource Management- Meaning,significance,scope and principles	2	27/03/2026 TO 28/03/2026		PPT Presentat ions + MKCL ERA LMS	
			5.5 Recruitment, selection and training of human resources. Chalk Circle 5.6 Qualities of a successful supervisor /team leader and types of leadership.	4	04/04/2026 TO 04/04/2026			

VI. LABORATORY LEARNING OUTCOME AND ALIGNED PRACTICAL / TUTORIAL EXPERIENCES : NOT APPLICABLE.

VII. SUGGESTED MICRO PROJECT / ASSIGNMENT/ ACTIVITIES FOR SPECIFIC LEARNING / SKILLS DEVELOPMENT (SELF LEARNING)

Assignment / Article

- Make a one page note based on a book of management you read.
- Write a short article on inventory management exploring online learning resources.
- Prepare a report on ISO standards applicable to your field. a. IATF 16949-2016 / SLA-TS 16949-2016, - Automotive Industry b. ISO 22000 — Food safety management c. ISO 50001 — Energy management d. ISO/IEC 27001 - Cyber Security e. ISO/DIS 4931-1 - Buildings and civil engineering works
- Prepare a 4 quadrant matrix of time management for managing the tasks.
- Prepare a report on any one software used for Supply Chain and Logistics Management.
- Prepare a GANTT Chart for project management related to your field.

SUGGESTED COS - POS MATRIX FORM

Course Outcomes (COs)	Programme Outcomes (POs)							Programme Specific Outcomes* (PSOs)		
	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Development of Solutions	PO-4 Engineering Tools	PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management	PO-7 Life Long Learning	PS O-1	PS O-2	PS O-3
CO1	1	1	1	-	-	2	3			
CO2	1	3	3	-	1	3	3			
CO3	1	3	1	-	1	1	3			
CO4	1	2	2	-	1	2	3			
CO5	1	1	2	-	1	2	3			

Legends :- High:03, Medium:02, Low:01, No Mapping: -

*PSOs are to be formulated at institute level

XII. SUGGESTED LEARNING MATERIALS / BOOKS

SUGGESTED LEARNING MATERIALS / BOOKS

Sr.No	Author	Title	Publisher with ISBN Number
1	A. K. Gupta	Engineering Management	S. Chand, ISBN: 81-219-2812-5, 2007, 2nd Edition
2	O. P. Khanna	Industrial Engineering &management	Dhanpat Rai Publication, ISBN: 978-8189928353, 2018
3	E. H. McGrath	Basic Managerial Skills for All	PHI ISBN: 978-8120343146, 2011, 9th Edition
4	K. Dennis Chambers	How Toyota Changed the World	Jaico Books ISBN: 978-81-8495-052-6, 2009
5	Subhash Sharma	Indian Management	New Age International Private Limited ; ISBN- 978-9389802412, 2020, 1st edition

LEARNING WEBSITES & PORTALS

Sr.No	Link / Portal	Description
1	https://www.debonogroup.com/services/core-programs/six-thinking-hats/	Six Thinking Hats
2	https://hbr.org/1981/09/managing-human-resources	HR Management
3	https://www.cdlogistics.ca/freight-news/the-5-components-of-supply-chain-management	Supply Chain Management
4	https://www.infosectrain.com/blog/understanding-the-concepts-of-gantt-chart-and-critical-path-methodology-cpm	PERT, CPM, GANTT Chart
5	https://testlify.com/test-library/creative-thinking/	Psychometric Tests
6	https://www.mindtools.com/	Management Skills
7	https://www.investopedia.com/terms/d/digital-marketing.asp	Digital Marketing

Miss.M.R.Ramtirthkar

(Name & Signature of Staff)

Prof.S. B. Pawar

(Name & Signature of HOD)