

**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

## **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		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					
				C	L		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

Institute Code: 0078

**Course Code:** 315301

## Semester: SIX (EE-6K)

Name of faculty: Miss.M.R.Ramtirthkar								
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	<b>Unit - I Introduction to management</b>  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	<b>Unit - II Product, operation And project management</b>  2.1 Creativity and innovation management: creativity techniques - brainstorming, checklist, reverse brainstorming, morphological analysis, six thinking hats.	3	<b>11/01/2025</b> <b>TO</b> <b>17/01/2025</b>	Chalk,Bo ard + LCD Projector + PPT Presentat ions + MKCL ERA LMS	
		2.1 2.2 2.3 2.4	3	<b>01/01/2026</b> <b>TO</b> <b>03/01/2026</b>		
		2.5 2.6	3	<b>08/01/2026</b> <b>TO</b> <b>10/01/2026</b>		
		. 2.6 Tools of Project Management: PERT and CPM, GANTT & Chart Overview of Estimate and Budget	3	<b>15/01/2026</b> <b>TO</b> <b>17/01/2026</b>		
III(12)	CO-3	<b>Unit - III Management practices</b>  3.1 Quality circle, kaizen, Six Sigma, TQM 3.2 5S, Kanban card system, TPM, Lean Manufacturing: Meaning, Steps and Importance	3	<b>22/01/2026</b> <b>TO</b> <b>24/01/2026</b>	Chalk,Bo ard + LCD Projector + Class room Demonst ration+ PPT Presentat	
		3.3 Quality Standards and ISO: Meaning, ISO 9001:2016, ISO 14000, OSHA 2020.	3	<b>30/01/2026</b> <b>TO</b> <b>31/01/2026</b>		

			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	<b>Unit - IV Marketing Management</b>  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 + Demonstrat ion+	
			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	<b>Unit - V Supply chain &amp;Human Resource</b>  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 + Demonstrat ion+	
			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**

<b>Sr.No</b>	<b>Author</b>	<b>Title</b>	<b>Publisher with ISBN Number</b>
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**

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

**Miss.M.R.Ramtirthkar**

(Name & Signature of Staff)

**Prof.S. B. Pawar**

(Name & Signature of HOD)