Maharashtra State Board of Technical Education, Mumbai

TEACHING PLAN (TP)

Academic Year: **2025-26 (EVEN)**   Date: **10/12/2025**

Institute Name and Code: K K Wagh Polytechnic, Nashik(0078)
Programme and Code: Artifi. Intelli. & Machine Learning (AN)   **Course Code & Abbr:** 315301 (MAN)
Course and Code: Management   **Name of Faculty:** Mr. Anand Jivan Savale
CLASS: TYAN **Course Index 601**   **Semester**: Sixth   **Scheme: K**   **Total Hrs. : 45**

- ## TEACHING-LEARNING & ASSESSMENT SCHEME

Course Code	Course Title	Abbr	Course Category/s	Learning Scheme			SLH	NLH	Credits	Assessment Scheme											
				Actual Contact H						Paper Duration	Theory				Based on LL & TL Practical				Based on SL		Total Marks
				CL	TL	LL					FA-TH	SA-TH	Total		FA-PR		SA-PR		SLA		
											Max	Max	Max	Min	Max	Min	Max	Min	Max	Min	
315301	Management (MAN)	MAN	AEC	3	-	-	1	4	2	1.5	30	70*#	100	40	-	-	-	-	25	10	125

Total IKS Hrs for Sem.: 01 Hr

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

- ## Course Outcomes (COs) and Theory Learning Outcomes (TLOs)

By learning course Management (MAN-315301), Third Year students will be able to:

CO No.	TLO No.	Course Outcomes (COs) and Theory Learning Outcomes (TLOs)
CO601.1		**Use relevant management skills to handle work situation**
	1.1	Justify the importance of management thoughts in the Indian knowledge system.
	1.2	Describe the importance of management in day to day life.
	1.3	Explain Henry Fayol's principles of management.
	1.4	Describe the role of each level of management in its management hierarchy.
	1.5	Practice the self management skills for a given situation
	1.6	Apply the required managerial skills for a given situation
CO601.2		**Apply appropriate techniques of product, operations and project management**
	2.1	Identify the appropriate creativity technique for new product development
	2.2	Describe the new product development process for a product / service
	2.3	Comprehend the importance of various strategic steps Product Management
	2.4	Elaborate Agile product management
	2.5	Explain the significance of the Project Management
	2.6	Describe the various tools of project management
CO601.3		**Use comprehensive tools of recent management practices**
	3.1	Understand the importance of quality management tools
	3.2	Explain the importance of various techniques for optimization and waste minimization
	3.3	State the importance of ISO quality standards
	3.4	Describe ERP
	3.5	State the importance of ISO

	3.6	Recognize the importance of customer satisfaction as a competitive advantage
CO601.4		**Plan suitable marketing strategy for a product / service**
	4.1	Explain the importance of marketing techniques
	4.2	Explain the importance of needs, wants and desires in marketing
	4.3	Interpret the traditional and digital marketing techniques
	4.4	Plan different aspects of an event management
CO601.5		**Utilize supply chain and human resource management techniques for effective management**
	5.1	State the importance of supply chain and logistics management
	5.2	Explain the components of supply chain and logistics Management
	5.3	Describe the role of information technology in supply chain & logistics management
	5.4	State the significance of Human Resource Management
	5.5	Analyze the various methods of recruitment, selection and training for an organization
	5.6	List the qualities of a successful supervisor

● Teaching Plan:

Unit No. (Allotted Hrs.) Marks	Theory Learning Outcomes (TLO)	Title/Topic Details with CO	Plan (From -To & No. of Lectures)	Actual Execution (From-To & No. of Lectures)	Pedagogy used (Teaching Method/ Media)	Remark
1 (13)	1.1	**Unit - I Introduction to Management [CO601.1]** 1.1 Evolution of management thoughts from ancient/medieval to modern times in India (IKS)	18/12/2025 to 20/12/2025 (3)		Chalk, Board PPT, Presentations Case-Study , Classroom learning, Reference Books, Online Demo, Quiz competition Mixed Picture Puzzle	
	1.2	1.2 Management: meaning, importance, characteristics, functions & challenges.	26/12/2025 to 27/12/2025 (2)			
	1.3	1.3 Introduction to scientific management- Taylor's & Fayol's principles of management	01/1/2026 to 02/1/2026 (2)			
	1.4	1.4 Levels & functions of management at supervisory level.	03/01/2026 to 08/01/2026 (2)			
	1.5	1.5 Self management skills: Self awareness, self discipline, self motivation, goal setting, time management, decision making, stress management, work life balance and multitasking	09/01/2026 to 10/01/2026 (2)			
	1.6	1.6 Overview of Managerial Skills: negotiation skills, team management, conflict resolution, feedback, leadership	15/01/2026 to 16/01/2026 (2)			
02(8)	2.1	**Unit - II Product, Operations and Project Management [CO601.2]** 2.1 Creativity and innovation management: creativity techniques - brainstorming,	17/01/2026 to 22/01/2026 (2)		Chalk, Board PPT, Classroom learning, Presentations Case Study Video Demonstrations	

		checklist, reverse brainstorming, morphological analysis, six thinking hats.			Presentations Role Play
	2.2	2.2 New product development, change management	23/01/2026 to 23/01/2026 (1)		
	2.3	2.3 Product Management -meaning, strategic steps for sustainable design of a product	24/01/2026 to 24/01/2026 (1)		
	2.4	2.4 Agile product management-concept, benefits, principles and manifesto	29/01/2026 to 29/01/2026 (1)		
	2.5	2.5 Project Management: importance, areas within project management, 4Ps and phases	30/01/2026 to 31/01/2026 (2)		
	2.6	2.6 Tools of Project Management: PERT and CPM, GANTT & Chart Overview of Estimate and Budget	05/02/2026 to 05/02/2026 (1)		
03(8)	**3.1**	**Unit - III Management Practices[CO601.3]** 3.1 Quality circle, kaizen, Six Sigma, TQM	06/02/2026 to 07/02/2026 (2)		Presentation Case study Interactive session Quiz Video Demonstration Lecture Using Chalk-Board
	3.2	3.2 5S, Kanban card system, TPM, Lean Manufacturing: Meaning, Steps and Importance	12/02/2026 to 12/02/2026 (1)		
	3.3	3.3 Quality Standards and ISO: Meaning, ISO 9001:2016, ISO 14000, OSHA 2020	13/02/2026 to 13/02/2026 (1)		
	3.4	The overview of ERP along with example	14/02/2026 to 20/02/2026 (2)		
	3.5	3.5 Service quality and customer/client satisfaction, Servicescape	21/02/2026 to 26/02/2026 (2)		
04(8)	**4.1**	**Unit - IV Marketing Management [CO601.4]** 4.1 Marketing management: meaning, significance, Seven P's of Marketing	27/02/2026 to 28/02/2026 (2)		Case Study Interactive session based video Role Play Flipped Classroom Presentations
	4.2	4.2 Needs, wants and demands in marketing. Customer relationship management	05/03/2026 to 06/03/2026 (2)		
	4.3	4.3 Types of marketing: traditional and digital marketing	07/03/2026 to 12/03/2026 (2)		
	4.4	4.4 Event management: types, different aspects of event management, crisis management	13/03/2026 to 14/03/2026 (2)		
05(8)	**5.1**	**Unit - V V Supply Chain & Human Resource Management [CO601.5]** 5.1 The overview of Supply Chain and logistics Management	20/03/2026 to 20/03/2026 (1)		Presentations Video Demonstrations Case Study Collaborative learning Video Demonstrations

5.2	5.2 Components of Supply Chain and logistics Management	27/03/2026 to 27/03/2026 (1)		Chalk-Board	
5.3	5.3 Role of information technology in supply chain & logistics management	28/03/2026 to 28/03/2026 (1)			
5.4	5.4 Overview of Human Resource Management-Meaning,significance,scope and principles	02/04/2026 to 02/04/2026 (1)			
5.5	5.5 Recruitment, selection and training of human resources. Chalk Circle	03/04/2026 to 03/04/2026 (1)			
5.6	5.6 Qualities of a successful supervisor /team leader and types of leadership	04/04/2026 to 04/04/2026 (2)			

● **COs - POs and PSOs MATRIX:**

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 Lifelong Learning	PSO- 1	PSO- 2
CO1	1	1	1	-	-	2	3	-	1
CO2	1	3	3	-	1	3	3	-	1
CO3	1	3	1	-	1	1	3	-	2
CO4	1	2	2	-	1	2	3	-	3
CO5	1	1	2	-	1	2	3	-	2

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

PSO 1**: Implement the web-based, security, networking, programming and database technologies as per the requirements of the IT Industry.**
PSO 2: **Provide technical support to identify and solve problems at customer site.**

● **ASSESSMENT METHODOLOGIES/TOOLS**

Formative Assessment(FA-TH):

Two offline MCQ based class tests of 30 marks each will be conducted. Average of two class tests marks will be considered as Formative Assessment for Theory marks out of 30.

Summative Assessment(SA-TH):
End semester assessment of 70 marks MCQ based online examination by MSBTE .
Total theory marks (100) will be calculated as marks of Formative Assessment (30) + marks of SummativeAssessment (70)

- **Summative Assessment(SA-TH):**

Assignments/ 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 work
	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.
	Plan different aspects of an event management
	Report On Effective Time Management Techniques For Improved Productivity
	Report On Analyzing The Importance Of Communication Skills In Workplace
	Report On Implementing Quality Management Systems In A Small Business
	Study Of Leadership Styles And Their Impact On Employee Motivation
	Analysis Of Marketing Strategies For Small Businesses In A Competitive Market
	Report On Human Resource Leaderships
	Report On Quality Management Systems In A GYM Business
Note- Taking-	
	Watch a Tedx Talk Video on managerial skills and take notes in the form of keywords.
Case Study-	
	Prepare a case study and discuss the same on following topics a.Self Management Skills b.Six Thinking Hats c.Kaizen d.Quality Circle e.Safety Measures in different organizations related to your field
	Study the recruitment and selection process of any organization related to your field.
	Prepare a case study on management lessons based on the life of Chhatrapati Shivaji Maharaj.
	Conduct outbound training on managerial skills. Make a video and upload on social media.
Quizzes-	
	Participate in online quizzes related to areas of management and submit its proofs (At least 5 Quizzes chapterwise/ Topic- Wise)

SUGGESTED LEARNING MATERIALS / BOOKS

Sr.No	Author	Title	Publisher with ISBN
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	Harold Koontz and Heinz Weinrich	Essentials of Management	Tata McGraw Hill Education ISBN: 9789353168148, 2020, 12th edition

4	E. H. McGrath	Basic Managerial Skills for All	PHI ISBN: 978-8120343146, 2011, 9th Edition
5	Andrew DuBrin	Management Concepts and Cases	Cengage Learning, ISBN: 978-8131510537, 2009, 9th edition
6	K. Dennis Chambers	How Toyota Changed the World	Jaico Books ISBN: 978-81-8495-052-6, 2009
7	Jason D. O'Grandy	How Apple changed the World	Jaico Publishing House ISBN: 978-81-8495-052-0, 2009
8	Subhash Sharma	Indian Management	New Age International Private Limited ; ISBN- 978-9389802412, 2020, 1st edition
9	Chitale, Dubey	Organizational Behaviour Text and Cases	PHI LEARNING PVT. LTD., ISBN: 978-9389347067, 2019, 2nd 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://theproductmanager.com/topics/agile-product-management/	Agile Product Management
4	https://www.cdlogistics.ca/freight-news/the-5-components-of-supply-chain-management	Supply Chain Management
5	https://www.infosectrain.com/blog/understanding-the-concepts-of-gantt-chart-and-critical-path-methodology-cpm	PERT, CPM, GANTT Chart
6	https://www.simplilearn.com/best-management-tools-article	Management Tools
7	https://www.psychometrica.in/free-online-psychometric-tests.html	Psychometric Tests
8	https://www.investopedia.com/terms/e/erp.asp	ERP
9	https://asq.org/quality-resources/quality-management-system	QMS
10	https://testlify.com/test-library/creative-thinking/	Psychometric Tests
11	https://www.mindtools.com/	Management Skills
12	https://www.investopedia.com/terms/d/digital-marketing.asp	Digital Marketing

*Tools- MKCL ERA Learn Live

Mr. Anand Jivan Savale   **Mrs. R. Y. Thombare**
(Name & Signature of Staff)   **(Name & Signature of HOD)**

Cc: Course File – MAN(315301)