



Re-Accredited 'B++' 2.86 CGPA by NAAC

VEER NARMAD SOUTH GUJARAT UNIVERSITY

University Campus, Udhna-Magdalla Road, SURAT - 395 007, Gujarat, India.

વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી

યુનિવર્સિટી કેમ્પસ, ઉધના-મગદલા રોડ, સુરત - ૩૯૫ ૦૦૭, ગુજરાત, ભારત.

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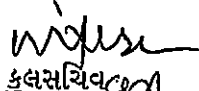
-: પરિપત્ર :-

યુનિવર્સિટી સંલગ્ન B.VOC. Industrial Management વિષય ચલાવતી કોલેજોનાં આચાર્યશ્રીને જણાવવાનું કે, શૈક્ષણિક વર્ષ ૨૦૨૬-૨૭ થી અમલમાં આવનાર B.VOC. Industrial Management Sem I to 6 નું સ્ટ્રક્ચર અને અભ્યાસક્રમને બિઝનેસ એન્ડ મેનેજમેન્ટ સ્ટડીઝ વિષયની અભ્યાસ સમિતિના ચેરપર્સનશ્રીએ અભ્યાસ સમિતિ વતી અને મેનેજમેન્ટ વિદ્યાશાખાનાં કાર્યકારી અધ્યક્ષશ્રીએ વિદ્યાશાખા વતી મંજૂર કરી એકેડેમિક કાઉન્સિલને કરેલ ભલામણને એકેડેમિક કાઉન્સિલની તા.૨૪/૧૨/૨૦૨૪ ની સભાનાં ઠરાવ ક્રમાંક:૩૫૩ અન્વયે માન.કુલપતિશ્રીને આપેલ સત્તા અંતર્ગત માનનીય કુલપતિશ્રી દ્વારા મંજૂર કરેલ છે. જેનો અમલ કરવા આથી જાણ કરવામાં આવે છે.

બિડાણ: ઉપર મુજબ

ક્રમાંક:ઓથો./પરિપત્ર/સિલેબસ/૧૮૪૪૮/૨૦૨૬

તા. ૧૨-૦૮-૨૦૨૬


કુલસચિવ

પ્રતિ,

૧) મેનેજમેન્ટ વિદ્યાશાખા હેઠળની B.VOC. Industrial Management વિષય ચલાવતી કોલેજોનાં આચાર્યશ્રીઓ.

.....આપશ્રીની કોલેજના સંબંધિત શિક્ષકોને જાણ કરી અમલ કરવા સારું.

૨) ડીનશ્રી, મેનેજમેન્ટ વિદ્યાશાખા.

૩) પરીક્ષા નિયામકશ્રી, પરીક્ષા વિભાગ, વીર નર્મદ દ. ગુ. યુનિવર્સિટી, સુરત.

.....તરફ જાણ તેમજ અમલ સારું.

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

PROGRAM TITLE

Name of Program	Bachelor of Vocation – Industrial Management
Program Abbreviation	B.Voc. Industrial Management
Duration	Three Years (Degree) / Four Year (Honours Degree)
Eligibility Criteria	H.S.C. Passed / 10+2 equivalence
Pre-requisite	
Medium of Instruction	English
Objective of Program	To deliver a judicious mix of professional skills and general education tailored to modern industrial demands. By integrating National Skill Qualification Framework (NSQF) standards, the program aims to significantly enhance student employability and cultivate work-ready professionals equipped to excel in both the local and global workforce.
Program Outcome (PO)	PO1: Students will acquire relevant technical knowledge and understand foundational concepts related to manufacturing processes, supply chain management, and organizational behavior. PO2: Students will demonstrate adequate professional skills to oversee manufacturing operations, execute Human Resources and legal functions, and manage procurement, inventory, and end-to-end logistics. PO3: Students will be capable of preparing for various industrial compliance audits and implementing tools and techniques related to Total Quality Management (TQM). PO4: Students will understand and apply concepts of environmental regulation and industrial safety, and implement best practices in waste management within an industrial setup. PO5: Students will understand the importance of Industrial Database Management Systems and be equipped to manage Enterprise Resource Planning (ERP) and related industrial documentation. PO6: Students will develop a healthy, professional attitude characterized by honesty, punctuality, respect for colleagues, and a positive, spiritual approach toward work and people. PO7: Students will cultivate an analytical approach, adaptability to move with organizational change, adequate decision-making skills, and a mindset to constantly improve themselves
Program Specific Outcomes (PSO)	PSO1: Graduates will be able to oversee and supervise manufacturing processes, applying principles of general production, plant layout, and lean manufacturing to optimize operational efficiency and industrial productivity. PSO2: Graduates will be able to manage end-to-end supply chain logistics, successfully executing the procurement of raw materials, vendor negotiation, and efficient inventory control. PSO3: Graduates will be able to implement Total Quality Management (TQM) tools, understand basic Six Sigma concepts, and prepare standard documentation for various industrial compliance audits and ISO frameworks. PSO4: Graduates will be able to enforce occupational safety and health measures, handle hazardous materials safely, and ensure strict compliance with environmental regulations and waste management practices.

	PSO5: Graduates will be able to effectively execute Human Resources functions, manage employee relations, and ensure organizational adherence to statutory industrial and labor laws. PSO6: Graduates will be able to utilize Industrial Database Management Systems, securely manage Enterprise Resource Planning (ERP) documentation, and leverage modern computing and AI tools for data analysis and industrial operations.						
Mapping between Pos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	PO1	✓	✓	✓	✓	✓	✓
	PO2	✓	✓	✓	✓	✓	✓
	PO3	✓	✓	✓	✓	✓	✓
	PO4	✓	✓	✓	✓	✓	✓
	PO5	✓	✓	✓	✓	✓	✓
	PO6	✓	✓	✓	✓	✓	✓
	PO7	✓	✓	✓	✓	✓	✓

Structure of Program (Semester -1)

Course Category	Course Code	Course Title	Mark sheet Title in English	Course Level	Teaching Hours/Week		Exam Duration		Credit		Internal Marks		External Marks		Total Marks	
					TH	PR	TH	PR	TH	PR	TH	PR	TH	PR	TH	PR
MAJOR	2510000201011001	Occupational Safety & Health	Occupational Safety & Health	100	2	8	0	2	0	4	0	50	0	50	0	100
MAJOR	2510000201022001	General Production Processes – I	General Production Processes – I	100	2	8	0	2	0	4	0	50	0	50	0	100
MINOR	2510000201033001(TH) 2510000201033002 (P)	Principles of Management	Principles of Management	100	2	4	1	1	2	2	25	25	25	25	50	50
MDC	2510000201044001 (TH) 2510000201044002 (P)	Business Economics	Business Economics	100	2	4	1	1	2	2	25	25	25	25	50	50
AEC	2510000201055001	Functional English	Functional English	100	2	0	1	0	2	0	25	0	25	0	50	0
SEC	2510000201066001	Computing Skills	Computing Skills	100	2	4	1	1	0	2	25	25	25	25	50	50
VAC/ VAC-IKS	2510000201077001	Bhartiya Knowledge System	Bhartiya Knowledge System	100	2	0	1	0	2	0	25	0	25	0	50	0
Total					14	28			8	14						

Structure of Program (Semester -2)

Course Category	Course Code	Course Title	Mark sheet Title in English	Course Level	Teaching Hours/Week		Exam Duration		Credit		Internal Marks		External Marks		Total Marks	
					TH	PR	TH	PR	TH	PR	TH	PR	TH	PR	TH	PR
MAJOR	2610000202011001	General Production Processes – II	General Production Processes – II	100	2	8	0	2	0	4	0	50	0	50	0	100
MAJOR	2610000202022001	Environmental Regulation	Environmental Regulation	100	2	8	0	2	0	4	0	50	0	50	0	100
MINOR	2610000202033001 (TH) 2610000202033002 (P)	Organizational Behaviour	Organizational Behaviour	100	2	4	1	1	2	2	25	25	25	25	50	50
MDC	2610000202044001 (TH) 2610000202044002 (P)	Statistics for Industry – I	Statistics for Industry – I	100	2	4	1	1	2	2	25	25	25	25	50	50
AEC	2610000202055001	Communication Skills – I	Communication Skills – I	100		0	1	0	2	0	25	0	25	0	50	0
SEC	2610000202066001	Computing Skills – II	Computing Skills – II	100	2	4	1	1	0	2	25	25	25	25	50	50
VAC/ VAC-IKS		ENVIRONMENT	ENVIRONMENT	100	2	0	1	0	2	0	25	0	25	0	50	0
Total					12	28			8	14						

Structure of Program (Semester -3)

Course Category	Course Code	Course Title	Mark sheet Title in English	Course Level	Teaching Hours/Week		Exam Duration		Credit		Internal Marks		External Marks		Total Marks	
					TH	PR	TH	PR	TH	PR	TH	PR	TH	PR	TH	PR
MAJOR	2508000903011001	General Production Process – III	General Production Process – III	200	2	8	0	2	0	4	0	50	0	50	0	100
MAJOR	2508000903022001	Fundamentals of Human Resource Management – I	Fundamentals of Human Resource Management – I	200	2	8	0	2	0	4	0	50	0	50	0	100
MAJOR	2508000903033001	Supply Chain Management - 1	Supply Chain Management - 1	200	2	8	0	2	0	4	0	50	0	50	0	100
MDC		Statistics for Industry – II	Statistics for Industry – II	200	2	2	1	1	2	2	25	25	25	25	50	50
AEC	2508000903055001	English for Industry	English for Industry	200	2	0	1	0	2	0	25	0	25	0	50	0
SEC	2508000903066001	Computing Skills – III	Computing Skills – III	200	2	4	0	1	0	2	0	25	0	25	0	50
VAC/ VAC-IKS		Indian Economics & Business Model-1	Indian Economics & Business Model-1	200	2	0	1	0	2	0	25	0	25	0	50	0
Total				2	14	30			6	16						

Structure of Program (Semester -4)

Course Category	Course Code	Course Title	Mark sheet Title in English	Course Level	Teaching Hours/Week		Exam Duration		Credit		Internal Marks		External Marks		Total Marks	
					TH	PR	TH	PR	TH	PR	TH	PR	TH	PR	TH	PR
MAJOR	2608000904011001	General Production Process – IV	General Production Process – IV	200	2	8	0	2	0	4	0	50	0	50	0	100
MAJOR	2608000904022001	Fundamentals of Human Resource Management – II	Fundamentals of Human Resource Management – II	200	2	8	0	2	0	4	0	50	0	50	0	100
MAJOR	2608000904033001	Supply Chain Management - II	Supply Chain Management - II	200	2	8	0	2	0	4	0	50	0	50	0	100
MINOR	2608000904044001 (TH) 2608000904044002 (P)	Entrepreneurship	Entrepreneurship	200	2	4	1	1	2	2	25	25	25	25	50	50
AEC		Professional Communication and Workplace Skills	Professional Communication and Workplace Skills	200	2	0	1	0	2	0	25	0	25	0	50	0
SEC		AI powered Digital Marketing	AI powered Digital Marketing	200	0	4	0	1	0	2	0	25	0	25	0	50
VAC/ VAC-IKS		Indian Economics & Business Model-II	Indian Economics & Business Model-II	200	2	0	1	0	2	0	25	0	25	0	50	0
Total					12	32			6	16						

Structure of Program (Semester -5)

Course Category	Course Code	Course Title	Mark sheet Title in English	Course Level	Teaching Hours/Week		Exam Duration		Credit		Internal Marks		External Marks		Total Marks	
					TH	PR	TH	PR	TH	PR	TH	PR	TH	PR	TH	PR
MAJOR		Principles of Unit Operations	Principles of Unit Operations	300	2	8	0	2	0	4	0	50	0	50	0	100
MAJOR		Industrial Laws & Statutory Compliances	Industrial Laws & Statutory Compliances	300	2	8	0	2	0	4	0	50	0	50	0	100
MAJOR		Quality Management Systems & Auditing	Quality Management Systems & Auditing	300	2	8	0	2	0	4	0	50	0	50	0	100
MINOR		Project Management	Project Management	300	2	4	1	1	2	2	25	25	25	25	50	50
MINOR		Financial Management for Managers	Financial Management for Managers	300	2	4	1	1	2	2	25	25	25	25	50	50
SEC		Industry 4.0: Revolutionizing Manufacturing	Industry 4.0: Revolutionizing Manufacturing	300	2	4	0	1	0	2	0	25	0	25	0	50
Total					12	36			4	18						

Structure of Program (Semester -6)

Course Category	Course Code	Course Title	Mark sheet Title in English	Course Level	Teaching Hours/Week		Exam Duration		Credit		Internal Marks		External Marks		Total Marks	
					TH	PR	TH	PR	TH	PR	TH	PR	TH	PR	TH	PR
MAJOR		Operations Research	Operations Research	300	2	8	0	2	0	4	0	50	0	50	0	100
MAJOR		Global Supply Chain & Logistics	Global Supply Chain & Logistics	300	2	8	0	2	0	4	0	50	0	50	0	100
MAJOR		Sustainable Manufacturing & Smart Maintenance	Sustainable Manufacturing & Smart Maintenance	300	2	8	0	2	0	4	0	50	0	50	0	100
MAJOR		Industrial Project Work	Industrial Project Work	300	2	8	0	2	0	4	0	50	0	50	0	100
MINOR		Leadership & Change Management	Leadership & Change Management	300	2	4	1	1	2	2	25	25	25	25	50	50
AEC		Work Etiquettes & Corporate Ethics	Work Etiquettes & Corporate Ethics	300	2	0	1	0	2	0	25	0	25	0	50	0
Total					12	36			4	18						

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	1						
National Credit Framework Level	4.5						
Course Type	Major						
Course Subtype	Employability						
Subject Type	Discipline Specific						
Course Code	2510000201011001						
Course Level	100						
Course Title	Occupational Safety and Health						
Credit	Theory:	0	Practical:		04	Total:	04
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1 - Explain the core principles, concepts, and key areas of Occupational Safety and Health (OSH) and contextualize their applications across diverse manufacturing sectors. CO2 - Analyze workplace accidents and identify potential physical, chemical, and ergonomic hazards using established investigation and monitoring techniques. CO3 - Implement appropriate safety controls, protective equipment, and facility design strategies to mitigate risks in electrical systems, fire safety, and material handling. CO4 - Apply Indian OSH legislations and statutory frameworks (e.g., The Factories Act, The ESI Act) to ensure organizational compliance, emergency preparedness, and worker welfare. CO5 – Conduct Hazard Identification and Risk Assessments (HIRA) to formulate robust process safety management (PSM) and occupational health protocols. CO6 – Evaluate organizational safety performance using leading and lagging metrics, and design promotional strategies to foster a proactive safety culture.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1	✓			✓		
	CO2			✓	✓		
	CO3	✓			✓		
	CO4			✓	✓		
	CO5	✓		✓	✓		
	CO6			✓	✓	✓	

Course Content	Unit 1: Introduction to OSH in Manufacturing (Weightage: 15%) 1.1 Basic Concepts: Definition and Context of Occupational Safety and Health (OSH), Objectives and Core Principles of OSH, Relationship between Workplace and Health 1.2 Key Areas of OSH: Occupational Health, Industrial Hygiene, Ergonomics 1.3 Industry-Specific OSH Applications: Pharmaceutical Industry, Chemical Industry (with focus on hazardous operations), Electronics Industry, Electrical Equipment Industry, Plastic Industry. Unit 2: Hazard Identification, Evaluation and Control (Weightage: 50%) 2.1 Accident and Hazard Management: Definition and Types of Accidents, Accident Analysis Techniques, Hazard Identification and Monitoring, Accident Reporting and Investigation 2.2 Safety Planning and Design: Safety through Design, Building and Facility Layout Planning Construction and Maintenance of Facilities 2.3 Equipment and Operational Safety: Boilers and Pressure Systems Safety, Electrical Safety, Personal Protective Equipment (PPE) 2.4 Fire and Material Safety: Fire Protection Systems, Flammable and Combustible Materials Handling, Fall Hazards and Prevention 2.5 Material Handling Systems: Safe Material Handling and Storage, Hoisting and Conveying Equipment Safety Unit 3: Emergency Preparedness and Response (Weightage: 20%) 3.1 OSH Legislations in India: Overview of OSH Legal Framework, The Factories Act, The Mines Act, The Workmen's Compensation Act, The Employees' State Insurance (ESI) Act 3.2 Occupational Health Management: Health Screening Measures, Occupational History and Medical Records 3.3 Safety Management Systems: Process Safety Management (PSM), Safe Use of Hand and Portable Tools Unit 4: Industrial Safety (Weightage: 15%) 4.1 Safety Performance Measurement: Leading and Lagging Indicators, Safety Metrics and Performance Evaluation, Safety Status Reporting 4.2 Risk Management: Hazard Prevention Techniques, Hazard Identification and Risk Assessment (HIRA) 4.3 Safety Promotion and Culture: Introduction to Safety Councils, Safety Posters and Awareness Campaigns, Appreciation and Promotional Methods for Safety Culture
Reference Books	1. Dr. K.U. Mistry 2022 Fundamentals of Industrial Safety and Health Siddarth 2. Benjamin O ALLI 2008 Fundamental Principles of Occupational Health and Safety, ILO, Geneva 3. Raja Sekhar Mamillapalli, Visweswara Rao Occupational Health and Hygiene in Industries BSP Books
Teaching Methodology	Blended Experiential and Problem Based Learning
Evaluation Method	Practical Internal Assessment : 50 Marks External Assessment : 50 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	1						
National Credit Framework Level	4.5						
Course Type	Major						
Course Subtype	Employability						
Subject Type	Discipline Specific						
Course Code	2510000201022001						
Course Level	100						
Course Title	General Production Processes – I						
Credit	Theory:	0	Practical:	04	Total:	04	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1 - Differentiate between manufacturing and service operations to explain the fundamental concepts of production systems. CO2 - Examine the basic elements of production and the transformation process required to convert inputs (the 5 Ms) into finished outputs. CO3 - Apply core production management functions—including planning, routing, scheduling, dispatching, and quality control—to organize industrial workflows. CO4 - Analyze the critical factors—such as production volume, product variety, and material flow—that influence effective facility design and layout decisions. CO5 – Compare distinct types of plant layouts (Process, Product, Fixed-Position, and Cellular/Hybrid) to understand their operational characteristics. CO6 – Select and justify optimal plant layout strategies to maximize operational efficiency, safety, and productivity for specific manufacturing scenarios.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1	✓					
	CO2	✓					
	CO3	✓	✓	✓			
	CO4	✓			✓		
	CO5	✓					
	CO6	✓			✓		

Course Content	Unit 1: Fundamentals of Production Systems (Weightage: 50%) 1.1 Concept of Production: Understanding production as the creation of goods and services Difference between: Manufacturing (tangible goods), Operations (intangible services) 1.2 Basic Elements of Production: Inputs: Men, Material, Machine, Money, Method Transformation Process, Outputs (Finished goods/services) 1.3 Functions of Production Management: Production Planning, Routing, Scheduling, Dispatching, Quality Control Unit 2: Plant Layout and Facility Design (Weightage: 50%) 2.1 Introduction to Plant Layout: Definition and Concept, Objectives of Plant Layout, Factors affecting layout decisions: Production volume, Product variety, Safety requirements, Material flow efficiency 2.2 Types of Plant Layouts: a) Process Layout (Functional Layout), Machines grouped based on similar functions, Suitable for job or batch production b) Product Layout (Line Layout), Machines arranged according to sequence of operations, Suitable for mass production c) Fixed Position Layout, Product remains stationary, Resources (men, machines, materials) move. d) Cellular / Hybrid Layout, Based on Group Technology, Machines arranged in cells for similar product families
Reference Books	1. Production and Operations Management – S. N. Chary, Latest Edition (reprint 2023), McGraw Hill India 2. Production and Operations Management – Kanishka Bedi, 3rd Edition (latest available), Oxford University Press India 3. Production and Operations Management – Chanchal Dey, Debasish Biswas & Nirmal Chandra Roy, Latest Edition (2023), Himalaya Publishing House 4. Operations Management Modern Practices and Analytics – Indian Authors (Latest Edition 2025), Sultan Chand & Sons 5. IIMA Operations Prepbook – IIM Ahmedabad Optima Club, 2nd Edition (2024), IIM Ahmedabad
Teaching Methodology	Blended Experiential and Problem Based Learning
Evaluation Method	Practical Internal Assessment : 50 Marks External Assessment : 50 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	1						
National Credit Framework Level	4.5						
Course Type	Minor						
Course Subtype	Entrepreneurship						
Subject Type	Discipline Specific						
Course Code	2510000201033001(TH) 2510000201033002 (P)						
Course Level	100						
Course Title	Principles of Management						
Credit	Theory:	02	Practical:	02	Total:	04	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1 - Explain the foundational definitions, evolution of management thought, and the core functions of management within contemporary organizations. CO2 - Apply structured planning processes and differentiate between various types of plans to systematically formulate organizational goals. CO3 - Design effective organizational structures and frameworks that align with strategic business objectives and design principles. CO4 - Analyze the principles of authority, responsibility, delegation, and decentralization to optimize management hierarchies and operational efficiency. CO5 – Integrate an entrepreneurial mindset and innovation management strategies to identify and capitalize on new business opportunities. CO6 – Evaluate the impact of emerging trends—specifically technological/digital transformation and green management—on sustainable business operations.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1	✓				✓	
	CO2	✓	✓				
	CO3					✓	
	CO4					✓	
	CO5	✓		✓			
	CO6				✓		✓

Course Content	Unit 1: Introduction to Management (Weightage – 20%) • Definition of Management; Evolution of management thought, functions of management Unit 2: Planning & Organizing (Weightage – 40%) • Definition, Process and Types of plans, Organizational Structure and design, Authority and Responsibility, Delegation and decentralization Unit 3: Entrepreneurship and Innovation (Weightage – 20%) • Entrepreneurial mind set, Innovation Management Unit 4: Emerging Trends in Management (Weightage – 20%) • Technology and Digital transformation, Sustainability and Green Management
Reference Books	1. Management: Challenges for Tomorrow's Leaders by Pamela S. Lewis, Stephen H. Goodman and Patricia M. Fandt; South Western College Pub., 6th Edition, 2020 2. Strategic Management; Concepts and Cases by Fred R. David and Forest R. David; Pearson, 16th Edition 2019 3. Organization Theory & Design by Richard L. Daft; Cengage Learning; 13th Edition, 2018 4. Innovation and Entrepreneurship by Peter F. Drucker; Publisher: Harper Collins, Revised Edition 2014 5. The Future of Management by Gary Hamel; Harvard Business Review Press, Updated Edition, 2017 6. Management: Principles & Practices by S. K. Mandal; Everest Publishing House, 1st Edition 2018 7. Principles of Management by P. C. Tripathi and P. N. Reddy; Tata McGraw-Hill Education, 7th Edition, 2018 Principles and Practices of Management by L. M. Prasad; Sultan Chand & Sons, 4th Edition, 2015
Teaching Methodology	Case Based and Participatory Learning
Evaluation Method	Theory Internal Assessment : 25 Marks External Assessment : 25 Marks Practical Internal Assessment : 25 Marks External Assessment : 25 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	1						
National Credit Framework Level	4.5						
Course Type	Multi-Disciplinary Course (MDC)						
Course Subtype	Entrepreneurship						
Subject Type	Intra Disciplinary						
Course Code	2510000201044001 (TH) 2510000201044002 (P)						
Course Level	100						
Course Title	Business Economics						
Credit	Theory:	02	Practical:	02	Total:	04	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1 - Explain the scope and fundamental concepts of Business Economics to illustrate its role in managerial decision-making within the Indian business context. CO2 - Analyze the determinants of consumer behavior and the Law of Demand to perform basic demand forecasting for business planning. CO3 - Examine production functions, cost dynamics, and the Law of Supply to optimize economies of scale and foundational supply chain operations. CO4 - Differentiate between various market structures (Perfect Competition, Monopolistic, Oligopoly, and Monopoly) to understand competitive firm behavior. CO5 – Formulate appropriate pricing strategies by evaluating specific market conditions and the regulatory role of government intervention. CO6 – Evaluate the impact of broader macroeconomic environment – including business cycles, fiscal policies, and monetary policies – on the Indian economy.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1	✓	✓				
	CO2	✓	✓				✓
	CO3	✓	✓				
	CO4		✓				
	CO5	✓	✓				
	CO6	✓	✓			✓	

Course Content	Unit 1: Introduction to Business Economics (10%) Meaning and scope of Business Economics, Importance in Indian business context, Link with decision-making and consumer behavior. Unit 2: Demand Analysis (20%) Law of Demand and exceptions, Factors affecting demand (price, income, and preferences), Basic demand forecasting Unit 3: Supply Analysis (20%) Law of Supply and exceptions, Production function and cost basics, Economies of scale, Supply chain basics in India Unit 4: Market Structures (25%) A) Types: Perfect, Monopolistic, Oligopoly, Monopoly B) Basic pricing strategies, Government role in markets Unit 5: Macroeconomic Environment (25%) Overview of Indian economy, Fiscal and monetary policy basics, Business cycles
Reference Books	1. Business Economics by K.P.M. Sundharam and E. Sundharam; Sultan Chand & Sons 2. Managerial Economics: Analysis, Problems, Cases by P.L. Mehta; Sultan Chand & Sons. 3. Indian Economy by Ramesh Sign; McGraw Hill Education. 4. Indian Economic Development by Uma Kapila; Academic Foundation
Teaching Methodology	Application Oriented
Evaluation Method	Theory Internal Assessment : 25 Marks External Assessment : 25 Marks Practical Internal Assessment : 25 Marks External Assessment : 25 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	1						
National Credit Framework Level	4.5						
Course Type	Ability Enhancement Course (AEC)						
Course Subtype	Employability						
Subject Type	Intra Disciplinary						
Course Code	2510000201055001						
Course Level	100						
Course Title	Functional English						
Credit	Theory:	02	Practical:	0	Total:	02	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1 - Apply foundational rules of English grammar—including tenses, voice, and clauses—to construct syntactically accurate sentences. CO2 - Utilize an expanded vocabulary, idiomatic expressions, and standard dictionary skills to articulate ideas clearly in written and spoken forms. CO3 - Draft professional business correspondence, commercial documents (tenders, quotations), and structured project reports for corporate environments. CO4 - Design a targeted, well-formatted resume that effectively highlights individual qualifications, education, and professional skills. CO5 – Formulate compelling elevator pitches and strategic responses to common interview questions based on prior company research. CO6 – Demonstrate confident interpersonal communication and presentation skills required to succeed in professional job interviews.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1			✓		✓	
	CO2		✓	✓		✓	
	CO3		✓	✓		✓	
	CO4					✓	
	CO5					✓	
	CO6		✓			✓	

Course Content	Unit 1: Basic English Grammar & Vocabulary (Weightage: 40%) ● Grammar: Tenses, conjunctions, prepositions, active & passive voice, direct & indirect speech, punctuation, degree of comparison, clauses ● Vocabulary: Synonyms, antonyms, roots, prefix & suffix, confused words, one-word substitutes ● Language Use: Phrasal verbs, idioms, similes, homonyms, homophones ● Use of dictionary for vocabulary building Unit 2: Correspondence (Application Based) (Weightage: 20%) ● Business communication formats ● Writing: Business letters, quotations, tenders, business orders ● Project report basics and structure Unit 3: Interview Skills & Resume Making (Weightage: 40%) ● Company research and interview preparation ● Elevator pitch and common interview questions ● Communication and presentation skills Resume writing: Purpose, format, sections, and design
Reference Books	1. Business Communication – K.K. Sinha, Latest Edition (2023), Galgotia Publishing 2. Business Communication – Meenakshi Raman & Prakash Singh, Latest Edition (2024), Oxford University Press India 3. Professional Communication – Aruna Koneru, Latest Edition (2023), Tata McGraw Hill 4. High School English Grammar and Composition – P C Wren & H Martin, Latest Edition (2024), S. Chand Better English Pronunciation – J D O Connor, Latest Edition (reprint), Cambridge.
Teaching Methodology	Analytical and Structured Learning Framework
Evaluation Method	Theory Internal Assessment : 25 Marks External Assessment : 25 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	1						
National Credit Framework Level	4.5						
Course Type	Skill Enhancement Course (SEC)						
Course Subtype	Skill Development						
Subject Type	Intra Disciplinary						
Course Code	2510000201066001						
Course Level	100						
Course Title	Computing Skills – I						
Credit	Theory:	0	Practical:	02	Total:	02	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1 - Explain the fundamental architecture of computers, operating system functions, and the practical application of peripheral devices in business environments. CO2 - Develop professionally formatted documents utilizing advanced page setup, structural elements (headers/footers), and visual tools like tables and SmartArt. CO3 - Design structured academic and business reports by integrating automated documentation features such as tables of contents, citations, and hyperlinks. CO4 - Apply conditional formatting and data validation rules to organize, structure, and secure data effectively within spreadsheets. CO5 – Compute mathematical, statistical, counting, and temporal operations using built-in spreadsheet functions to accurately process business data. CO6 – Analyze large datasets using pivot tables, sorting techniques, and graphical charts to summarize information and generate actionable business insights.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						✓
	CO2		✓	✓		✓	✓
	CO3		✓	✓		✓	✓
	CO4	✓	✓	✓		✓	✓
	CO5	✓	✓	✓		✓	✓
	CO6	✓	✓	✓		✓	✓

Course Content	Unit 1: Introduction to Computers & Operating Systems (Weightage: 10%) • Introduction, characteristics, and basic computer architecture • Input, output, and storage devices • Use of computers in business • Operating systems: Functions, types, and examples Unit 2: Word Processing (Weightage: 40%) • Creating, editing, and formatting documents • Page setup, tables, smart art, shapes • Page/section breaks, headers, footers, watermark • Hyperlinks, bookmarks, table of contents • Footnotes, citations, and bibliography Unit 3: Working with Excel (Weightage: 50%) • Workbook, worksheet, formatting • Conditional formatting, charts, data validation • Sorting and pivot tables • Functions: Mathematical, statistical, counting, date & time, total and subtotal
Reference Books	1. Computer Fundamentals and Office Automation – V. Rajaraman, Latest Edition (reprint 2023), PHI Learning 2. Computer Fundamentals – P.K. Sinha & Priti Sinha, Latest Edition (reprint 2024), BPB Publications 3. Fundamentals of Computers – Reema Thareja, Latest Edition (2023), Oxford University Press India 4. MS Office 365 Complete Guide – Satish Jain, Latest Edition (2024), BPB Publications 5. Computer Basics and Office Automation – Sanjay Saxena, Latest Edition (2023), Vikas Publishing
Teaching Methodology	Demonstrate Practice Creat
Evaluation Method	Practical Internal Assessment : 25 Marks External Assessment : 25 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	1						
National Credit Framework Level	4.5						
Course Type	Value Added Course (VAC)						
Course Subtype	Employability						
Subject Type	Intra Disciplinary						
Course Code	2508000903077001						
Course Level	100						
Course Title	Bhartiya Knowledge System						
Credit	Theory:	02	Practical:	0	Total:	02	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1 - Explain the foundational knowledge traditions and the historical self-revelation of glorious Bharat. CO2 - Analyze the sublime journey of Bhartiya culture and civilization to contextualize its enduring intellectual heritage. CO3 - Examine implicit philosophical constructs—such as the Law of Karma, Rebirth, and the concepts of Paap-Punya and Moksha—to understand the Bhartiya Jivan Darshan (Way of Life). CO4 - Interpret the socio-ecological perspectives of Bhartiya Darshan, emphasizing humanity's co-existence with nature and the value of cosmic harmony (Ritam). CO5 – Apply the inclusive wisdom of Bhartiya Vangmaya and the ideal of <i>Vasudhaiva Kutumbakam</i> (the world is one family) to foster harmonious social viewpoints and respect for manifold paths of Upasna. CO6 – Evaluate the four Purusharthas (Dharma, Arth, Kam, Moksh) as a holistic, value-driven framework for achieving a balanced, ethical, and purposeful human existence.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1					✓	
	CO2						
	CO3					✓	
	CO4				✓	✓	
	CO5					✓	
	CO6			✓		✓	

Course Content	Unit 1: Bhartiya Knowledge System and Tradition (Weightage – 25%) • Self -Revelation of Bharat • Knowledge Tradition of Glorious Bharat • The Sublime Journey of Bhartiya Culture and Civilization. Unit 2: The Way of Life/Jivan Darshan in Bhartiya Knowledge System (Weightage – 75%) • Way of Life as Bhartiya Knowledge System • The implicit concepts in Bhartiya • Knowledge System – Birth, Death, Rebirth, Law of Karma, Idea of Sukkha, Idea Of Life, Paap-Punya, Moksha. • Social View Point of Bhartiya Knowledge System • Co-existence of Nature and Human Nature • Manifold Paths of Upasna, Value of Harmonious Existence – Ritam. • Idea of Vasudhevkutumbkam, Bhartiya Vangmaya and Implications of Wisdom in Social Life • Four Purusharth of Bhartiya Knowledge System – Dharma, Arth, Kam and Moksh.
Reference Books	1. Kapoor Kapil, Singh Avadahesh (2021). “Indian Knowledge Systems Vol-I&II”, Indian Institute of Advanced Study, Shimla, H.P. 2. B. Mahadevan, Introduction to Indian Knowledge Systems, IISC Bangalore 3. Swami Vivekananda, Bharat Ma Apela Bhashano, Books Libraria, 2020
Teaching Methodology	Class work, Discussion, Self-Study, Projects, Seminars or / and Assignment
Evaluation Method	Theory Internal Assessment : 25 Marks External Assessment : 25 Marks

1st Semester End.....!

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SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management					
Semester	2					
National Credit Framework Level	4.5					
Course Type	Major					
Course Subtype	Employability					
Subject Type	Discipline Specific					
Course Code	2610000202011001					
Course Level	100					
Course Title	General Production Process-II					
Credit	Theory:	0	Practical:	04	Total:	04
Effective From	Academic Year : 2026-27					
Course Outcomes	CO1: Explain the principles and objectives of industrial storage practices and material handling systems in manufacturing and warehouse operations. CO2: Identify and classify different storage methods for raw materials, work-in-progress (WIP), and finished goods based on industrial requirements. CO3: Demonstrate appropriate storage techniques, including accessibility, identification, labelling, safety, and space utilization, to improve warehouse efficiency. CO4: Classify material handling systems based on the type of material and movement, and distinguish between fixed-path and variable-path handling equipment. CO5: Select suitable material handling equipment such as conveyors, forklifts, automated guided vehicles (AGVs), chutes, and fluid handling systems for different industrial applications. CO6: Apply industrial storage and material handling concepts to enhance operational efficiency, workplace safety, and cost-effective inventory management.					

Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
	CO1	✓	✓					
	CO2	✓	✓					
	CO3	✓	✓		✓			
	CO4	✓	✓					
	CO5	✓	✓		✓		✓	
	CO6	✓	✓	✓	✓		✓	
Course Content	Unit 1: Industrial Storage Practices (Weightage: 50%) - Storage Principles: Accessibility, identification & labelling, safety, space utilization - Storage by Inventory Stage: - Raw Materials (RM): Bins, racks, silos - Work-in-Progress (WIP): Intermediate storage, buffer zones - Finished Goods (FG): Palletization, warehousing, dispatch areas Unit 2: Material Handling Systems (Weightage: 50%) - Introduction: Importance and objectives (cost, efficiency, safety) - Classification by Material: Solid, liquid, powder/granular - Classification by Movement: - Fixed path (conveyors, chutes) - Variable path (forklifts, AGVs) - Equipment Overview: Conveyors, industrial vehicles, fluid handling systems							
Reference Books	- Production and Operations Management – S.N. Chary, Latest Edition (reprint 2023), McGraw Hill India - Production and Operations Management – Kanishka Bedi, Latest Edition, Oxford University Press India - Materials Management – A.K. Datta, Latest Edition (2023), PHI Learning - Materials Management Procedures Text and Cases – R.K. Chopra, Latest Edition, Himalaya Publishing House - Logistics and Supply Chain Management – D.K. Agrawal, Latest Edition (2024), Macmillan India							
Teaching Methodology	Blended Experiential and Problem Based Learning							
Evaluation Method	Practical Internal Assessment : 50 Marks External Assessment : 50 Marks							

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management					
Semester	2					
National Credit Framework Level	4.5					
Course Type	Major					
Course Subtype	Employability					
Subject Type	Discipline Specific					
Course Code	2610000202022001					
Course Level	100					
Course Title	Environmental Regulation					
Credit	Theory:	0	Practical:	04	Total:	04
Effective From	Academic Year : 2026-27					
Course Outcomes	CO1: Explain the fundamental environmental laws, regulatory authorities, and guiding principles governing industrial environmental management. CO2: Interpret key water and air quality parameters and describe the basic operation of pollution control systems used in industries. CO3: Demonstrate appropriate methods for the handling, storage, transportation, and disposal of hazardous, solid, plastic, and electronic wastes in compliance with environmental regulations. CO4: Explain statutory environmental consent procedures, audit requirements, online compliance systems, and documentation practices followed by industries. CO5: Apply resource optimization strategies and sustainable industrial practices to reduce environmental impact and promote cleaner production. CO6: Analyze industrial environmental compliance requirements and recommend suitable measures to ensure legal compliance, operational sustainability, and environmental protection.					

Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
	CO1			✓	✓			
	CO2			✓	✓			
	CO3		✓	✓	✓			
	CO4			✓	✓		✓	
	CO5	✓		✓	✓			
	CO6	✓		✓	✓		✓	
Course Content	Unit 1: Industrial Environmental Framework & GPCB Basics (Weightage: 15%) - Environmental Laws: Overview of Environment Protection Act (1986), Water Act (1974), Air Act (1981) – focus on industrial responsibilities - Regulatory Authorities: Role of CPCB and Gujarat Pollution Control Board (GPCB) - Basic Principles: Polluter Pays Principle and Precautionary Principle in industrial operations Unit 2: Water & Air Quality Management (Weightage: 25%) - Industrial Wastewater: Parameters – pH, BOD, COD, TDS, TSS; basic report interpretation - Effluent Treatment: ETP operations, CETP and ZLD concepts - Air Pollution Control: Common pollutants (PM, SO_x, NO_x) and control equipment (scrubbers, bag filters, cyclones) Unit 3: Hazardous & Solid Waste Handling (Weightage: 25%) - Classification: Solid waste vs. hazardous waste - Handling & Storage: Safe storage, labelling, and internal transport procedures - Disposal: Manifest system (Form 10) and role of TSDF - E-Waste & Plastic Waste: Basic concept of EPR and disposal practices Unit 4: Statutory Consents, Audits & Compliance (Weightage: 20%) - Consents: CTE, CTO, and CC&A processes - Online Compliance: Introduction to XGN portal (Gujarat) - Environmental Audit: Gujarat Environmental Audit Scheme (Schedule I & II) - Registers & Returns: Maintenance of logs and Form V submission Unit 5: Resource Optimization & Clean Initiatives (Weightage: 15%) - Resource Efficiency: Reducing water and energy use in industry - Product Stewardship: Eco-friendly design and reduced environmental impact - Government Initiatives: Swachh Bharat (industrial hygiene) and MSME ZED certification.							
Reference Books	- Divan S. and Rosencranz A. (2005) Environmental Law and Policy in India, 2 nd ed., Oxford, New Delhi - Leela krishnan P. (2008) Environmental Law in India, 3rd ed., Lexis Nexis, India. - Wathern P., “Environmental Impact Assessment: Theory and Practice”, Routledge Publishers, 1990. - Marriott B., “Environmental Impact Assessment: A Practical Guide”, McGraw-Hill Publication, 1997 - Shrivastava A.K., Baxter Nicola, Grimm Jacob, “Environmental Impact Assessment”, APH Publishers, 2003 - A Handbook of Environment Impact Assessment by V.S. Kulkarni, S.N. Kaul & R.K. Trivedy (Scientific Publishers-ISBN-9788172332990)							
Teaching Methodology	Blended Experiential and Problem Based Learning							
Evaluation Method	Practical Internal Assessment : 50 Marks External Assessment : 50 Marks							

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SYLLABUS						
Program Name	Bachelor of Vocation – Industrial Management					
Semester	2					
National Credit Framework Level	4.5					
Course Type	Minor					
Course Subtype	Employability					
Subject Type	Discipline Specific					
Course Code	2610000202033001 (TH) 2610000201033002 (P)					
Course Level	100					
Course Title	Organizational Behaviour					
Credit	Theory:	02	Practical:	02	Total:	04
Effective From	Academic Year : 2026-27					
Course Outcomes	CO1: Explain the fundamental concepts, scope, and significance of Organizational Behaviour and its role in improving workplace effectiveness. CO2: Analyze the factors influencing perception and decision-making processes in organizational and business environments. CO3: Demonstrate an understanding of group behaviour, team dynamics, and interpersonal relationships for effective collaboration. CO4: Apply appropriate conflict resolution and negotiation techniques to manage workplace disagreements and promote positive organizational relationships. CO5: Develop professional communication, ethical behaviour, and interpersonal skills required for effective teamwork and organizational success. CO6: Evaluate organizational behaviour concepts to improve individual performance, decision-making, and organizational effectiveness.					

Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
	CO1					✓		
	CO2					✓		
	CO3					✓		
	CO4					✓		
	CO5					✓	✓	
	CO6					✓	✓	
Course Content	Unit 1: Introduction to Organizational (Weightage – 10%) - Meaning, scope, importance, and development of OB, Basic concepts: motivation and interpersonal relationships, Application in workplace: conflict understanding and wage policies Unit 2: Perception and Decision Making (Weightage- 30%) - Concept of perception and influencing factors, Decision-making process, Application in advertising and consumer behaviour (e.g., fear-based ads like Dettol, insurance) Unit 3: Group Behaviour (Weightage – 20%) - Group formation and types, Group structure (roles, norms, cohesion), Group processes and teamwork Unit 4: Conflict and Negotiation (Weightage – 40%) - Nature and sources of conflict, Conflict resolution techniques, Negotiation process and strategies							
Reference Books	- Organizational Behaviour by Stephen P. Robbins and Timothy A Judge; Person Publication - Individual Behaviour in Organization by John Ivancevich and Michael Matteson, Mc Graw-Hill Education; 10th Edition, 2020 - Group Dynamics by Donelson R Forsyth, Cengage Learning, 7th Edition, 2018 - Negotiation: Readings, Exercises and Cases by Roy Lewicki, Bruce Barry and David Saunders, Mc Graw Hill Education, 8th Edition, 2020 - Organizational Behaviour: Text and Cases by K. Aswathappa, Himalaya Publishing House, 11th Edition, 2020 - Organizational Behaviour by S.S. Khanka, S.Chand Publishing, 9th Edition, 2020							
Teaching Methodology	Case study analysis on organizational behaviour and workplace scenarios							
Evaluation Method	Theory Internal Assessment : 25 Marks External Assessment : 25 Marks Practical Internal Assessment : 25 Marks External Assessment : 25 Marks							

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SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management					
Semester	2					
National Credit Framework Level	4.5					
Course Type	Multi-Disciplinary Course (MDC)					
Course Subtype	Skill Development					
Subject Type	Discipline Specific					
Course Code	2610000202044001 (TH) 2610000201044002 (P)					
Course Level	100					
Course Title	Statistics for the Industry-I					
Credit	Theory:	02	Practical:	02	Total:	04
Effective From	Academic Year : 2026-27					
Course Outcomes	CO1: Explain the fundamental concepts, scope, and importance of statistics in industrial and business decision-making. CO2: Identify different types, sources, and methods of data collection used in industrial applications. CO3: Compute measures of central tendency, including mean, median, and mode, for individual and grouped data. CO4: Compare the suitability of mean, median, and mode for different industrial datasets such as salary, production, and cost analysis. CO5: Apply basic statistical techniques to summarize and interpret industrial data for effective decision-making. CO6: Analyze industrial datasets using appropriate statistical measures to support operational planning and problem-solving.					

Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
	CO1		✓				✓	
	CO2		✓				✓	
	CO3		✓				✓	
	CO4		✓				✓	
	CO5	✓	✓				✓	
	CO6	✓	✓				✓	
Course Content	Unit 1: Introduction to Statistics (Weightage: 50% – Theory Focus) - Basics: Meaning, scope, and importance of statistics in industry - Types of Data: Qualitative and quantitative - Sources of Data: Primary and secondary - Data Collection Methods: Survey, observation, industrial records - Applications: Introduction to use of statistics in industrial decision-making Unit 2: Measures of Central Tendency (Weightage: 50% – Practical Focus) - Mean: Simple and weighted mean, basic calculation for grouped data - Median: Concept and calculation for individual and grouped data - Mode: Concept and basic formula relation with mean and median - Methods: Direct and assumed mean method (basic idea) - Application: Use in salary, production, and cost data - Comparison: When to use mean, median, and mode							
Reference Books	- S.P. Gupta – Statistical Methods - S.C. Gupta & V.K. Kapoor – Fundamentals of Applied Statistics - Richard Levin & David Rubin – Statistics for Management - J.K. Sharma – Business Statistics							
Teaching Methodology	Mini projects involving industrial data collection and analysis							
Evaluation Method	Theory Internal Assessment : 25 Marks External Assessment : 25 Marks Practical Internal Assessment : 25 Marks External Assessment : 25 Marks							

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	2						
National Credit Framework Level	4.5						
Course Type	Ability Enhancement Course (AEC)						
Course Subtype	Employability						
Subject Type	Intra Disciplinary						
Course Code	2610000202055001						
Course Level	100						
Course Title	Communication Skills-I						
Credit	Theory:	02	Practical:	0	Total:	02	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1: Explain the fundamentals of communication, its process, types, barriers, and principles of effective communication in professional environments. CO2: Demonstrate active listening skills to improve understanding, collaboration, and workplace communication. CO3: Develop effective speaking and presentation skills for interviews, group discussions, debates, and professional interactions. CO4: Interpret and apply non-verbal communication techniques to enhance interpersonal and organizational communication. CO5: Demonstrate interpersonal communication skills for conducting meetings, participating in interviews, and working effectively in teams. CO6: Apply effective verbal, non-verbal, and interpersonal communication skills to improve professional relationships and workplace performance.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1					✓	
	CO2					✓	
	CO3					✓	✓
	CO4					✓	
	CO5					✓	✓
	CO6					✓	✓

Course Content	Unit 1: Understanding Communication (Weightage – 20%) Definition, Process, Importance, Types of Communication, Characteristics, 7 Cs of Effective Communication, Barriers to Effective Communication, Overcoming Barriers Unit 2: Active Listening (Weightage – 20%) Introduction, definition of listening, listening Vs hearing, process of listening, problems students face in listening, sub-skills of listening, what is good listening? Strategies of listening, barriers to listening, listening in the workplace, activities that help you to become better listeners. Unit 3: Effective Speaking (Weightage – 20%) Spoken skills Conducting Presentation, Oral presentation, Debates, Speeches, Interview, Group Discussion, English Pronunciation, Building Vocabulary. Unit 4: Non-Verbal Communication (Weightage – 20%) Personal Appearance , Gestures , Postures , Facial Expression , Eye Contacts , Body Language(Kinesics) , Time language , Silence , Tips for Improving Non-Verbal Communication Unit 5: Interpersonal Communication (Weightage – 20%) Dyadic Communication & self-perception, Different types of Interviews, Kinds of Meetings, Solving problems in meetings and groups, Planning the meeting, Procedures during meeting, Participant responsibilities in meetings.
Reference Books	1. Basic communication skills for Technology, Andreja. J. Ruther Ford, 2nd Edition, Pearson Education, 2011 2. Communication skills, Sanjay Kumar, Pushpalata, 1st Edition, Oxford Press, 2011 3. Organizational Behaviour, Stephen .P. Robbins, 1st Edition, Pearson, 2013 4. Brilliant- Communication skills, Gill Hasson, 1st Edition, Pearson Life, 2011 5. Marks Jonathan. English Pronunciation in Use. New Delhi: CUP, 2007. 6. Lynch, Tony. Study Listening. New Delhi. CUP, 2008. 7. Dorling Kindersley. Communication Skills & Soft Skills – An Integrated Approach. India Pvt. Ltd. 2013
Teaching Methodology	Group discussions and panel discussions
Evaluation Method	Theory Internal Assessment : 25 Marks External Assessment : 25 Marks

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SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	2						
National Credit Framework Level	4.5						
Course Type	Skill Enhancement Course (SEC)						
Course Subtype	Skill Development						
Subject Type	Intra Disciplinary						
Course Code	2610000202066001						
Course Level	100						
Course Title	Computing Skills – II						
Credit	Theory:	0	Practical:	02	Total:	02	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1: Explain the fundamentals of MS PowerPoint, Internet technologies, e-mail systems, social networking, and e-governance. CO2: Create and format professional PowerPoint presentations using appropriate layouts, themes, animations, and presentation tools. CO3: Demonstrate effective use of Internet services, web browsers, search engines, and online resources for academic and industrial purposes. CO4: Utilize e-mail and social networking platforms for secure, effective, and professional communication. CO5: Explain the concepts, components, and applications of e-governance and the role of social media in digital governance. CO6: Apply digital tools and online communication technologies to enhance productivity, information management, and workplace collaboration.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						✓
	CO2						✓
	CO3						✓
	CO4					✓	✓
	CO5			✓			✓
	CO6	✓	✓			✓	✓

Course Content	Unit 1: PowerPoint Presentation (Weightage: 40%) • Introduction to MS PowerPoint • Creating, editing, viewing, and saving presentations • Slide management: layouts, inserting, deleting, hiding, reordering • Formatting: text, color schemes, backgrounds, bullets • Features: transitions, animations, slide master Unit 2: Introduction to Internet (Weightage: 25%) • History and services of the Internet • Internet vs Intranet • Internet governance and protocols • Internet tools, multimedia, and World Wide Web • URL concepts, web browsers, search engines, search techniques Unit 3: E-mail, Social Networking & E-Governance (Weightage: 35%) • E-mail: concepts, structure, protocols, security • Social networking: types, platforms, content, basic analysis (followers, hashtags, spam) • E-Governance: needs, evolution, components, issues • Role of social media in e-governance
Reference Books	1. Computer Fundamentals and Office Automation – V. Rajaraman, Latest Edition (reprint 2023), PHI Learning 2. Computer Fundamentals – P.K. Sinha & Priti Sinha, Latest Edition (2024), BPB Publications 3. Fundamentals of Computers – Reema Thareja, Latest Edition (2023), Oxford University Press India 4. Internet and Web Technologies – Raj Kamal, Latest Edition (2023), McGraw-Hill India 5. E Governance Concepts and Case Studies – Prabhat Kumar, Latest Edition, PHI Learning
Teaching Methodology	Demonstration-based learning in the computer laboratory
Evaluation Method	Practical Internal Assessment : 25 Marks External Assessment : 25 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	2						
National Credit Framework Level	4.5						
Course Type	Value Added Course (VAC)						
Course Subtype	Employability						
Subject Type	Intra Disciplinary						
Course Code							
Course Level	100						
Course Title	ENVIRONMENT						
Credit	Theory:	02	Practical:	0	Total:	02	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1 - Define the basic concepts, components, scope, and multidisciplinary nature of the environment and environmental studies. CO2 - Explain the interrelationship between humans, environmental components, and the influence of technological development on environmental sustainability. CO3 - Analyze the causes, impacts, and preventive measures of environmental degradation and promote sustainable environmental practices. CO4 - Classify renewable and non-renewable natural resources and evaluate appropriate methods for their conservation and sustainable utilization. CO5 – Examine the importance of water, land, forest, and food resources in the context of ecological balance, resource management, and environmental protection. CO6 – Demonstrate environmental awareness and recommend responsible individual and community actions for the conservation of natural resources and sustainable development.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1	✓					
	CO2	✓	✓				
	CO3	✓	✓	✓	✓	✓	
	CO4	✓	✓	✓	✓	✓	✓
	CO5	✓	✓	✓	✓	✓	✓
	CO6	✓	✓	✓	✓	✓	✓

Course Content	UNIT: 1 Introduction to Environment and Environmental Studies (Weightage: 50%) 1.1.1 Definition and Components of Environment 1.1.2 Relationship between the different components of Environment 1.1.3 Man and Environment relationship 1.1.4 Impact of technology on Environment 1.1.5 Environmental Degradation 1.1.6 Multidisciplinary nature of the Environment studies 1.1.7 Its scope and importance in the present day Education System UNIT: 2 Natural Resources (Weightage: 50%) 2.1.1 Renewable and Non-renewable resources, exploitation and Undergraduate Programme – B.A./B.Com./B.Sc./BRS./BSW - VAC – Environment – I – Semester – II conservation, Role of individual in conservation of natural resources. 2.1.2 Water resources: Water sources Surface and Ground water sources, Indian and Global Scenario. 2.1.3 Land as a resource, social issues 2.1.4 Forest resources: Definition and Classification of Forests Ecological and Economic importance and benefits of forest, Indian scenario, Deforestation: causes and effects remedial measures. 2.1.5 Food resources: Sources of food, Global and Indian food demand scenario, Limits of food production, Environmental effect of Agriculture.
Reference Books	1. Agarwal, K.C.: 2001 Environmental Biology. Nidi publication Ltd., Bikaner. (TB) 2. Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt.Ltd. Ahmedabad -380013. India. 3. Brunner R.C., 1989, Hazardous Waste incineration, McGraw Hill Inc.480p. (R) 4. Clark R.S.Marine Pollution, Clarendon Press Oxford (TB) 5. Cunningham, W.P.Cooper, T.H.Grohani, E. & Hepworth, M.T. 2001, Environmental Encyclopedia,Jaico Pub. House, Mumbai, 1196p. (R) 6. De A.K., Environmental Chemistry. Wiley Eastern Ltd. (R) 7. Down to Earth, Centre for Science and Environment (R) 8. Gleick, H.P., 1993. Water in crisis. Pacific Institute for Studies in Dev. Environment & Security. 9. Stockholm Env. Institute. Oxford Univ. Press. 473p. (R) 10. Hawkins, R.E., Encyclopedia of Indian Natural History. Bombay Natural History Society
Teaching Methodology	Class work, Discussion, Self-Study, Projects, Seminars or / and Assignment
Evaluation Method	Theory Internal Assessment : 25 Marks External Assessment : 25 Marks

2ND Semester End.....!

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	3						
National Credit Framework Level	5.0						
Course Type	Major						
Course Subtype	Employability						
Subject Type	Discipline Specific						
Course Code	[2610000203011001]						
Course Level	200						
Course Title	General Production Process-III						
Credit	Theory:	0	Practical:	04	Total:	04	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1: Explain the concepts, objectives, and production systems used in manufacturing industries, along with the role of production planning and ERP in production management. CO2: Analyze production planning strategies, forecasting techniques, make-or-buy decisions, and value engineering for improving manufacturing efficiency. CO3: Apply production scheduling techniques and resource allocation methods to optimize manufacturing operations and coordinate inter-departmental activities. CO4: Demonstrate the use of scheduling tools and appropriate strategies to manage production uncertainties and improve operational performance. CO5: Explain the principles of quality assurance, Total Quality Management (TQM), Statistical Quality Control (SQC), and ISO standards in manufacturing. CO6: Evaluate production planning, scheduling, and quality management practices to enhance productivity, product quality, and organizational performance.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1	✓					✓
	CO2	✓	✓				✓
	CO3	✓	✓				✓
	CO4	✓	✓				✓
	CO5	✓		✓			
	CO6	✓	✓	✓			✓

Course Content	Unit 1: Production Planning & Systems (Weightage: 35%) • 1.1 Production Planning: Definition, scope, and objectives • 1.2 Types of Production Systems: Batch Production: Output in discrete lots, Continuous Production: Uninterrupted flow (e.g., chemicals, oil), Assembly Line Production: Sequential processing of parts • 1.3 Strategic Planning Decisions: Sales Forecasting: Linking demand with production, Make or Buy Decisions: Outsourcing vs. in-house production, Value Engineering: Cost reduction through design improvement • 1.4 Computers in PPC: Role of software and ERP in production planning Unit 2: Scheduling & Resource Allocation (Weightage: 35%) • 2.1 Resource Allocation: Management of inputs: Raw materials, machines, labor, and utilities • 2.2 Planning vs. Scheduling: Planning: Long-term decisions, Scheduling: Short-term execution, Tools: Sequencing, Gantt charts, dispatching • 2.3 Handling Uncertainty: Managing machine breakdowns, absenteeism, and urgent orders • 2.4 Inter-departmental Coordination: Purchase: Material availability, Sales: Delivery commitments, Finance: Budget control, HR: Workforce management, R&D: Product design Unit 3: Quality Assurance & Standards (Weightage: 30%) • 3.1 Quality Assurance in Production: Role of QA in maintaining production quality • 3.2 Total Quality Concepts: TQM / Total Quality Production, Introduction to Statistical Quality Control (SQC) • 3.3 International Standards: Overview of ISO standards and certification • 3.4 Sampling Basics--Methods: Random and stratified sampling, Sample size determination, Acceptance criteria
Reference Books	1. Lean Thinking: by James P. Womack and Daniel T. Jones 2. The Toyota Way: by Jeffrey Liker 3. Seeing the Invisible: How to Spot the 7 Wastes and Create Operational Excellence by Michel Baudin 4. Learning to See: The Importance of Looking and How to Look Better by Myron Augsburger 5. Kaizen: The Key to Japan's Competitive Success by Masaaki Imai 6. Lean Enterprise Value Stream Mapping: Seeing the Whole to Understand the Parts by Mike Rother and John Shook
Teaching Methodology	Blended Experiential and Problem Based Learning
Evaluation Method	Practical Internal Assessment : 50 Marks External Assessment : 50 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	3						
National Credit Framework Level	5.0						
Course Type	Major						
Course Subtype	Employability						
Subject Type	Discipline Specific						
Course Code	[2610000203022001]						
Course Level	200						
Course Title	Fundamentals Of Human Resource Management-I						
Credit	Theory:	00	Practical:	04	Total:	04	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1: Explain the concepts, objectives, functions, and significance of Human Resource Management in achieving organizational goals. CO2: Analyze job requirements and apply appropriate recruitment, selection, and on boarding practices for effective workforce management. CO3: Demonstrate an understanding of employee orientation, training, mentoring, and integration processes to enhance organizational performance. CO4: Explain the principles of job evaluation, compensation structures, employee benefits, and reward systems used in organizations. CO5: Evaluate compensation and retention strategies to improve employee motivation, performance, and organizational effectiveness. CO6: Apply HRM principles and best practices to support workforce planning, employee relations, and sustainable organizational development.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1					✓	
	CO2					✓	
	CO3	✓				✓	
	CO4					✓	
	CO5	✓				✓	
	CO6	✓				✓	✓

Course Content	Unit 1: Introduction to HRM (Weightage: 30%) • Meaning and role of HRM in organizational success • Core HR functions: Recruitment, selection, training, development • Compensation, benefits, performance management, and employee relations Unit 2: Hiring and On boarding (Weightage: 35%) • Job analysis and job description • Recruitment strategies: Internal and external • Selection methods: Interviews, assessment, background checks • On boarding: Orientation, training, mentoring, integration • Challenges: Unskilled labour (mobility, government factors), skilled labour (IT, event industry trends) Unit 3: Compensation and Benefits (Weightage: 35%) • Job evaluation: Meaning and methods (ranking, classification, point factor) • Compensation structure: Pay grades, pay ranges, salary surveys • Types of pay: Base, incentives, bonuses, commissions • Benefits: Insurance, retirement, leave • Individual vs group rewards and employee retention factors
Reference Books	1. Human Resource Management – Gary Dessler, 16th Edition, Pearson Education 2. Human Resource Management – K. Aswathappa, 9th Edition, McGraw Hill Education 3. Human Resource Management – V.S.P. Rao, Excel Books / Taxmann Publications 4. Essentials of Human Resource Management and Industrial Relations – P. Subba Rao, Himalaya Publishing House 5. Personnel Management and Human Resources – C.B. Mamoria, Himalaya Publishing House
Teaching Methodology	Blended Experiential and Problem Based Learning
Evaluation Method	Practical Internal Assessment : 50 Marks External Assessment : 50 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	3						
National Credit Framework Level	5.0						
Course Type	Major						
Course Subtype	Employability						
Subject Type	Discipline Specific						
Course Code	[2610000203033001]						
Course Level	200						
Course Title	Supply Chain Management-I						
Credit	Theory:	00	Practical:	04	Total:	04	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1: Explain the concepts, scope, evolution, and strategic importance of Supply Chain Management (SCM) in industrial organizations. CO2: Analyze supply chain networks, value chains, and the impact of geopolitical and digital factors on supply chain performance. CO3: Apply procurement principles, including the 5 Rs, EOQ, JIT, and delivery terms, to support efficient purchasing decisions. CO4: Evaluate supplier selection methods, sourcing strategies, and negotiation techniques for effective procurement management. CO5: Explain contract management practices and assess supplier relationships to enhance supply chain efficiency and sustainability. CO6: Apply supply chain and procurement strategies to optimize inventory, logistics, and organizational competitiveness.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1	✓	✓				
	CO2	✓	✓				✓
	CO3	✓	✓				
	CO4	✓	✓				
	CO5		✓				✓
	CO6		✓				✓

Course Content	Unit 1: Introduction to SCM (Weightage: 50%) • SCM: Definition, scope, and evolution • Key concepts: Supply chain network, value chain, flow of goods and information • Impact of geopolitical factors on sourcing, transportation, and resilience strategies • Importance of SCM for competitive advantage • SCM in digital age: Role of technology and data analytics • Warehousing concept and demand models (retail/FMCG/grocery) Unit 2: Procurement and Sourcing (Weightage: 50%) • Procurement process: 5 Rs (Right quality, quantity, price, time, place) • Concepts: EOQ, JIT, bulk purchasing, delivery terms (FOB, CIF) • Contract management: Material + service contracts (e.g., civil, AC work) • Supplier selection and sourcing strategies (SISS, SIMS, MISS, MIMS) • Negotiation basics: What, why, and when to negotiate • Global sourcing issues: Forex, logistics, compatibility • Supplier relationships, evaluation, and sustainable procurement
Reference Books	1. Supply Chain Management Strategy Planning and Operation – Sunil Chopra & Peter Meindl, 7th Edition, Pearson 2. Supply Chain Management – Janat Shah, Pearson Education 3. Purchasing and Supply Management – Robert M Monczka et al., Cengage Learning 4. Logistics and Supply Chain Management – Martin Christopher, Pearson 5. Supply Chain Management A Logistics Perspective – John J Coyle et al., Cengage Learning
Teaching Methodology	Blended Experiential and Problem Based Learning
Evaluation Method	Practical Internal Assessment : 50 Marks External Assessment : 50 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	3						
National Credit Framework Level	5.0						
Course Type	Multi-Disciplinary Course (MDC)						
Course Subtype	Skill Development						
Subject Type	Discipline Specific						
Course Code	[2610000203044001] T [2610000203044002] P						
Course Level	200						
Course Title	Statistics For Industry-II						
Credit	Theory:	02	Practical:	02	Total:	04	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1: Explain the principles of data classification, tabulation, and graphical representation used in industrial statistics. CO2: Construct and interpret statistical charts and graphs for analyzing industrial and business data. CO3: Compute and interpret measures of dispersion, including range, variance, and standard deviation, for industrial datasets. CO4: Explain the basic concepts and applications of probability in industrial and manufacturing environments. CO5: Apply statistical tools to analyze production, quality, inventory, and operational data for effective decision-making. CO6: Evaluate industrial data using graphical and statistical techniques to support quality improvement and operational performance.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1		✓				✓
	CO2		✓	✓			✓
	CO3		✓	✓			✓
	CO4		✓	✓			✓
	CO5	✓	✓	✓			✓
	CO6	✓	✓	✓			✓

Course Content	Unit 1: Data Presentation (Weightage: 50%) ● Classification and tabulation ● Frequency distribution ● Graphical representation: ○ Bar diagram ○ Pie chart ○ Histogram ○ Line graph ● Interpretation of charts (focus on industry examples) Unit 2: Measures of Dispersion & Basics of Probability (Weightage: 50%) ● Range ● Variance and Standard Deviation (basic idea, simple problems only) ● Introduction to probability ● Simple probability problems (real-life cases like defects, selection)
Reference Books	1. Levin, R. I., & Rubin, D. S. Statistics for Management. Pearson Education. 2. Sharma, J. K. Business Statistics. Vikas Publishing House. 3. Gupta, S. C. Fundamentals of Statistics. Himalaya Publishing House. 4. Mahajan, M. Statistical Quality Control. Dhanpat Rai & Co.
Teaching Methodology	Mini projects involving industrial data collection and analysis
Evaluation Method	Theory Internal Assessment : 25 Marks External Assessment : 25 Marks Practical Internal Assessment : 25 Marks External Assessment : 25 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	3						
National Credit Framework Level	5.0						
Course Type	Ability Enhancement Course (AEC)						
Course Subtype	Employability						
Subject Type	Intra Disciplinary						
Course Code	[2610000203055001]						
Course Level	200						
Course Title	English For Industry						
Credit	Theory:	02	Practical:	00	Total:	02	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1: Explain active reading techniques and strategies to improve comprehension and information retention. CO2: Apply critical reading skills to identify main ideas, evaluate arguments, recognize bias, and assess the credibility of information sources. CO3: Demonstrate reading comprehension techniques, including vocabulary building, inferencing, summarizing, and paraphrasing. CO4: Interpret textual and graphical information to support academic and workplace decision-making. CO5: Apply reading speed enhancement techniques to improve efficiency and accuracy in processing written information. CO6: Evaluate and synthesize information from various sources to support effective communication and continuous learning.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1					✓	
	CO2					✓	✓
	CO3					✓	
	CO4			✓		✓	✓
	CO5					✓	
	CO6					✓	✓

Course Content	Unit 1: Active Reading Techniques (Weightage-25%) • Previewing and skimming texts, SQ3R method (Survey, Question, Read, Recite, Review), Note-taking and highlighting strategies, Mind mapping and concept mapping. Unit 2: Critical Reading Skills (Weightage-25%) • Identifying main ideas and supporting arguments, Recognizing bias and identifying fallacies, Evaluating the credibility of sources, Analyzing data and interpreting graphs/charts. Unit 3: Reading Comprehension Strategies (Weightage-25%) • Context clues and vocabulary building, Inferencing and making predictions, Summarizing and paraphrasing. Unit 4: Improving Reading Speed (Weightage-25%) • Chunking and eye movement exercises, Using a pacer (finger, pen), Eliminating sub vocalization
Reference Books	1. Reading Excellence: By Michele Pautz 2. How to Read a Book: By Mortimer J. Adler 3. The Elements of Style: By Strunk & White 4. On Writing Well: By William Zinsser 5. Business Communication: Process and Products by Courtland L. Bovee, John V. Thill, and Barbara E. Schatzman
Teaching Methodology	Vocabulary-building and contextual learning activities
Evaluation Method	Theory Internal Assessment : 25 Marks External Assessment : 25 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	3						
National Credit Framework Level	5.0						
Course Type	Skill Enhancement Course (SEC)						
Course Subtype	Skill Development						
Subject Type	Intra Disciplinary						
Course Code	[2610000203066001] P						
Course Level	200						
Course Title	Computing Skills-III						
Credit	Theory:	00	Practical:	02	Total:	02	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1: Explain the fundamental concepts, history, types, advantages, limitations, and applications of Artificial Intelligence (AI). CO2: Identify AI-based applications used in daily life and industrial environments, including search engines, chatbots, recommendation systems, autonomous systems, and language translation. CO3: Demonstrate the effective use of popular AI tools for content creation, communication, presentations, image editing, video editing, and professional documentation. CO4: Apply AI-powered tools to improve productivity, creativity, and decision-making in academic and workplace tasks. CO5: Evaluate the benefits, limitations, and ethical considerations associated with the use of Artificial Intelligence in professional environments. CO6: Utilize appropriate AI tools to solve practical industrial and business problems while promoting responsible and ethical use of technology.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						✓
	CO2		✓				✓
	CO3					✓	✓
	CO4	✓	✓			✓	✓
	CO5					✓	✓
	CO6	✓	✓			✓	✓

Course Content	Unit 1: Introduction to Artificial Intelligence (AI) (Weightage-50%) • Definition and History of AI, Types of AI, Utility of AI, Pros and Cons of AI • Understanding Illustrations of AI – Google search, Chabot's, Recommendation System, Autonomous Vehicle, Language Translation. Unit 2: Basics of AI tools applications in work (Weightage-50%) • Introduction to popular AI tools, Meta AI, Chat GPT and its usage, Google's Gemini, Writesonic (Writes anything), Remini (Edit Pictures), Pictory (Edit Videos), Slidesgo (Create PPT), Descript (Convert text into Audio), Cleanup.pictures (Remove unwanted object from Picture), Kickresume, Rezi.
Reference Books	1. Artificial Intelligence: A Modern Approach by Stuart Russell and Peter Norvig 2. AI Superpowers: China, Silicon Valley, and the New World Order by Kai-Fu Lee.
Teaching Methodology	Live demonstrations of AI-assisted content creation, presentations, image editing, and resume building
Evaluation Method	Practical Internal Assessment : 25 Marks External Assessment : 25 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	3						
National Credit Framework Level	5.0						
Course Type	Value Added Course (VAC)						
Course Subtype	Employability						
Subject Type	Intra Disciplinary						
Course Code	[2610000203077001]						
Course Level	200						
Course Title	Indian Economics & Business Model-1						
Credit	Theory:	02	Practical:	0	Total:	02	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1: Explain the ancient foundations of Indian economic thought and its sources. CO2: Interpret Kautilya’s economic theories and governance model. CO3: Analyze India-specific economic concepts and their impact on national development. CO4: Distinguish Indian economic philosophy from capitalism and other Western models. CO5: Understand socio-economic constructs such as caste as social capital. CO6: Recognize contemporary Indian economic issues like Black Money and Tax Havens from an indigenous perspective.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1	✓	✓		✓		✓
	CO2	✓	✓		✓	✓	✓
	CO3	✓	✓		✓	✓	✓
	CO4	✓	✓	✓	✓	✓	✓
	CO5	✓	✓	✓	✓		✓
	CO6	✓	✓	✓	✓	✓	✓

Course Content	UNIT 1: History of Indian Economy Thought (Weightage: 50%) Ancient Foundation of Economics, Economic Thought in Context from Dharmashastras, Shukraniti, Mahabharata, and Arthashastra. UNIT 2: Introduction of Indian Economic and Business Model (Weightage: 50%) • Kautilya's thought to Arthashastra • Kautilya's Saptang Theory of State • Kautilya's Economic thoughts in specific India • Kautilya's Economic thoughts in Global GDP • Beyond Capitalism and Communalism • Dharmicism • Caste as Social Capital • Black Money and Tax Heaven
Reference Books	1. Kanagasabapathi; "Indian Models of Economy, Business and Management", Third Edition, Prentice Hall India Ltd., Delhi. 2. Lotus and Stones; Garuda Prakashani (31 October 2020); Garuda Prakashan Pvt. Ltd. 3. Dwivedi D.N., Essentials of Business Economics, Vikas Publications, Latest Edition. 4. India Uninc by Prof. R Vaidyanathan, Westland Ltd. Publication 5. Economic Sutras by Prof. Satish Y. Deodhar, IIMA Books series 6. Black Money Tax Heaven by R Vaidyanathan, Westland Ltd. Publication 7. Web Resources: 1. Goswami Anandajit, Economic Modeling, Analysis, and Policy for Sustainability, IGI Global, Latest Edition. 2. Ganguly Anirban, Redefining Governance, published by Prabhat Prakashan, Latest Edition. 3. Vaidyanathan R., India Unincorporated, ICFAI Books, Latest Edition
Teaching Methodology	Reflective Learning and Value Based Case Studies
Evaluation Method	Theory Internal Assessment : 25 Marks External Assessment : 25 Marks

3rd Semester End.....!

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	4						
National Credit Framework Level	5.0						
Course Type	Major						
Course Subtype	Employability						
Subject Type	Discipline Specific						
Course Code	[2710000204011001]						
Course Level	200						
Course Title	General Production Process-IV						
Credit	Theory:	0	Practical:	04	Total:	04	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1: Explain the fundamental concepts, principles, and evolution of Lean Manufacturing and its significance in improving industrial productivity. CO2: Identify value streams and different types of waste in manufacturing processes using Lean principles. CO3: Apply Lean tools such as 5S, Kaizen, Poka-Yoke, and Visual Management to improve workplace organization and operational efficiency. CO4: Explain Lean flow concepts, including Kanban, Single Piece Flow, and Cellular Manufacturing, for enhancing production performance. CO5: Analyze challenges in Lean implementation and recommend suitable strategies for continuous improvement in manufacturing organizations. CO6: Evaluate Lean Manufacturing practices to improve productivity, quality, resource utilization, and organizational competitiveness.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1	✓		✓			
	CO2	✓	✓	✓			
	CO3	✓		✓			
	CO4	✓	✓	✓			
	CO5	✓	✓	✓			
	CO6	✓	✓	✓			

Course Content	Unit 1: Foundations of Lean Manufacturing (Weightage: 20%) • Introduction to Lean Manufacturing: History and evolution • Core principles of Lean: ○ Customer value ○ Value stream ○ Flow and pull concepts ○ Continuous improvement • Lean vs Traditional Manufacturing (basic comparison) • Introduction to Value Stream Mapping (basic idea only) Unit 2: The 7 Wastes (Weightage: 25%) • Concept of waste in Lean Manufacturing • Introduction to 7 wastes: ○ Overproduction ○ Waiting ○ Transportation ○ Inventory ○ Motion ○ Over-processing ○ Defects • Identification of waste in simple industrial examples Unit 3: Lean Tools & Workplace Organization (Weightage: 30%) • 5S System: 1. Sort 2. Set in Order 3. Shine 4. Standardize 5. Sustain • Kaizen (continuous improvement) • Poka-Yoke (mistake prevention – basic idea) • Visual Management tools (simple understanding) Unit 4: Lean Flow & Implementation Challenges (Weightage: 25%) • Basic Lean flow concepts: ○ Kanban ○ Single Piece Flow ○ Cellular Manufacturing (basic idea) • Challenges in lean implementation: ○ Resistance to change ○ Supply chain issues ○ Training needs • Lean practices in Indian industrial context (basic overview)
Reference Books	1. Sustainable Manufacturing: Principles and Practices by G. Seliger and M. P. Groover 2. Industrial Ecology: An Introduction by Robert U. Ayres and Leslie W. Ayres 3. Predictive Maintenance: A Practical Technology Guide by Paul D. Almond 4. Reliability Engineering by Charles E. Ebeling
Teaching Methodology	Blended Experiential and Problem Based Learning
Evaluation Method	Practical Internal Assessment : 50 Marks External Assessment : 50 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	4						
National Credit Framework Level	5.0						
Course Type	Major						
Course Subtype	Employability						
Subject Type	Discipline Specific						
Course Code	[2710000204022001]						
Course Level	200						
Course Title	Fundamentals Of Human Resource Management-II						
Credit	Theory:	0	Practical:	04	Total:	04	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1: Explain the concepts, objectives, and significance of performance management and employee relations in organizational effectiveness. CO2: Apply performance appraisal methods, goal-setting techniques, and constructive feedback practices to enhance employee performance. CO3: Demonstrate an understanding of disciplinary procedures, corrective actions, mentoring, and coaching for effective workforce management. CO4: Analyze employee relations practices, workplace conflicts, and negotiation techniques to promote harmonious industrial relations. CO5: Evaluate employee engagement, recognition, diversity, and work-life balance initiatives for improving organizational performance. CO6: Apply Human Resource Management principles to strengthen employee relations, conflict resolution, and sustainable organizational development.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1					✓	
	CO2	✓				✓	
	CO3	✓				✓	
	CO4					✓	
	CO5	✓				✓	
	CO6	✓				✓	✓

Course Content	Unit 1: Performance Management and Discipline (Weightage-50%) 1.1 Performance Management • Setting clear and measurable performance goals • Challenges in setting goals and measurement of performance 1.2 Performance Appraisal • Performance appraisal methods: ◦ 360-degree Feedback ◦ Management by Objectives (MBO) • Providing constructive feedback and coaching • Addressing performance issues and implementing corrective actions 1.3 Discipline Management • Disciplinary procedures • Progressive discipline • Documentation • Employee rights • Maintaining a positive and productive work environment 1.4 Mentorship • Introduction to mentorship • Who qualifies as a mentor • How mentorship is executed in organizations Unit 2: Employee Relations (Weightage-50%) 1.1 Introduction to Employee Relations • Defining Employee Relations • Nature and Scope of Employee Relations • Importance of positive employee relations • Impact on organizational performance (productivity, morale, turnover) 2.2 Creating a Positive Work Environment • Organizational culture and values • Diversity and inclusion initiatives • Employee engagement strategies • Employee recognition programmes • Work-life balance initiatives 2.3 Conflict Resolution and Mediation • Identifying and addressing workplace conflicts • Negotiation and mediation techniques • Conflict resolution policies and procedures 1.4 Informal Organization • Understanding informal organization • Role of informal organization in various aspects of HR • Informal organization in conflict management • Informal organization in employee feedback
Reference Books	1. Performance Management: Ensuring Business Success by Peter Cappelli. 2. Building Trust: In Business, Politics, Families, and Communities by James C. Hunter
Teaching Methodology	Blended Experiential and Problem Based Learning
Evaluation Method	Practical Internal Assessment : 50 Marks External Assessment : 50 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	4						
National Credit Framework Level	5.0						
Course Type	Major						
Course Subtype	Employability						
Subject Type	Discipline Specific						
Course Code	[2710000204033001]						
Course Level	200						
Course Title	Supply Chain Management-II						
Credit	Theory:	0	Practical:	04	Total:	04	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1: Explain the concepts, objectives, and importance of inventory management and supply chain logistics in industrial operations. CO2: Apply inventory control techniques such as EOQ, ABC Analysis, and JIT to optimize inventory levels and operational efficiency. CO3: Demonstrate an understanding of stores management practices, inventory costing methods, and digital inventory management systems. CO4: Explain transportation systems, logistics infrastructure, and the role of rail, road, ports, and third-party logistics (3PL) in supply chain management. CO5: Analyze logistics strategies, supply chain visibility, and sustainable logistics practices for improving organizational performance. CO6: Evaluate inventory and logistics management practices to support efficient supply chain operations and business competitiveness.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1	✓	✓				
	CO2	✓	✓				✓
	CO3		✓				✓
	CO4	✓	✓				✓
	CO5	✓	✓		✓		✓
	CO6		✓	✓	✓		✓

Course Content	Unit 1: Inventory Management (Weightage-50%) ● Importance of effective inventory management, Inventory costs: Holding costs, ordering costs, stock out costs, Safety stock and reorder points. ● Inventory control techniques – Economic Order Quantity (EOQ) model, Need and importance of EOQ model. Introduction to other models of ordering Limitations of EOQ model in terms of Min order quantity / packing / transportation/ seasonal availability. ABC analysis (Pareto principle), Just-In-Time (JIT) inventory system, advantage and limitation of JIT. Example of JIT in operation. ● Stores management: Introduction to various methods of costing / issue for material (stores) LIFO and FIFO methods and its Impact on financial statement. ● Inventory management software and technologies. Unit 2. Supply Chain Logistics (Weightage-50%) ● Introduce concept of – Unitizing load: Pelleting of loads and containerization. ● Geography as part of logistics: Understanding global geography with respect to shipping routes, Geopolitical influence on these route and Understanding air traffic across glob. ● Land route logistics: 1. Railways : Understanding rail network of India, Various gauge, Various types of wagons and capability of carrying bulk material 2. Understanding road network: Typical types of trucks and their carrying capacity and Road network of India ● Dry port and Container corporation of India role ● Third-party logistics (3PL): Need importance of 3PL, Working of 3PL, Impact of 3PL on books of account for company and Limitation, Opportunity ahead for entrepreneur ● Supply chain visibility and tracking, Logistics and sustainability: Environmental impact and green logistics.
Reference Books	1. Inventory Management: Principles and Practice by Ronald H. Ballou. 2. Supply Chain Management: Strategy, Planning & Operation by Sunil Chopra and Peter Meindl. 3. Logistics and Supply Chain Management by Christopher M. Bowersox, David J. Closs, and M. Bixby Cooper
Teaching Methodology	Blended Experiential and Problem Based Learning
Evaluation Method	Practical Internal Assessment : 50 Marks External Assessment : 50 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management					
Semester	4					
National Credit Framework Level	5.0					
Course Type	Minor					
Course Subtype	Employability					
Subject Type	Discipline Specific					
Course Code	[2710000204044001] T [2710000204044002] P					
Course Level	200					
Course Title	Entrepreneurship					
Credit	Theory:	02	Practical:	02	Total:	04
Effective From	Academic Year : 2026-27					
Course Outcomes	CO1: Explain the concepts, characteristics, and importance of entrepreneurship and its role in economic development. CO2: Identify and evaluate business opportunities using idea generation, market research, validation, and feasibility analysis techniques. CO3: Develop a basic business plan incorporating strategic, financial, and legal considerations for a new venture. CO4: Apply marketing and sales principles to acquire, retain, and satisfy customers in competitive business environments. CO5: Demonstrate effective leadership, networking, communication, and team-building skills for entrepreneurial success. CO6: Evaluate entrepreneurial strategies and business practices to promote innovation, sustainable growth, and organizational success.					

Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	
	CO1		✓			✓		
	CO2		✓			✓	✓	
	CO3		✓			✓	✓	
	CO4		✓			✓		
	CO5					✓	✓	
	CO6	✓	✓			✓	✓	
Course Content	Unit 1: Introduction to Entrepreneurship (Weightage-20%) Defining Entrepreneurship, Types of entrepreneurs (e.g., lifestyle, social, scalable), The entrepreneurial mind-set: risk-taking, innovation, resilience, The Role of Entrepreneurship in the Economy, Entrepreneurial Ecosystems, Entrepreneurial Myths and Realities. Unit 2: Identifying and Validating Business Idea (Weightage-20%) Idea Generation Techniques, Market Research and Analysis, Idea Validation, Feasibility Analysis. Unit3: Business Planning and Strategy (Weightage-20%) Developing a Business Plan, Strategic Planning, Financial Management, Legal and Regulatory Considerations Unit 4: Marketing and Sales Fundamental (Weightage-20%) Marketing Principles, Sales Techniques, Customer Acquisition and Retention, Market Research for Marketing and Sales. Unit 5: Building Strong Team and Network (Weightage-20%) Team Building, Networking Strategies, Communication and Collaboration, Building Strategic Partnerships.							
Reference Books	1. "The Lean Startup" by Eric Ries. 2. "Zero to One: Notes on Startups, or How to Build the Future" by Peter Thiel 3. "Testing Business Ideas" by David J. Bland, Alexander Osterwalder 4. "The Five Dysfunctions of a Team" by Patrick Lencioni.							
Teaching Methodology	Case studies on startups, MSMEs, and successful entrepreneurs							
Evaluation Method	Theory Internal Assessment : 25 Marks External Assessment : 25 Marks Practical Internal Assessment : 25 Marks External Assessment : 25 Marks							

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	4						
National Credit Framework Level	5.0						
Course Type	Ability Enhancement Course (AEC)						
Course Subtype	Employability						
Subject Type	Intra Disciplinary						
Course Code	[2710000204055001]						
Course Level	200						
Course Title	Professional Communication and Workplace Skills						
Credit	Theory:	02	Practical:	00	Total:	02	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1: Explain the principles and formats of professional business writing, including e-mails, letters, reports, and proposals. CO2: Develop persuasive and audience-centric written communication using appropriate arguments, evidence, and professional writing techniques. CO3: Apply goal-setting strategies and a positive attitude to enhance personal effectiveness and professional growth. CO4: Demonstrate effective time management and prioritization techniques to improve workplace productivity and efficiency. CO5: Prepare professional business documents and workplace communications that meet organizational standards. CO6: Apply communication, goal-setting, and time management skills to improve professional performance and organizational effectiveness.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1					✓	✓
	CO2					✓	✓
	CO3					✓	
	CO4					✓	
	CO5					✓	✓
	CO6	✓				✓	✓

Course Content	Unit 1: Business Writing Formats (Weightage-30%) - Professional emails (formatting, tone, etiquette), Memos and letters (format, purpose, audience), Reports (structure, data analysis, conclusions), Proposals (problem statement, solutions, budget). Unit 2: Persuasive & Audience-Centric Communication (Weightage-25%) - Developing strong arguments and supporting evidence, Persuasive language and rhetorical techniques, Building credibility and professional trust, Writing for different audiences Unit 3: Goal Setting & Positive Attitude (Weightage-25%) - Importance of Goal Setting, SMART Goals framework, Types of goals (short-term, long-term, professional), Positive Attitude Unit 4: Time Management & Workplace Efficiency (Weightage-20%) Importance and objectives of time management, Steps for effective time management, Prioritization techniques, Procrastination and ways to overcome it
Reference Books	1. Business Communication – Meenakshi Raman & Prakash Singh, Latest Edition (2024), Oxford University Press India 2. Business Communication – K.K. Sinha, Latest Edition (2023), Galgotia Publishing 3. Professional Communication – Aruna Koneru, Latest Edition, Tata McGraw Hill 4. Soft Skills – S.P. Dhanavel, Latest Edition (2023), Orient Blackswan 5. Organizational Behaviour – K. Aswathappa, Latest Edition, McGraw Hill India
Teaching Methodology	Practical writing exercises on e-mails, reports, letters, and proposals
Evaluation Method	Theory Internal Assessment : 25 Marks External Assessment : 25 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	4						
National Credit Framework Level	5.0						
Course Type	Skill Enhancement Course (SEC)						
Course Subtype	Skill Development						
Subject Type	Intra Disciplinary						
Course Code	[2710000204066001]						
Course Level	200						
Course Title	AI Powered Digital Marketing						
Credit	Theory:	00	Practical:	02	Total:	02	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1: Explain the fundamentals of AI tools, prompt engineering, and AI-assisted content creation for business applications. CO2: Create digital marketing assets, including brand identity, content, visuals, and landing pages, using AI and no-code tools. CO3: Apply basic Search Engine Optimization (SEO) techniques and keyword research methods to improve website visibility. CO4: Demonstrate the use of AI tools for social media management, content scheduling, and email marketing automation. CO5: Analyze keyword strategies, competitor insights, and website optimization techniques to enhance digital marketing performance. CO6: Utilize AI-powered digital marketing tools to develop effective online marketing strategies and improve business productivity.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						✓
	CO2		✓			✓	✓
	CO3		✓				✓
	CO4		✓			✓	✓
	CO5		✓				✓
	CO6		✓			✓	✓

Course Content	Unit 1: AI Prompt Engineering & Asset Creation (Weightage: 25%) • Introduction to AI tools (Chat GPT, Gemini, Claude) • Basic prompt writing techniques (Role–Task–Format) • Creating: Brand identity, Buyer personas and Tone of communication. • AI-based content creation: Blog outlines and simple articles • Visual content using AI tools: ◦ Canva, DALL·E (basic idea) ◦ Ad creatives, logos, images Unit 2: AI-Assisted Web Setup & SEO (Weightage: 25%) • Basic website creation using no-code tools (Wix, WordPress – simple idea) • Creating a basic business landing page • Keyword research using simple tools • On-page SEO basics: Title tags, Meta descriptions and Image descriptions Unit 3: Social Media & Email Automation (Weightage: 25%) • Social media content planning (basic calendar) • Writing posts and captions using AI • Scheduling posts using simple tools • Email marketing basics: ◦ Writing simple email sequences ◦ Introduction to automation tools (Mail chimp – basic idea) Unit 4: Advanced Organic SEO & Keyword Intelligence (Weightage: 25%) • Basic keyword strategy and competitor analysis • Identifying keyword gaps using simple tools • Introduction to technical SEO (basic idea only) • Backlink concept and simple outreach emails • Importance of website visibility and ranking
Reference Books	1. Recommended Books (Conceptual Frameworks) • Marketing Artificial Intelligence – Paul Roetzer & Mike Kaput (2022). <i>Marketing Artificial Intelligence: AI, Marketing, and the Future of Business</i>. Ben Bella Books. • Product Led SEO – Eli Schwartz (2021). <i>Product-Led SEO: The Why behind Building Your Organic Growth Strategy</i>. • This Is Marketing – Seth Godin (2018). <i>This Is Marketing: You Can't Be Seen Until You Learn to See</i>. Portfolio/Penguin. 2. Required Online Academies & Certifications • Hub Spot Academy: Inbound Marketing Certification & Email Marketing Certification (Practical training on CRM automation, lead nurturing, and content marketing) • Google Skill shop: Google Analytics 4 (GA4) Certification & Google Ads Search Certification (Understanding web traffic, analytics, and digital advertising) • SEMrush Academy: SEO Fundamentals Certification (Hands-on training in keyword research, SEO, and competitor analysis)
Teaching Methodology	Hands-on practical sessions using ChatGPT, Gemini, Claude, Canva, DALL·E, and other AI applications
Evaluation Method	Practical Internal Assessment : 25 Marks External Assessment : 25 Mark

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	4						
National Credit Framework Level	5.0						
Course Type	Value Added Course (VAC)						
Course Subtype	Employability						
Subject Type	Intra Disciplinary						
Course Code	[2710000204066001]						
Course Level	200						
Course Title	Indian Economics And Business Model -II						
Credit	Theory:	02	Practical:	0	Total:	02	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1: Explain the historical contribution of different sectors in the Indian economy. CO2: Compare past and present structure of agriculture, manufacturing, and business. CO3: Analyze India's global economic position. CO4: Understand the 10-point framework of the Indian Business Model. CO5: Examine the role of family business, savings, entrepreneurship, and social capital. CO6: Interpret the value-driven and society-oriented nature of Indian economic systems.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1	✓	✓			✓	
	CO2	✓	✓			✓	
	CO3	✓	✓	✓		✓	
	CO4	✓	✓	✓	✓		✓
	CO5	✓	✓	✓	✓	✓	✓
	CO6	✓	✓	✓	✓	✓	✓

Course Content	UNIT I: History of Sectoral Contribution in India (Present vs. Past) (Weightage: 50%) 1.1 Agriculture: Ancient India 1.2 Manufacturing: Ancient India 1.3 Education in India 1.4 Business in India 1.5 Global Position of India UNIT II: Indian Business Model (Based on 10 Points Formula) (Weightage: 50%) 2.1 Family Base 2.2 High Level of Savings 2.3 Self-Employment 2.4 Highly Entrepreneurial Nature 2.5 Non-Corporate Sector as Core of the Economy 2.6 Community Orientation and Higher Social Capital 2.7 Faith and Relationship in Economic Affairs 2.8 A Society-Driven Economy 2.9 Driven by Norms and Values 2.10 Project Report Format
Reference Books	1. Kangalasabapathi – Indian Models of Economy, Business and Management, Prentice Hall India Ltd. 2. Lotus and Stones – Garuda Prakashani. 3. Dwivedi D.N. – Essentials of Business Economics, Vikas Publications. 4. India Uninc by Prof. R. Vaidyanathan, Westland Ltd. 5. Economic Sutras by Prof. Satish Y. Deodhar, IIMA Books Series. 6. Black Money Tax Haven by R. Vaidyanathan, Westland Ltd. 7. Web Resources 1. Goswami Anandi – Economic Modeling, Analysis, and Policy for Sustainability, IGI Global. 2. Ganguly Anirban – Redefining Governance, Prabhat Prakashan. 3. Vaidyanathan R. – India Unincorporated, ICFAI Books.
Teaching Methodology	Lectures, Guest Lectures, Case Study, Presentations, Group Assignments
Evaluation Method	Theory Internal Assessment : 25 Marks External Assessment : 25 Marks

4th Semester End.....!

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	5						
National Credit Framework Level	5.5						
Course Type	Major						
Course Subtype	Employability						
Subject Type	Discipline Specific						
Course Code	[2608000905011001]						
Course Level	300						
Course Title	Principles of Unit Operations						
Credit	Theory:	0	Practical:	04	Total:	04	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1 - Explain the basic concept of unit operations used in industries. CO2 - Describe fluid flow behaviour and basic equipment such as flow measuring devices, pumps, and filtration systems. CO3 - Explain material handling techniques including size reduction and size separation. CO4 - Differentiate between feedback and feedforward process control systems. CO5 - Apply basic principles of maintaining temperature, pressure, and flow in industrial processes. CO6 - Analyze industrial safety hazards and environmental practices such as pollution control and waste management.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1	✓					
	CO2	✓					
	CO3	✓					
	CO4	✓					
	CO5	✓					
	CO6				✓		

Course Content	Unit 1: Introduction to Unit Operations & Fluid Flow (Weightage: 30%) • Basic idea of unit operations used in industries • Simple understanding of fluid flow (how liquids/gases move) • Basic concepts: pressure and flow (no formulas) • Common equipment used: ◦ Flow measuring devices (basic idea only) ◦ Pumps (moving liquids from one place to another) ◦ Filtration (separating solids from liquids) Unit 2: Mechanical Operations & Process Control (Weightage: 40%) • Material Handling (Basic Idea): ◦ Size reduction (breaking materials into smaller parts) ◦ Size separation (sorting materials based on size) • Process Control (Simple Understanding): ◦ Feedback system (correcting errors after they happen) ◦ Feedforward system (preventing errors before they happen) • Basic idea of maintaining: Temperature, Pressure, Flow Unit 3: Safety, Environment & Case Studies (Weightage: 30%) • Industrial Safety: Basic hazard identification; Importance of workplace safety • Environmental Awareness: Pollution control (basic idea); Waste reduction and management
Reference Books	1. Elements of Chemical Engineering – Adapted Indian Edition, Latest Reprint (2023), Pearson India 2. Chemical Engineering Fundamentals – K.A. Gavhane, Latest Edition (2023), Nirali Prakashan 3. Unit Operations of Chemical Engineering – R.K. Rajput, Latest Edition (2024), Laxmi Publications 4. Industrial Safety Management – L.M. Deshmukh, Latest Edition (2023), McGraw-Hill India 5. Environmental Studies – Erach Bharucha, Latest Edition (2024), Universities Press
Teaching Methodology	Practical Demonstration and Experiential Learning
Evaluation Method	Practical Internal Assessment : 50 Marks External Assessment : 50 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	5						
National Credit Framework Level	5.5						
Course Type	Major						
Course Subtype	Employability						
Subject Type	Discipline Specific						
Course Code	[2608000905022001]						
Course Level	300						
Course Title	Industrial Laws & Statutory Compliances						
Credit	Theory:	0	Practical:	04	Total:	04	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1 - Explain the provisions of the Occupational Safety, Health and Working Conditions (OSHWC) Code and evaluate workplace safety, health, environmental governance, and statutory compliance requirements. CO2 - Apply the provisions of the Code on Wages and the Code on Social Security in payroll administration, statutory deductions, and employee welfare management. CO3 - Analyze the Industrial Relations Code, modern workforce contracts, and employment models to promote harmonious industrial relations. CO4 - Demonstrate the use of digital compliance systems, unified labour portals, inspection mechanisms, and corporate compliance strategies in organizations. CO5 - Evaluate labour law compliance, governance practices, and statutory obligations to ensure ethical and legally compliant industrial operations. CO6 - Recommend appropriate compliance strategies for workplace governance, employee welfare, industrial harmony, and sustainable organizational practices.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1	✓	✓			✓	✓
	CO2	✓	✓	✓		✓	✓
	CO3	✓	✓		✓		✓
	CO4	✓	✓	✓		✓	✓
	CO5	✓	✓	✓	✓	✓	✓
	CO6	✓	✓	✓	✓	✓	✓

Course Content	Unit 1: Workplace Safety, Health & Environmental Governance (Weightage: 30%) • The Occupational Safety, Health and Working Conditions (OSHC) Code • Inclusion & Diversity in the Workforce: • Environmental & State Statutory Norms (GPCB) Unit 2: Wage Policies & Comprehensive Social Security (Weightage: 30%) • The Code on Wages • The Code on Social Security • Payroll & Statutory Operations Unit 3: Industrial Relations & Modern Workforce Contracts (Weightage: 20%) • The Industrial Relations (IR) Code • Modern Contracting & Workforce Models Unit 4: Digital Compliance, Governance & Inspection (Weightage: 20%) • Digital Governance & Unified Portals • The New Inspection Paradigm • Corporate Compliance Strategy
Reference Books	Text Books: 1. P. L. Malik – Industrial Law. 2. S. C. Srivastava – Industrial Relations and Labour Laws. 3. C. B. Mamoria & S. V. Gankar – Dynamics of Industrial Relations. 4. Government of India – The Occupational Safety, Health and Working Conditions Code, 2020. 5. Government of India – The Code on Wages, 2019. 6. Government of India – The Industrial Relations Code, 2020. 7. Labour Bureau, Ministry of Labour & Employment – Labour Statistics India. 8. V. G. Goswami – Labour and Industrial Laws. Online Resources: 1. Ministry of Labour & Employment, Government of India. 2. e-Shram Portal. 3. Shram Suvidha Portal.
Teaching Methodology	Case-Based and Statutory Documentation Learning
Evaluation Method	Practical Internal Assessment : 50 Marks External Assessment : 50 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	5						
National Credit Framework Level	5.5						
Course Type	Major						
Course Subtype	Employability						
Subject Type	Discipline Specific						
Course Code	[2608000905033001]						
Course Level	300						
Course Title	Quality Management Systems & Auditing						
Credit	Theory:	0	Practical:	04	Total:	04	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1 - Explain the importance and basic requirements of ISO 9001 Quality Management Systems. CO2 - Describe ISO 14001 Environmental Management Systems and ISO 45001 Occupational Health & Safety standards. CO3 - Differentiate between internal, supplier, and certification audits. CO4 - Apply the basic audit process including planning, conducting, and reporting non-conformities. CO5 - Explain Total Quality Management (TQM) principles and basic Six Sigma (DMAIC) concepts. CO6 - Prepare Standard Operating Procedures (SOPs) and apply basic problem-solving tools such as Fishbone diagrams and 5 Whys.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1			✓			
	CO2			✓			
	CO3			✓			
	CO4			✓			
	CO5			✓			
	CO6			✓			

Course Content	Unit 1: Introduction to ISO Standards (Weightage: 30%) • Overview of ISO standards and their importance in industry • ISO 9001: Basic idea of Quality Management System (QMS) – Customer focus, continuous improvement, PDCA cycle (simple understanding) • ISO 14001: Basic idea of Environmental Management System (EMS) • ISO 45001: Basic idea of Occupational Health & Safety Unit 2: Industrial Auditing Types (Weightage: 30%) • Types of audits: Internal audit (within organization); Supplier audit; Certification audit • Basic audit process: Planning and checklist preparation; Conducting an audit (simple observation and checking); Reporting issues (non-conformities); Corrective actions and closure Unit 3: TQM and Six Sigma Basics (Weightage: 20%) • Total Quality Management (TQM): Customer focus; Continuous improvement • Six Sigma (basic idea): DMAIC approach (simple understanding); Roles (Green Belt, Black Belt – basic overview) Unit 4: Documentation & Implementation (Weightage: 20%) • Preparation of Standard Operating Procedures (SOPs) • Control and maintenance of documents • Basic problem-solving tools: Fishbone diagram (cause analysis); 5 Whys (root cause identification) • Concept of Management Representative (basic role) • Overview of quality system implementation in Indian industries • Government initiatives, challenges, and opportunities (basic idea)
Reference Books	1. Total Quality Management – Kanishka Bedi, Latest Edition (2023), Oxford University Press India 2. Total Quality Management – S.K. Sharma, Latest Edition (2023), S. Chand 3. Quality Management – V.K. Khanna, Latest Edition (2024), New Age International 4. Industrial Engineering and Management – O.P. Khanna, Latest Edition (2023), Dhanpat Rai Publications 5. Production and Operations Management – S.N. Chary, Latest Edition (2023), McGraw-Hill India
Teaching Methodology	Blended Case-Study and Audit-Simulation Learning
Evaluation Method	Practical Internal Assessment : 50 Marks External Assessment : 50 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	5						
National Credit Framework Level	5.5						
Course Type	Minor						
Course Subtype	Entrepreneurship						
Subject Type	Discipline Specific						
Course Code	[2608000905044001] T [2608000905044002] P						
Course Level	300						
Course Title	Project Management						
Credit	Theory:	02	Practical:	02	Total:	04	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1 - Explain the project lifecycle stages of initiation, planning, execution, monitoring, and closure. CO2 - Describe the role and responsibilities of a Project Manager. CO3 - Prepare a Work Breakdown Structure (WBS) and simple network diagrams for project scheduling. CO4 - Apply CPM and PERT techniques and construct Gantt charts for project scheduling. CO5 - Allocate resources and apply basic risk identification and analysis techniques. CO6 - Explain project monitoring techniques and basic concepts of Agile and Scrum methodology.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1	✓					
	CO2	✓					
	CO3	✓					✓
	CO4	✓					✓
	CO5	✓					
	CO6	✓					

Course Content	Unit 1: Fundamentals of Project Management (Weightage: 25%) • Introduction to project management • Project lifecycle: Initiation, Planning, Execution, Monitoring, Closure • Role and Responsibilities of a Project Manager • Basic idea of Project Charter Unit 2: Project Planning & Scheduling (Weightage: 25%) • Work Breakdown Structure (WBS) – breaking the project into tasks • Basic idea of network diagrams (activity-based and event-based) • Understanding float (time flexibility in tasks) • Introduction to CPM (Critical Path Method – basic idea) and PERT (basic understanding) • Gantt charts for simple project scheduling Unit 3: Resource & Risk Management (Weightage: 25%) • Resource allocation and leveling (basic idea) • Types of resources (manpower, materials, machines) • Basic idea of optimizing resources • Risk management: Identifying risks; Basic analysis and response • Concept of bonus vs penalty for project completion Unit 4: Project Monitoring & Agile (Weightage: 25%) • Basic idea of project monitoring and control • Introduction to Earned Value Management (simple concept only) • Introduction to Agile methodology • • Scrum basics (roles, simple process)
Reference Books	1. Project Management – K.K. Chitkara, Latest Edition (2023), Tata McGraw-Hill 2. Project Management Planning and Control – K. Nagarajan, Latest Edition (2023), New Age International 3. Project Management – Vasant Desai, Latest Edition (2024), Himalaya Publishing House 4. Operations Management – S.N. Chary, Latest Edition (2023), McGraw-Hill India 5. Production and Operations Management – Kanishka Bedi, Latest Edition (2023), Oxford University Press India
Teaching Methodology	Case-Based and Tool-Oriented Learning
Evaluation Method	Theory Internal Assessment : 25 Marks External Assessment : 25 Marks Practical Internal Assessment : 25 Marks External Assessment : 25 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	5						
National Credit Framework Level	5.5						
Course Type	Minor						
Course Subtype	Entrepreneurship						
Subject Type	Discipline Specific						
Course Code	[2608000905055001] T [2608000905055002] P						
Course Level	300						
Course Title	Financial Management for Managers						
Credit	Theory:	02	Practical:	02	Total:	04	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1 - Explain the goals of financial management and the concept of time value of money. CO2 - Interpret key financial statements such as the Balance Sheet and Profit & Loss account. CO3 - Evaluate investment proposals using Payback Period, NPV, and IRR techniques. CO4 - Apply the concept of capital rationing to select among competing projects. CO5 - Manage the operating cycle and working capital components such as cash, receivables, and inventory. CO6 - Analyze sources of finance and compute the Weighted Average Cost of Capital (WACC).						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						
	CO2						
	CO3	✓	✓				
	CO4	✓	✓				
	CO5		✓				
	CO6						

Course Content	Unit 1: Basics of Finance (Weightage: 25%) • Goals of Financial Management • Time Value of Money • Understanding Financial Statements (Balance Sheet, P&L) Unit 2: Capital Budgeting (Weightage: 25%) • Investment Decision Techniques: Payback Period, NPV (Net Present Value), IRR (Internal Rate of Return) • Concept of capital rationing with example and introduction to selection criteria for competing projects Unit 3: Working Capital Management (Weightage: 25%) • Operating Cycle • Management of Cash, Receivables, and Inventory (Financial perspective) Unit 4: Cost of Capital (Weightage: 25%) • Various alternatives of finance, their relative merits and demerits from an entrepreneur's perspective • Introduction to Bank Overdraft and Cash Credit (CC) • Sources of Finance (Equity, Debt) • • Weighted Average Cost of Capital (WACC)
Reference Books	1. Khan, M. Y., & Jain, P. K. Financial Management. Tata McGraw Hill. 2. Pandey, I. M. Financial Management. Vikas Publishing.
Teaching Methodology	Lecture-cum-Numerical Problem Solving
Evaluation Method	Theory Internal Assessment : 25 Marks External Assessment : 25 Marks Practical Internal Assessment : 25 Marks External Assessment : 25 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management						
Semester	5						
National Credit Framework Level	5.5						
Course Type	Skill Enhancement Course (SEC)						
Course Subtype	Skill Development						
Subject Type	Intra Disciplinary						
Course Code	[2608000905066001]						
Course Level	300						
Course Title	Industry 4.0: Revolutionizing Manufacturing						
Credit	Theory:	00	Practical:	02	Total:	02	
Effective From	Academic Year : 2026-27						
Course Outcomes	CO1 - Define Industry 4.0 and trace its historical evolution. CO2 - Explain the concept and key components of Smart Factories. CO3 - Describe the role of IoT sensors and actuators in manufacturing connectivity. CO4 - Explain applications of AI and Big Data in predictive maintenance and quality control. CO5 - Describe Cloud manufacturing platforms and Cyber-Physical Systems (CPS) integration. CO6 - Analyze the impact of Industry 4.0 on jobs, workforce reskilling, sustainability, and future trends.						
Mapping between Cos and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
	CO1						✓
	CO2						✓
	CO3						✓
	CO4						✓
	CO5						✓
	CO6						✓

Course Content	Unit 1: Introduction to Industry 4.0 (Weightage: 25%) • Defining Industry 4.0 and its key characteristics; historical evolution • Convergence of technologies • Smart Factories: Flexibility, Agility, Connectivity; key components Unit 2: Key Technologies (Weightage: 40%) • IoT: Sensors, actuators, connectivity in manufacturing • AI & Big Data: Machine learning in predictive maintenance and quality control; data collection and analysis • Cloud & CPS: Cloud manufacturing platforms; Cyber-Physical Systems integration Unit 3: Impact & Future (Weightage: 35%) • Benefits: Efficiency, Productivity, Flexibility • Impact on jobs, skills gap, and workforce reskilling • Sustainability and ethical considerations • Case studies of implementation
Reference Books	1. Schwab, K. (2016). The Fourth Industrial Revolution. Currency. 2. Gilchrist, A. (2016). Industry 4.0: The Industrial Internet of Things. Apress.
Teaching Methodology	Technology Demonstration and Case Discussion
Evaluation Method	Practical Internal Assessment : 25 Marks External Assessment : 25 Marks

5th Semester End.....!

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management																																																														
Semester	6																																																														
National Credit Framework Level	5.5																																																														
Course Type	Major																																																														
Course Subtype	Employability																																																														
Subject Type	Discipline Specific																																																														
Course Code	[2708000906011001]																																																														
Course Level	300																																																														
Course Title	Operations Research																																																														
Credit	<table border="1"> <tr> <td>Theory:</td><td>0</td><td>Practical:</td><td>04</td><td>Total:</td><td>04</td><td></td><td></td></tr> </table>							Theory:	0	Practical:	04	Total:	04																																																		
Theory:	0	Practical:	04	Total:	04																																																										
Effective From	Academic Year : 2026-27																																																														
Course Outcomes	CO1 - Formulate Linear Programming Problems (LPP) and solve them using the graphical method. CO2 - Apply the Simplex method and explain the basic concept of duality in LPP. CO3 - Solve transportation problems using North-West Corner Rule, Least Cost Method, and Vogel's Approximation Method. CO4 - Solve assignment problems using the Hungarian Method. CO5 - Apply basic game theory and decision theory techniques such as Maximax, Maximin, and Minimax Regret. CO6 - Explain basic queuing theory and simulation concepts to improve operational efficiency.																																																														
Mapping between COs and PSOs	<table border="1"> <tr> <th></th><th>PSO1</th><th>PSO2</th><th>PSO3</th><th>PSO4</th><th>PSO5</th><th>PSO6</th><th></th></tr> <tr> <td>CO1</td><td>✓</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>CO2</td><td>✓</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>CO3</td><td>✓</td><td>✓</td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>CO4</td><td>✓</td><td>✓</td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>CO5</td><td>✓</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>CO6</td><td>✓</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>								PSO1	PSO2	PSO3	PSO4	PSO5	PSO6		CO1	✓							CO2	✓							CO3	✓	✓						CO4	✓	✓						CO5	✓							CO6	✓						
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CO3	✓	✓																																																													
CO4	✓	✓																																																													
CO5	✓																																																														
CO6	✓																																																														

Course Content	Unit 1: Linear Programming (Weightage: 30%) • Introduction to Operations Research (OR) • Linear Programming Problems (LPP): Formulation of problems; Graphical method; Simplex method (basic understanding) • Duality in LPP (basic concept only) • Industrial applications of optimization problems Unit 2: Transportation & Assignment Models (Weightage: 30%) • Transportation problems: North-West Corner Rule; Least Cost Method; Vogel's Approximation Method (VAM) • Assignment problems: Hungarian Method (basic understanding) • Applications in logistics and resource allocation Unit 3: Game Theory & Decision Theory (Weightage: 20%) • Introduction to Game Theory: Two-person zero-sum games; Pure and mixed strategies • Decision Theory: Decision making under uncertainty and risk; Maximax; Maximin; Minimax Regret methods Unit 4: Queuing Theory & Simulation (Weightage: 20%) • Introduction to Queuing Theory: Single server model (basic idea); Waiting line concepts • Introduction to Simulation: Basic production and service applications • Importance of reducing waiting time and improving efficiency
Reference Books	1. Operations Research – Kanti Swarup, Latest Edition, Sultan Chand & Sons. 2. Operations Research – P.K. Gupta & D.S. Hira, Latest Edition, S. Chand Publications. 3. Operations Research – J.K. Sharma, Latest Edition, Macmillan India. 4. Quantitative Techniques – C.R. Kothari, Latest Edition, Vikas Publishing. 5. Operations Research and Quantitative Techniques – N.D. Vohra, Latest Edition, Tata McGraw Hill.
Teaching Methodology	Problem-Based and Quantitative Analytical Learning
Evaluation Method	Practical Internal Assessment : 50 Marks External Assessment : 50 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management														
Semester	6														
National Credit Framework Level	5.5														
Course Type	Major														
Course Subtype	Employability														
Subject Type	Discipline Specific														
Course Code	[2708000906022001]														
Course Level	300														
Course Title	Global Supply Chain & Logistics														
Credit	<table border="1"> <tr> <td>Theory:</td><td>0</td><td>Practical:</td><td>04</td><td>Total:</td><td>04</td><td></td><td></td></tr> </table>							Theory:	0	Practical:	04	Total:	04		
Theory:	0	Practical:	04	Total:	04										
Effective From	Academic Year : 2026-27														
Course Outcomes	CO1 - Explain the challenges of global sourcing and rules governing international shipping and air cargo. CO2 - Apply INCOTERMS 2020 to determine the obligations of buyers and sellers in international trade. CO3 - Prepare essential import-export documentation such as Bill of Lading, Commercial Invoice, and Letter of Credit. CO4 - Explain the customs clearance process (ICEGATE) and basic banking procedures for import-export transactions. CO5 - Apply strategic warehousing concepts such as Bonded Warehouses, FTWZs, and cross-docking strategies. CO6 - Analyze emerging trends in logistics such as Green Logistics, Reverse Logistics, and Blockchain applications.														
Mapping between COs and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6								
	CO1		✓												
	CO2		✓												
	CO3		✓												
	CO4		✓												
	CO5		✓												
	CO6		✓				✓								

Course Content	Unit 1: Global Logistics Management (Weightage: 25%) • Challenges in global sourcing – learning specific shipping routes: energy safety (movement of crude/petroleum/gas/coal); food safety • Rules governing international logistics like shipping, air cargo • Containerization; INCOTERMS 2020: understanding obligations of buyers and sellers Unit 2: Import-Export Procedures (Weightage: 25%) • Documentation: Bill of Lading, Commercial Invoice, Letter of Credit (L/C) • Customs Clearance Process (basics of ICEGATE); banking process; introduction to HSN codes • Import-export flow chart of procedures: process of import of goods – documentation/customs; process of export of goods – documentation/banking process Unit 3: Warehousing & Inventory Strategy (Weightage: 25%) • Strategic Warehousing: Bonded warehouses, FTWZs (Free Trade Warehousing Zones); cross-docking strategies; global inventory visibility • Exploring outsourcing options integral to SCM: bulk break; completely knocked-down assembly; assembling and value addition • Understanding warehousing needs across industries such as soft drinks, FMCG, automobile Unit 4: Trends in Logistics (Weightage: 25%) • Green Logistics; Reverse Logistics; role of Blockchain in supply chain transparency • Exploring logistics involved in power plants (coal/gas/naphtha), fertilizer plants, and cement plants
Reference Books	1. Chopra, S., & Meindl, P. Supply Chain Management. Pearson. 2. Bowersox, D. J. Supply Chain Logistics Management. McGraw Hill.
Teaching Methodology	Case Study and Field-Based Learning
Evaluation Method	Practical Internal Assessment : 50 Marks External Assessment : 50 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management																																																						
Semester	6																																																						
National Credit Framework Level	5.5																																																						
Course Type	Major																																																						
Course Subtype	Employability																																																						
Subject Type	Discipline Specific																																																						
Course Code	[2708000906033001]																																																						
Course Level	300																																																						
Course Title	Sustainable Manufacturing & Smart Maintenance																																																						
Credit	Theory:	0	Practical:	04	Total:	04																																																	
Effective From	Academic Year : 2026-27																																																						
Course Outcomes	CO1 - Explain the concept of resource scarcity and the need for sustainable manufacturing practices. CO2 - Apply the Life Cycle Assessment (LCA) approach to evaluate a product's environmental impact. CO3 - Explain the principles of Predictive Maintenance (PdM) using real-time condition monitoring. CO4 - Describe the role of IoT sensors, AI, and Machine Learning in predicting the Remaining Useful Life (RUL) of equipment. CO5 - Apply reclamation, refurbishment, and reverse-engineering techniques to extend asset life. CO6 - Analyze case studies on sustainable manufacturing and describe CMMS and digital-twin tools.																																																						
Mapping between COs and PSOs	<table border="1"> <thead> <tr> <th></th><th>PSO1</th><th>PSO2</th><th>PSO3</th><th>PSO4</th><th>PSO5</th><th>PSO6</th></tr> </thead> <tbody> <tr> <td>CO1</td><td></td><td></td><td></td><td>✓</td><td></td><td></td></tr> <tr> <td>CO2</td><td></td><td></td><td></td><td>✓</td><td></td><td></td></tr> <tr> <td>CO3</td><td>✓</td><td></td><td></td><td>✓</td><td></td><td></td></tr> <tr> <td>CO4</td><td></td><td></td><td></td><td>✓</td><td></td><td>✓</td></tr> <tr> <td>CO5</td><td>✓</td><td></td><td></td><td>✓</td><td></td><td></td></tr> <tr> <td>CO6</td><td></td><td></td><td></td><td>✓</td><td></td><td></td></tr> </tbody> </table>							PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	CO1				✓			CO2				✓			CO3	✓			✓			CO4				✓		✓	CO5	✓			✓			CO6				✓		
	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6																																																	
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CO3	✓			✓																																																			
CO4				✓		✓																																																	
CO5	✓			✓																																																			
CO6				✓																																																			

Course Content	Unit 1: Fundamentals of Sustainable Manufacturing (Weightage: 25%) • The “Why”: understanding resource scarcity, climate change, and future implications of industrial waste • Life Cycle Assessment (LCA): the “Cradle-to-Grave” approach – analyzing a product's impact from raw material extraction to final disposal • Core Principles: waste reduction and energy efficiency; use of green/non-toxic materials; social impacts (worker safety and community health) • Indian Context: challenges like high initial costs for SMEs, lack of standardized LCA data, and evolving environmental regulations Unit 2: Predictive & Smart Maintenance Strategies (Weightage: 30%) • Principles of PdM: using real-time condition monitoring to forecast failures • Data & Technology: Sensors & IoT (collecting vibration, temperature, and acoustic data); AI & Machine Learning (detecting anomalies and predicting Remaining Useful Life – RUL) • Tools: familiarization with infrared thermography, ultrasonic analysis, and vibration meters Unit 3: Sustainable Maintenance & Life Extension (Weightage: 25%) • Reclamation & Refurbishment: techniques to clean, repair, and update used spares to a “like-new” condition • Reverse Engineering: deconstructing old or obsolete parts to create design blueprints for manufacturing replacements • Refurbishment as a Green Measure: how extending asset life reduces the need for new raw materials and lowers carbon emissions Unit 4: Implementation, Case Studies & Tools (Weightage: 20%) • Case Studies: success stories of companies reducing energy consumption by 20% or downtime by 50% using PdM • Hands-on Tools: general awareness of CMMS (Computerized Maintenance Management Systems) and digital twins • Strategic Approach: transitioning a traditional Indian workshop into a sustainable, data-driven facility
Reference Books	1. Industrial Safety Management – L.M. Deshmukh, Latest Edition, McGraw Hill India. 2. Maintenance Engineering and Management – R.C. Mishra, Latest Edition, Khanna Publishers. 3. Environmental Studies – Erach Bharucha, Latest Edition, Universities Press. 4. Production and Operations Management – S.N. Chary, Latest Edition, McGraw Hill India. 5. Industrial Engineering and Management – O.P. Khanna, Latest Edition, Dhanpat Rai Publications.
Teaching Methodology	Case Study and Sustainability-Focused Practical Learning
Evaluation Method	Practical Internal Assessment : 50 Marks External Assessment : 50 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT

SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management												
Semester	6												
National Credit Framework Level	5.5												
Course Type	Major												
Course Subtype	Employability												
Subject Type	Discipline Specific												
Course Code	[2708000906044001]												
Course Level	300												
Course Title	Industrial Project Work												
Credit	<table><tr><td>Theory:</td><td>0</td><td>Practical:</td><td>04</td><td>Total:</td><td>04</td></tr></table>							Theory:	0	Practical:	04	Total:	04
Theory:	0	Practical:	04	Total:	04								
Effective From	Academic Year : 2026-27												
Course Outcomes	CO1 - Analyze the operational scale and market position of the host industrial organization. CO2 - Identify and profile major competitors within the host organization's industrial sector. CO3 - Document departmental workflows, organizational structure, and the machinery/software used at the workplace. CO4 - Map vocational skills and tools acquired during workplace training to core academic domains. CO5 - Examine how the host company enforces occupational safety, environmental compliance, and quality protocols. CO6 - Reflect on professional growth and soft-skills application, and identify future learning and career opportunities.												
Mapping between COs and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6						
	CO1	✓	✓										
	CO2		✓										
	CO3	✓		✓									
	CO4	✓	✓	✓	✓	✓	✓						
	CO5			✓	✓								
	CO6					✓							

Course Content	Unit 1: Industry Profile, Scale, and Market Context • Brief overview of the host company and its core manufacturing processes or services • Financial Scale: identification of the host company's Market Capitalization (if publicly listed) or an estimation of its annual turnover and operational scale (if private/unlisted) • Competitor Analysis: identification and brief profiling of at least three major competitor companies operating within the same industrial sector Unit 2: Departmental Overview & Workflow • Detailed description of the specific department where the student is deployed • Organizational chart of the department • Step-by-step documentation of the daily workflows, machinery used, and software utilized Unit 3: Skill Acquisition & Practical Application • This is the core chapter – students must detail the specific, tangible skills they practiced • Mapping of daily tasks to B.Voc. theoretical concepts (e.g., “Assisting in inventory counts” mapped to “Supply Chain Management”) • Tools and techniques mastered during the OJT period Unit 4: Safety, Compliance, and Quality Protocols • Observation of how the host company enforces occupational safety, environmental compliance, and quality checks on the shop floor or in the office Unit 5: Professional Reflection & Future Outlook • A self-assessment of the student's professional growth • Reflection on the application of soft skills, workplace etiquette, and corporate ethics during the tenure • Identifying areas for future learning to advance in this specific industry
Reference Books	1. Industrial Training and Internship Handbook – All India Council for Technical Education Guidelines for Internship and Industrial Training. 2. Business Communication – Meenakshi Raman & Prakash Singh, Oxford University Press India. 3. Human Resource Management – K. Aswathappa, McGraw Hill India. 4. Industrial Safety Management – L.M. Deshmukh, McGraw Hill India. 5. National Skill Development Corporation – Internship and Skill Development Resources.
Teaching Methodology	On-the-Job Training (OJT) / Field-Based Experiential Learning
Evaluation Method	Practical Internal Assessment : 50 Marks External Assessment : 50 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management																																																						
Semester	6																																																						
National Credit Framework Level	5.5																																																						
Course Type	Minor																																																						
Course Subtype	Entrepreneurship																																																						
Subject Type	Discipline Specific																																																						
Course Code	[2708000906055001] T & [2708000906055002] P																																																						
Course Level	300																																																						
Course Title	Leadership & Change Management																																																						
Credit	<table><tr><td>Theory:</td><td>02</td><td>Practical:</td><td>02</td><td>Total:</td><td>04</td></tr></table>						Theory:	02	Practical:	02	Total:	04																																											
Theory:	02	Practical:	02	Total:	04																																																		
Effective From	Academic Year : 2026-27																																																						
Course Outcomes	CO1 - Explain Trait Theory and Behavioural theories of leadership. CO2 - Differentiate between Situational, Transformational, and Transactional leadership styles. CO3 - Explain the components of Emotional Intelligence (EQ) and the role of empathy in leadership. CO4 - Apply Lewin's Change Management Model (Unfreeze-Change-Refreeze) to organizational change scenarios. CO5 - Apply Kotter's 8-Step Change Model to manage organizational change. CO6 - Identify reasons for resistance to change and develop communication strategies to overcome it.																																																						
Mapping between COs and PSOs	<table><tr><td></td><td>PSO1</td><td>PSO2</td><td>PSO3</td><td>PSO4</td><td>PSO5</td><td>PSO6</td></tr><tr><td>CO1</td><td></td><td></td><td></td><td></td><td>✓</td><td></td></tr><tr><td>CO2</td><td></td><td></td><td></td><td></td><td>✓</td><td></td></tr><tr><td>CO3</td><td></td><td></td><td></td><td></td><td>✓</td><td></td></tr><tr><td>CO4</td><td></td><td></td><td></td><td></td><td>✓</td><td></td></tr><tr><td>CO5</td><td></td><td></td><td></td><td></td><td>✓</td><td></td></tr><tr><td>CO6</td><td></td><td></td><td></td><td></td><td>✓</td><td></td></tr></table>							PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	CO1					✓		CO2					✓		CO3					✓		CO4					✓		CO5					✓		CO6					✓	
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CO5					✓																																																		
CO6					✓																																																		

Course Content	Unit 1: Leadership Theories (Weightage: 25%) • Trait Theory, Behavioural Theories • Situational Leadership • Transformational vs. Transactional Leadership Unit 2: Emotional Intelligence in Leadership (Weightage: 25%) • Components of EQ • Role of Empathy and Social Skills in industrial leadership Unit 3: Managing Organizational Change (Weightage: 25%) • Forces for Change • Lewin's Change Management Model (Unfreeze-Change-Refreeze) • Kotter's 8-Step Change Model Unit 4: Resistance to Change (Weightage: 25%) • Reasons for resistance • Strategies to overcome resistance • Role of Communication in change
Reference Books	1. Organizational Behaviour – K. Aswathappa, Latest Edition, McGraw Hill India. 2. Organizational Behaviour – P. Subba Rao, Latest Edition, Himalaya Publishing House. 3. Human Resource Management – V.S.P. Rao, Latest Edition, Excel Books. 4. Leadership and Management – S.C. Saxena, Latest Edition, Sahitya Bhawan Publications. 5. Managing Change – Harigopal, Latest Edition, Response Books.
Teaching Methodology	Case-Based and Reflective Leadership Learning
Evaluation Method	Theory Internal Assessment : 25 Marks External Assessment : 25 Marks Practical Internal Assessment : 25 Marks External Assessment : 25 Marks

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
SYLLABUS

Program Name	Bachelor of Vocation – Industrial Management												
Semester	6												
National Credit Framework Level	5.5												
Course Type	Ability Enhancement Course (AEC)												
Course Subtype	Employability												
Subject Type	Intra Disciplinary												
Course Code	[2708000906066001]												
Course Level	300												
Course Title	Work Etiquettes & Corporate Ethics												
Credit	<table><tr><td>Theory</td><td>02</td><td>Practical</td><td>0</td><td>Total:</td><td>02</td></tr></table>							Theory	02	Practical	0	Total:	02
Theory	02	Practical	0	Total:	02								
Effective From	Academic Year : 2026-27												
Course Outcomes	CO1 - Demonstrate professional behaviour including punctuality, dress code, and grooming. CO2 - Apply email, telephone, and meeting etiquette in professional communication. CO3 - Demonstrate interpersonal skills such as respecting hierarchy, handling criticism, and networking. CO4 - Explain the difference between personal and professional ethics. CO5 - Analyze common ethical dilemmas in industry such as conflict of interest, confidentiality, and bribery. CO6 - Explain the concept of whistleblowing and basic principles of Corporate Social Responsibility (CSR).												
Mapping between COs and PSOs		PSO1	PSO2	PSO3	PSO4	PSO5	PSO6						
	CO1					✓							
	CO2					✓							
	CO3					✓							
	CO4					✓							
	CO5					✓							
	CO6					✓							

Course Content	Unit 1: Workplace Etiquette (Weightage: 50%) • Professional Behaviour: Punctuality, Dress code, Grooming • Communication Etiquette: Email etiquette, Telephone manners, Meeting etiquette (Virtual and Physical) • Interpersonal Skills: Respecting hierarchy, Handling criticism, Networking etiquette Unit 2: Corporate Ethics (Weightage: 50%) • Introduction to Ethics: Definition, Personal vs. Professional Ethics • Ethical Dilemmas: Common ethical issues in industry (Conflict of interest, Confidentiality, Bribery) • Whistleblowing: Concept and protection mechanisms • CSR: Corporate Social Responsibility basics
Reference Books	1. Business Ethics and Corporate Governance – A.C. Fernando, Latest Edition, Pearson India. 2. Professional Ethics and Human Values – R.S. Naagarazan, Latest Edition, New Age International. 3. Business Communication – Meenakshi Raman & Prakash Singh, Oxford University Press India. 4. Soft Skills – S.P. Dhanavel, Orient Blackswan. 5. Human Values and Professional Ethics – R.R. Gaur, Excel Books.
Teaching Methodology	Role-Play and Case-Discussion Based Learning
Evaluation Method	Theory Internal Assessment : 25 Marks External Assessment : 25 Marks

6th Semester End.....!