



LESSON PLAN (2021-22)

Name of Programme:

Master of Computer Applications (MCA)

Course Code:

MCA CT 104

Instructor(s):

Prof. Ashok Raj R
Prof. Jeena Sara Viju

Semester:

SEMESTER 1

Course Name:

Software Engineering and Object oriented modeling

Course Outcomes (4 -6 outcomes)

- CO 1 - Define software and it's characteristics - K1
- CO 2 - Gather software requirements - K2
- CO 3 - Relate different Software Development Life Cycle models - K2
- CO 4 - Interpret various software design strategies - K2
- CO 5 - Judge the suitable test strategies - K3
- CO 6 - Identify various UML diagrams needed for software development - K1

Unit / Module	Topics to be Covered	Session Objective	Duration (Hours)	Methodology	Teaching Aids/Tools	References
Module 1	Introduction to Software Engineering: Definition and characteristics of software, Broad categories of computer software, Software Myths.	Introduction to Software Engineering (CO 1 - K1)	4	Discussions	Google Class room, LCD Projector, Presentations, PDF materials	Software Engineering A Practitioner's Approach, Roger S Pressman, McGrawhill International Edition, Sixth Edition.
Module 1	The Software process: Software engineering layers, A process framework (five generic process framework and umbrella activities), Software product and software process. Process Models: Definition, Waterfall model, Evolutionary models (Prototyping and Spiral models.) Agile view of process: Agile process, Human factors in agile models, Agile Process models - (Extreme programming and Scrum).	Introduction and explanation on the Software process (CO 3 - K2)	6	Discussions	Google Class room, LCD Projector, Presentations, PDF materials	Software Engineering A Practitioner's Approach, Roger S Pressman, McGrawhill International Edition, Sixth Edition.
Module 2	Requirements engineering:- Requirements	Introduction and explanation on Requirements	4	Discussions	Google Class room, LCD Projector,	Software Engineering, K K Agarwal and Yogesh Singh, New age

	<p>engineering tasks, Initializing requirements engineering process, Types of requirements, Feasibility studies.</p> <p>Eliciting requirements:- Interviews, brain storming, FAST, QFD, Use case approach.</p>	Engineering process (CO 2 - K2)			Presentations, PDF materials	international, Third Edition
Module 2	<p>Requirement Analysis:- Steps in requirement analysis, DFD, Data Dictionary, ER diagrams, prototyping, Requirement documentation and review:- Nature of SRS, Characteristics of good SRS, Organization of an SRS-IEEE standard format for SRS(basics only), the requirements review process.</p>	Requirements analysis techniques and the use (CO 2 - K2)	6	Discussions	Google Classroom, LCD Projector, Presentations, PDF materials	Software Engineering, K K Agarwal and Yogesh Singh, New age international, Third Edition
Module 3	<p>Software Design: conceptual and technical design, design objectives, importance of design, Modularity (module coupling, module cohesion, relationship between coupling and cohesion)</p>	Introduction to Software design concepts (CO 4 - K2)	4	Discussions	Google Classroom, LCD Projector, Presentations, PDF materials	Software Engineering, K K Agarwal and Yogesh Singh, New age international, Third Edition
Module 3	<p>Strategy of design, Function oriented design, Object oriented design(steps to analyze and design object oriented systems.)</p>	Introduction to Software design strategy (CO 4 - K2)	5	Discussions	Google Classroom, LCD Projector, Presentations, PDF materials	Software Engineering, K K Agarwal and Yogesh Singh, New age international, Third Edition
Module 4	<p>Software Testing: strategic approach: verification and validation, criteria for completion of testing. Test strategies for conventional software:-unit testing, integration testing(Regression testing, smoke testing.), validation testing, system testing(recovery, security, stress, performance).</p>	Software Testing strategies (CO 5 - K3)	5	Discussions	Google Classroom, LCD Projector, Presentations, PDF materials	Software Engineering A Practitioner's Approach, Roger S Pressman, McGrawhill International Edition, Sixth Edition.
Module 4	<p>Testing Tactics:- Black box and White box testing, Blackbox-equivalence partitioning, White box-Basis path testing(flow graph notation, deriving test cases)</p>	Software Testing teactics (CO 5 - K3)	4	Discussions	Google Classroom, LCD Projector, Presentations, PDF materials	Software Engineering A Practitioner's Approach, Roger S Pressman, McGrawhill International Edition, Sixth Edition.
Module 5	<p>Object Oriented Modeling Use Case: Actors Scenarios & Use cases, drawing Use Case Diagrams, three common use case</p>	Introduciton to Object Oriented Modeling (CO 6 - K1)	5	Discussions	Google Classroom, LCD Projector, Presentations, PDF materials	Applying UML and Patterns, Craig Larman, Pearson, Third Edition

	formats, The system sequence diagram					
Module 5	UML Interaction diagrams :- sequence and communication diagrams, sequence vs communication diagram, Basic sequence diagram notation, Basic communication diagram notation. Class diagrams:- introduction, common class diagram notation. Activity Diagrams and Modeling: - Introduction, example, basic activity diagram notation.	Introduciton to UML Interaction diagrams (CO 6 - KI)	5	Discussions	Google Class room, LCD Projector, Presentations, PDF materials	Applying UML and Patterns, Craig Larman, Pearson, Third Edition

Suggestive Readings:

1. Software Engineering A Practitioner's Approach, Roger S Pressman, McGraw hill International Edition, Sixth Edition.[Unit 1 and 4]
2. Software Engineering, K K Agarwal and Yogesh Singh, New age international, Third Edition[Unit 2 and 3]
3. Applying UML and Patterns, Craig Larman, Pearson, Third Edition[Unit 5]
4. Object Oriented modeling and Design with UML, Michael Blaha, James Rumbaugh, Person, second edition.
5. Ian Somerville, Software Engineering VII th Edition Pearson Education
6. Pankaj Jalote, An Integrated approach to Software Engineering,Narosa Publishing Company, Second Edition.Pearson Education

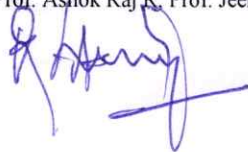
Assessment (Internal marks maximum of 25)

Class performance	: 5 Marks
Assignments	: 5 Marks
Viva / Seminar	: 5 Marks
Tests (Minimum 2 Tests)	: 10 Marks

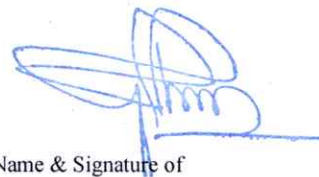
External examination will be conducted by the University for the maximum marks of 75

Name & Signature of
Instructor(s)

Prof. Ashok Raj R, Prof. Jeena Sara Viju



Name & Signature of
HoD



Head, Department of Computer Applications
Mar Athanasios College for Advanced Studies
(MACFAST)
Tiruvalla - 689 101
Kerala, India



LESSON PLAN (2021)

Name of Programme: Master of Business Administration Semester: I

Course Code: MB010101

Course Name: MANAGEMENT CONCEPTS AND ORGANISATIONAL BEHAVIOUR

Instructor: Ligo Koshy

Course Outcomes

- CO-1: Apply the concept of decision-making process in the changing business scenario (K3)
 CO-2: Explain the management's functions and its relevance in Organizational Perspective (K2)
 CO3: Analyze the different organization structures (K4)
 CO4: Explain the basics of learning, personality, perception, attitude and learning (K2)
 CO5: Analyze the motivation behind behavior of people in the organization (K4)
 CO6: Explain group dynamics and demonstrate skills required for working in groups (team building) (K2)

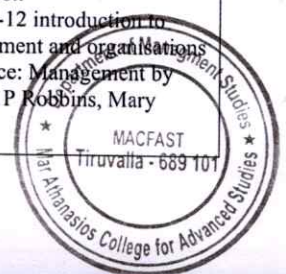
Module	Topics to be Covered	Session Objective	Duration Hours	Methodology	Teaching Aids/Tools	References
Module -1	MANAGEMENT AND DECISION MAKING 1.1 Changing Job of a Manager in the light of Technology & Digitization, Organisational & Managerial Ethics, Competitiveness, Security Threats – Managing Diversity 1.2 Role of Importance of Customers, Social Media, Innovation and Sustainability to Manager's Job	CO-1: Apply the concept of decision-making process in the changing business scenario (K3)	2hrs	Class room Discussions, Case study	PowerPoint Presentations, E-learning Materials, MCQ	Changes affecting a Manager's job Chapter-1 introduction to Management and organisations Reference: Management by Stephen P Robbins, Mary Coulter
	1.3 Decision Making Process – Decision Making Conditions of Certainty, Risk & Uncertainty	CO-1: Apply the concept of decision-making process in the changing business scenario (K3)	2hrs	Class room Discussions, Case study	PowerPoint Presentations, E-learning Materials, MCQ	Managers as decision makers Chapter-6 introduction to Management and organisations Reference: Management by Stephen P Robbins, Mary Coulter Assignment
	1.4 Decision Making Perspectives –	CO-1: Apply the concept of decision-making	2hrs	Class room Discussions	PowerPoint Presentations	Managers as decision makers Chapter-6 introduction to



	Rationality, Bounded Rationality, Intuition, Evidence Based Management 1.5 Effective Decision Making – Big Data & Decision Making	process in the changing business scenario (K3)		, Case study	, E-learning Materials, MCQ	Management and organisations Reference: Management by Stephen P Robbins, Mary Coulter
	2.1 Planning –Types of Plans – Goals and Plans – Management by Objectives (MBO) – Contemporary Issues in Planning	CO-2: Explain the management’s functions and its relevance in Organizational Perspective (K2)	2hrs	Class room Discussions , Case study	PowerPoint Presentations , E-learning Materials, MCQ	Foundations of Planning Chapter-7 introduction to Management and organisations Reference: Management by Stephen P Robbins, Mary Coulter
	2.2 Designing Organisational Structure – Departmentalisation Cross Functional Teams – Mechanistic & Organic Structures – Contingency Factors affecting Structural Choice – An Overview of Contemporary Organisational designs 2.3 Importance of HRM – HRM Process 2.4 Leadership – Contingency Theories of Leadership – Contemporary Views of Leadership	CO-2: Explain the management’s functions and its relevance in Organizational Perspective (K2) CO3: Analyse the different organization structures (K4)	2hrs	Class room Discussions , Case study	PowerPoint Presentations , E-learning Materials, MCQ	Organisational Structure and Design Chapte-9 introduction to Management and organisations Reference: Management by Stephen P Robbins, Mary Coulter Managers as Leaders Chapter-16 introduction to Management and organisations Reference: Management by Stephen P Robbins, Mary Coulter
	2.5 Controlling – Control Process – Tools for Measuring Organisational Performance – Contemporary Issues in Control	CO-2: Explain the management’s functions and its relevance in Organizational Perspective (K2)	2hrs	Class room Discussions , Case study	PowerPoint Presentations , E-learning Materials, MCQ	Introduction to controlling Chapter-17 introduction to Management and organisations Reference: Management by Stephen P Robbins, Mary Coulter
Module -3	3.1 Personality – MBTI – Big Five Model –Self-esteem – Self-monitoring – Proactiveness & Resilience 3.2 Attitudes & Its Components – Cognitive – Affective – Behavioural – Cognitive Dissonance Theory	CO4: Explain the basics of learning, personality, perception, Attitude and learning (K2)	2hrs	Class room Discussions , Case study	PowerPoint Presentations , E-learning Materials, MCQ	Understanding Individual Behaviour Chapter-13 introduction to Management and organisations Reference: Management by Stephen P Robbins, Mary Coulter



	3.3 Emotions & Emotional Intelligence – its Implications 3.4 Perception – Factors Influencing Perception	CO4: Explain the basics of learning, personality, perception, Attitude and learning (K2)	2hrs	Class room Discussions , Case study	PowerPoint Presentations , E-learning Materials, MCQ	Understanding Individual Behaviour Chapter-13 introduction to Management and organisations Reference: Management by Stephen P Robbins, Mary Coulter
	3.5 Learning – Operant Conditioning – Social Learning – Shaping as a Managerial Tool	CO4: Explain the basics of learning, personality, perception, Attitude and learning (K2)	2hrs	Class room Discussions , Case study	PowerPoint Presentations , E-learning Materials, MCQ	Understanding Individual Behaviour Chapter-13 introduction to Management and organisations Reference: Management by Stephen P Robbins, Mary Coulter
Module -4	4.1 Early Theories of Motivation –Needs Hierarchy Theory, Theory X and theory Y – Two Factor Theory – Three Needs Theory	CO5: Analyze the motivation behind behavior of people in the organization (K4)	2hrs	Class room Discussions , Case study	PowerPoint Presentations , E-learning Materials, MCQ	Motivating Employees Chapter-15 introduction to Management and organisations Reference: Management by Stephen P Robbins, Mary Coulter
	4.2 Contemporary Theories of Motivation – Reinforcement Theory – Expectancy Theory	CO5: Analyze the motivation behind behavior of people in the organization (K4)	2hrs	Class room Discussions , Case study	PowerPoint Presentations , E-learning Materials, MCQ	Motivating Employees Chapter-15 introduction to Management and organisations Reference: Management by Stephen P Robbins, Mary Coulter
	4.3 Current Issues in Motivation – Motivating in Challenging Economic Circumstances – Cross Cultural Motivational Challenges – Motivating Unique Group of Workers & Diverse Workforce	CO5: Analyze the motivation behind behavior of people in the organization (K4)	2hrs	Class room Discussions , Case study	PowerPoint Presentations , E-learning Materials, MCQ	Motivating Employees Chapter-15 introduction to Management and organisations Reference: Management by Stephen P Robbins, Mary Coulter
	4.4 Motivating Professionals – Motivating Low Skilled Employees					
Module -5	5.1 Group – Stages of Group Development – Group Dynamics 5.2 Work Teams – Types – Creating Effective Work Teams 5.3 Global Teams – Team Skills & Social Network	CO6: Explain group dynamics and demonstrate skills required for working in groups (team building) (K2)	2hrs			Managing Teams Chapter-11 introduction to Management and organisations Reference: Management by Stephen P Robbins, Mary Coulter
Module -5	5.4 Managing Change – Types of Change – Resistance to Change – Changing Organisational Culture –	CO6: Explain group dynamics and demonstrate skills required for working in groups (team building) (K2)	2hrs	Class room Discussions , Case study	PowerPoint Presentations , E-learning Materials, MCQ	Managing Change and Innovation Chapter-12 introduction to Management and organisations Reference: Management by Stephen P Robbins, Mary Coulter



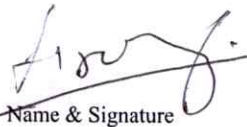
Module -5	Employee Stress 5.5 Creativity Vs Innovation – Stimulating & Nurturing Innovation – Managing Diversity – Types of Diversity	CO6: Explain group dynamics and demonstrate skills required for working in groups (team building) (K2)	2hrs	Class room Discussions , Case study	PowerPoint Presentations , E-learning Materials, MCQ	Managing Change and Innovation Chapter-12 introduction to Management and organisations Reference: Management by Stephen P Robbins, Mary Coulter
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Suggestive Readings:

1. Sephen P. Robbins, Mary Coulter – Management 13 th Edition – Pearson
2. Stoner J.A.F., Freeman R,E, Daniel R. Gilbert – Management – 6 th Edition – Pearson
3. Aswathappa K. – Essentials of Business Administration – Himalaya Publishing House
4. Harold Koontz, Heinz Wehrich – Essentials of Management – McGraw Hill
5. Tripathy P.C., Reddy P.N. – Principles of Management – Tata McGraw Hill


Assessment(Internal: 40 Marks, External examination by University: 60 marks)

Internal Test	: 20 marks
Assignments , Quiz and other components	: 10 marks
Class Participation, Punctuality and Regularity	:10 marks


Name & Signature

Instructor




Name & Signature
Sudeep B. Chandramana
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Tiruvalla - 689 101
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**LESSON PLAN (2021-22)****Name of Programme:**

Master of Computer Applications (MCA)

Course Code:

MCA CP 205

Instructor(s):

Prof. Ashok Raj R

Prof. Stephen James

Semester:

SEMESTER 2

Course Name:

Object oriented Lab (Java Lab)

Course Outcomes (4 -6 outcomes)

CO 1 - Experiment the implementation of various OOP concepts - K5

CO 2 – Writing programs to solve various problems using OOP Concepts - K6

CO 3 – Interpret various OOP concepts - K2

CO 4 – Organize Java programs into conceptual elements - K4

CO 5 – Outline java programs - K1

CO 6 – Compare various programming language constructs - K2

Unit / Module	Topics to be Covered	Session Objective	Duration (Hours)	Methodology	Teaching Aids/Tools	References
Module 1	Basics of Java: Programming concepts, Array implementation, Strings, Reading input from keyboard	Basic of Java language – an Introduction (CO 5 - K1)	8	Discussions, Laboratory and practical learning, e-learning, Problem-based learning	Smart Board, Projector, Google Classroom, Java Compiler, Notepad++, Eclipse	Object Oriented Programming With Java, E.Balagurusamy 5th Edition, McGraw-Hill Education
Module 1	Introduction to Object Oriented Programming concepts : Classes, Methods, Constructors, access specifiers, Encapsulation, Polymorphism, Method & constructor overloading, Inheritance and its different types, super keyword, abstraction through abstract classes.	OOP concepts an Introduction (CO 1 - K5)	9	Discussions, Laboratory and practical learning, e-learning, Problem-based learning	Smart Board, Projector, Google Classroom, Java Compiler, Notepad++, Eclipse	Object Oriented Programming With Java, E.Balagurusamy 5th Edition, McGraw-Hill Education
Module 2	Interfaces and Packages- Built in and user defined packages, access protection in packages	Demonstration on Interfaces and Packages (CO 6 - K2)	4	Discussions, Laboratory and practical learning, e-learning, Problem-based learning	Smart Board, Projector, Google Classroom, Java Compiler, Notepad++, Eclipse	Java The Complete Reference , Herbert Schildt 7th Edition. Tata McGraw-Hill Edition
Module 2	Exception handling- basic concepts, types of exception, user	Demonstration on exception handling (CO 2- K6)	4	Discussions, Laboratory and practical learning,	Smart Board, Projector, Google Class	Java The Complete Reference , Herbert Schildt 7th Edition. Tata

	defined exception			e-learning, Problem-based learning	room, Java Compiler, Notepad++, Eclipse	McGraw-Hill Edition
Module 2	Multi threading Programming - Defining threads, Life cycle, creating single and multiple threads, Thread priorities, Synchronization	Programming demonstration (CO 2 - K6)	4	Discussions, Laboratory and practical learning, e-learning, Problem-based learning	Smart Board, Projector, Google Class room, Java Compiler, Notepad++, Eclipse	Java The Complete Reference , Herbert Schildt 7th Edition. Tata McGraw-Hill Edition
Module 2	File handling - Built in methods, Reading , writing, copying and appending a file.	File hadnling introduction (CO 2 - K6)	4	Discussions, Laboratory and practical learning, e-learning, Problem-based learning	Smart Board, Projector, Google Class room, Java Compiler, Notepad++, Eclipse	Java The Complete Reference , Herbert Schildt 7th Edition. Tata McGraw-Hill Edition
Module 3	Applets - Basics, Life cycle, applet methods, applet tag, passing parameters to applet, adding image file to applet,	Web programming an dintroductio n (CO 3 - K2)	6	Discussions, Laboratory and practical learning, e-learning, Problem-based learning	Smart Board, Projector, Google Class room, Java Compiler, Notepad++, Eclipse	Java The Complete Reference , Herbert Schildt 7th Edition. Tata McGraw-Hill Edition
Module 3	Working with Graphics, AWT Controls and Text : Graphics programming, Color class, Font class, Font Metrics	Graphics programming (CO 2 - K6)	6	Discussions, Laboratory and practical learning, e-learning, Problem-based learning	Smart Board, Projector, Google Class room, Java Compiler, Notepad++, Eclipse	Java The Complete Reference , Herbert Schildt 7th Edition. Tata McGraw-Hill Edition
Module 3	Swings - Introduction, Hierarchy of classes, Controls with event handling	GUI programming (CO 4 - K4)	6	Discussions, Laboratory and practical learning, e-learning, Problem-based learning	Smart Board, Projector, Google Class room, Java Compiler, Notepad++, Eclipse	Java The Complete Reference , Herbert Schildt 7th Edition. Tata McGraw-Hill Edition
Module 4	Layout Managers ,Menus -Menu bars, sub menus, Dialog boxes, File Dialog	Demo on Layouts (CO 4 - K4)	6	Discussions, Laboratory and practical learning, e-learning, Problem-based learning	Smart Board, Projector, Google Class room, Java Compiler, Notepad++, Eclipse	Java The Complete Reference , Herbert Schildt 7th Edition. Tata McGraw-Hill Edition
Module 4	Database Connectivity - JDBC overview, JDBC implementation & its architecture, Establishing connectivity and working with connection interface, Working with statements, Creating and executing SQL statements, Working with Result Set	DB prgramming (CO 2 - K6)	5	Discussions, Laboratory and practical learning, e-learning, Problem-based learning	Smart Board, Projector, Google Class room, Java Compiler, Notepad++, Eclipse	Object Oriented Programming With Java, E.Balagurusamy 5th Edition, McGraw-Hill Education
Module 5	Networking-socket programming, TCP/IP, Datagram, Multicast	Network programming (CO 4- K4)	5	Discussions, Laboratory and practical learning, e-learning, Problem-based learning	Smart Board, Projector, Google Class room, Java Compiler, Notepad++, Eclipse	Java Networking Programming, Elliotte Rusty Harold, 4th Edition, O'REILLY
Module 5	Developing a GUI application	GUI appllucation development (CO 2 - K6)	5	Discussions, Laboratory and practical learning, e-learning,	Smart Board, Projector, Google Class room, Java	Java The Complete Reference , Herbert Schildt 7th Edition. Tata McGraw-Hill Edition

			Problem-based learning	Compiler, Notepad++, Eclipse	
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Suggestive Readings:

1. Java The Complete Reference , Herbert Schildt 7th Edition. Tata McGraw-Hill Edition
2. Object Oriented Programming With Java, E.Balagurusamy 5th Edition, McGraw-Hill Education
3. Core Java Volume Ii -Advanced Features, Cay S Horstmann and Gary Cornell,9th Edition,Pearson
4. Java Networking Programming, Elliotte Rusty Harold, 4th Edition,O'REILLY
5. Core Java For beginners, Rashmi Kanta Das, Revised Edition, Vikas Publishing House Pvt.Ltd
6. Programming with Java, Dr.T.V Suresh Kumar, Dr,B.Eswara Reddy, Raghavan P,First Edition Pearson
7. Introduction to Object Oriented Programming through Java, First Edition, ISRD Group, TataMcGraw Hill
8. A Text book on Object Oriented Design and Programming using Java, Divya B, Neena V.V and Akhil Paulose, First Edition
9. Online Resources : <https://www.oracle.com/in/java/technologies/javase-downloads.html>, <https://docs.oracle.com/javase/tutorial/>

Assessment (Internal marks maximum of 25)

Attendance and lab involvement : 5 Marks

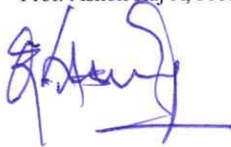
Regular class work /Lab record /Class Performance : 10 Marks

Lab Tests : 10 Marks

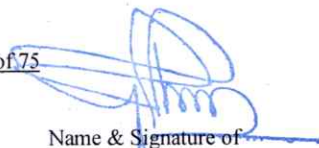
External examination will be conducted by the University for the maximum marks of 75

Name & Signature of
Instructor(s)

Prof. Ashok Raj R, Prof. Stephen James



Name & Signature of
HoD



Head, Department of Computer Applications
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MAR ATHANASIOS COLLEGE FOR ADVANCED STUDIES TIRUVALLA
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LESSON PLAN (MBA 21-23: JWALA)

Name of Programme: MBA

Semester: II

Course Code: MB010204

Course Name: OPERATIONS MANAGEMENT

Instructor : Dr. Neethu Ann Georgie

Course Outcomes

- CO1- To remember various concepts related to Operations Management(K1)
CO 2- To understand various concepts and theories related to Operations Management (K2)
CO 3- To understand operations strategies adopted by global firms (K2)
CO 4- To analyze concepts and practices followed in manufacturing firms (K4)
CO5- To analyze operations strategy of Service/ manufacturing sector.(K4)
CO 6- To evaluate and design various facility layouts adopted by manufacturing & service sectors (K5 & K6)

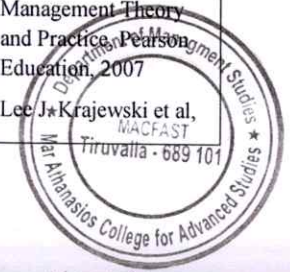
Unit / Module	Topics to be Covered	Session Objective	Duration (Hours)- 41 Hours	Methodology	Teaching Aids/Tools	References
Module 1	Module 1 Operations Management: Introduction and overview Operations Management in manufacturing sector, Non-Manufacturing operations	CO1- To remember various concepts related to Operations Management(K1) CO 2- To understand various concepts and theories related to Operations Management (K2)	1-3	Case Study [wrt CCD] Class room dialogues / discussion/interaction. MCQ in Google class room	Digital Presentation E-Learning Materials	Mahadevan B, Operations Management Theory and Practice, Pearson Education, 2007 Lee J. Krajewski et al, Operations Management, Process and Supply chains. 11th Edition Pearson India Education Services Ltd. India.
Module 1	Elements of Operations Strategy Operations Strategy as a Competitive Weapon	CO1- To remember various concepts related to Operations Management(K1) CO 3- To understand operations strategies adopted by global firms (K2) CO5- To analyze operations strategy of Service/ manufacturing sector.(K4)	4-7	Class room dialogues / discussion/interaction. Review of successful operations strategy of selected companies Analyzing the Operation Strategy wrt to Spice Jet Discussion on Case regarding Akshaya Patra: The Nationwide mid day meal scheme Assignments/Term Project	Digital Presentation E-Learning Materials	Mahadevan B, Operations Management Theory and Practice, Pearson Education, 2007 Lee J. Krajewski et al, Operations Management, Process and Supply chains. 11th Edition Pearson India Education Services Ltd. India



				Module – wise Reviews		
Module 2	Module 2 Product Strategy and integrated product development. Process Strategy Capacity Planning Decisions Facilities Location Strategies. Systems: Aggregate planning and Master Scheduling,	CO1- To remember various concepts related to Operations Management(K1) CO 2- To understand various concepts and theories related to Operations Management (K2)	8-11	Class room dialogues / discussion/interaction. Identification of appropriate layout for different situations	Digital Presentation E-Learning Materials	Mahadevan B, Operations Management Theory and Practice, Pearson Education, 2007 Aswathappa K and ShridharaBhat K, Production and Operations Management, Himalaya Publishing House, Revised Second Edition, 2008 Lee J. Krajewski et al, Operations Management, Process and Supply chains. 11th Edition Pearson India Education Services Ltd. India
Module 2	MRP, CRP, Facilities Layout and Material Handling Strategy Group Technology, Flexible manufacturing system	CO1- To remember various concepts related to Operations Management(K1) CO3- To understand various concepts and theories related to Operations Management (K2) CO 6- To evaluate and design various facility layouts adopted by manufacturing & service sectors (K5 & K6)	12-15	Class room dialogues / discussion/interaction Video insight wrt facility layout Assignments/Term Project Module – wise Reviews	Digital Presentation E-Learning Materials	Mahadevan B, Operations Management Theory and Practice, Pearson Education, 2007 Aswathappa K and ShridharaBhat K, Production and Operations Management, Himalaya Publishing House, Revised Second Edition, 2008
Module 3	Module 3 Materials Requirement Planning. Manufacturing Resource Planning Production Planning & Control	CO1- To remember various concepts related to Operations Management(K1) CO 2- To understand various concepts and theories related to Operations Management (K2)	16-19	Class room dialogues / discussion/interaction. Assignments/Term Project	Digital Presentation E-Learning Materials	Mahadevan B, Operations Management Theory and Practice, Pearson Education, 2007 Aswathappa K and ShridharaBhat K, Production and Operations Management, Himalaya Publishing House, Revised Second Edition, 2008 Lee J. Krajewski et al, Operations Management, Process and Supply chains. 11th Edition Pearson India Education Services Ltd. India
Module 3	Materials Management using ERP tool Vendor selection criteria and vendor retention. Managing materials in JIT(Just In Time) Manufacturing	CO1- To remember various concepts related to Operations Management(K1) CO 2- To understand various	20-24	Class Discussion Discussion on JIT and JIT practices by Toyota MCQ in Google class room	Digital Presentation E-Learning Materials	Mahadevan B, Operations Management Theory and Practice, Pearson Education, 2007 Lee J. Krajewski et al,



		concepts and theories related to Operations Management (K2)				Operations Management, Process and Supply chains. 11th Edition Pearson India Education Services Ltd. India
Module 4	Module 4 Lean Supply chain management concepts Make the vendors lean Rules for lean cell design	CO1- To remember various concepts related to Operations Management(K1) C04-To analyze concepts and practices followed in manufacturing firms (K2)	25-29	Class Discussion & presentations from students	Digital Presentation E-Learning Materials	Mahadevan B, Operations Management Theory and Practice, Pearson Education, 2007 Lee J. Krajewski et al, Operations Management, Process and Supply chains. 11th Edition Pearson India Education Services Ltd. India
Module 4	Lean concepts: Push & Pull system, 5S, Total Preventive Maintenance(TPM), Kanban System. DSS for Operations Management	CO1- To remember various concepts related to Operations Management(K1) C04-To analyze concepts and practices followed in manufacturing firms (K4)	30-32	Class Discussion Seminar and Presentation MCQ in Google class room	Digital Presentation E-Learning Materials	Mahadevan B, Operations Management Theory and Practice, Pearson Education, 2007 Lee J. Krajewski et al, Operations Management, Process and Supply chains. 11th Edition Pearson India Education Services Ltd. India John Nicholas, Lean Production for Competitive Advantage : A Comprehensive Guide to Lean Methodologies and Management Practices, 1 st Edition, Productivity Press
Module 4	MIS and Operations Management	CO1- To remember various concepts related to Operations Management(K1) C04-To analyze concepts and practices followed in manufacturing firms (K4)	33	Class Discussion & case study Assignments/Term Project Module – wise Reviews	Digital Presentation E-Learning Materials	Mahadevan B, Operations Management Theory and Practice, Pearson Education, 2007 Lee J. Krajewski et al, Operations Management, Process and Supply chains. 11th Edition Pearson India Education Services Ltd. India John Nicholas, Lean Production for Competitive Advantage : A Comprehensive Guide to Lean Methodologies and Management Practices, 1 st Edition, Productivity Press
Module 5	Module 5 Concept of Lean Production, Value added and waste elimination - Types of waste – Lean principles – basic lean tools overview, Statistical quality control – Integrated quality	CO1- To remember various concepts related to Operations Management(K1) C04-To analyze	34-37	Class Discussion Case: Application of lean management in Healthcare MCQ in Google class room	Digital Presentation E-Learning Materials	Mahadevan B, Operations Management Theory and Practice, Pearson Education, 2007 Lee J. Krajewski et al, Operations Management, Process and Supply chains. 11th Edition Pearson India Education Services Ltd. India



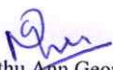
	control Seven Tools of Quality	concepts and practices followed in manufacturing firms (K4)				Operations Management, Process and Supply chains. 11th Edition Pearson India Education Services Ltd. India John Nicholas, Lean Production for Competitive Advantage : A Comprehensive Guide to Lean Methodologies and Management Practices, 1 st Edition , Productivity Press
Module 5	Toyota Production System Zero Waste Management concept Six Sigma in Quality Management	CO1- To remember various concepts related to Operations Management(K1) C04-To analyze concepts and practices followed in manufacturing firms (K4)	38-40	Class Discussion & Seminar and presentation Assignments/Term Project Module – wise Reviews	Digital Presentation E-Learning Materials	Mahadevan B, Operations Management Theory and Practice, Pearson Education, 2007 Lee J. Krajewski et al, Operations Management, Process and Supply chains. 11th Edition Pearson India Education Services Ltd. India John Nicholas, Lean Production for Competitive Advantage : A Comprehensive Guide to Lean Methodologies and Management Practices, 1 st Edition , Productivity Press
	Discussion on probable Examination Questions		41			

Suggestive Readings:

1. Mahadevan B, Operations Management Theory and Practice, Pearson Education, 2007
2. Aggarwal L.N, ParagDiwan (1997), Management of Production Systems, Global Business Press
3. Aswathappa K and ShridharaBhat K, Production and Operations Management, Himalaya Publishing House, Revised Second Edition, 2008.
4. Lee J. Krajewski et al, Operations Management, Process and Supply chains. 11th Edition Pearson India Education Services Ltd. India.

Assessment (Internal: 40 Marks, External examination by University: 60 marks)

Internal Test	: 20 marks
Assignments , Quiz and other components	: 10 marks
Class Participation, Punctuality and Regularity	:10 marks


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