



Structure for M.Sc. IT – CBCS Programme

Semester-I

COURSE NO.	COURSE TYPE	SUBJECT	CREDIT
M.Sc.IT 101	CORE	Enterprise Data Management & ERP	06
M.Sc.IT 102	CORE	Advance Java Programming	06
M.Sc.IT 103	CORE	Web Technology Tools	06
M.Sc.IT 104	CORE	Practical Based On 102 and 103	12
TOTAL			30

Internal Continuous Evaluation:

1. There will be Internal Continuous Evaluation in Theory papers of Core Course.
2. There will be 30 marks for Assignments in Course No: M.Sc.IT-101, M.Sc.IT -102, M.Sc.IT -103



M.Sc IT Course: Enterprise Data Management & ERP Course No: M.Sc IT-101			
Semester: 01 Type of Course : Core Course			
Marking Scheme: External Examination: 70 + Internal Examination: 30 = 100			
Credits: 06 Teaching Hours Per Week: 06			
Unit	Detailed Syllabus	Teaching Hours	Marks/Weight
Unit-1	Introduction to ERP	18	14
	<ul style="list-style-type: none">• Enterprise: introduction, business modeling, integrated data model, integrated management information.• Enterprise Resource Planning (ERP): introduction, history, Basic concept of ERP. Risks (All type of risks in brief).		
Unit-2	ERP & Related Technologies	18	14
	<ul style="list-style-type: none">• Benefits of ERP, Business Process Reengineering (BPR).• Data Warehousing, Data Mining and Online Analytical Processing (OLAP).• Product Life Cycle Management (PLM).• Supply Chain Management (SCM).• Customer Relationship Management (CRM).		
Unit-3	ERP Manufacturing Perspective	18	14
	<ul style="list-style-type: none">• MRP- Material Requirement Planning.• BOM- Bill Of Material.• MRP – Manufacturing Resource Planning.• DRP- Distributed Requirement Planning.• PDM- Product Data Management.• ERP Products and Modules• Introduction to ERP Products and modules• Finance, Plant Maintenance, Quality Management, Materials Management.		
Unit-4	ERP- Selection and Implementation	18	14
	<ul style="list-style-type: none">• ERP Package Selection ,ERP Implementation life Cycle• Introduction, Objective, Phase of implementation.• Why do ERP implementation Fail?		
Unit-5	ERP- Operation, Maintenance & Evaluation	18	14
	<ul style="list-style-type: none">• Operation of the ERP system.• ERP Maintenance Phase.• Measuring performance of ERP.• Functional modules of ERP software.		
Reference Books			
<ol style="list-style-type: none">1. Enterprise Resource Planning – Alexis Leion - McGraw Hill Education (India)2. Enterprise Resource Planning : Concepts & Practice – Garg, Vinodkumar, Venkitakrashnan – PHI Learning (Eastern Economy Edition)			



M.Sc IT		Course: Advanced Java Programming	Course No: M.Sc IT-102	
Semester: 01		Type of Course : Core Course		
Marking Scheme: External Examination: 70 + Internal Examination: 30 = 100				
Credits: 06		Teaching Hours Per Week: 06		
Unit	Detailed Syllabus	Teaching Hours	Marks/Weight	
Unit-1	Active Window Toolkit	18	14	
	<ul style="list-style-type: none">• Fundamental of Window ,Frame Windows• Frame Window in AWT• Graphics, color, Font Metrics• Controls – Labels, Button, Check Box, Scroll bar, Text area and TextField			
Unit-2	Multithreading and Applet Programming	18	14	
	<ul style="list-style-type: none">• Threading-Main Thread, Creation, isAlive(),join(),sleep(),Synchronization• Life cycle of Applet , Passing Parameters to Applet• Event Delegation Model or Technique• Event Classes			
Unit-3	Swing	18	14	
	<ul style="list-style-type: none">• Introduction, Features of Swing, Difference between AWT and Swing• JApplet• JFrame and JPanel• Layout Managers: FlowLayout, SpringLayout, BoxLayout			
Unit-4	Swing Components	18	14	
	<ul style="list-style-type: none">• JLabel, JButton, JTextField• JCheckBox, JRadioButton• JComboBox, JList• JMenu, JDialog			
Unit-5	JDBC Connectivity using MS-Access	18	14	
	<ul style="list-style-type: none">• JDBC Architecture• Steps Of Database Connectivity and Database operation: insert,update,delete• Statement and ResultSet object• Display Records using JTable component			
Reference Books				
1. The Complete Reference Java By Herbert Schildt Publisher: TMH				
2. Programming in Java By Sachin Malhotra & Saurabh Choudhary Publisher:OXFORD University Press				
3. PROGRAMMING WITH JAVA A PRIMER By E-Balaguruswami				



M.Sc IT		Course: Web Technology & Tools		Course No: M.Sc IT-103	
Semester: 01		Type of Course : Core Course			
Marking Scheme: External Examination: 70 + Internal Examination: 30 = 100					
Credits: 06		Teaching Hours Per Week: 06			
Unit	Detailed Syllabus	Teaching Hours	Marks/Weight		
Unit-1	Basics of CSS -1	18	14		
	<ul style="list-style-type: none">• What is CSS?, Advantages of CSS, CSS Structure and Syntax.• Types of CSS: Internal, External, Inline.• CSS Color, Background and Border.• CSS Margin, Padding , height and Width.				
Unit-2	Basics of CSS-2	18	14		
	<ul style="list-style-type: none">• CSS Text, Fonts. CSS Icons and Links.• CSS List and Tables.• CSS Pseudo class and CSS Pseudo Elements.				
Unit-3	Introduction to JQuery	18	14		
	<ul style="list-style-type: none">• What is Jquery?, Use of Jquery in Web Designing, Adding Jquery in your page.• Jquery Syntax, Events in Jquery• JQuery Functions:hide(), show(), toggle(),fadeIn(), fadeOut(), fadeToggle(), fadeTo().• JQuery Sliding Method: slideDown(), slideUp(), slideToggle(),animate(), Stop().• Add Element, Remove Element, Add Class and Remove Class.				
Unit-4	Introduction to Bootstrap	18	14		
	<ul style="list-style-type: none">• What is Bootstrap, History of Bootstrap, Benefits of Bootstrap, how to add Bootstrap in to the page.• Bootstrap properties for Text/Typography• <h1>...<h6>, <small>, <mark>, <kbd>, <code>,<dl>, <abbr> .• Bootstrap for Table , Bootstrap for Image• Bootstrap for Alerts,				
Unit-5	Bootstrap 2	18	14		
	<ul style="list-style-type: none">• Bootstrap Buttons, Bootstrap Buttons Group.• Bootstrap Glyphicons, Bootstrap Progress bar.• Bootstrap Pagination, Pager.• Bootstrap Form.				
Reference Books					
1. Mastering HTML, CSS & JavaScript Web Publishing by Laura, Rafe & Jennifer, BPB Publication					
2. Bootstrap – by Jake Spurlock, O'Reilly Publication					
3. www.w3schools.com					



MAHARAJA KRISHNAKUMARSINHJI BHAVNAGAR UNIVERSITY
NAAC Accreditation Grade "B"
(With effect from Academic Year: 2018-19)

M.Sc IT	Course: Practical Based on 102 and 103	Course No: M.Sc IT-104	
Semester: 01	Type of Course : Core Course		
Marking Scheme: External Examination: 100			
Credits: 12		Teaching Hours Per Week: 12	
	Detailed Syllabus	Teaching Hours	Marks/Weight
1	Paper 102: Advance Java Programming	90	50
2	Paper 103: Web Technology Tools	90	50