



BACHELOR OF SCIENCE -INFORMATION TECHNOLOGY (B.Sc. IT)

Semester-I (FY)

COURSE NO.	SUBJECT CODE	COURSE TYPE	SUBJECT	CREDIT
EC-101	22647	ELECTIVE	Environmental Science - I	2
FC-102	22648	FOUNDATION	Business Communication - I	2
CC-103	22649	CORE	Fundamental of IT	4
CC-104	22650	CORE	Introduction of C Language	4
CC-105	22651	CORE	Open Office	4
CC-106	22652	CORE	Computer Oriented Mathematics	4
CC-107	22653	CORE	Practical	4
TOTAL				24



MAHARAJA KRISHNAKUMARSINHJI BHAVNAGAR UNIVERSITY
(With effect from Academic Year: 2020-2021)

B.Sc.(IT)	Course: Environmental Science - I	Course No: EC-101
Semester: 01	Type of Course: ELECTIVE	
Marking Scheme: External Examination: 70 + Internal Evaluation: 30 = 100 Marks		
Credits: 02	Theory Sessions per Week: 02	

Unit	Detailed Syllabus	Teaching Hours	Marks/Weight
Unit-1	Natural resources	8	18
	Natural resources Introduction Types of natural resources Renewable and b. non renewable resources Natural resources and associated problems. Renewable resources -1 : Forest Forest types in India Deforestation Forest functions Threats to the forest in India Renewable resources-2: Water Over-utilization and pollution of surface and Underground water. Effect of Global climate change on water Management. Water for agriculture and power generation. Sustainable water management.		
Unit-2	Renewable resources- 3: Energy	8	18
	Hydroelectric power, Solar energy Biomass energy Wind power Tidal and wave power Nuclear power Energy conservation		
Unit-3	Ecosystem	7	17
	Producers consumers and decomposers Food chain food webs and ecological pyramids Forest ecosystem Desert ecosystem Aquatic ecosystem Fresh water and Marine ecosystem		
Unit-4	Biodiversity	7	17
	Value of biodiversity Consumptive use value Productive use value Social value Ethical and moral values Aesthetic value Option value India as a mega diversity nation Threats to biodiversity		

Reference Books:

1. Paryavaran Adhyayan – University Grants Commission Oriental longman private limited.



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(With effect from Academic Year: 2020-2021)

B.Sc. (I.T.) Course		Business Communication-I	Course No: CC-102
Semester: 01		Type of Course: Foundation Course	
Marking Scheme: External Examination: 70 + Internal Evaluation: 30 = 100 Marks			
Credits: 02		Theory Hours: 30	
Unit	Detailed Syllabus	Teaching Hours	Marks/Weight
Unit-1	Barriers of communication	8	18
	- What is communication? - Physical barriers - Language or semantic barriers - Socio-psychological barriers and how to over barriers.		
Unit-2	Improve business english & grammar.	8	18
	- Use of Internet Chapter 1 only from 50 Ways to Improve Business English Using the Internet - Introduction of email. - Introduction of Verb Forms - Introduction of Modal Auxiliary Verbs		
Unit-3	Parts of Speech	7	17
	- Jupp and Milne Grammar Book Chapter 1 only		
Unit-4	Tenses and Vocabulary	7	17
	- Introduction of Tenses Giving Personal Information. - Antonyms - Synonyms - Prefix, suffix - one word substitute		
Reference Books			
1. Jupp, and Milne, 'English Sentence Structure', ELBS, 1984. 2. Business Communication. By Sathya Swaroop Debasish & Bhagaban Das. PHI Learning Private Limited. Delhi. 110092. 3. Business Communication" Rai & Rai, Himaliya Publishibg House, Mumbai 4. Bond Ruskin, 'Treasury of Stories for Children', Puffin Books, New Delhi, 2001 5. Bacon, Francis, 'English Essayists', (Ed)Sinha, Susanta, OUP, 1987 6. "Communication" By C.S. Rayudu. Himaliya Publishing House. 7. Green, David, 'Contemporary English Grammar Structures and Composition', Mac Millan, 1971			



MAHARAJA KRISHNAKUMARSINHJI BHAVNAGAR UNIVERSITY
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B.Sc.(IT)		Course:- Fundamental of IT	Course No: CC-103	
Semester: 01		Type of Course: Core Course		
Marking Scheme: External Examination: 70 + Internal Evaluation: 30 = 100 Marks				
Credits: 04		Theory Sessions per Week: 04		
Unit	Detailed Syllabus	Teaching Hours	Marks/Weight	
Unit-1	Introduction to computers	16	18	
	Definition of computer Block Diagram of computer Characteristics of computer Generation of computer Digital computer, mini, micro, mainframe, super Hybrid compute, Data representation & Number system.			
Unit-2	Computer Peripherals and Concepts in information & Processing	16	18	
	Input Devices: Keyboard, Mouse, Joystick, Track ball, Touch Screen, OCR, OMR, MICR & OBR, Light pen, Scanner, Output Devices (All): Visual Display Unit (VDU), LCD, Plasma, Printers: Impact, Non Impact, Plotter, Storage Devices & Type of Memory: RAM,ROM, PROM, EPROM, EEPROM, cache memory, CDs, DVD, BRD, Pen Drive An overview of information technology applications, Difference between Data & Information, Information system, Value of Information, Quality of Information Software Concepts: Types of Software, Programming Languages, Software (Its Nature & Qualities), Programming Languages.			
Unit-3	Internet technology & World wide web	14	17	
	Introduction to Web, Internet requirement, Internet – A global Network, Host & Terminals, TCP/IP, Common protocols used in Internet, World wide web, Web browsers, Internet addresses, Domain names, Basic concepts of HTML, Web Search engines Electronic Mail			
Unit-4	Overview Computer Language & OS	14	17	
	What is machine level language, What is assembly level language, What is high level language. (Note: there is no any comparison in between these language) (Just) Definition of Assembler, compiler & interpreter Operating Systems: History & Evolution, A Brief History of Linux, A Brief History of MSDOS, A Brief History of Windows System			
Reference Books:				
1. Computer Fundamentals-P.K. Sinha				
2. Fundamentals Of Computers, 3rd Edition -V. Rajaraman				



MAHARAJA KRISHNAKUMARSINHJI BHAVNAGAR UNIVERSITY
(With effect from Academic Year: 2020-2021)

B.Sc.(IT) Course: Introduction of C Language Course No: CC-104			
Semester: 01 Type of Course: Core Course			
Marking Scheme: External Examination: 70 + Internal Evaluation: 30 = 100 Marks			
Credits: 04 Theory Sessions per Week: 04			
Unit	Detailed Syllabus	Teaching Hours	Marks/Weight
Unit-1	Programming Language Fundamentals	16	18
	Flowchart and Algorithm Introduction to programming language and types of programming language Concept of Editor, Compiler, Interpreter, Translator, Assembler Getting started with C:History, Structure of C program, Compilations & linking C program Character Set, Keywords, Identifier, Data Type, Variable and Constant		
Unit-2	Programming Constructs	16	18
	Formatted Input and output statements Operators Decision making and Branching (If, if-else, switch etc) Looping construct (While loop, Do..While loop, For loop etc) Break, Continue, go to and exit		
Unit-3	Array ,sorting searching technique and Character, String Handling	14	17
	Introduction of array Declaration and initialization of 1-D and 2-D arrays Programming using 1-D and 2-D Array Sorting method(selection, bubble), Searching method (linear, Binary) Declaration and initialization of string and character data Character and string operation		
Unit-4	Functions	14	17
	Concept of modular programming Elements of function, Type of Function Declaration, Calling, and Defining a function. Passing Array and string as function argument Built-in Function: math's, input output function etc Character and String handling Function		
Reference Books			
1. Programming in ANSI 'C' – Balaguruswamy: TMH. 2. Let Us C By Yasvant Kanitkar 3. Mulish Cooper : The Spirit of C, Jaico Pub. House, 19th Edition-1999			



MAHARAJA KRISHNAKUMARSINHJI BHAVNAGAR UNIVERSITY
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B.Sc.(IT)		Course: Open Office	Course No: CC-105	
Semester: 01		Type of Course: Core Course		
Marking Scheme: External Examination: 70 + Internal Evaluation: 30 = 100 Marks				
Credits: 04		Theory Sessions per Week: 04		
Unit	Detailed Syllabus	Teaching Hours	Marks/Weight	
Unit-1	Introduction	16	18	
	Introduction to personal computers : Characteristics of computer, Types of computer Overview of Basic Operation System : Introduction of Dos and Windows operating system Introduction to editors : DOS – Internal and External Commands Windows Environment : Desk top, file, folders, icons, Window explorer, control panel, Windows Accessories			
Unit-2	Word Processing Package	16	18	
	Introduction to word processing, Examples of some popular WP packages. Uses of word processors, Word Processor – Examples – Uses of WP Creation, editing, formatting of Documents. Global Search & Replacement of text. Special printing features, Mail merge Facilities, Spelling checker, Table facility, Templates, advanced features. Inserting Pictures, Drawing and Equation, Macros.			
Unit-3	Spreadsheet Package	14	17	
	Introduction to Spreadsheet Examples of some popular Spreadsheet packages. User of spreadsheet packages. Building Spreadsheet using formulas, conditional calculations, and built-in functions. Use of Conditional Formatting through formula or in-built function Writing macros and spreadsheet menus to build a user-interface Graph-plotting facilities, Use externally created data lies in the spreadsheet packages. What-if analysis, protection facility, Pivot Tables, Operation on tables. Macros with its all options (Creating, running and Saving in the worksheet(s) with Data with spreadsheets) Application of Spreadsheets			
Unit-4	Presentation Package	14	17	
	Preparing presentation, Formatting Slides. Slide transition, adding special effects Inserting Pictures, Sound and Chart. Slide Design Animation in Slide			
Reference Books				
1. A conceptual guide to open office.org 3 R. Gabriel Gurely				



MAHARAJA KRISHNAKUMARSINHJI BHAVNAGAR UNIVERSITY
(With effect from Academic Year: 2020-2021)

B.Sc.(IT) Course: Computer Oriented Mathematics Course No: CC-106			
Semester: 01 Type of Course: Core Course			
Marking Scheme: External Examination: 70 + Internal Evaluation: 30 = 100 Marks			
Credits: 04 Theory Sessions per Week: 04			
Unit	Detailed Syllabus	Teaching Hours	Marks/Weight
Unit-1	Set and function	16	18
	SET THEORY Introduction to set theory Basic definition Methods of representation of a set Operations on set (union, intersection, complement of set, difference of sets, symmetric difference, Cartesian product of sets) Properties of set operation (cumulative, associative, distributive, De Morgan's law) FUNCTION Definition, Domain, co-domain, range, one-to-one function, onto function, Composite function and inverse of a function.		
Unit-2	Vector and Matrices	16	18
	Vector Definition of Vector Addition and Subtraction of Vectors Magnitude of a Vector, Unit Vectors, Dot Product and Cross Product. Matrices Definition of a Matrix, Equal matrices, Diagonal element of a matrix, Row matrix, Column Matrix, Symmetric Matrix, Skew-Symmetric Matrix, Orthogonal Matrix, Diagonal Matrix, Identity Matrix. Operation on a Matrix (Addition, Subtraction and Multiplication) Inverse of a Matrix, Rank of a Matrix, Solution of Linear Equations using Matrices		
Unit-3	Permutation, Combination, Sequence and Series	14	17
	Permutation Meaning of permutation, Formula of permutation, Permutation of n -different things, Permutation of similar things, Permutation of repeated things, Circular Permutation Combination Meaning of Combination, Formula of Combination Algorithm: Set Operations. Vector Addition, Subtraction and Dot Product. Sequence and Series Arithmetic Progression, Formula for Sum to n Terms of an A.P. Geometric Progression, Sum to n Terms of a G.P. Arithmetic – Geometric Progression (A.G.P.), Harmonic Progression (H.P.) Sum of First n Natural Numbers, Their Squares and Cubes Sum to n Terms of a G.P.		



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	Arithmetic – Geometric Progression (A.G.P.) Harmonic Progression (H.P.) Sum of First n Natural Numbers, Their Squares and Cubes		
Unit-4	Graph Theory	14	17
	Introduction to Graph, Vertices, Edges, Loops, Parallel Edges, Simple Graph, Finite Graph, Adjacent vertices, Incidence between vertex and edge, Degree of a vertex, Isolated Vertex, Pendent Vertex, Null Graph. Isomorphism, Labeled Graph, Unlabeled Graph. Walk, Closed Walk, Open Walk, Simple Path, Circuit, Connected Graph, Operation on Graph (Union, Intersection and Complement). Tree Definition, Rooted Tree, Binary tree and its properties, Uses of Binary Tree, Level of a tree. Matrix Representation of a Tree (Incidence Matrix and Adjacency Matrix).		
Reference Books:			
1. D. C. Sancheti, V. K. Kapoor: Business Mathematics, Sultan Chand & sons. 2. Lipschutz & Marc Lipson: DISCRETE MATHEMATICS, Tata Mcgraw Hill 3. Narsingh Deo: Graph Theory with application to engineering and computer science, Prentice Hall of India Pvt. Ltd			



MAHARAJA KRISHNAKUMARSINHJI BHAVNAGAR UNIVERSITY
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B.Sc.(IT) Course: Practical Course No: CC-107		
Semester: 01 Type of Course: Core Course		
Marking Scheme: External Examination: 100 + Internal Examination: 00 = 100 Marks		
Credits: 04 Practical Sessions per Week: 08		
Unit	Detailed Syllabus	Marks/ Weight
Unit-1	Practical Problem from CC-104	50
Unit-2	Practical Problem from CC-105	50



BACHELOR OF SCIENCE - INFORMATION TECHNOLOGY (B.Sc.(IT))

Semester-II (FY)

COURSE NO.	SUBJECT CODE	COURSE TYPE	SUBJECT	CREDIT
EC-201	22654	ELECTIVE	Environmental Science - II	02
FC-202	22655	FOUNDATION	Business Communication- II	02
CC-203	22656	CORE	Principles of Digital Electronics	04
CC-204	22657	CORE	Advanced C Programming	04
CC-205	22658	CORE	Internet and Web Technology	04
CC-206	22659	CORE	Network Management & Information Security	04
CC-207	22660	CORE	Practical	04
TOTAL				24



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B.Sc.(IT)		Course: Environmental Science – II	Course No: EC-201
Semester: 02		Type of Course: ELECTIVE	
Marking Scheme: External Examination: 70 + Internal Evaluation: 30 = 100 Marks			
Credits: 02		Theory Sessions per Week: 02	
Unit	Detailed Syllabus	Teaching Hours	Marks/Weight
Unit-1	Climate change	8	18
	Global warming Case study of global warming Acid rain Case study of Acid rain Ozone layer depletion Case study of Ozone layer depletion		
Unit-2	Pollution	8	18
	Air pollution Water pollution Noise pollution Pollution case study Minamata disease Ground water pollution in India Pesticides pollution in India River pollution in India.		
Unit-3	Disaster management	7	17
	Floods, Earthquake, Cyclones & Landslide Social issues and the environment : Unsustainable to sustainable development Water conservation Rain water harvesting Water shed management The air (prevention and control of pollution) Act The water (prevention and control of pollution) Act The wildlife (protection) Act Using an environmental calendar of activities		
Unit-4	Population Growth and the Environment	7	17
	Population growth variation among nation Population explosion : family welfare program me Methods of sterilization Urbanization , Urban poverty and environment Environment and human health Bhopal gas incident, Climate and health Infectious disease, Globalization and Infectious disease Water born disease, Water scarcity diseases Diarrhea, Cancer and the environment		
Reference Books:			
1. Paryavaran Adhyayan – University Grants Commission Oriental longman private limited.			



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B.Sc. (I.T.) Course: Business Communication-II Course No: CC-202
Semester: 02 Type of Course: Foundation Course
Marking Scheme: External Examination: 70 + Internal Evaluation: 30 = 100 Marks
Credits: 02 Theory Hours: 30

Unit	Detailed Syllabus	Teaching Hours	Marks/Weight
Unit-1	Public Speaking	8	18
	- Definition - Components of Speech - Presentation Methods, Audience Analysis - Advantages & Disadvantages of Effective public speaking		
Unit-2	Professionalism.	8	18
	- Personal and Food Etiquette - Professions and occupations.		
Unit-3	Grammar	7	17
	- Active Passive Voice - Direct-Indirect Speech - Word Building		
Unit-4	Study of Poetry	7	17
	- Beauty – John Masfield - Old Familiar Faces – Charles Lamb - To the Cuckoo – William Wordsworth. - (Short notes 2/3 each in 500 words approximately)		

Reference Books

1. Jupp, and Milne, 'English Sentence Structure', ELBS, 1984.
2. Poem "Beauty" written by John Masfield.
3. The Old Familiar Faces BY CHARLES LAMB
4. To the Cuckoo by William Wordsworth
5. Bond Ruskin, 'Treasury of Stories for Children', Puffin Books, New Delhi, 2001
6. Green, David, 'Contemporary English Grammar Structures and Composition', Mac Millan, 1971



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B.Sc.(IT) Course: Principal of Digital Electronics Course No: CC-203			
Semester: 02 Type of Course: Core Course			
Marking Scheme: External Examination: 70 + Internal Evaluation: 30 = 100 Marks			
Credits: 04 Theory Sessions per Week: 04			
Unit	Detailed Syllabus	Teaching Hours	Marks/Weight
Unit-1	Gates and Boolean Algebra	16	18
	Introduction to Gates Boolean Algebra (Basic Theorem and Properties) and Truth Table Laws of Boolean Algebra Preparing Circuit from Boolean Function De – Morgan’s Theorem		
Unit-2	Logic Simplification and Basic Digital Circuits	16	18
	Simplification of Boolean Algebra and Gate Minimization Preparing truth table from circuit Preparing circuit for given truth table(SOP and POS) Universal Gates [NAND and NOR Gate] Circuit implementation using Universal gates		
Unit-3	Combinational Circuits and Arithmetic Circuits	14	17
	Integrated Circuit Encoder and Decoder Multiplexer and De Multiplexer Comparator Adders : Half Adder and Full Adder Subtractors : Half Subtractor and Full Subtractor Binary Adder Binary Adder/Subtractor Shifter		
Unit-4	Registers and Counters	14	17
	Latches Flip Flop : RS Flip Flop, D Flip Flop, JK Flip Flop , T Flip Flop Registers : Buffer Register and Shift Register Counters : Asynchronous Counter (Ripple), Synchronous Counter		
Reference Books			
1. Digital Computer Electronics – Albert Paul Malvino 2. Digital Logic and Computer Design – M. Morris Mano			



MAHARAJA KRISHNAKUMARSINHJI BHAVNAGAR UNIVERSITY
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B.Sc.(IT) Course: Advanced C Programming Course No: CC-204		Semester: 02 Type of Course: Core Course	
Marking Scheme: External Examination: 70 + Internal Evaluation 30 = 100 Marks			
Credits: 04		Theory Sessions per Week: 04	
Unit	Detailed Syllabus	Teaching Hours	Marks/Weight
Unit-1	Structure and Union	16	18
	Structure Declaration and initialization Creating variable and accessing data members Array within structure and array of structure Structure within structure Union Passing structure and union as function argument		
Unit-2	Pointer	16	18
	Declaration, initialization and arithmetic of pointers Pointer to array and structures Pointers and strings Pointers as function arguments Functions returning pointers		
Unit-3	Dynamic memory allocation and introduction to linked list	14	17
	Introduction to dynamic memory allocation, malloc() and calloc() functions, Introduction to linked list, comparison with array, Creation of singly linked list Various operations on singly linked list Singly circular linked list		
Unit-4	File Management , Pre-processors and Bit-wise operators	14	17
	Introduction to files and its significance File pointer, declaring file pointer Opening and closing a file – fopen(), fclose() Modes to open a text file “w”, “r”, “a”, “w+”, “r+”, “a+”. I/O operations on files, I/O functions : fread(), fwrite(), fscanf(), fprintf(), fgetc(), fputc(), fgets(), fputs(), fseek(), ftell() Introduction to pre-processors : #define, #include Bit-wise operators Applications of bit-wise operators		
Reference Books			
1. Programming In ANSI C By E. Balagurusamy, TMH Publication. 2. Understanding Pointers in C By Yashwant Kanitkar, BPB Publication 3. Programming with C, Schaums Series, TMH Publication.			



MAHARAJA KRISHNAKUMARSINHJI BHAVNAGAR UNIVERSITY
(With effect from Academic Year: 2020-2021)

B.Sc.(IT) Course: Internet and Web Technology Course No: CC-205 Semester: 02 Type of Course: Core Course Marking Scheme: External Examination: 70 + Internal Evaluation: 30 = 100 Marks Credits: 04 Theory Sessions per Week: 04			
Unit	Detailed Syllabus	Teaching Hours	Marks/Weight
Unit-1	Fundamentals of Internet	16	18
	Introduction to Internet, Intranet, Extranet Introduction to Internet Connection : Dial up connection, Direct Connection, Broadband Connection Introduction to Internet address, URL, ISP Email and its protocol: SMTP, POP3, IMAP		
Unit-2	Introduction to HTML and Advanced HTML	16	18
	Basics of HTML HTML document structure tags HTML comments Text formatting tags Inserting special characters Hyperlink and its types Lists and its types, Working with image Creating Tables, Developing Forms Working with frames and floating frames (iframe) Meta tags, Embedded multimedia		
Unit-3	Design and Develop web pages using CSS	14	17
	Introduction to DHTML Difference between HTML and DHTML Introduction to CSS Applying stylesheet to a document : Inline stylesheet, External stylesheet, Importing stylesheet, Embedding stylesheet CSS Properties: Font, Text, Margin, Padding, Color, Border, List, Background		
Unit-4	Application of Internet	14	17
	WWW, Search Engine, Newsgroup, Audio and Video conferencing, Web Chat, IRC, FTP, Remote Login, DNS Introduction to eCommerce, eLearning, eBanking Introduction to social networking- Twitter, Facebook		
Reference Books			
1. Douglas Comer:- Internet - An Introduction Prentice-Hall of India Pvt. Ltd 2. Ivan Bayross:- WEB enabled Comm. Appli. Develop. using HTML, DHTML, JAVASCRIPT 3. Thomas A. Powell:- The Complete reference HTML and CSS			



MAHARAJA KRISHNAKUMARSINHJI BHAVNAGAR UNIVERSITY
(With effect from Academic Year: 2020-2021)

B.Sc.(IT) Course: Network Management & Information Security Course No: CC-206			
Semester: 02 Type of Course: Core Course			
Marking Scheme: External Examination: 70 + Internal Evaluation: 30 = 100 Marks			
Credits: 04 Theory Sessions per Week: 04			
Unit	Detailed Syllabus	Teaching Hours	Marks/Weight
Unit-1	Introduction to Information Security	16	18
	Attributes of Information Security: Confidentiality, Integrity, and Availability Threats & Vulnerabilities Unauthorized Access Impersonation Denial of Service (DoS and DDoS Attacks) Security Strategies & Processes Malicious Software: Trap Doors, Logic Bomb, Trojan Horses, Viruses, Worms & Bacteria		
Unit-2	Network Security -I	16	18
	OSI Model TCP/IP Model Maximum Transfer Unit, UDP, ICMP, ARP, RARP Protocols, DNS Ping, Traceroute Security Services : Message Confidentiality, Integrity, Authentication, nonrepudiation. Message Confidentiality : confidentiality with symmetric key & Asymmetric key		
Unit-3	Network Security - II	14	17
	Network Attacks: Buffer Overflow, IP Spoofing, TCP Session Hijacking, Sequence Guessing, Network Scanning: ICMP, TCP sweeps, Basic Port Scans SYN Flood, Teardrop attacks Virtual Private Network Technology IPSEC: Traffic Protocols: Authentication Headers, ESP Internet Key Exchange (IKE) Security Association PPTP, L2TP.		
Unit-4	Identification & Authentication and Internet Security	14	17
	Types of authentication Password Vulnerabilities & Attacks Brute Force & Dictionary Attacks Password Policy & Discipline Types of Biometric Techniques, False Rejection, False Acceptance Proxy Servers Firewalls Smurf Attacks on ISP Cookies		
Reference Books			
<ol style="list-style-type: none"> 1. William Stallings, "Network Security Essentials" 2. Behrouz A Forouzan " Data Communication And Networking" 3. Professional Reference, "Internet Security" 4. Gollmann, Dieter, "Computer Security" 			



MAHARAJA KRISHNAKUMARSINHJI BHAVNAGAR UNIVERSITY
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B.Sc.(IT)		
Course: Practical		Course No: CC-207
Semester: 02	Type of Course: Core Course	
Marking Scheme: External Examination: 100 + Internal Evaluation: 00 = 100 Marks		
Credits: 04	Practical Sessions per Week: 08	
Unit	Detailed Syllabus	Marks/ Weight
Unit-1	Practical Problem from CC-204	50
Unit-2	Practical Problem from CC-205	50