

CHINNASALEM-606 201, VILLUPURAM DISTRICT, TAMIL NADU, INDIA.

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai.

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A Christian Minority Institution run by the Franciscan Sisters of the Immaculate Heart of Mary Society, Puducherry.

Phone: 04151-258325, 258326

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COURSE OUTCOMES FOR B.TECH INFORMATION TECHNOLOGY



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	HS8151 – COMMUNICATIVE ENGLISH
C101.1	Enable students to frame sentences, enrich vocabulary and develop basic LSRW Skills
C101.2	Relate synthesis of sentences and enhance LSRW skills for general purposes
C101.3	Apply coherence and sequence expressions and substitutes for advanced task
C101.4	Refine tense sense and word enrichment techniques for more complex and demanding social activities
C101.5	Develop usage of language to ensure development in the LSRW Skills
	MA 8151 ENGINEERING MATHEMATICS I
C102.1	Able to understand the various techniques in differentiation
C102.2	Able to solve the maxima, minima of functions of two variables and applications of Lagrange's method
C102.3	To Acquire skills in analyzing and solving the Integral problems
C102.4	Able to solve the problems based on multiple integration
C102.5	To Acquire skills in analyzing and solving the ordinsry differential equations.
	PH8151/ ENGINEERING PHYSICS
C103.1	Retrieve the basics of properties of matter and
C103.2	Summarize the concepts of waves, optical devices and analyze their applications in fiber optics.
C103.3	Understand the concepts of thermal properties of materials and asses their applications in expansion joints and heat exchangers
C103.4	Extend the physics concepts of quantum theory and apply in tunneling microscopes
C103.5	Retrieve the basics of crystals, their structures and experimenting the preparation of different growth techniques.
	CY8151 - ENGINEERING CHEMISTRY
C104.1	Understand the concept of hard water, its problems and water treatment techniques.
C104.2	Categorize the concepts of adsorption, itsisotherms and catalytic reaction
C104.3	Apply the phase rule to the one and two component system and to understand the significance of alloys.
C104.4	Summarize the different types of fuels and its manufacturing process and able to calculate the calorific value of the fuel
C104.5	Apply the principles of generation of energies in batteries, nuclear reactors and solar cells.
C105 1	GE8151 PROBLEM SOLVING AND PYTHON PROGRAMMING
C105.1	Explain algorithmic solutions to simple computational problems
C105.2	To Read, write, execute by simple Python programs.
C105.3	To describe simple Python programs for solving problems. Decompose a Python program



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	into functions.
C105.4	To use compound data with Python lists, tuples and dictionaries.
C105.5	To describe read and write data from/to files in Python.
	GE8152 ENGINEERING GRAPHICS
C106.1	To understand the fundamentals and standards of Engineering graphics
C106.2	To perform freehand sketching of basic geometrical constructions and multiple views of objects
C106.3	To understand the concept of orthographic projections of lines and plane surfaces
C106.4	To draw the projections of section of solids and development of surfaces
C106.5	To visualize and to project isometric and perspective sections of simple solids
	GE8161 - PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY
C107.1	To understand how to write, test, and debug simple Python programs.
C107.2	To describe Python programs with conditionals and loops.
C107.3	To implement Python programs step-wise by defining functions and calling them.
C107.4	To use Python lists, tuples, dictionaries for representing compound data.
C107.5	To implement read and write data from/to files in Python.
	BS8161 - PHYSICS CHEMISTRY LABORATORY
C108.1	Acquire the skills in the determination hardness of the water by EDTA method
C108.2	Analyze the alkalinity present in water by titrimetric method
C108.3	Determine the molecular weight of a polymer.
C108.4	Deduce the amount substance present by pH metry and Potentiometry method.
C108.5	Calculate the amount of acid and base present in the solution and inthe mixture Conductometric method.
	HS8251 TECHNICAL ENGLISH
C109.1	Enables students to acquire competence in LSRW for basic general and technology-based professional requirements.
C109.2	Develop ability in LSRW to achieve more demaniding tasks in technical fields
C109.3	Apply more strategies and skills to enhance LSRW to produce quick, effective and coherent responses in the professional fields
C109.4	Build communication employment-based communication competence by making students self reliant and analytical
C109.5	Foster LSRW ability to respond effectively and competently for job-based demands
	MA8251 ENGINEERING MATHEMATICS II



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<i><u><u></u></u> <u></u></i> 	
C110.1	To understand the concepts in diagonalisation of matrices
C110.2	To understands the concept of vector calculus
C110.3	To understand the uses of analytic functions. and conformal mapping
C110.4	Able to understand the techniques of complex integratin and contour integrals
C110.5	Able to understand the applications of laplace transforms
	PH8252 - PHYSICS FOR INFORMATION SCIENCE
C111.1	Retrieve the electrical properties of solid state materials and explain the theoritical aspects
	of mobility of electrons
C111.2	Determine the doping properties of semiconductors and determining the carrier concentration of materials
	Understand the magnetic properties of materials and to analyze their applications in data
C111.3	storage.
C111.4	Understand on the functioning of optical properties for opto electronics.
C111.5	Analyze the concept of electrical properties in bulk material and design novel materials
	BE8255 BASIC ELECTRICAL, ELECTRONICS AND MEASUREMENT
	ENGINEERING
C112.1	Discuss the essentials of electric circuits and analysis.
C112.2	Discuss the basic operation of electric machines and transformers
C112.3	State the renewable sources and common domestic loads.
C1124	To understand the fundamentals of electronic circuit constructions
C112.5	Describe the measurement and metering for electric circuits.
	IT8201- INFORMATION TECHNOLOGY ESSENTIALS
C113.1	Design and deploy web-sites
C113.2	Design and deploy simple web-applications
C113.3	Create simple database applications
C113.4	Develop information system
C113.5	Describe the basics of networking and mobile communications
	CS8251: PROGRAMMING IN C
C114.1	Develop simple applications in C using basic constructs
C114.2	Design and implement applications using arrays and strings
C114.3	Develop and implement applications in C using functions and pointers
C114.4	Develop applications in C using structures.
C114.5	Design applications using sequential and random access file processing



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	GE8261 Engineering Practices Laboratory
C115.1	To fabricate carpentry components and pipe connections including plumbing works, use welding equipments to join the structures and carry out the basic machining operations
C115.2	Build the models using sheet metal works
C115.3	Illustrate on centrifugal pump, Air conditioner, operations of smithy, foundary and fittings
C115.4	Build basic home electrical works and appliances and measure the electrical quantities
C115.5	Elaborate on the components, gates, soldering practices
	CS8261 C PROGRAMMING LABORATORY
C116.1	Develop C programs for simple applications making use of basic constructs, arrays and strings.
C116.2	Develop C programs involving functions, recursion
C116.3	Develop C programs involving pointers, and structures.
C116.4	Design applications using sequential and random access file processing.
C116.5	Design applications like railway reservation system.
	IT8211 INFORMATION TECHNOLOGY ESSENTIALS LABORATORY
C117.1	Design interactive websites using basic HTML tags, different styles, links and with all Basic control elements
C117.2	Implement client side and server side programs using scripts using PHP.
C117.3	Implement dynamic web sites and handle multimedia components
C117.4	Implement applications with PHP connected to database and Implement the technologies behind computer networks and mobile communication.
C117.5	Implement Personal Information System
	MA8351: DISCRETE MATHEMATICS
C201.1	To understand the logic of a program
C201.2	To identify the Programming structures on many levels.
C201.3	To acquire skills in class of functions which transform a finite set into another finite set.
C201.4	To Understand the concepts of the counting principles.
C201.5	To understand the algebraic structures such as groups, rings and fields.
	CS8351 - DIGITAL PRINCIPLES AND SYSTEM DESIGN
C202.1	To design digital circuits using simplified Boolean functions
C202.2	To analyze and design combinational circuits
C202.3	To analyze and design synchronous and asynchronous sequential circuits
C202.4	To understand Programmable Logic Devices
C202.5	To explain HDL code for combinational and sequential circuits



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	CS8391- DATA STRUCTURES
C203.1	Understand & Implement abstract data types for linear data structures - Lists
C203.2	Understand & Apply the different linear(Stack & Queue) data structures to problem solutions
C203.3	Understand & Apply the different Non-Linear(Tree) data structures to problem solutions
C203.4	Understand & Apply the different Non-Linear(Graph) data structures to problem solutions
C203.5	Critically analyze the various sorting algorithms and Hashing Techniques
	CS8392Object Oriented Programming
C204.1	Develop Java programs using OOP Principles.
C204.2	Develop Java programs with the concepts inheritance and interfaces.
C204.3	Build Java applicatios using exceptions and I/O streams.
C204.4	Develop java applications with threads and generic classes.
C204.5	Develop interactive Java program using Swings.
	EC8394Analog and Digital Communication
C205.1	Apply analog and digital communication techniques.
C205.2	Use data and pulse communication techniques.
C205.3	To Compare of various Digital Communication System
C205.4	Analyze Source and Error control coding
C205.5	Utilize multi-user radio communication.
	CS8381 – DATA STRUCTURES LABORATORY
C206.1	Develop and Test C programs to implement the concepts of Linear Data Structures.
C206.2	Use appropriate linear data structures for the given problem.
C206.3	Develop and Test C programs to implement non-linear data structures
C206.4	Develop and Test C programs for implementing sorting and searching algorithms
C206.5	Apply appropriate hash functions that result in a collision free scenario for data storage and retrieval
	CS8383 - OBJECT ORIENTED PROGRAMMING LABORATORY
C207.1	Develop and implement Java programs for simple applications that make use of classes.
C207.2	Develop and implement Java programs for packages and interfaces.
C207.3	Develop and implement Java programs with arraylist.
C207.4	Develop and implement Java programs exception handling and multithreading.
C207.5	Design applications using file processing, generic programming and event handling.



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	CS8382 DIGITAL SYSTEMS LABORATORY
C208.1	Implement simplified combinational circuits using basic logic gates
C208.2	Implement combinational circuits using MSI devices
C208.3	Implement sequential circuits like registers and counters
C208.4	Simulate combinational and sequential circuits using HDL
C208.5	Design and implementation of a simple digital system
	HS8381 Interpersonal Skills/Listening & Speaking
C209.1	Listen and respond appropriately especially in academic contexts
C209.2	Participate in group discussions with special emphasis on stress and intonation
C209.3	Develop lexical accuracy and fluency in articulation
C209.4	Assess conversations and offer Verbal and Non-Verbal feedbacks
C209.5	Plan and devise effective presentations
	MA8391- PROBABILITY & STATISTICS
C210.1	Gain knowledge on Probability and various distributions
C210.2	To Solve the Joint distributions, Covariance, Correlation and Linear regression Problems.
C210.3	To apply various techniques for testing of hypothesis
C210.4	Understand the applications of Design of experiments
C210.5	To prepare and solve the Control charts for measurements and attributes
	CS8491 – COMPUTER ARCHITECTURE
C211.1	Understand the basics structure of computers, operations and instructions.
C211.2	To describe arithmetic and logic unit.
C211.3	Understand pipelined execution and design control unit.
C211.4	Understand parallel processing architectures. I
C211.5	Describe the various memory systems and I/O communication
	CS8492- DATABASE MANAGEMENT SYSTEMS
C212.1	Describe Relational model from ER model to perform database design effectively and optimize queries using normalization criteria.
C212.2	To study SQL and Relational Database design.
C212.3	To understand the internal storage structures using different File and Indexing techniques which will help in physical DB design.



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C212.4	To understand the fundamental concept of transaction processing-concurrency control techniques and recovery procedures.
C212.5	State an introductory knowledge about the storage and Query processing technique.
	CS8451 - DESIGN AND ANALYSIS OF ALGORITHMS
C213.1	Explain algorithms for various computing problems.
C213.2	Analyze the search and sorting complexity of algorithms.
C213.3	Analyze the time and space complexity of algorithms.
C213.4	Critically analyze the different algorithm design techniques for a given problem.
C213.5	Modify existing algorithms to improve efficiency.
	CS8493–OPERATING SYSTEM
C214.1	Explain the basic concepts and functions of operating systems.
C214.2	Analyze Processes, Threads and Scheduling algorithms.
C214.3	Understand the concept of Deadlocks.
C214.4	Analyze various memory management schemes and understand I/O management and File
	systems.
C214.5	Understand Linux basic concepts and Mobile OS like iOS and Android.
	GE8291 - ENVIRONMENTAL SCIENCE AND ENGINEERING
C215.1	Able to locate and measure the connectivity between the energy flow in ecosystem and to
C215.2	estimate the value of bio diversity
C215.2 C215.3	To detect , estimate, measure and judge the different environmental pollution levels.
	To understand , compare and estimate the resources such as land, water, food and minerals
C215.4	To identify , classify and formulate the solutions for social issues in the environment.
C215.5	Able to investigate , evaluate and explain the cause and effects of population statistics.
00161	CS8481- DBMS Lab
C216.1	Use typical data definitions and manipulation commands.
C216.2	To design applications to test Nested, Join Queries and views
C216.3	Implement applications that require a Front-end Tool.
C216.4	To critically analyze the use of Tables, Views, Functions and Procedures
C216.5	Design and implement real time applications.
	CS8461 - OPERATING SYSTEMS LABORATORY
C217.1	Compare the performance of various CPU Scheduling Algorithms
C217.2	To implement page replacement algorithms, file organization and allocation techniques
C217.3	Implement Deadlock avoidance and Detection Algorithms



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C217.4	Implement Semaphores and to Create processes and implement IPC
C217.5	Analyze the performance of the various Page Replacement Algorithms and Implement File Organization and File Allocation Strategies
	HS8461 ADVANCED READING AND WRITING
C218.1	Strengthen the reading and writing skills of the students
C218.2	Comprehend and interpret data into coherent paragraphs
C218.3	Evaluate texts critically
C218.4	Draft winning Job applications
C218.5	Write impressive project proposals with critical acumen
	MA8551 ALGEBRA AND NUMBER THEORY
C301.1	Apply the basic notions of groups, rings, fields which will then be used to solve related problems.
C301.2	Explain the fundamental concepts of advanced algebra and their role in modern mathematics and applied contexts.
C301.3	Demonstrate accurate and efficient use of advanced algebraic techniques
C301.4	Demonstrate their mastery by solving non - trivial problems related to the concepts, and by proving simple theorems about the, statements proven by the text.
C301.5	Apply integrated approach to number theory and abstract algebra, and provide a firm basis for further reading and study in the subject.
	CS8591 - COMPUTER NETWORKS
C302.1	Understand the basic layers and its functions in computer networks.
C302.2	Evaluate the performance of a network.
C302.3	Understand the basics of how data flows from one node to another.
C302.4	Analyze and design routing algorithms.
C302.5	Explain the protocols for various functions in the network and Understand the working of various application layer protocols
	EC8691 - MICROPROCESSORS AND MICROCONTROLLERS
C303.1	Understand and execute programs based on 8086 microprocessor.
C303.2	Inspect Memory Interfacing circuits.
C303.3	Explain and analyse interface I/O circuits.
C303.4	To implement 8051 microcontroller based systems.
C303.5	Design and develop Traffic Light control, LED display, LCD display and Alarm Controller.
	IT8501 - WEB TECHNOLOGY



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C204 1	
C304.1	Design simple web pages using markup languages like HTML and XHTML.
C304.2	Create dynamic web pages using DHTML and java script that is easy to navigate and use.
C304.3	Study the Program server side web pages that have to process request from client side web
	pages.
C304.4 C304.5	Represent web data using XML and develop web pages using JSP. Understand various web services and how these web services interact.
C304.3	Understand various web services and now these web services interact.
	CS9404 COETWARE ENCIMEEDING
C305.1	CS8494 SOFTWARE ENGINEERING Identify the key activities in managing a software project. Identify the key activities in managing a software project.
C305.2	
	Compare different process models.
C305.3	Concepts of requirements engineering and Analysis Modeling.
C305.4	Apply systematic procedure for software design and deployment.
C305.5	Identify the various testing and maintenance and Manage project schedule, estimate project cost and effort required
	OMD553 TELEHEALTH TECHNOLOGY
C306.1	Apply multimedia technologies in telemedicine.
C306.2	Explain Protocols behind encryption techniques for secure transmission of data.
C306.2	Apply telehealth in healthcare.
C306.4	Understand telemedical applications.
C306.5	Understand health education and selfcare.
C300.3	Chuerstand health education and seneare.
	EC8681 - MICROPROCESSORS AND MICROCONTROLLERS LABORATORY
C307.1	Explain ALP Programmes for fixed and Floating Point and Arithmetic operations
C307.2	Illustrate Interface different I/Os with processor
C307.3	Generate waveforms using Microprocessors
C307.4	Execute Programs in 8051
C307.5	Explain the difference between simulator and Emulator
	CS8581 - NETWORKS LABORATORY
C308.1	Implement various protocols using TCP and UDP.
C308.2	Implement the performance of different transport layer protocols.
C308.3	Use simulation tools to analyze the performance of various network protocols.
C308.4	Analyze various routing algorithms.
C308.5	Implement error correction codes.
	IT8511 - WEB TECHNOLOGY LABORATORY



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C309.1	Design simple web pages using markup languages like HTML and XHTML.
C309.2	Create dynamic web pages using DHTML and java script that is easy to navigate and use.
C309.3	Represent Program server side web pages that have to process request from client side web pages.
C309.4	Represent web data using XML and develop web pages using JSP.
C309.5	Understand various web services and how these web services interact.
	IT8601 – COMPUTATIONAL INTELLIGENCE
C310.1	Describe a basic exposition to the goals and methods of Computational Intelligence.
C310.2	Study of the design of intelligent computational techniques.
C310.3	Apply the Intelligent techniques for problem solving
C310.4	Improve problem solving skills using the acquired knowledge in the areas of, reasoning, natural language understanding,
C310.5	Acquired knowledge in the computer vision, automatic programming and machine learning.
	CS8592 – OBJECT ORIENTED ANALYSIS AND DESIGN
C311.1	Express software design with UML diagrams
C311.2	Design software applications using OO concepts.
C311.3	Identify various scenarios based on software requirements
C311.4	Transform UML based software design into pattern based design using design patterns
C311.5	Understand the various testing methodologies for OO software
	IT8602 MOBILE COMMUNICATION
C312.1	Explain the basics of mobile telecommunication system
C312.2	Illustrate the generations of telecommunication systems in wireless network
C312.3	Understand the architecture of Wireless LAN technologies
C312.4	Determine the functionality of network layer and Identify a routing protocol for a given Ad hoc networks
C312.5	Explain the functionality of Transport and Application layer
	CS8091 BIG DATA ANALYTICS
C313.1	Illustrate with big data tools and its analysis techniques
C313.2	Analyze data by utilizing clustering and classification algorithms
C313.3	Learn and apply different mining algorithms and recommendation systems for large volumes of data
C313.4	Perform analytics on data streams
C313.5	Learn NoSQL databases and management.



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	CS8092 - COMPUTER GRAPHICS AND MULTIMEDIA
C314.1	Apply two dimensional transformations.
C314.2	Apply three dimensional transformations. Apply Illumination and color models.
C314.3	Apply clipping techniques to graphics.
C314.4	Understood Different types of Multimedia File Format
C314.5	Use Basic 3d Scenes using Blender
	CS8662 - MOBILE APPLICATION DEVELOPMENT LABORATORY
C315.1	Develop mobile applications using GUI and Layouts.
C315.2	Develop mobile applications using Event Listener.
C315.3	Develop mobile applications using Databases.
C315.4	Develop mobile applications using RSS Feed, Internal/External Storage, SMS, Multi-threading and GPS.
C315.5	Analyze and discover own mobile app for simple needs.
	CS8582 - OBJECT ORIENTED ANALYSIS AND DESIGN LABORATORY
C316.1	Perform OO analysis and design for a given problem specification.
C316.2	Identify and map basic software requirements in UML mapping.
C316.3	Improve the software quality using design patterns
C316.4	Explain the rationale behind applying specific design patterns
C316.5	Identify the compliance of the software with the SRS
	IT8611 - MINI PROJECT
C317.1	Identify the problem by applying acquired knowledge.
C317.2	Analyze and categorize executable project modules after considering risks.
C317.3	Choose efficient tools for designing project modules.
C317.4	Combine all the modules through effective team work after efficient testing
C318.5	Elaborate the completed task and compile the project report.
	MG8591 - PRINCIPLES OF MANAGEMENT
	Able to have clear understanding of managerial functions like planning, organizing,
C401.1	staffing, leading & controlling and have same basic knowledge on international aspect of management
C401.2	Enable the students to study the evolution of Management
C401.3	To study the functions and principles of management
C401.4	To learn the application of the principles in the organization
C401.5	To learn and understand the effective administration



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	CS8792 - CRYPTOGRAPHY AND NETWORK SECURITY
C402.1	Understand the fundamentals of networks security, security architecture, threats and vulnerabilities
C402.2	Apply the different cryptographic operations of symmetric cryptographic algorithms
C402.3	Apply the different cryptographic operations of public key cryptography
C402.4	Apply the various Authentication schemes to simulate different applications
C402.5	Understand various Security practices and System security standards
	CS8791 - CLOUD COMPUTING
C403.1	Articulate the main concepts, key technologies, strengths and limitations of cloud computing
C403.2	Learn the key and enabling technologies that help in the development of cloud
C403.3	Develop the ability to understand and use the architecture of compute and storage cloud, service and delivery models
C403.4	Explain the core issues of cloud computing such as resource management and security
C403.5	Be able to install and use current cloud technologies
C403.6	Evaluate and choose the appropriate technologies, algorithms and approaches for implementation and use of cloud
G 40 4 1	OEC754 - MEDICAL ELECTRONICS
C404.1 C404.2	Know the human body electro-physiological parameters and recording of bio-potentials Comprehend the non-electrical physiological parameters and their measurement - body temperature, blood processory pulse, blood cell count, blood flow meter ato
C404.2	 blood pressure, pulse, blood cell count, blood flow meter etc., Interpret the various assist devices used in the hospitals viz.,pacemakers, defibrillators, dialyzers and ventilators
C404.4	Comprehend physical medicine methods eg. shortwave, microwave surgical diathermies & bio- telemetry principles and methods
C404.5	Know about recent trends in medical instrumentation
	IT8075 - SOFTWARE PROJECT MANAGEMENT
C405.1	Understand Project Management principles while developing software
C405.2	Gain extensive knowledge about the basic project management concepts, framework and the process models
C405.3	Obtain adequate knowledge about software process models and software effort estimation techniques
C405.4	Estimate the risks involved in various project activities
C405.5	Define the checkpoints, project reporting structure, project progress and tracking mechanisms using project management principles
C405.6	Learn staff selection process and the issues related to people management
	CS8079 - HUMAN COMPUTER INTERACTION
C406.1	Design effective dialog for HCI



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C406.2	Design effective HCI for individuals and persons with disabilities
C406.3	Assess the importance of user feedback
C406.4	Explain the HCI implications for designing multimedia/ ecommerce/ e-learning Web sites
C406.5	Develop meaningful user interface
	IT8711 - FOSS AND CLOUD COMPUTING LABORATORY
C407.1	Configure various virtualization tools such as Virtual Box, VMware workstation
C407.2	Design and deploy a web application in a PaaS environment
C407.3	Learn how to simulate a cloud environment to implement new schedulers.
C407.4	Install and use a generic cloud environment that can be used as a private cloud
C407.5	Manipulate large data sets in a parallel environment
	IT8761 - SECURITY LABORATORY
C408.1	Develop code for classical Encryption Techniques to solve the problems
C408.2	Build cryptosystems by applying symmetric and public key encryption algorithms
C408.3	Construct code for authentication algorithms
C408.4	Develop a signature scheme using Digital signature standard
C408.5	Demonstrate the network security system using open source tools
	IT8811 - PROJECT WORK
C409.1	Identify the problem by applying acquired knowledge.
C409.2	Analyze and categorize executable project modules after considering risks.
C409.3	Choose efficient tools for designing project modules.
C409.4	Combine all the modules through effective team work after efficient testing
C409.5	Elaborate the completed task and compile the project report.

ABBREVIATIONS

C101.1 C stands for Course 1 stands for year of study 01 stands for first paper as per the curriculum .1 stands for Outcomes for particular course

*The same format is followed for remaining years and courses