

LSSBM'S

**Padm. Dr. V. B. Kolte College of Engineering and Polytechnic,
Malkapur**

Department of Computer Science & Engineering

First Semester ("I" Scheme)

Course Outcomes

Subject: English (22101)

C101.1	Formulate grammatically correct sentences.
C101.2	Summarize comprehension of passages
C101.3	Formulate different types of dialogues.
C101.4	Use relevant vocabulary to compose paragraphs to express ideas, thoughts and emotions.
C101.5	Use relevant words in writing and delivering short and long speeches.

Subject: Basic Science (22102)

C102.1	Estimate errors in measurement of physical quantities.
C102.2	Apply the principles of electricity and magnetism to solve engineering problems.
C102.3	Use the basic principles of heat and optics in related engineering applications.
C102.4	Apply the catalysis process in industries.
C102.5	Use corrosion preventive measures in industry.
C102.6	Use relevant engineering materials in industry.

Subject: Mathematics (22103)

C103.1	Apply the concepts of algebra to solve engineering related problems.
C103.2	Utilize basic concepts of trigonometry to solve elementary engineering problems.
C103.3	Solve basic engineering problems under given conditions of straight lines.
C103.4	Solve the problems based on measurement of regular closed figures and regular solids.

C103.5	Use basic concepts of statics to solve engineering related problems.
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Subject: Fundamental of ICT (22001)

C104.1	Use computer system and its peripherals.
C104.2	Prepare business document using word processing tool.
C104.3	Interpret data and represent it graphically using spread sheet.
C104.4	Prepare professional presentation
C104.5	Use different types of web browsers.

Subject: Engineering Graphics (22003)

C105.1	Student can draw geometrical figures and engineering curves
C105.2	Student can draw the views of given object using principles of orthographic projection
C105.3	Student can draw isometric views of given component or from orthographic projections
C105.4	Student can use drawing codes, conventions and symbols as per IS SP-46 in engineering drawing.
C105.5	Draw free hand sketches of engineering elements.

Subject: Work Shop Practice (22005)

C106.1	Use block level formatting tag to present contents on web page.
C106.2	Use Text level formatting tag to present contents on web page.
C106.3	Apply hyper linking on web pages.
C106.4	Organize the content using tables and frames.
C106.5	Apply presentation schemes on web pages using CSS.
C106.6	Publish websites on internet or intranet.

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Second Semester ("I" Scheme)

Course Outcomes

Subject: Elements of Electrical Engineering (22215)

C201.1	Use principles of magnetic Circuit
C201.2	Use single phase AC supply for electrical and electronics equipment
C201.3	Use three phase AC supply for industrial equipment and machines
C201.4	Connect transformer and DC motors for specific requirements
C201.5	Use FHP motors for diversified application
C201.6	Use relevant protective devices / switchgear for different requirements

Subject: Applied Mathematics (22224)

C202.1	Calculate the equation of tangent, maxima, minima, radius of curvature by differentiation
C202.2	Solve the given problems of integration by suitable method
C202.3	Apply the concept of integration to find area and volume
C202.4	Solve the different equation of first order and first degree using suitable methods
C202.5	Apply the concept of numerical method in computer programming language

Subject: Basic Electronics (22225)

C203.1	Identify electronic components in electronic circuit
C203.2	Use diodes in different application
C203.3	Interpret the working of junction transistor in electronic circuit
C203.4	Interpret the working of unipolar devices in electronic circuit
C203.5	Use sensors and transducers

Subject: Programing in “C” (22226)

C204.1	Develop flow chart and algorithm to solve problem logically.
C204.2	Write simple C program using arithmetic expression.
C204.3	Develop C program using control structure.
C204.4	Develop C program using array and structures.
C204.5	Develop/Use function in C program for modular programing approach.
C204.6	Develop C program using pointer.

Subject: Business communication using computers (BCC) (22009)

C205.1	Communicate effectively by avoiding barriers in various formal and informal situations.
C205.2	Communicate skillfully using non-verbal method of communication
C205.3	Give presentation by using audio – visual aids.
C205.4	Write report using correct guidelines
C205.5	Compose emails and formal business letters.

Subject: Computer peripheral and hardware maintenance (22013)

C206.1	Identify different types of computer system.
C206.2	Trouble shoot common mother board problem.
C206.3	Select processors required for relevant system.
C206.4	Partition/Format hard disc drives.
C206.5	Trouble shoots peripherals and network.
C206.6	Test power supplies.

Subject: Web Page Design (22014)

C207.1	Use block level formatting tag to present contents on web page.
C207.2	Use Text level formatting tag to present contents on web page.
C207.3	Apply hyper linking on web pages.
C207.4	Organize the content using tables and frames.
C207.5	Apply presentation schemes on web pages using CSS.
C207.6	Publish websites on internet or intranet.

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Third Semester ("I" Scheme)

Course Outcomes

Subject: Object Oriented Programming Using C++(22316)

C301.1	Develop C++ Programs to solve problem using procedure oriented approach.
C301.2	Develop C++ Programs using Classes & Objects.
C301.3	Implement Inheritance in C++ Program.
C301.4	Use Polymorphism in c++ Program.
C301.5	Develop C++ programs to perform file operation.

Subject: Data Structure Using "C" (22317)

C302.1	Perform basic operation in arrays.
C302.2	Apply different searching & sorting techniques.
C302.3	Implement basic operation on stack and queue using array representation.
C302.4	Implement basic operation on linked list.
C302.5	Implement program to create & traverse tree to solve problem.

Subject: Computer Graphics (22318)

C303.1	Manipulate visual & Geometric information of images
C303.2	Implement standard algorithms to draw various graphics object using C program
C303.3	Develop program for 2D & 3D Transformation
C303.4	Use projection to visualize objects on view plane
C303.5	Implement various clipping algorithm
C303.6	Develop program to create curves using algorithm

Subject: Database Management system (22319)

C304.1	Design Normalized Database on given data.
C304.2	Create & manage using database SQL command.
C304.3	Write PL/SQL code for a given database.
C304.4	Apply triggers of database also create procedure & function according to condition.
C304.5	Apply security and confidentiality on given database

Subject: Digital Techniques (22320)

C305.1	Use number system and codes for interpreting working of digital system
C305.2	Used Boolean expression to realize logic circuit
C305.3	Build simple Combinational circuit
C305.4	Build simple sequential circuit
C305.5	Test data converters and PLDs in digital electronics system

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Fourth Semester ("I" Scheme)

Course Outcomes

Subject: Java Programming (22412)

C401.1	Develop programs using Object Oriented methodology in Java
C401.2	Apply concept of inheritance for code reusability
C401.3	Develop programs using multithreading
C401.4	Implement Exception Handling
C401.5	Develop programs using graphics and applet
C401.6	Develop programs for handling I/O and file streams

Subject: Software Engineering (22413)

C402.1	Select suitable software process model for software development.
C402.2	Prepare software requirement specification
C402.3	Use software modelling to create data designs
C402.4	Estimate size and cost of software product
C402.5	Apply project management and quality assurance principles in software development

Subject: Data Communication and computer Network (22414)

C403.1	Analyze the functioning of data communication and computer network
C403.2	Select relevant transmission media and switching techniques as per need
C403.3	Analyse the transmission errors with respect to IEEE standards
C403.4	Configure various networking devices
C403.5	Configure different TCP/IP services.

Subject: Microprocessors (22415)

C404.1	Analyze the functional block of 8086 microprocessor.
C404.2	Write assembly language program for the given problem
C404.3	Use instruction for different addressing modes
C404.4	Develop an assembly language program using assembler
C404.5	Develop assembly language programs using procedures , macros and programming approach

Subject: GUI Application Development using VB. NET (22411)

C405.1	Use Visual Studio IDE to design application
C405.2	Develop GUI Application using From Controls and its events
C405.3	Apply object oriented concepts in GUI Application
C405.4	Use data access controls to store data in database and retrieve it.
C405.5	Use data binding in GUI application

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**Department of Computer Science & Engineering
Fifth Semester
Course Outcomes**

Subject: Environmental studies (22447)

C501.1	Develop Public Awareness About Environment.
C501.2	Select Alternative Energy Resources for Engineering Practice.
C501.3	Conserve Ecosystem and Biodiversity.
C501.4	Apply Techniques To Reduce Environmental Pollution.
C501.5	Manage Social Issues and Environmental Ethics as Lifelong Learning

Subject: Operating System (22516)

C502.1	Install Operating System and Configure It.
C502.2	Use Operating System Tools to Perform various Functions.
C502.3	Execute Process Commands For Performing Process Management Operations.
C502.4	Apply Scheduling Algorithms to Calculate Turnaround Time and Average Waiting Time.
C502.5	Calculate Efficiency of Different Memory management Techniques.
C502.6	Apply File Management Techniques.

Subject: Advanced Java Programing (22517)

C503.1	Develop Program using GUI Framework(AWT and Swing)
C503.2	Handle Event Of AWT and Swing Component.
C503.3	Develop Program to Handle Events In Java Programing.
C503.4	Develop java Program using Networking Concepts.
C503.5	Develop Program using Database.
C503.6	Develop Program using Servlets.

Subject: Software Testing (22518)

C504.1	Apply Various Software Testing methods.
C504.2	Prepare Test case for Different Types and Levels Of Testing.
C504.3	Prepare Test Plan For Application.
C504.4	Identify Bugs to Create Identify Report Of Given application.
C504.5	Test Software For Performance Measures Using Automated Tools.

Subject: Software Testing (22520)

C505.1	Implement Network Layer Protocol
C505.2	Configure IPV6 Network
C505.3	Choose Routing Protocol in the given network situation
C505.4	Implement Different Transport Layer Protocol
C505.5	Configure Various Application Layer Protocol

Subject: Industrial Training (22057)

C506.1	Work in Groups, Plan the work, and Coordinate the work.
C506.2	Develop leadership qualities.
C506.3	Develop Innovative ideas.
C506.4	Practically implement the acquired knowledge.
C506.5	Develop basic technical Skills by hands on experience.

Subject: Capstone Project Planning (22058)

C507.1	Write the problem /task specification in existing system related to the occupation
C507.2	Select, collect & use required information /knowledge to solve the problem /complete the task.
C507.3	Logically choose relevant possible solution
C507.4	Consider the ethical issues related to the project
C507.5	Assess the impact of the project on society

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**Department of Computer Science & Engineering
Sixth semester
Course Outcomes**

Subject: Management (22509)

C601.1	Use basic management principles to execute daily activities
C601.2	Use principles of planning & organizing for accomplishment of task
C601.3	Use principles of directing & controlling for implementing the plans
C601.4	Apply principles of safety management in all activities
C601.5	Understand various provisions of industrial acts

Subject: Programming with Python (22616)

C602.1	Display message on screen using python script on IDE
C602.2	Develop python program to demonstrate use of operators
C602.3	Perform operations on data structures in python
C602.4	Develop functions for given problem
C602.5	Design classes for given problem
C602.6	Handle exceptions

Subject: Mobile application Development (22617)

C603.1	Interprete features of android operating system
C603.2	Configure android environment and development tools
C603.3	Develop rich user interfaces by using layouts and controls
C603.4	Use user interface components for android applications developments
C603.5	Create android applications using database
C603.6	Publish android application

**Subject: Emerging trends in Computer and Information Technology
(22618)**

C604.1	Describe artificial intelligence, machine learning and deep learning
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C604.2	Interpret IOT Concepts
C604.3	Compare models of digital forensic investigation
C604.4	Describe evidence handling process
C604.5	Describe ethical hacking process
C604.6	Detect network, operating system and applications vulnerabilities

Subject: Network and Information security (22620)

C605.1	Identify risks related to computer security and Information hazards in various situations
C605.2	Apply user identification and authentication methods
C605.3	Apply cryptographic algorithms and protocols to maintain computer security
C605.4	Apply measures to prevents attacks on network firewall
C605.5	Maintain secured networks and describe information security compliance standards.

Subject: Entrepreneurship Development (22032)

C606.1	Identify your entrepreneurial traits
C606.2	Identify the business opportunities that suits you
C606.3	Use the support systems to zero down to your business idea
C606.4	Develop comprehensive business plans
C606.5	Prepare plans to manage the enterprise effectively

Subject: Capstone Project Planning (22060)

C607.1	Implement the planned activity individually and/or as team.
C607.2	Select, Collect and use required information/knowledge to solve the identified problem
C607.3	Take appropriate decision based on Controlled and analysed information.
C607.4	Ensure quality in project.
C607.5	Incorporate energy and environment conservation principles.

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