SITAM

SATYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Near RTO Office, Gajularega, Vizianagaram-535003, Andhra Pradesh, India

Accredited by "NAAC", Approved by AICTE, New Delhi

(Permanently Affiliated to JNTUGV, Vizianagaram, Recognized by SBTET, Government of A.P)

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EAMCET CODE: **SGVP** JNTUGV CODE: **B6** SBTET CODE: **649**

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

Name of the Course: ACCOUNTING FOR MANAGER

Year-Semester: I-I

Regulation: R 19

Course Outcomes:

I. Financial accounting results in the determination of net income at the bottom of the income statement. Assets, liabilities and equity accounts are reported on the balance sheet.

2. Help get information on a company's financial performance, including its profitability, liquidity, solvency, and efficiency.

3. Understanding of the application of advanced cost accounting techniques for management such as single output costing, process costing cost allocation, ABC costing, Responsibility Accounting & Strategic Cost Management.

4. Critically analyses and provide recommendations to improve the operations of organizations through the application of management accounting techniques.

5. Monitor their financial performance, make informed decisions, and improve their operations.

Name of the Course: Legal & Business Environment

Year-Semester: I-I

Regulation: R 19

Course Outcomes:

1. The learner will be able to infer legal aspects of doing business and plan business activities.
2. A learner will be able to analyses the elements of social, political and economic environment around a firm.

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3. The learner will be able to make use of provisions of the contract act to evaluate a contract used in commercial practice. The learner will understand various components of IPR
4. The learner will be able to distinguish between various types of companies and able to
5. Explain the legal formation of a company. The learner will be able to understand the provisions of IT Act.
6. The learner will be able to describe various provisions of miscellaneous acts and consumer protection act.

Name of the Course: MANAGEMENT AND ORGANIZATIONAL BEHAVIOUR

Year-Semester: I-I

Regulation: R 19

Course Outcomes:

1. Develop an understanding of major concepts and levels of management
2. Develop an understanding of power and politics and its impact on Organizational behavior
3. Creative thinking by establishing linkages with other social sciences and organizational goals
4. Develop leadership skills and approaches that align with the needs of Organization
5. Develop an understanding of organizational change and change management.

Name of the Course: PROJECT MANAGEMENT

Year-Semester: I-II

Regulation: R 19

Course Outcomes:

1. This course will be able to describe a project life cycle, and can skill fully map each stage in the cycle and the describe project proposal and execution
2. To identify the resources needed for each stage of market survey and demand forecasting.
3. Analyze the technical and legal feasibility of a project, evaluate and review of a project.
4. To describe the project financial feasibility, risk analysis and breakeven point of a project.

5. !t is all _about the project 1mplementation and review.

Name of the Course: FINANCIAL MANAGEMENT (FM)

Year-Semester: I-II

Regulation: R 19

Course Outcomes:

1. On successful completion of the course the students shall be able to:
2. Recognize the importance of financial management from a strategic perspective Compute cost of capital and develop innovative financial strategies
3. Analyze the capital structure decisions through relevant models
4. Discuss the dividend policy of a firm Take both long-term and short-term financing decisions

Name of the Course: INVESTMENT ALAYSIS AND PORTFOLI MANAGEMENT

Year-Semester: II-I

Regulation: R 19

Course Outcomes:

1. The students will able to understand investment culture.
2. The students will be able to build and evaluate the relationship between the concept of risk and return.
3. The students will be able to learn the basics of choosing an investment alternative.
4. The student will be able to learn the theoretical concepts of underlying portfolio creation in real life.
5. The students will be able to asses' portfolios of mutual funds by using theories.

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Name of the Course: STRATEGIC FINANCIAL MANAGEMENT

Year-Semester: II-II

Regulation: R 19

Course Outcomes:

1. Understand financial strategy and control of a company.
2. Learn the relevance of risk and uncertainty in making strategic decisions.
3. Learn various aspects of capital budgeting.
4. Understand the capital structure, mergers and acquisitions.
5. Identify the different diversification strategies take overs.

Overall Program Outcomes:

1. PO1: Apply the knowledge of management theories and practices to solve Business problems
2. PO2: Foster analytical and critical thinking abilities for data based decision making.
3. PO3: Practice skills and right attitude necessary to provide effective leadership in a global environment
4. PO4: Specify and follow strong ethical values.
5. PO5: Ability to identify a business opportunity and establish a team environment.
6. PO6: Engage in lifelong learning.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Name of the Course: Communicative English

Year-Semester: I-I

Regulation: R20

Course Outcomes:

At the end of the module, the learners will be able to

1. Understand social or transactional dialogues spoken by native speakers of English and identify the context, topic, and pieces of specific information
2. Ask and answer general questions on familiar topics and introduce oneself/others
3. Employ suitable strategies for skimming and scanning to get the general idea of a text and locate specific information
4. Recognize paragraph structure and be able to match beginnings/endings/headings with paragraphs and form sentences using proper grammatical structures and correct word forms.

Name of the Course: Mathematics-I

Year-Semester: I-I

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Utilize mean value theorems to real-life problems (L3)
2. Solve the differential equations related to various engineering fields (L3)
3. Familiarize with functions of several variables, which is useful in optimization (L3)
4. Apply double integration techniques in evaluating areas bounded by region (L3)
5. Students will also learn important tools of calculus in higher dimensions. Students will become familiar with 2-dimensional and 3-dimensional coordinate systems (L5)

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Name of the Course: Applied Chemistry

Year-Semester: I-I

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Analyze the different types of composite plastic materials and interpret the mechanism of conduction in conducting polymers.
2. Utilize the theory of construction of electrodes, batteries and fuel cells in redesigning new engineering products and categorize the reasons for corrosion and study methods to control corrosion.
3. Synthesize nanomaterials for modern advances of engineering technology.
4. Summarize the preparation of semiconductors; analyze the applications of liquid crystals and superconductors.
5. Analyze the principles of different analytical instruments and their applications.
6. Design models for energy from different natural sources.
7. Obtain knowledge of computational chemistry and molecular machines

Name of the Course: Programming for Problem Solving Using C

Year-Semester: I-I

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. To write algorithms and draw flowcharts for solving problems
2. To convert flowcharts/algorithms to C Programs, compile, and debug programs
3. To use different operators' data types and write programs that use two-way/ multiway selection
4. To select the best loop construct for a given problem
5. To design and implement programs to analyze the different pointer applications
6. To decompose a problem into functions and to develop modular reusable code

Name of the Course: Engineering Drawing

Year-Semester: I-I

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. The student will learn how to visualize 2D & 3D objects.

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Name of the Course: MATHEMATICS-II

Year-Semester: I-II

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. develop the use of matrix algebra techniques that is needed by engineers for practical applications (L6)
2. solve the system of linear algebraic equations using Gauss elimination, Gauss Jordan, Gauss-Seidel (L3)
3. evaluate the approximate roots of polynomial and transcendental equations by different algorithms (L5)
4. apply Newton's forward & backward interpolation and Lagrange's formulae for equal and unequal intervals (L3)
5. apply numerical integral techniques to different Engineering problems (L3)
6. apply different algorithms for approximating the solutions of ordinary differential equations with initial conditions to its analytical computations (L3)

Name of the Course: Applied Physics

Year-Semester: I-II

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Explain the need for coherent sources and the conditions for sustained interference(L2).
2. Identify engineering applications of interference(L3).
3. Analyze the differences between interference and diffraction with applications(L4)
4. Illustrate the concept of polarization of light and its applications(L2)
5. Classify ordinary polarized light and extraordinary polarized light(L2)
6. Understand the basic concepts of LASER light Sources(L2)
7. Apply the concepts to learn the types of lasers(L3)
8. Identifies the Engineering applications of lasers(L2)
9. Explain the working principle of optical fibers(L2)
10. Classify optical fibers based on refractive index profile and mode of propagation(L2)
11. Identify the applications of optical fibers in various fields(L2)
12. Explain the concept of the dual nature of matter(L2)

13. Understand the significance of wave function(L2)
14. Interpret the concepts of classical and quantum free electron theories(L2)
15. Explain the importance of K-P model
16. Classify the materials based on band theory(L2)
17. Apply the concept of the effective mass of the electron(L3)
18. Explain the concept of dielectric constant and polarization in dielectric materials Summarize various types of polarization of dielectrics(L2)
19. Interpret Lorentz field and Clausius- Mosotti relation in dielectrics(L2)
20. Classify the magnetic materials based on susceptibility and their temperature dependence (L2)
21. Explain the applications of dielectric and magnetic materials(L2)
22. Apply the concept of magnetism to magnetic data storage devices(L3)
23. Classify the energy bands of semiconductors(L2)
24. Interpret the direct and indirect band gap semiconductors(L2)
25. Identify the type of semiconductor using Hall effect(L2)
26. Identify applications of semiconductors in electronic devices(L2)
27. Classify superconductors based on Meissner's effect(L2)
28. Explain Meissner's effect, BCS theory & Josephson effect in superconductors(L2)

Name of the Course: Object-Oriented Programming through JAVA

Year-Semester: I-II

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Show competence in the use of the Java programming language in the development of small to medium-sized application programs that demonstrate professionally acceptable coding and performance standard
2. Illustrate the basic principles of the object-oriented programming
3. Demonstrate an introductory understanding of graphical user interfaces, multithreaded programming,
4. And event-driven programming.

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Name of the Course: Network Analysis

Year-Semester: I-II

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Gain knowledge of basic network elements.
2. Will analyze the RLC circuit's behavior in detailed.
3. Analyze the performance of periodic waveforms.
4. gain the knowledge in characteristics of two-port network parameters
5. (Z, Y, ABCD, h&g).
6. Analyze the filter design concepts in real-world applications.

Name of the Course: Basic Electrical Engineering

Year-Semester: I-II

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Able to explain the operation of a DC generator and analyze the characteristics of a DC generator.
2. Able to explain the principle of operation of DC motors and analyze their characteristics. Acquire the skills to analyze the starting and speed control Methods of DC motors.
3. Ability to analyze the performance and speed-torque characteristics of a 3-phase induction motor and understand starting methods of a 3-phase induction motor.
4. Able to explain the operation of Synchronous Machines
5. Capability to understand the operation of various special machines.

Name of the Course: Environmental Science

Year-Semester: I-II

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. The student will learn how to visualize 2D & 3D objects.

Name of the Course: Electronic Devices and Circuits

Year-Semester: II-I

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Apply the basic concepts of semiconductor physics. Understand the formation of a p-n junction and how it can be used as a p-n junction as a diode in different modes of operation.
2. Know the construction working principle of rectifiers with and without filters, relevant expressions, and necessary comparisons.
3. Understand the construction and principle of operation of transistors, BJT, and FET with the V-I characteristics in different configurations.
4. Know the need for transistor biasing, various biasing techniques for BJT and FET, and stabilization concepts with necessary expressions.
5. Perform the analysis of small signal low-frequency transistor amplifier circuits using BJT and FET in different configurations

Name of the Course: Switching theory and logic design

Year-Semester: II-I

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Classify different number systems and apply them to generate various codes.
2. Use the concept of Boolean algebra in minimization of switching functions
3. Design different types of combinational logic circuits.
4. Apply knowledge of flip-flops in designing Registers and counters
5. The operation and design methodology for synchronous sequential
6. Circuit sand algorithmic state machines.
7. Produce innovative designs by modifying traditional design techniques.

Name of the Course: Signals and Systems

Year-Semester: II-I

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Differentiate the various classifications of signals and systems
2. Analyze the frequency domain representation of signals using Fourier concepts

Classify the systems based on their properties and determine the response of LTI Systems.

4. Know the sampling process and various types of sampling techniques.
5. Apply Laplace and z-transforms to analyze signals and Systems.

Name of the Course: Random Variables and Stochastic Processes

Year-Semester: II-I

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Mathematically model there and phenomena and solve simple probabilistic problems.
2. Identify different types of random variables and compute statistical averages of the Random variables.
3. Characterize the random processes in the time and frequency domains.
4. Analyze the LTI systems with random inputs.

Name of the Course: Mathematics-III

Year-Semester: II-I

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Interpret the physical meaning of different operators such as gradient, curl, and divergence (L5)
2. Estimate the work done against a field, circulation, and flux using vector calculus (L5)
3. Apply the Laplace transform for solving differential equations (L3)
4. Find or compute the Fourier series of periodic signals (L3)
5. Know and be able to apply integral expressions for the forwards and inverse Fourier Transform to arrange non-periodic waveforms (L3)
6. Identify solution methods for partial differential equations that model physical Processes (L3)

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Name of the Course: Electronic Circuit Analysis

Year-Semester: II-II

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Design and analysis of small signal high-frequency transistor amplifier using BJT and FET.
2. Design and analysis of multistage amplifiers using BJT and FET and Differential Amplifier using BJT.
3. Derive the expressions for frequency of oscillation and condition for oscillation of RC and LC oscillators and their amplitude and frequency stability concept.
4. Know the classification of the power and tuned amplifiers and their analysis With performance comparison

Name of the Course: Digital IC Design

Year-Semester: II-II

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Understand the structure of commercially available digital integrated circuit families.
2. Learn the IEEE Standard 1076 Hardware Description Language (VHDL).
3. Model complex digital systems at several abstractions, behavioral, structural, and rapid system Prototyping levels.
4. Analyze and design basic digital circuits with combinatorial and sequential logic circuits using VHDL.

Name of the Course: Analog Communications

Year-Semester: II-II

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Differentiate various Analog modulation and demodulation schemes and their spectral characteristics.
2. Analyze noise characteristics of various analog modulation methods.
3. Analyze various functional blocks of radio transmitters and receivers.
4. Design simple analog systems for various modulation techniques.

Name of the Course: Linear Control Systems

Year-Semester: II-II

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. This course introduces the concepts of feedback and its advantages to various control systems
2. The performance metrics to design the control system in the time domain and frequency domain are introduced.
3. Control systems for various applications can be designed using time-domain and frequency-domain analysis.
4. In addition to the conventional approach, the state space approach for the analysis of control systems is also introduced.

Name of the Course: Management and Organizational Behaviour

Year-Semester: II-II

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. After completion of the Course, the student will acquire the knowledge of management Functions, global leadership, and organizational structure.
2. Will familiarize with the concepts of functional management that is HR Mind Marketing of new product developments.
3. The learner is able to think strategically through contemporary management practices.
4. The learner can develop a positive attitude through personality development and can be equipped with motivational theories.
5. The student can attain the group performance and grievance handling in managing the organizational culture.

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Name of the Course: Soft Skills (Skill-Oriented Course)

Year-Semester: II-II

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Use language fluently, accurately, and appropriately in debates and group discussions
2. Use their skills of listening comprehension to communicate effectively in cross-cultural contexts.
3. Learn and use new vocabulary.
4. Write resumes, project reports, and reviews.
5. Exhibit interview skills and develop soft skills.

Name of the Course: Analog ICs And Applications

Year-Semester: III-I

Regulation: R20

Course Outcomes:

At the end of the module, the learners will be able to

1. Describe the Op-Amp and internal Circuitry: 555 Timer, PLL
2. Discuss the Applications of Operational amplifier: 555 Timer, PLL
3. Design the Active filters using Operational Amplifier
4. Use the Op-Amp in A to D & D to A Converters

Name of the Course: Electromagnetic Waves and Transmission Lines

Year-Semester: III-I

Regulation: R20

Course Outcomes:

At the end of the module, the learners will be able to

1. Determine E and H using various laws and applications of electric & magnetic fields
2. Apply the Maxwell equations to analyze the time-varying behavior of EM waves
3. Gain knowledge of uniform plane wave concept and characteristics of uniform plane waves in various media.
4. Calculate Brewster angle, critical angle, and total internal reflection.
5. Use a Smith chart to calculate the expressions for the input impedance of transmission lines, reflection coefficient, VSWR, etc.

Name of the Course: Digital Communications

Year-Semester: III-I

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Analyze the performance of a Digital Communication System for the probability of error and are able to design a digital communication system.
2. Analyze various source coding techniques.
3. Compute and analyze Block, cyclic, and convolution codes.
4. Design a coded communication system.

Name of the Course: Electronic Measurements and Instrumentation

Year-Semester: III-I

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Select the instrument to be used based on the requirements.
2. Understand and analyze different signal generators and analyzers.
3. Understand the design of oscilloscopes for different applications.
4. Design different transducers for the measurement of different parameters.

Name of the Course: Data Structures

Year-Semester: III-I

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Select appropriate data structures as applied to the specified problem definition.
2. Summarize and understand the practical applications of several advanced techniques like Hashing and Analyzing and Implement appropriate sorting /searching techniques for given problems.
3. Demonstrate the operations such as Insertion, Deletion, and Search on Data structures like Binary Search Tree and solve the problems.
4. Demonstrate the operations such as Insertion, Deletion, and Search on Advanced Data structures like Heaps, AVL trees, and B Trees.
5. Comparisons of Red-Black trees, B-Trees, etc., and priority queue operations.

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Name of the Course: Microprocessor and Microcontrollers
Year-Semester: III-II
Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Understand the architecture of microprocessors/microcontrollers and their operation.
2. Demonstrate programming skills in assembly language for processors and Controllers.
3. Analyze various interfacing techniques and apply them to the design of processor/Controller-based systems.

Name of the Course: VLSI Design

Year-Semester: III-II

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Demonstrate a clear understanding of CMOS fabrication flow and technology scaling.
2. Apply the design Rules and draw the layout of a given logic circuit.
3. Design basic building blocks in Analog IC design.
4. Analyze the behavior of amplifier circuits with various loads.
5. Design various CMOS logic circuits for the design of Combinational logic circuits.
6. Design MOSFET based logic circuits using various logic styles like static and dynamic CMOS.
7. Design various applications using FPGA.

Name of the Course: DIGITAL SIGNAL PROCESSING

Year-Semester: III-II

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Apply the difference equations concept in the analysis of discrete-time systems
2. Use the FFT algorithm for solving the DFT of a given signal
3. Design a Digital filter (FIR&IIR) from the given specifications
4. Realize the FIR and IIR structures from the designed digital filter.
5. Use the Multirate Processing concepts in various applications
6. Apply the signal processing concepts on the DSP Processor.

Name of the Course: Embedded Systems

Year-Semester: III-II

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Understand the basic concepts of an embedded system and able to know an embedded system design approach to perform a specific function.
2. The hardware components required for an embedded system and the design approach of an embedded hardware.
3. The various embedded firmware design approaches in an embedded environment.
4. Understand how to integrate the hardware and firmware of an embedded system using the real-time operating system.

Name of the Course: Optical Communication

Year-Semester: IV-I

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Choose the necessary components required in modern optical communications systems.
2. Design and build optical fiber experiments in the laboratory and learn how to calculate electromagnetic modes in waveguides, the amount of light lost going through an optical system, and the dispersion of optical fibers.
3. Use different types of photodetectors and optical test equipment to analyze optical fiber and Lightwave systems.
4. Choose the optical cables for better communication with minimum losses
5. Design, build, and demonstrate optical fiber experiments in the laboratory.

Name of the Course: IMAGE PROCESSING

Year-Semester: IV-I

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Demonstrate the components of image processing
2. Explain various filtration techniques
3. Apply image compression techniques.
4. Discuss the concepts of wavelet transforms.
5. Analyze the concept of morphological image processing

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Name of the Course: Digital IC Design Using CMOS

Year-Semester: IV-I

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Understand the concepts of MOS Design.
2. Design and analysis of Combinational and Sequential MOS Circuits.
3. Extend the Digital IC Design to Different Applications.
4. Understand the Concepts of Semiconductor Memories, Flash Memory, RAM array organization.

Name of the Course: Radar Engineering

Year-Semester: IV-I

Regulation: R20

Course Outcomes:

At the end of the course, the student will be able to

1. Derive the radar range equation and solve some analytical problems.
2. Understand the different types of radars and their applications.
3. Understand the concept of tracking and different tracking techniques.
4. Understand the various components of radar receivers and their performance.

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