Modi Institute of Technology, Kota

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Nayagaon, Rawatbhata Road, Kota – 324010, Raj. M. No- 7665439788,
Website: www.mitkota.com Email: mitkota1@gmail.com

Department of Electronics & Communication Engineering

List of Course Outcomes

II Year – III Semester
3EC2 – 01 : Advance Engineering Mathematics

After completion of the course, students would be able to:

CO1: Comprehend Numerical Methods and Integral Transform.
CO2: Understand Interpolation, Laplace Transform, Fourier Transform and Z-Transform.
CO3: Analyze Numerical Methods and Integrals Transform in solving ODE
CO4: Apply Integral Transform, Operators, Numerical Differentiation and Numerical integration.
CO5: Explain the roots of Algebraic and Transcendental Equations, Definite Integrals and Improper Integrals.

Mr. Vijay Varshney (O/C Exam)	Mr. Pankaj Jain HOD (First Year)	Mrs. SeemaArya HOD (CSE)
Mr.JitendraYadvendra HOD (EE/ECE)	Mr. AbhishekChattri Dy. Registrar	Dr.Barkha Gupta HOD (ME)

Dr. Vikas Soni
Principal

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Hon'ble Group Director Sir for kind information.
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List of Course Outcomes

II Year – III Semester
3EC1-02 : Technical Communication

After completion of the course, students would be able to:

CO1: Describe and extend technical forms of communication in their professional life.
CO2: Understand different technical data and documents.
CO3: Explain grammatical sense in their technical written and oral communication.
CO4: Describe technical correspondence in/with an organization.
CO5: Analyze technical reports, scientific articles and Project Proposals more vividly.

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List of Course Outcomes

II Year – III Semester
3EC3 – 04 : Digital System Design

After completion of the course, students would be able to:

CO1: Explain basic concepts of digital circuits, Programmable logic devices and VLSI design flow.

CO2: Describe digital system design in required application.

CO3: Describe digital circuits such as flip flops, synchronous circuits, Logic Families Semiconductor memories etc.

CO4: Analyze digital circuits and derive solutions for the problem related to digital system design.

CO5: Design combinational and sequential logic circuits through HDL models.

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List of Course Outcomes

II Year – III Semester
3EC4 – 05 : Signal & Systems

After completion of the course, students would be able to:

CO1: Describe different types of signals and system properties.

CO2: Understand continuous and discrete systems in time and frequency domain using different transforms.

CO3: Explain whether the system is stable.

CO4: Analyze Sampling and reconstruction of a signal.

CO5: Develop an understanding of MIMO systems.

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List of Course Outcomes

II Year – III Semester
3EC4 – 06 :Network Theory

After completion of the course, students would be able to:

CO1: Comprehend the basic circuital law and simplify the network using network theorems
CO2: Describe the frequency domain techniques in different applications
CO3: Apply Laplace Transform for steady state and transient analysis
CO4: Explain transient response and two-port network parameters
CO5: Analyze the series resonant and parallel resonant circuit and design filters

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List of Course Outcomes

II Year – III Semester
3EC4 – 07 :Electronic Devices

After completion of the course, students would be able to:

CO1: Describe the structure, function, characteristics and terms related to semiconductor physics of the intrinsic, P and N materials.

CO2: Understand the information representation used in the characteristics of current flow in a bipolar junction transistor and MOSFET.

CO3: Design the mathematical models of semiconductor junctions and MOS transistors for circuits and systems.

CO4: Explain the different electronic components and devices.

CO5: Describe the concept of Integrated circuit fabrication.

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II Year – III Semester
3EC4 – 21 :Electronics Device Lab

After completion of the course, students would be able to:

CO1: Understand the characteristics of different Electronic Devices.

CO2: Describe the rectifier circuits using diodes and implement them using hardware.

CO3: Design various amplifiers like CE, CC, CB amplifiers and implement them using hardware and also observe their frequency responses

CO4: Explain the construction, operation and characteristics of JFET and MOSFET for design of amplifiers.

CO5: Evaluate the frequency response of transistor amplifiers.

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List of Course Outcomes

II Year – III Semester
3EC4 – 22 : Digital System Design Lab

After completion of the course, students would be able to:

CO1: Understand to minimize the complexity of digital logic circuits.

CO2: Design different binary system using K-Map and normalization using universal gates.

CO3: Understand to design and analysis combinational logic circuits.

CO4: Illustrate to design and analysis sequential logic circuits.

CO5: Design and implement applications of combinational & sequential logic circuits i.e. Counters and registers.

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II Year – III Semester
3EC4 – 23 : Signal Processing Lab

After completion of the course, students would be able to:

CO1: Understand different Continuous and Discrete time signals.

CO2: Generate the basics of signals and different operations on signals

CO3: Evaluate simple algorithms for signal processing and test them using MATLAB.

CO4: Generate the random signals having different distributions, mean and variance.

CO5: Describe experiments, interpret and analyze data and report results.

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II Year – III Semester
3EC4 – 24 :Computer Programming Lab-I

After completion of the course, students would be able to:

CO1: Ability to implement a structure in C++ language and use of different data structure.

CO2: Describe the implementation of various basic concepts related to class with access specifier, constructor, defining member functions within and outside a class.

CO3: Develop and design friend functions and class and able to overload operators to work with user- defined classes.

CO4: Explain program using C++ features such as composition of objects, dynamic memory allocation, inher- itance and polymorphism.

CO5: Explain file handling and exception handling.

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II Year – III Semester
3EC7 – 30: Industrial Training

After completion of the course, students would be able to:

CO1: Participate in the projects in industries during his or her industrial training.

CO2: Describe use of advanced tools and techniques encountered during industrial training and visit.

CO3: Interact with industrial personnel and follow engineering practices and discipline prescribed in industry.

CO4: Develop awareness about general workplace behavior and build interpersonal and team skills.

CO5: Prepare professional work reports and presentations.

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II Year – III Semester
3EC8-00: Social Outreach, Discipline & Extra Curricular activities

After completion of the course, students would be able to:

CO1: Show a disciplined behavior.

CO2: Appraise need of social work.

CO3: Participate/had participated in national /state level social camp.

CO5: Demonstrate his/her role as social worker.

CO6: Got award/ recognition at National / state Level.

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List of Course Outcomes

II Year – IV Semester
4EC2-01: Advanced Engineering Mathematics-II

After completion of the course, students would be able to:

CO1: Describe Complex variables and its Applications, Special Functions and Linear Algebra.

CO2: Expalin C-R equations, Contour Integration, Residues, Bessel's and Legendre function and Basis.

CO3: Analyze complex variable, Special Functions and Linear Algebra in Analytic functions, Finding Residues, Orthogonal Property, Vector Spaces.

CO4: Understand Harmonic functions, Singularities, Improper Integrals and linear Dependence of vectors.

CO5: Apply the knowledge Analytic Functions, Cauchy Theorem, Improper Integrals, and Canonical forms of matrices.

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II Year – IV Semester
4EC1-03: Managerial Economics and Financial Accounting

After completion of the course, students would be able to:

CO1: Comprehend the fundamentals of Managerial Economics, its core concept and Economic problems.

CO2: Explain the various demand and supply functions & its basic applications towards real life situations.

CO3: Understand the knowledge on the production theories and cost analysis while dealing with the production and factors of production and formulating competitive strategies.

CO4: Analyze the market structure such as monopoly, oligopoly prefect competition and its pricing strategy.

CO5: Evaluate and interpret the financial statements of the organization such as fund flow, cash flow balance sheet, ratio analysis etc. with practical approach & apply the knowledge of generally accepted ac- counting principles.

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II Year – IV Semester
4EC4-04: Analog Circuits

After completion of the course, students would be able to:

CO1: Describe and classify active and passive components such as diodes, BJTs, FETs, OP-AMPs, DAC and ADC required for an analog electronic circuit.

CO2: Differentiate electronic components and devices in analog electronics domain.

CO3: Understand the performance of analog circuits.

CO4: Analyze analog circuits and derive solutions for the problem related to analog circuits.

CO5: Evaluate an analog circuit for its working and output.

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II Year – IV Semester
4EC4-05: Microcontrollers

After completion of the course, students would be able to:

CO1: Comprehend RSIC processors and ARM micro controller-based systems.

CO2: Describe interfacing of peripherals devices.

CO3: Explain the concept of memory organization.

CO4: Design and Implement the systems using different micro controllers.

CO5: Understand the assembly language programming.

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II Year – IV Semester
4EC3-06: Electronics Measurement & Instrumentation

After completion of the course, students would be able to:

CO1: Describe different types of errors and important of identifying errors to find the actual outcome.

CO2: Explain various types of electronics instruments and their uses.

CO3: Understand the functions and working of cathode ray oscilloscope.

CO4: Define signal generation and signal analysis.

CO5: Evaluate types, functions and uses of transducers.

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II Year – IV Semester
4EC4-07: Analog and Digital Communication

After completion of the course, students would be able to:

CO1: Comprehend different analog modulation schemes for their efficiency and bandwidth.
CO2: Describe the behavior of a communication system for presence of noise in system.
CO3: Explain a pulsed modulation system and analyses their system performance.
CO4: Differentiate various digital modulation schemes and calculate bit error performance.
CO5: Design a communication system comprised of both analog and digital modulation techniques.

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II Year – IV Semester
4EC4-21: Analog and Digital Communication Lab

After completion of the course, students would be able to:

CO1: Comprehend different analog modulation schemes and evaluate modulation index.

CO2: Understand the principle of super heterodyne receiver.

CO3: Develop time division multiplexing concepts in real time applications.

CO4: Explain different data formatting schemes.

CO5: Illustrate the concepts of different digital modulation techniques in communication.

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Branches: B.Tech- ME / EE / ECE / CE / IT / EEE &M.Tech – Digital Communication
Nayagaon, Rawatbhata Road, Kota – 324010, Raj. M. No- 7665439788,
Website: www.mitkota.com Email: mitkota1@gmail.com

Department of Electronics & Communication Engineering

List of Course Outcomes

II Year – IV Semester
4EC4-22: Analog Circuits Lab

After completion of the course, students would be able to:

CO1: Explain the characteristics of diodes and transistors
CO2: Analyze various rectifier and amplifier circuits
CO3. Design sinusoidal and non-sinusoidal oscillators
CO3: Understand the functioning of OP-AMP with design of OPAMP based circuits
CO5: Design and develop ADCs and DACs circuits

Mr. Vijay Varshney (O/C Exam)	Mr. Pankaj Jain HOD (First Year)	Mrs. SeemaArya HOD (CSE)
Mr.JitendraYadvendra HOD (EE/ECE)	Mr. AbhishekChattri Dy. Registrar	Dr.Barkha Gupta HOD (ME)

Dr. Vikas Soni
Principal

Cc to:-

Hon'ble Vice-Chairman Sir for kind information.
Hon'ble Group Director Sir for kind information.
Undersigned.
HOD's & I/C's. / First Year Coordinator.
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List of Course Outcomes

II Year – IV Semester
4EC4-23: Microcontrollers Lab

After completion of the course, students would be able to:

CO1: Generate a simple microcontroller and microprocessor-based systems.

CO2: Apply basic knowledge to understand the microprocessor and microcontroller interfacing, delay generation, waveform generation and Interrupts.

CO3: Develop assembly level programming of microprocessors and microcontroller.

CO4: Describe interfacing of peripherals devices.

CO5: Solve real time problems by Interfacing the external devices to the microcontroller and microprocessor.

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List of Course Outcomes

II Year – IV Semester
4EC4-24: Electronics Measurement & Instrumentation Lab

After completion of the course, students would be able to:

CO1: Understanding of the fundamentals of Electronic Instrumentation and identifying measuring instruments.

CO2: Analyze various methods to measure resistance, inductance and capacitance.

CO3: Develop an instrumentation system that meets desired specifications and requirements.

CO4: Interpret and correlate the analysis of data and results

CO5: Explain the principle of electrical transducers, confident to apply instrumentation solutionfor given industrial applications.

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List of Course Outcomes

II Year – IV Semester
4EC18-00: Social Outreach, Curricular Activities

After completion of the course, students would be able to:

CO1: Show a disciplined behavior.
CO2: Appraise need of social work.
CO3: Participate/had participated in national /state level social camp.
CO4: Demonstrate his/her role as social worker.
CO5: Got award/ recognition at National / state Level.

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List of Course Outcomes

III Year – V Semester
5EC3-01: Computer Architecture

After completion of the course, students would be able to:

CO1: Comprehend theory and architecture of central processing unit

CO2: Explain different number systems, binary addition and subtraction, 2's complement representation and operations with this representation.

CO3: Define architecture and functionality of central processing unit.

CO4: Interpret concepts of parallel processing, pipelining and inter processor communication.

CO5: Analyze the principles of operation of the I/O and memory organization.

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List of Course Outcomes

III Year – V Semester
5EC4-02: Electromagnetic Waves

After completion of the course, students would be able to:

CO1: Understand the transmission lines with equivalent circuit and explain their characteristics & use its knowledge in different engineering situations.

CO2: Apply the Maxwell's equations and their applications in electromagnetic problems.

CO3: Explain and apply the concept of uniform plane wave in wave propagation.

CO4: Describe the propagation characteristics of electromagnetic waves in various wave guide structures.

CO5: Analyze Radiation-Solution for potential function and Radiation Parameters of antenna.

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List of Course Outcomes

III Year – V Semester
5EC4-03: Control system

After completion of the course, students would be able to:

CO1: Comprehend the basic elements and structure of control systems.

CO2: Analyze the time response analysis of a control system & apply Routh-Hurwitz criterion to deter mine the domain of stability of linear time-invariant systems in the parameter space.

CO3: Discuss designing of root locus and effect of pole zero addition in system function, also stability in terms of close loop frequency response.

CO4: Explain the control system performance in the frequency domain in terms of gain and phase margin.

CO5: Understand concepts of state variable analysis and compensation design.

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List of Course Outcomes

III Year – V Semester
5EC4-04: Digital Signal Processing

After completion of the course, students would be able to:

CO1: Understand the different types of the discrete signals and systems.

CO2: Discuss the DFT, FFT and interrelation between DFT and various transforms.

CO3: Analyze the characteristics of FIR filters and different types of windowing techniques.

CO4: Design a IIR digital filters for a given specifications and Apply the knowledge to real world.

CO5: Evaluate the applications of digital signal processing.

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List of Course Outcomes

III Year – V Semester
5EC4-05: Microwave Theory & Techniques

After completion of the course, students would be able to:

CO1: Discuss various microwave applications, advantages and hazards.

CO2: Apply the concept of microwave transmission modes and transmission medium.

CO3: Describe the working, advantages and limitations of microwave active and passive components and devices.

CO4: Explain microwave network and antenna parameters with different measuring techniques.

CO5: Analyze various microwave components, devices and circuits for different applications.

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List of Course Outcomes

III Year – V Semester
5EC5-11: Bio-Medical Electronics

After completion of the course, students would be able to:

CO1: Understand the principles and Working of various biomedical transducers.
CO2: Comprehend Bio-electrodes for ECG, EMG, EEG.
CO3: Describe the biopotential amplifiers for ECG, EMG, EEG, etc.
CO4: Analyze the measurement of blood temperature, pressure and flow.
CO5: Explain impedance plethysmography, Ultrasonic, X-ray and nuclear imaging. Prostheses and aids.

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List of Course Outcomes

III Year – V Semester
5EC4-21 RF Simulation Lab

After completion of the course, students would be able to:

CO1: Understand working and internal structure of various transmission line.

CO2: Describe working of rectangular waveguide cavity and circular waveguide behavior through various RF tools.

CO3: Design and simulate microstrip and various planer transmission line.

CO4: Design and simulate microwave components couplers, power dividers, hybrid ring and filters.

CO5: Explain various active RF components like BJT and FETs.

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List of Course Outcomes

III Year – V Semester
5EC4-22: Digital Signal Processing Lab

After completion of the course, students would be able to:

CO1: Define and generate different types of the discrete signals.

CO2: Describe the DFT, FFT and interrelation between DFT and various transforms.

CO3: Explain the characteristics of FIR filters and classify the different types of windowing techniques.

CO4: Design the FIR and IIR digital filters for a given specifications and Apply the knowledge to real world processing applications.

CO5: Evaluate the applications of convolution and Z transform in digital signal processing.

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List of Course Outcomes

III Year – V Semester
5EC4-23: Microwave Lab

After completion of the course, students would be able to:

CO1: Comprehend microwave transmission medium, components and various measuring instruments.

CO2: Measure different performance parameters of various microwave passive components such as filters, rat race hybrid ring, 3dB power divider, Backward wave coupler etc.

CO3: Analyze the characteristics of microwave active components such as generators, Amplifiers.

CO4: Understand the working of Microwave test bench and its different components

CO5: Apply concept of Smith Chart in calculation of Unknown Impedance.

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List of Course Outcomes

III Year – V Semester
5EC7-30: Industrial Training

After completion of the course, students would be able to:

CO1: Participate in the projects in industries during his or her industrial training.

CO2: Describe use of advanced tools and techniques encountered during Industrial training and visit.

CO3: Interact with industrial professionals and follow engineering practices and discipline prescribed in industry.

CO4: Develop awareness about general workplace behavior and build Interpersonal and team skills.

CO5: Prepare professional work reports and presentations.

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III Year – V Semester
5EC8-00: Social Outreach, Discipline & Extra Curricular activities

After completion of the course, students would be able to:

CO1: Show a disciplined behavior.
CO2: Appraise need of social work.
CO3: Participate/had participated in national /state level social camp.
CO4: Demonstrate his/her role as social worker.
CO5: Got award/ recognition at National / state Level.

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List of Course Outcomes

III Year – VI Semester
6EC 3-01 : Power Electronics

After completion of the course, students would be able to:

CO1: Understand the working and Characteristics of Power electronic devices like power diode, power transistor, Thyristor, Diac, Triac, GTO, MOSFET and IGBT.

CO2: Discuss and Compare the working Principles of Single-phase half Wave bridge converter, Single Phase & 3 Phase Bridge Converter.

CO3: Explain the Voltage Source Inverter, Current Source Inverter and solve the problems of PWM Inverter.

CO4: Describe the Industrial Power Supplies and uninterruptible Power Supply.

CO5: Analyze the speed for control the DC motors using phase-controlled converters and three Phase Induction motors using voltage and frequency.

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III Year – VI Semester
6EC 4-02 : Computer Network

After completion of the course, students would be able to:

CO1: Understand theory and concept of queuing model.
CO2: Describe different queuing time and efficiency of system.
CO3: Illustrate architecture and functionality of OSI layer.
CO4: Apply concepts of TCP layer and functions of that.
CO5: Explain the principles of operation of ALOHA and different standards.

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III Year – VI Semester
6EC 4-03 : Fiber Optics Communications

After completion of the course, students would be able to:

CO1: Understand the Structure and Types of Optical Fibers.
CO2: Explain Various types of losses like dispersion and coupling loss.
CO3: Analyze the Optical sources and detectors and to discuss their principles.
CO4: Classify Optical Switches, Amplifiers with their principles of operation.
CO5: Dicuss the principles of operation, Models of multiplexing in optical fibers.

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III Year – VI Semester
6EC 4-04 : Antennas and Propagation

After completion of the course, students would be able to:

CO1: Comprehend the basic radiation concept with different performance parameters of antennas.

CO2: Understand different types of antenna and analyze them

CO3: Design the Microstrip patch antenna and Evaluate different parameters.

CO4: Analyze the concept of antenna array in different communication systems.

CO5: Explain Radio Wave propagation used in current practice.

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Branches: B.Tech- ME / EE / ECE / CE / IT / EEE &M.Tech – Digital Communication
Nayagaon, Rawatbhata Road, Kota – 324010, Raj. M. No- 7665439788,
Website: www.mitkota.com Email: mitkota1@gmail.com

Department of Electronics & Communication Engineering

List of Course Outcomes

III Year – VI Semester
6EC4-05 : 5G Communication

After completion of the course, students would be able to:

CO1: Understand 3G, 4G, and 5G, spectrum access modes and Sharing for 5G, Channel modeling.

CO2: Describe system architecture of 5G, physical layer and deployment.

CO3: Explain different modulation and accesses techniques.

CO4: Discuss Device-to-device (D2D) and machine-to-machine (M2M) type communications.

CO5: Understand millimeter-wave communications, 5G network slicing and vehicular Communication.

Mr. Vijay Varshney (O/C Exam)	Mr. Pankaj Jain HOD (First Year)	Mrs. SeemaArya HOD (CSE)
Mr.JitendraYadvendra HOD (EE/ECE)	Mr. AbhishekChattri Dy. Registrar	Dr.Barkha Gupta HOD (ME)

Dr. Vikas Soni
Principal

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Hon'ble Vice-Chairman Sir for kind information.
Hon'ble Group Director Sir for kind information.
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List of Course Outcomes

III Year – VI Semester
6EC5-13: Neural Network And Fuzzy Logic Control

After completion of the course, students would be able to:

CO1: Comprehend elementary neurophysiology, Applications of neural networks applications in image processing.

CO2: Understand The perceptron and its learning law, classification of linearly separable patterns, linear networks, multi-layer feed forward neural networks.

CO3: Describe uncertainty & precision, fuzzy sets and membership, membership value assignment.

CO4: Define various types of defuzzification methods.

CO5: Explain the simple fuzzy logic controller, general FLC, fuzzy engineering process control.

Mr. Vijay Varshney (O/C Exam)	Mr. Pankaj Jain HOD (First Year)	Mrs. SeemaArya HOD (CSE)
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List of Course Outcomes

III Year – VI Semester
6EC 4-21 : Computer Network Lab

After completion of the course, students would be able to:

CO1: Describe computer network basics, network architecture, TCP/IP and OSI reference models.

CO2: Understand different concept of elements and protocols of transport layer.

CO3: Discuss architecture and routing and congestion in network layer with routing algorithms.

CO4: Illustrate concepts of network security and define various protocols such as FTP, HTTP, Telnet, DNS.

CO5: Define the principles of data link protocols, multi-channel access protocols and IEEE 802 standards for LAN.

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List of Course Outcomes

III Year – VI Semester
6EC 4-22 : Antenna and wave propagation Lab

After completion of the course, students would be able to:

CO1: Explain various antenna performance parameters like directivity, VSWR, HPBW, FNBW, input imped ance, gain.

CO2: Design and simulate various antennas using software.

CO3: Plot and develop radiation patterns for various types of wire, aperture antennas and parabolic reflectors.

CO4: Describe the effect of ground plane on radiation pattern of an antenna.

CO5: Analyze digital and analog link for optical fiber communication and evaluate its performance.

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List of Course Outcomes

III Year – VI Semester
6EC 4-23 : Electronics Design Lab

After completion of the course, students would be able to:

CO1: Defineand observe the operation of a bipolar junction transistor and field-effect transistor in different region of operations.

CO2: Design of transistor Amplifier and Oscillators. Importance of negative feedback.

CO3: Describe the frequency response of amplifiers and operational amplifier circuits. Develop an intuition for analog circuit behavior in both linear and nonlinear operation.

CO4: Design op-amps for specific gain, speed, or switching performance. Compensate operational amplifiers for stability.

CO5: Analyze and conduct experiments, interpret and analyze data, and report results.

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List of Course Outcomes

III Year – VI Semester
6EC 4-24 : Power Electronics Lab

After completion of the course, students would be able to:

CO1: Understand the Characteristics of SCR, Diac, Triac.

CO2: Analyze different converters for various applications.

CO3: Apply on hardware circuit (kit) to study and perform single phase PWM inverter.

CO4: Experiment with kit of buck, boost and buck boost converter.

CO5: Analyze the speed and control of DC and AC motor.

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List of Course Outcomes

III Year – VI Semester
6EC 8-00 : Social Outreach, Discipline & Extra Curricular Activities

After completion of the course, students would be able to:

CO1: Show a disciplined behavior.

CO2: Appraise need of social work.

CO3: Participate/had participated in national /state level social camp.

CO4: Demonstrate his/her role as social worker.

CO5: Got award/ recognition at National / state Level.

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List of Course Outcomes

IV Year – VII Semester
7EC5-11 : VLSI Design

After completion of the course, students would be able to:

CO1: Understand the basic MOS transistors, NMOS and CMOS fabrication, Ids versus Vds relationship, MOS transistor circuit Model , High order effects and narrow channel effects in MOS transistors

CO2: Describe different types of inverters and determine inverter parameters.

CO3: Design of simple Gates and apply layout design rules to design layouts of CMOS circuits

CO4: Analyze different Dynamic CMOS circuits and Basic Memory circuits

CO5: Use ECAD tools to design VLSI circuits using VHDL.

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List of Course Outcomes

IV Year – VII Semester
7AG6-60.2 : Environmental Engineering and Disaster Management

After completion of the course, students would be able to:

CO1: Understand the Importance of safe water supply system, different sources of water supply, intakes and transportation of water and water requirements for urban and rural areas.

CO2: Describe different Indian Standards and quality of drinking water , various processes of water treatment and importance of sanitation.

CO3: Understand the disposal of domestic waste water in urban and rural areas and wastewater treatment, sewer and its types.

CO4: Explain Solid waste management, air pollution, types of air pollutants and their effect on living beings, BIS standards for air pollutants and their abetments.

CO5: Discuss various types of disasters and Importance of disaster management.

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List of Course Outcomes

IV Year – VII Semester
7EC4-21 : VLSI Design Lab

After completion of the course, students would be able to:

CO1: Understand basic concepts of digital circuits, PLD's and VLSI design flow.
CO2: Design combinational and sequential logic circuits through HDL.
CO3: Analyze the performance of digital circuits.
CO4: Evaluate digital circuits and derive solutions for the problems.
CO5: Design and Develop digital circuits.

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List of Course Outcomes

IV Year – VII Semester
7EC4-22: Advance Communication Lab (MATLAB Simulation)

After completion of the course, students would be able to:

CO1: Describe the features and simulation of different Advance Communication parameters and perform basic functions with the help of MATLAB software.

CO2: Compare various Advance communication methods of generating and detecting different types of code words with the help of MATLAB software.

CO3: Compute various Advance communication parameters with the help of graphical representation with the help of MATLAB software.

CO4: Implement fuzzy system and neural networks for different applications with the help of MATLAB software.

CO5: Analyze the effects of sampling on a continuous time signal with the help of MATLAB software.

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List of Course Outcomes

IV Year – VII Semester
7EC4-23 : Optical Communication Lab

After completion of the course, students would be able to:

CO1: Establish analog and digital link, propagation loss, numerical aperture for optical fiber communication.

CO2: Describe the characteristics of fibre optic LEDs, LDR and Laser Diode.

CO3: Calculate OTDR Measurement of Fiber Length, Attenuation and Dispersion Loss.

CO4: Analyze single mode, multimode fiber, optical waveguides, dispersion compensators, WDM, optical link power budget.

CO5: Analyze the optical system performance using Eye diagram, Q-factor & BER of optical signals

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List of Course Outcomes

IV Year – VII Semester
7EC7-30 : Industrial Training

After completion of the course, students would be able to:

CO1: Establish motivation for recent topic of interest and develop a thought process for technical presentation.

CO2: Organize a detailed literature survey and build a document with respect to technical publications.

CO3: Analysis and comprehension of proof-of-concept and related data.

CO4: Effective presentation and improvement in communication skills.

CO5: Make use of new and recent technology for creating technical reports.

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List of Course Outcomes

IV Year – VII Semester
7EC7-40 : Seminar

After completion of the course, students would be able to:

CO1: Establish motivation for any topic of interest and develop a thought process for technical presentation.
CO2: Identify the problems in existing technologies and their possible solutions.
CO3: Effective presentation and improve soft skills.
CO4: Make use of new and recent technology.
CO5: Improve oral and written communication skills.

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IV Year – VII Semester
7EC8-00 : Social Outreach, Discipline & Extra Curricular Activities

After completion of the course, students would be able to:

CO1: Show a disciplined behavior.
CO2: Appraise need of social work.
CO3: Participate/had participated in national /state level social camp.
CO4: Demonstrate his/her role as social worker.
CO5: Got award/ recognition at National / state Level.

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IV Year – VIII Semester
8EC5-11: Artificial Intelligence and Expert System

After completion of the course, students would be able to:

CO1: Understand the Intelligent Agents, State Space Search, Uninformed Search, Informed Search in Artificial Intelligence.

CO2: Explain Knowledge Representation And Logic, Interface in Propositional Logic, Reasoning Using First Order Logic, Resolution in FOPL.

CO3: Analyze the Rule based System, Semantic Net, Reasoning in Semantic Net Frames, Planning.

CO4: Understand the Rule Based Expert System, Reasoning with Uncertainty, Fuzzy Reasoning.

CO5: Describe the Rule Induction and Decision Trees, Learning Using neural Networks, Probabilistic Learning Natural Language Processing.

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IV Year – VIII Semester
8TT6-60.2 : DISASTER MANAGEMENT

After completion of the course, students would be able to:

CO1: Understand different types Hazards, social and environment related issues , Risk and Vulnerability.

CO2: Describe various types of disasters, their occurrence, impact and preventive measures.

CO3: Explain different types Hydro-meteorological and Geological based natural disasters.

CO4: Comprehend various types of man made disasters like Textile Processing Industrial Hazards, Major Power Break Downs, Traffic Accidents, Fire Hazards.

CO5: Understand the roll of management in mitigating Disaster in Indian Textile Industries and Roll of production people in Disaster Management.

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IV Year – VIII Semester
8EC4-21 : Internet of Things (IOT) Lab

After completion of the course, students would be able to:

CO1: Understand basic features of IoT.
CO2: Apply basic interfacing knowledge of Arduino, and Raspberry Pi.
CO3: Discuss the performance of the sensors, transducers and actuators used in IOT system.
CO4: Compare and evaluate various IoT technologies.
CO5: Explain new IoT interfacing technologies.

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List of Course Outcomes

IV Year – VIII Semester
8EC4-22 : Skill Development Lab

After completion of the course, students would be able to:

CO1: Develop an independent and/or collaborative skill in the planning of a creative social/industry project with modern technologies.

CO2: Elucidate the need and implementation of related software.

CO3: Develop and articulate practical, theoretical and entrepreneurial understandings and concepts within a practice or discipline.

CO4: Apply the coding techniques using different modern platforms as per industry needs.

CO5: Solve the social engineering problems with the help of software and hardware.

Mr. Vijay Varshney (O/C Exam)	Mr. Pankaj Jain HOD (First Year)	Mrs. SeemaArya HOD (CSE)
Mr.JitendraYadvendra HOD (EE/ECE)	Mr. AbhishekChattri Dy. Registrar	Dr.Barkha Gupta HOD (ME)

Dr. Vikas Soni
Principal

Cc to:-

Hon'ble Vice-Chairman Sir for kind information.
Hon'ble Group Director Sir for kind information.
Undersigned.
HOD's & I/C's. / First Year Coordinator.
Registrar Office/NAAC Coordinator/All Member Concerned/ Accountant

Modi Institute of Technology, Kota

An Engg. College Approved by AICTE & Affiliated to RTU
Branches: B.Tech- ME / EE / ECE / CE / IT / EEE &M.Tech – Digital Communication
Nayagaon, Rawatbhata Road, Kota – 324010, Raj. M. No- 7665439788,
Website: www.mitkota.com Email: mitkota1@gmail.com

Department of Electronics & Communication Engineering

List of Course Outcomes

IV Year – VIII Semester
8EC7-50 : Project

After completion of the course, students would be able to:

CO1: Analyze a current topic of professional interest for product development.

CO2: Identify an engineering problem, analyze and propose a work plan to solve it.

CO3: Develop the capability to work in a team to design and implement a solution to the problem with the help of appropriate tools.

CO4: Inculcate the skills required to present and defend project work.

CO5: Understand the role of time management in the implementation of the project.

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List of Course Outcomes

IV Year – VIII Semester
8EC8-00 : Social Outreach, Discipline & Extra Curricular Activities

After completion of the course, students would be able to:

CO1: Show a disciplined behavior.
CO2: Appraise need of social work.
CO3: Participate/had participated in national /state level social camp.
CO4: Demonstrate his/her role as social worker.
CO5: Got award/ recognition at National / state Level.

Mr. Vijay Varshney (O/C Exam)	Mr. Pankaj Jain HOD (First Year)	Mrs. SeemaArya HOD (CSE)
Mr.JitendraYadvendra HOD (EE/ECE)	Mr. AbhishekChattri Dy. Registrar	Dr.Barkha Gupta HOD (ME)

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