



COURSE OUTCOMES (COS) EVEN SEMESTER

Course Outcomes: C221– Laplace Transforms, Numerical Methods & Complex Variables

Year: II- II Sem A.Y: 2019-20

C221.1	Understanding the concepts of Laplace transforms techniques for solving ODE's.
C221.2	Estimate the value for the given data using different interpolation techniques.
C221.3	Find the numerical solutions for a given ODE's using different numerical method techniques.
C221.4	Analyze the complex function with reference to their analyticity, differentiation using harmonic functions.
C221.5	Analyze the complex function with reference to their analyticity, integration using Cauchy's integral and residue theorems.

Course Outcomes: C222– Electromagnetic Fields and Waves Year: II- II Sem A.Y: 2019-20

C222.1	Understand the Basic Laws, Concepts and proofs related to Electrostatic Fields.
C222.2	Understand the Basic Laws, Concepts and proofs related to Magneto static Fields.
C222.3	Distinguish between the static and time-varying fields, establish the corresponding sets of Maxwell's Equations and Boundary Conditions.
C222.4	Analyze the Wave Equations for good conductors, good dielectrics and evaluate the UPW Characteristics for several practical media of interest.
C222.5	Analyze completely the rectangular waveguides, their mode characteristics, and design waveguides for solving practical problems.

Course Outcomes: C223 – Analog and Digital Communications Year: II- II Sem A.Y: 2019-20

C223.1	Analyze and design of various continuous wave and angle modulation and demodulation techniques and effects of noise is studied.
C223.2	Understand the effect of noise present in continuous wave and angle modulation techniques.
C223.3	Understand the knowledge about AM, FM Transmitters and Receivers.
C223.4	Analyze and design the various Pulse Modulation Techniques.
C223.5	Understand the various contemporary management practices and also the project management techniques.

Course Outcomes: C224 – Linear IC Applications Year: II- II Sem A.Y: 2019-20

C224.1	Understanding of operational amplifiers with linear integrated circuits.
C224.2	Understand the functionality of Opamp and its Applications
C224.3	Understand the operation of Active Filters & Oscillators using linear IC's
C224.4	Understand the theory and applications of analog multipliers and PLL.
C224.5	Understand the operation of different types of data converters and their specifications.

Course Outcomes: C225 – Electronic Circuit Analysis Year: II- II Sem A.Y: 2019-20

C225.1	Design the multistage amplifiers and understand the concepts of High Frequency Analysis of Transistors.
C225.2	Utilize the Concepts of negative feedback to improve the stability of amplifiers.
C225.3	Understand the operation of RC and LC type oscillators and also derive its frequency of oscillation.
C225.4	Design and realize different classes of Power Amplifiers and tuned amplifiers usable for audio and Radio applications.
C225.5	Design Multivibrators and sweep circuits for various applications.

Course Outcomes: C226 – Analog and Digital Communications Lab Year: II- II Sem A.Y: 2019-20

C226.1	Study and Verify the operation of different Analog modulation techniques along with its frequency spectrum.
C226.2	Study and Verify the operation of different Digital modulation techniques along with its frequency spectrum.
C226.3	Understand the operation of Frequency Division Multiplexing & Demultiplexing.
C226.4	Study and Verify the operation of different pulse modulation techniques.
C226.5	Implement different digital modulation techniques such as FSK, BPSK, DPSK and QPSK.

Course Outcomes: C227– IC Applications Lab Year: II- II Sem A.Y: 2019-20

C227.1	Study and verify the functionality of opamp and its applications such as adder, subtractor, comparator, differentiator and integrator.
C227.2	Demonstrate the Active filter Applications - LPF, HPF (First Order)
C227.3	Implement the waveform Generators and Schmitt trigger circuits using IC 741.
C227.4	Design the Mono-Stable Multivibrator and Astable multivibrator using IC 555.
C227.5	Implement the Voltage Regulator using different ICs.

Course Outcomes: C228 – Electronic Circuit Analysis Lab Year: II- II Sem A.Y: 2019-20

C228.1	Study & Analysis of gain and bandwidth of BJT, FET Amplifiers.
C228.2	Design & Analysis of Feedback Amplifiers.
C228.3	Study& Verify the operation of RC & LC Oscillators.
C228.4	Demonstrate the Performance of power amplifiers.
C228.5	Design of a Monostable Multivibrator and Miller Sweep Circuit.

Course Outcomes: C229 – Gender Sensitization Lab Year: II- II Sem A.Y: 2019-20

C228.1	Understanding of important issues related to gender in contemporary India.
C228.2	Introduce students to information about some key biological aspects of genders.
C228.3	Acquire insight into the gendered division of labor and its relation to politics and economics.
C228.4	Illustrate the students to reflect critically on gender violence
C228.5	Inculcate the students to more egalitarian interactions between men and women.



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COURSE OUTCOMES (COS)

Course Name: C321 Entrepreneurship and Small Business Enterprises Year: III-II Sem A.Y: 2019-20

C321.1	Understand the need, scope and definition of entrepreneurship and its process.
C321.2	Understand innovation and create a sustaining enterprising model.
C321.3	Understand the managing process of MSME and sick enterprises.
C321.4	Understand the concept of Marketing and Growth of Enterprises.
C321.5	Comprehend the aspects related to understanding the strategic perspectives in Entrepreneurship of Start-Ups.

Course Name: C322 Digital Image Processing Year: III-II Sem A.Y: 2019-20

C322.1	Explore the fundamental relations between pixels and utility of 2-D transforms in image processing.
C322.2	Understand the Image enhancement in spatial domain and frequency domain using different processing techniques
C322.3	Interpret the process of Image segmentation and restoration using different methods.
C322.4	Implement the various Morphological operations on an image
C322.5	Overview on the need of compression and evaluation of basic compression algorithms.

Course Name: C323 Antennas and Wave Propagation Year: III-II Sem A.Y: 2019-20

C323.1	Understand the different characteristics of an antenna and determine radiation field patterns of it.
C323.2	Analyze radiation field characteristics of $\lambda/2$ dipole antenna, $\lambda/4$ monopole antenna, and different antenna arrays and demonstrate the characteristics of end fire, broad side and phased array antennas
C323.3	Demonstrate the working principle of different antennas and their applications.
C323.4	Demonstrate the working principle, design and applications of various horn and reflector antennas.
C323.5	Illustrate the various methods of radio wave propagation and explain different propagation parameters/terms such as virtual height, critical frequency, maximum usable frequency (MUF), skip distance.

Course Name: C324 Microprocessor and Microcontroller Year: III-II Sem A.Y: 2019-20

C324.1	Visualization of architecture of 8086 microprocessor and recognize different types of addressing modes.
C324.2	Write assembly language programming using 8086 microprocessor instruction set.
C324.3	Familiarization of different interface peripherals to 8086 microprocessors.
C324.4	Comprehend the architecture of 8051 architecture and capable of assembly/C language programming using 8051 microcontrollers.
C324.5	Handshaking of different peripherals interfaces to 8051 microcontrollers.

Course Name: C325 Digital Signal Processing Year: III-II Sem A.Y: 2019-20

C325.1	Understand the LTI system characteristics and Multirate signal processing.
C325.2	Understand the inter-relationship between DFT and various transforms.
C325.3	Design of a digital IIR filter for a given specifications using different techniques.
C325.4	Design of a digital FIR filter for a given specifications using different techniques.
C325.5	Understand the significance of various filter structures and effects of round off errors

Course Name: C326 Digital Signal Processing Lab Year: III-II Sem A.Y: 2019-20

C326.1	Understand how to calculate and plot DFT/IDFT of a given DT signal.
C326.2	Apply the technique to find the Impulse Response and Frequency Response of a given system.
C326.3	Implement FFT of a given sequence and identify the reduction of computations using FFT.
C326.4	Implement Low Pass FIR filter and High Pass IIR filter for a given sequence and calculate the filter coefficients.
C326.5	Understand the Decimation process and Interpolation process and vary the sampling rate.

Course Name: C327 Microprocessor and Microcontroller Lab Year: III-II Sem A.Y: 2019-20

C327.1	Handling of MASM tool for 8086 microprocessor programming
C327.2	Write assembly language programming using 8086 microprocessor instruction set.
C327.3	Familiarization of different interface peripherals to 8086 microprocessors.
C327.4	Capable of assembly/C language programming using 8051 microcontrollers.
C327.5	Handshaking of different peripherals interfaces to 8051 microcontrollers.

Course Name: C328 Advanced English Communication Skills Lab Year: III-II Sem A.Y: 2019-20

C328.1	Acquire vocabulary and use it contextually
C328.2	Listen and speak effectively
C328.3	Develop proficiency in academic reading and writing
C328.4	Developing interview skills by conducting activities on Group Discussion in order to enhance the job prospects.
C328.5	Communicate confidently in formal and informal contexts



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COURSE OUTCOMES (COS)

Course Name: C421 Entrepreneurship and Small Business Enterprises Year: IV-II Sem A.Y: 2019-20

C421.1	Understand the need, scope and definition of entrepreneurship and its process.
C421.2	Understand innovation and create a sustaining enterprising model.
C421.3	Understand the managing process of MSME and sick enterprises.
C421.4	Understand the concept of Marketing and Growth of Enterprises.
C421.5	Comprehend the aspects related to understanding the strategic perspectives in Entrepreneurship of Start-Ups.

Course Name: C422 Optical Communication Year: IV-II Sem A.Y: 2019-20

C422.1	Understand and analyze the constructional parameters of optical fibers.
C422.2	Understand the Signal Distortion in Optical Fibers and ascertain the losses
C422.3	Understand the various optical sources and its power launching techniques.
C422.4	Compare various optical detectors and choose suitable ones for different applications.
C422.5	Understand the design of optical systems and WDM.

Course Name: C423 Global Positioning System Year: IV-II Sem A.Y: 2019-20

C423.1	Understand the GPS Architecture and its applications.
C423.2	Interpret the navigational message and signals received by the GPS receiver.
C423.3	Identify error sources in GPS observations and mitigate them.
C423.4	Apply the corrections for accurate positioning and to Map the geospatial features.
C423.5	Understand the GPS applications in the real time world.

Course Name: C424 Major Project Year: IV-II Sem A.Y: 2019-20

C424.1	Classify the projects and describe the phases involved in project formulation with feasibility studies and SWOT (strengths, weaknesses, opportunities, and threats) analysis.
C424.2	Devise a project's development cycle and get acquainted with the different appraisals in the process of deciding the worthiness of the project.
C424.3	Exhibit and apply the managerial skills and knowledge of financial aspects required during the implementation of the project.
C424.4	Identify sources for project finance and select the method of project implementation which is best suited for a particular project.