







457, KLS SHRI N. SANTRAO POTDAR POLYTECHNIC, BELAGAVI.
DEPT OF ELECTRONICS & COMMUNICATION ENGINEERING
2024-25(ODD SEMESTER) PORTION FOR INTERNAL TEST SEMESTER: III SEM
INTERNAL TEST

SL. NO.	DATE OF IA	NAME OF THE CC	THE COURSE	PORTION	CO	% OF PORTION	SIGN OF CC
1	02.08.2024	Mrs. Amrta S Devangavi	20EC31P/ ANALOG ELECTRO NICS	<p>Week1: Power Supplies, Need, Types – Unregulated, Regulated Linear, Switched, Battery, Selection Criteria of different power supplies, RPS & UPS – Online & Offline, SMPS</p> <p>Week2: RC Integrator & RC Differentiator, Clippers, clippers</p> <p>Week3: Tunnel Diode, Varactor Diode, Gunn diode, PIN diode, Solar cell, Schottky diode & JUT::</p> <p>Week4: Transistor Amplifiers, DC load line, Operating point, Need for biasing, Stabilization, stability factor, BJT Amplifiers</p>	1,2,3,4	38	
2	02.08.2024	Mrs. K.S. Bharati	20EC32P/ LOGIC DESIGN USING VERILOG	<p>week1: Introduction to VSLI & HDL Introduction to verilog and types of Modelling Basic concepts of verilog</p> <p>week2: Data types and operators</p> <p>Week 3: verilog module and gate level modelling.</p> <p>week4 : Data flow modelling with programs</p> <p>week7: Sequential circuits RS Flipflop, JK flip flop, MS JK flipflop D flipflop, T flipflop</p> <p>week1: Network theorems: Superposition theorem, Maximum Power Transfer theorem, Thevenin's theorem and Norton's theorem-statements and explanation</p> <p>week2: Resonance: Series resonance - circuit diagram, phasor diagram, resonance plot and characteristics, Parallel resonance-resonance plot and characteristics, Condition for resonance, expression for frequency of resonance.</p> <p>Week3: Filters: Classification of filters, cut-off frequency, passband and stopband, Ideal characteristics curve of passive LPF, HPF, BPF and BRF, Circuit diagram & formula for cut-off frequency of T and PI configurations of LPF and HPF.</p> <p>Week4: Attenuators: Classification and applications of attenuators. Definition of Bel, Decibel and Neper, Symmetrical T type attenuator- Circuit diagram, expression for attenuation, Symmetrical PI type attenuator- Circuit diagram, expression for attenuation</p> <p>Week5: Transmission Media: 1. Need, different types of transmission media (guided, unguided), Transmission lines- Electrical model, Primary constants - R, L, G and C, Secondary constants - Characteristic Impedance and Propagation Constant, Optical fiber -principle of operation, Numerical aperture, Angle of acceptance, Classification, fiber losses. Basic components of Fiber optics system, splices, connectors, couplers and switches.</p>	1,3	38	
3	03.08.2024	Mrs. Sucheta Kulkarni	20EC33P/ COMMUNICATION SYSTEMS	<p>Week 1: Necessity of measurement, direct and indirect method, static and dynamic characteristics, block diagram of measurement, Error etc.</p> <p>Week 2: Statistical analysis, problems on statistical analysis, calibration, error check and data sheet reading.</p> <p>Week 3: Standards in measurement, AC DC bridges, Wheatstone's meter bridge.</p> <p>Week 4: Electrical transducer, types application, Strain gauge, gauge factor, types, load cell, capacitive transducer etc.</p> <p>Week 5: Hall effect transducer, thermistors and thermocouple.</p>	1,2,3,4	38	
4	03.08.2024	Mrs. Amrta S Devangavi	20EC34P/ ELECTRONIC MEASUREMENTS & TESTING TECHNIQUES	<p>Week 1: Necessity of measurement, direct and indirect method, static and dynamic characteristics, block diagram of measurement, Error etc.</p> <p>Week 2: Statistical analysis, problems on statistical analysis, calibration, error check and data sheet reading.</p> <p>Week 3: Standards in measurement, AC DC bridges, Wheatstone's meter bridge.</p> <p>Week 4: Electrical transducer, types application, Strain gauge, gauge factor, types, load cell, capacitive transducer etc.</p> <p>Week 5: Hall effect transducer, thermistors and thermocouple.</p>	1,2,3,4	38	
5	02.08.2024	Mrs. Priyanka N	20KA31T/ KANNADA- I/II/SAHITYA SINGHANA- II, BALAKE KANNADA-II	<p>BK-II: Lesson 1, Lesson 2, Lesson 3, Lesson 4</p> <p>ಹೊಸಗನ್ನಡ ಸಾಹಿತ್ಯ ಹೊಸಗನ್ನಡ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆಯ ಪುಸ್ತಕಗಳು ಮತ್ತು ಪ್ರದರ್ಶನಗಳು ಹೊಸಗನ್ನಡ ಕಾವ್ಯದ ಪ್ರಕಾರಗಳು</p>		30	

II INTERNAL TEST

PORTION

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1	28.08.2024	Mrs. Amruta S Devangavi	20EC31P/ ANALOG ELECTRONICS	<p>Week 5: Common Emitter Transistor, RC Coupled transistor amplifier, power amplifiers</p> <p>Week6: Working of Class A, Class B, Class AB and Class C</p> <p>Week7: Op-amp, Modes of operation- Single ended, Common mode & Differential mode, Ideal and practical characteristics, Op-amp parameters</p> <p>Week8: Open-loop, Closed-loop configuration, Voltage follower, summing & difference amplifiers</p> <p>Week9: Op-amp as Differentiator, Integrator, Schmitt trigger and precision rectifier, Gain of Multistage Op-Amp</p> <p>Circuits: Sinusoidal Oscillators, Types of Oscillations, LC Tank circuit</p>	1,2,3,4	70	
2	28.08.2024	Mrs. K.S.Bharati	20EC32P/L OGIC DESIGN USING VERILOG	<p>Week8: Verilog description of SR flip flops & JK flip flop using data flow & behavioral modeling resply. Registers- Classification of registers, SISO using flip-flops.</p> <p>week 9: SISO, PISO and PPO using flip flops, universal shiftregister. Ring counter and Johnson's counter. Verilog description of any one shift register using any modeling</p> <p>week 10 Counters - definition, classification, modulus. Working and realization of asynchronous counters using flip-flops, comparison, partial mod counters</p> <p>week 11: Higher mod counters using lower mod counters & verilog description of counters</p>	1,2,3	70	
3	29.08.2024	Mrs. Sucheta Kulkarni	20EC33P/ COMMUNICATION SYSTEMS	<p>Week6: Antennas: Concept of electric and magnetic fields in a dipole, antenna terminology-polarization, radiation pattern, antenna gain, directive gain, directivity, power gain, antenna resistance, Antenna efficiency, beam width, bandwidth, isotropic radiators. Effects of ground on antennas, effect of antenna height, Antenna types, examples and applications, Working of Dish Antenna, Feed mechanisms- Cassegrain and Horn feed.</p> <p>Week7: Wave Propagation: Wave Propagation: Fundamentals of Electromagnetic Waves, electromagnetic spectrum, Modes of wave propagation-ground wave propagation and sky wave propagation and space wave propagation, comparison, Analog modulation Block diagram of communications system, Need for modulation and types of analog modulation techniques.</p> <p>Week8: AM Transmitter and Receiver - block diagram & waveforms, Expressions for modulating signal, Carrier signal, modulated signal, modulation index and power, Frequency Transmitter and Receiver-block diagram, waveform, Expressions for frequency deviation, modulation index.</p> <p>Week9: Digital communication: Block diagram of digital communication system. Definition of information capacity, entropy, bit-rate, baud rate and bandwidth of digital data, Sampling- Sampling theorem for low pass and band pass signals, Nyquist criterion and aliasing effect, Explain Analog pulse modulation techniques- PAM, PPM, PWM using waveforms.</p>	1,2,3	70	
4	29.08.2024	Mrs. Amruta S Devangavi	20EC34P/EL EC. MEASTS & TESTING TECH.	<p>Week 5: Proximity sensors, digital optical encoders & PIR sensors,</p> <p>week 6: PMMC working principle, DC ammeter & voltmeter, electro dynamometer-principle,</p> <p>Week 7: Electronic voltmeter, ac voltmeter, ohmmeter.</p> <p>Week 8: Digital instruments, Automation in digital meters, Electronic counters.</p> <p>Week 9: Digital frequency meter.</p>	1,2,3,4	70	
5	28.08.2024	Mrs. Priyanka N	20KA31T/ KANNADA- I/II/SAHITYA- SINCHANA- II, BALAKE KANNADA-II	<p>BK-II : Lesson 5, Lesson 6, Lesson 7, Lesson 8</p>		60	
				<p>ವೈಚಾರಿಕತೆ ಕುರಿತಾದ ಲೇಖನ ಕಥೆ ನೇಮಿಸಿ ಚಂದ್ರಪ್ರವಾಸ ಕಥನ ಹಿ ಚಿ ಬೋರಲಿಂಗಯ್ಯ ಪರಿಸರ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಕುರಿತಾದ ಲೇಖನಗಳು ಪ್ರಬಂಧ ಗೋರೂರು ರಾಮಸ್ವಾಮಿ ಅಯ್ಯಂಗಾರ್</p>		70	

III INTERNAL TEST

PORTION

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1	24.09.2024	Mrs. Amruta S Devangavi	20EE331P/ ANALOG ELECTRONICS	<p>Week10: Concept of feedback, Barkhausen criteria, Types of Oscillators, Working of Hartley oscillator using BJT/Op-amp, Working of Colpits and crystal oscillator using BJT/Op-amp</p> <p>Week 11 : Working of RC phase-shift and Wein-bridge oscillators using Op-amp Filters: Classification, Applications & Advantages of Active over Passive Filters, Terminology, frequency response of 1st order Butterworth LPF, HPF</p> <p>Week 12: Frequency response of 1st order Butterworth BPF and Band Elimination Filter, BEF, Instrumentation amplifier-Need for instrumentation amplifier, Working of instrumentation amplifier circuit, Phase Locked Loop voltage to frequency converter, PLL operation with its applications</p> <p>Week 13: IC 555 Timer: Internal diagram, Pin Configuration, Interpret Datasheets, IC 555 timer as Astable multivibrator, IC 555 timer as monostable multivibrator.</p>	1,3,4	100%	
2	24.09.2024	Mrs. K.S. Bharati	20EE32P/L OGIC DESIGN USING VERILOG	<p>Week 5: System tasks, Compiler directives- Behavioral modeling- Always and Initial statements, Procedural Assignments- Blocking and non-blocking assignments, Timing Control-Delay, Event Conditional statements</p> <p>Week6: Behavioral Verilog description for BCD to seven segment decoder for common anode display using if_ else, Case, Traffic light controller using Behavioral description, Test bench- Need, Importance, testbench for halfadder.</p> <p>Week 11: DAC & ADC specifications, week12 :types of ADC & DAC memory devices week13:PLDs PLA & PAL</p> <p>Week10: Digital Coding: Quantization -process, classification, Quantization noise and companding process, PCM and DPCM system, Delta modulation and adaptive delta modulation system.</p> <p>Week11 : Baseband transmission-significance of inter symbol interference (ISI) & eye pattern, Digital modulation techniques-types, Generation & detection of Binary ASK & Binary FSK, Generation & detection of Binary PSK & QPSK.</p> <p>Week12: Multiplexing: FDM & TDM-concept, applications, PAM/TDM system -Block diagram, transmission bandwidth, synchronization, cross talk & guard time, Digital multiplexers-Principle, classification & performance factors.</p> <p>Week13: Error detection & correction, Errors-types, redundancy, error control schemes, Error control codes: types Parity check bit codina_error detection methods, RC, VRC, CRC, Checksum with examples</p>	2,3,4	100%	
3	25.09.2024	Mrs. Sucheta Kulkarni	20EE33P/ COMMUNICATION SYSTEMS	<p>Week 9: Digital LCR meter, digital multimeter.3. Microprocessor based instruments, IEEE 488 GPIB instruments. Week 10: CRO, DSO</p> <p>Week 11: function generator, Standard RF signal generator, sweep frequency generator.</p> <p>Week 12: Electrical grounding and shielding, Week 13: Precautions to prevent instrument damage, Testing and troubleshooting, Testing Techniques, electronic repair, n Basic steps of electronic equipment service and maintenance tools</p>	1,3,4	100%	
4	25.09.2024	Mrs. Amruta S Devangavi	20EE34P/ ELECTRONIC MEASUREMENTS & TESTING TECHNIQUES	<p>Week 11: Lesson 9, Lesson 10, Lesson 11, Lesson 12</p>		100%	
5	24.09.2024	Mrs. Priyanka N	20KA31T/ KANNADA-I/II/SAHITYA SINCCHANANA- II, BALAKE KANNADA-II	<p>BK-II: Lesson 9, Lesson 10, Lesson 11, Lesson 12</p> <p>ಪ್ರಚಲಿತ ವಿದ್ಯಮಾನಕ್ಕೆ ಸಂಬಂಧಿಸಿದ ಲೇಖನ ಜೇರು ಮಾರ್ಕೆಟ್ ಮತ್ತು ಹಣಕಾಸು ನಿರ್ವಹಣೆ ಕುರಿತಂತೆ ಕರ್ನಾಟಕ ಏಕೀಕರಣ ಚಳುವಳಿ ಪುರ ಜಿ ವೆಂಕಟಸುಬ್ಬಯ್ಯ ಕನ್ನಡ ಸಿನಿಮಾ ರಂಗ ಬೆಳವಣಿಗೆ ಬಂದ ದಾರಿ ಮತ್ತು ನಾಡು ನುಡಿ ಹಾಗೂ ನಾಡಿನ ಸಂಸ್ಕೃತಿಯ ಮೇಲೆ ಬೀರಿದ ಪ್ರಭಾವಗಳು ಕನ್ನಡದ ಸಾಮಾಜಿಕ ಉಪಭಾವಗಳು ಆಧುನಿಕ ಕನ್ನಡ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆಯ ಒಂದು ಅವಲೋಕನ</p>		100%	

PC

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