

BAPATLA ENGINEERING COLLEGE :: BAPATLA
DEPARTMENT: ELECTRONICS AND COMMUNICATIONS ENGINEERING
Projects Offered by ECE Department for the Academic year 2018-19

EC-01	Compact ultra wideband MIMO antenna with half-slot structure
EC-02	Compact UWB MIMO ground linearly tapered slot antenna decoupled by a stepped slot
EC-03	Compact 1x2 and 2x2 MIMO antennas with enhanced isolation for ultra wideband application
EC-04	Retinal blood vessel segmentation algorithm for fundus images-MATLAB
EC-05	Quantum brain storm optimization for fog computing-5G environment
EC-06	Performance evaluation of Digital Modulation schemes using Software Defined Radio
EC-07	Skin Cancer detection using Image processing
EC-08	Design of Microstrip Antennas using HFSS
EC-09	Design of higher bit ADC's using Tanner Tools
EC-10	Dual-band microstrip antenna design for wireless applications.
EC-11	Analysis of different error detecting and correcting codes.
EC-12	IoT based Smart Vehicle Automation and Control with Enhanced Safety, Security and Tracking System using Wireless Sensors Networks.
EC-13	32 bit x32 bit multiplication RAZOR-based dynamic voltage scaling multiplier with operands scheduler.
EC-14	Enhanced area efficient multiplier design with HDL program.
EC-15	ARM based Home Automation system.
EC-16	Image enhancement using MATLAB
EC-17	Medical Image processing using MATLAB
EC-18	Image processing using MATLAB
EC-19	Disguised facial detection.
EC-20	Super resolution of an image.
EC-21	Image classification
EC-22	Energy saving models in Manets using network simulator.
EC-23	Speech processing applications & implementation latest techniques.
EC-24	Medical image processing using MATLAB
EC-25	Vehicle Anti-Theft tracking system based on Internet of Things.
EC-26	Internet based home Automation system using ARM7.
EC-27	Intelligent Agriculture system with weather monitoring.
EC-28	A compact elliptical slot antenna for covering Bluetooth/wimax/wlan/itu
EC-29	A compact patch antenna for ultra wideband application
EC-30	Compact CPW fed switchable UWB antenna as an antenna filter at narrow-frequency bands
EC-31	Design and analysis of open complementary split ring resonators loaded monopole antenna for multiband operation

EC-32	Wavelet based resolution enhancement for low resolution satellite images.
EC-33	Speech recognition using MFCC.
EC-34	Resolution enhancement of images for further patter recognition applications.
EC-35	Improved 64 bit Radix-16 multiplier based on partial product array height reduction
EC-36	Reliable Low –latency Viterbi algorithm architectures benchmarked on ASIC and FPGA
EC-37	Register less Null convention logic
EC-38	MIMO wireless communication using data carrying artificial noise
EC-39	Optimal factoring of FIR filters
EC-40	Brain segmentation using C-Means clustering to detect tumour region
EC-41	Reconfigurable high gain split ring resonator microstrip patch antenna
EC-42	Microstrip patch antenna with multiple parasitic patches & shortly vias for bandwidth enhancement
EC-43	A low profile UWB antenna for WBAN applications
EC-44	Miniaturization of Vivaldi for different wireless communication application
EC-45	UWB high gain antenna array for SAR based breast cancer detection system
EC-46	Design of optimal digital FIR filter using TLBO and jaya algorithms
EC-47	Analysis and comparison of leakage power reduction techniques in CMOS circuits
EC-48	A novel leakage power reduction technique for CMOS circuit design
EC-49	A novel Subtractor based on modified wilsan current mirror using PMOS circuits
EC-50	Design techniques for low power audio delta sigma ADCs with FIR feedback
EC-51	Image processing on FPGA using Verilog HDL
EC-52	FPGA based designing of GPS, GSM, mobile navigator
EC-53	Steganography
EC-54	VLSI design
EC-55	A method based on multi scale wavelet decomposition of image fusion algorithm
EC-56	Adaptive hyper graph learning and its application in Imap classification
EC-57	The vitality of pattern recognition and image analysis
EC-58	Quality constrained Co-Saliency estimation for common object detection.
EC-59	Fast and Adaptive detection of pulmonary nodules in Thoracic CT images using a HVQ scheme.
EC-60	Medical image processing using MATLAB
EC-61	Design and analysis of compact CPW fed elliptical patch antenna for UWB applications
EC-62	Tri-wideband inverted u-slot patch antenna for wireless communication applications
EC-63	Dual-frequency vertex-fed pentagonal slot on rectangular patch for WLAN/WIMAX application
EC-64	CPW fed UWB antenna by EBGs with wide rectangular notched band.
EC-65	WLAN band notched planar UWB antenna loaded by CSRR
EC-66	Implementation of vedic multiplier using cmos technology

EC-67	Mixed signal design/ADC architectures
EC-68	Antenna design using HFSS
EC-69	Leakage power reduction techniques in analog circuit design
EC-70	Design and performance analysis of various multipliers using Verilog
EC-71	Digital design
EC-72	FIR filter design using Verilog