

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Details of Major Project VIII-SEM-A-Sec

Batch	Students	Project Guide	Title of Project
A1	21761A0441	Dr. E. V. Krishna Rao	Design of an Asymetric Stair-Case CPW –Fed Octagonal patch Antenna for Wireless Communications
	21761A0443		
	21761A0453		
	21761A0456		
A2	21761A0408	Dr. Y. Amar Babu	Smart Diagnostic System for Predicting Parkinson’s Disease
	21761A0418		
	21761A0449		
A3	21761A0402	A.NarendraBabu	Fish pond monitoring through IOT
	21761A0458		
	21761A0463		
A4	21761A0434	Dr.G.Srinivasulu	Ultra-Low-Power CMOS Current and Voltage Reference Circuit With Low Line Sensitivity and Wide
	21761A0446		
	21761A0451		
A5	21761A0403	P.Lachi Reddy	Integrated Agriculture Assistance : crop recommendation , fertilizer advice and plant disease detection
	21761A0436		
	21761A0464		
A6	21761A0417	G.L.N.Murthy	Improved sleep stage classification using machine learning
	21761A0419		
	21761A0447		
A7	21761A0406	Dr T Satyanarayana	Performance Analysis of MIMO ZF and LMMSE Equalizers in Wireless Fading Environments
	21761A0420		
	21761A0430		
A8	21761A0425	B.Rambabu	Smart Election monitoring system using LabVIEW with Real-time biometric Integration
	21761A0426		
	21761A0448		
A9	21761A0404	P.Rakesh Kumar	A Compact comb shaped wearable antenna for Biomedical applications
	21761A0440		
	21761A0457		
A10	21761A0407	Dr.K.Ravi Kumar	Advanced Dual Axis Solar Tracking with environmental monitoring and energy analytics
	21761A0428		
	21761A0454		
A11	22765A0403	Dr.V.RaviSekhara Reddy	Design Of Compact Rat-Race Coupler With Harmonic Suppression For Wireless Communication
	22765A0437		
	22765A0460		
A12	21761A0429	P.Venkat Rao	Accident Detection and Environmental Monitoring System Using Road Studs as Sensor Nodes
	21761A0444		
	22765A0407		
A13	21761A0414	Mr. V.V.Rama Krishna	Design and Analysis of Mips 128 Bit Processor
	21761A0450		
	21761A0455		

Batch	Students	Project Guide	Title of Project
A14	21761A0439	Dr.K.RaniRudrama	Design and analysis of Wideband Split-Ring Integrated Hybrid Fractal-shaped patch antenna for WIFI/WIMAX/WLAN/5G Midband Applications
	21761A0461		
	22765A0405		
A15	22765A0402	Ch.SivaRama Krishna	Predicting the stages of dementia using OASIS dataset
	22765A0404		
	22765A0408		
A16	21761A0409	M.K.Linga Murthy	Verilog based AES Cryptographic solution for secure data and Image transmission
	21761A0459		
	22765A0401		
A17	21761A0412	Mrs.B.Rajeshwari	AI-Powered Skin Lesion Classification: A Flask-Based Web Application For Early Skin Cancer Diagnosis
	21761A0423		
	21761A0424		
A18	21761A0422	M.SivaShankar Rao	Energy Efficient Dadda Multiplier Design using an Approximate 4:2 Compressor in Verilog HDL
	21761A0432		
	21761A0435		
A19	21761A0415	Mr.Sambasivareddy	Intelligent wheel chair: combining mobility , safety and health surveillance
	21761A0421		
	21761A0442		
A20	21761A0416	Mrs. T. Kalpana	Automated pulmonary Nodule classification and Detection using Deep Residual Networks
	21761A0438		
	21761A0462		
A21	21761A0401	Mr.Ch.Mallikarjuna Rao	Design And Analysis Of Stripped Circular Patch UWB Antenna For WIFI/WIMAX/WLAN/ C Band Applications
	21761A0405		
	21761A0427		
A22	21761A0431	Ms.K.Balavani	Design of Floating Point Multiplier with exact Algorithm
	21761A0433		
	21761A0452		
A23	21761A0413	Mr.N.Dharmachari	Real-Time Helmet Compliance and Triple Riding Violation Monitoring System
	22765A0406		Secure and Fault-Tolerant Block Memory Design For IOT Applications
	21761A0411		

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Details of Major Project VIII-SEM-B-Sec

Batch	Students	Project Guide	Title of Project
B1	21761A0465	Dr. Y. Amar Babu	FPGA-Based Real Time Automation System For Optimizing Algae Cultivation For 3rd Generation Biofuel Production
	21761A0467		
	21761A0475		
	21761A0477		
B2	21761A0474	Dr. B. Ramesh Reddy	Speed-Efficient 32-bit Wallace Tree Multiplier with Kogge-Stone Adder: A Reversible Logic Approach
	21761A0498		
	21761A0499		
	21761A04C6		
B3	21761A0468	Dr.A.NarendraBabu	Smart iron box with automatic lifting mechanism
	21761A04B5		
	22765A0414		
B4	21761A0480	Dr. M. V. Sudhakar	Implementation of wide range voltage level up shifter for SOC applications
	21761A04B6		
	21761A04B8		
B5	21761A0493	Dr.G.L.N. Murthy	Detection of voice disorders using machine learning with data augmentation
	21761A04C9		
	22765A0410		
B6	21761A0470	Dr. B. Poornaiah	Efficient 4- parallel Polyphase Even Length FIR Filter using Brent-King Adder and Booth Multiplier
	21761A0489		
	21761A04A6		
B7	21761A0497	Dr. T. Satyanarayana	Design and analysis of Novel MEMS cantilever Biosensor for
	21761A04C5		
B8	21761A04B4	Dr.B.Y.V.N.R. Swamy	Design of a wearable flexible micro strip Patch Antenna For the Detection of Breast Cancer
	21761A04C1		
	21761A04C4		
B9	21761A0478	Dr. P. Rakesh Kumar	Design and analysis of Circular shaped wearable antenna for Biomedical applications
	21761A0479		
	21761A04A3		
B10	21761A0481	Dr.B.SivaHari Prasad	Design and Analysis of a Circular Patch Antenna (CPA) with Triple Band-Notched Characteristics
	21761A04A8		
	21761A04B1		
B11	21761A0494	Dr.P. Venkata Rao	Advanced Flood Monitoring and Prevention Through Machine Learning and Internet Of Things
	21761A04A2		
	22765A0412		
B12	21761A0482	Dr.B.V.N.R. Siva Kumar	Smart Office Automation Using IOT
	21761A04B3		
	21761A04C3		
B13	21761A0485	Mr.V.V. Rama Krishna	Area-Efficient And High-Speed Implementation Of Three -Operand Binary Adder
	21761A0488		
	21761A04B9		

Batch	Students	Project Guide	Title of Project
B14	21761A0486	Mr.T.Anilraju	Deep Learning Approaches for Real-Time AQI Prediction and Classification
	21761A04A5		
	21761A04A9		
B15	21761A0491	Mrs. T. Kalpana	Low Power Borrow select Subtractor using BLO and RBHS Techniques for area constrained Design
	21761A04A4		
	21761A04B2		
B16	21761A0496	Mr.K.Sasibhushan	Optimized CNN with Sparrow Search Algorithm for Early Pancreatic Cancer Detection
	21761A04B0		
	22765A0415		
B17	21761A0476	Smt.B.Rajeswari	Hybrid 3D CNN and Differential CRF Framework For Accurate Brain Lesion Segmentation on RTX 3060 GPU
	21761A0484		
	22765A0411		
B18	21761A0473	Smt.M.Ramyaharika	Multistage Sleep Pattern Recognition via Deep CNN-LSTM on Polysomnographic Records
	21761A0492		
	22765A0413		
B19	21761A0490	Mr. P. James Vijay	RSA Based Public Key Encryption Incorporating Authorized Equality Test
	21761A04A1		
	21761A04C0		
B20	21761A0471	Mr.P.Venkateswara Rao	Optimized 16-Bit Brent Kung Adder using Carry look ahead for Efficient computation
	21761A0495		
	21761A04A7		
B21	21761A0466	Mr.Ch.Siva Rama Krishna	LUT-Optimized AES-128: Enhancing speed in hardware cryptography
	21761A0469		
	21761A04A0		
B22	21761A0483	Mr.M.Sambasiva Reddy	A warning system for detection of child in a locked vehicle
	21761A04B7		
	21761A04C8		
B23	21761A0487	Mr.P. James Vijay	Design and Simulation of Hybrid filter for Audio applications using FPGA
	21761A04C2		
	21761A04C7		
B24	21761A0472	Dr. T. Satyanarayana	Verification Of Low precision Arithmetic for AI Coprocessor Using Universal Verification Methodology UVM
B25	20761A04A9	Dr.G.Srinivasulu	WIFI Controlled Car



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Details of Major Project VIII-SEM-C-Sec

Batch	Students	Project Guide	Title of Project
C1	21761A04F0	Dr. B. Ramesh Reddy	Highly Secured Smart Voting System
	21761A04H9		
	21761A04I9		
C2	21761A04D9	Dr.E.V. Krishna Rao	A Compact Design of Single Band CPW-Fed Cascaded T-Shaped Flexible Patch Antenna for Wireless Communication
	21761A04E5		
	21761A04H0		
	21761A04H3		
C3	21761A04E1	Dr.M.V.Sudhakar	Design and simulation of under water visible light communication for marine applications
	21761A04H7		
	21761A04I3		
C4	21761A04G6	Dr.P.Lachi Reddy	IoT-Based Soldier Safety System Leveraging LoRa For Real-Time Monitoring
	21761A04J0		
	21761A04J3		
C5	21761A04D0	Dr. G. Srinivasulu	A low power and high-speed voltage level shifter based on a regulated cross-coupled pull-up network
	21761A04E3		
	21761A04H2		
C6	21761A04F5	Dr. B. Poornaiah	Smart Irrigation System using Deep Neural Networks
	21761A04G2		
	22765A04I6		
C7	21761A04D6	Dr. B. Rambabu	Real-Time pothole detection system using deep learning
	21761A04I1		Optimizing Risc V processor for low
	21761A04J4		
C8	21761A04F1	Dr.B.Y.V.N.R. Swamy	Design and Analysis of Y-shaped Tri band Antenna with DGS for 5G Communication and modern X-band applications
	21761A04G4		
	21761A04H4		
C9	21761A04G5	Dr.B. Siva Hari Prasad	Design of Compact UWB Antenna with WiMAX/X Band Notched Characteristics
	21761A04I4		
	21761A04J2		
C10	21761A04E0	Dr. K. Ravi Kumar	Compact CPW fractal antenna for flexible Bio -medical applications in ISM Band
	21761A04G8		
	21761A04I5		
C11	21761A04H5	Dr. V. Ravi Sekhara Reddy	Design of Wide band Compact Rat-Race Coupler for Wireless Communication
	22765A0422		
	22765A0423		
C12	21761A04D5	Dr.B.V.N.R. Siva Kumar	Autonomous Robot
	21761A04F8		
	21761A04G3		
C13	21761A04D3	Dr.K.RaniRudrama	Design and Analysis of a Triple-Band Stacked T-Polyimide Antenna for WBAN Applications
	21761A04G1		
	21761A04I7		

Batch	Students	Project Guide	Title of Project
C14	21761A04E6	Mr.T.Anil Raju	Autonomous Navigation Mobile Robot For Warehouse Logistics Using Rplidar A2m12 And JetsonNano In ROS1
	21761A04D4		
	21761A04I8		Comparision Of 6t Sram And 4t Sram Cell Design And Analysis Using Cadence 45nm Cmos Technology
C15	21761A04G7	Mr.K.SasiBhushan	Lung Cancer Prediction Using Convolutional Neural Network
	21761A04H8		
	21761A04J1		
C16	21761A04D1	Mr.M.K.Lingamurthy	Iot Based Smart Glove For Personalized Assistance To Dumb And Elder People
	21761A04D2		
	21761A04E7		
C17	21761A04E9	Mr.M.SivaSankara Rao	Anti Theft System for ATM's Using IOT Technology
	22765A0419		
	22765A0420		
C18	21761A04G0	Smt.M.RamyaHarika	Design and analysis of a Tri band stepped gear - shaped rhombic patch antenna for C, X- band applications
	21761A04H1		Simulation analysis of shielding effectiveness for different materials at low frequency range.
	22765A0418		
C19	21761A04E2	Mr.P. Venkateswara Rao	DDos Attack detection using machine learning models
	21761A04E4		
	21761A04F9		
C20	21761A04F3	Mr.Ch.Mallikarjuna Rao	Health Monitoring System with Real-Time Data Visualization and Medicine Suggestions
	21761A04G9		
	21761A04H6		
C21	21761A04D7	Smt.k.Pavani	Intelligent Driver Assistance- detecting drowsiness and tracking of vehicle Using IOT
	21761A04I0		
	22765A0417		
C22	21761A04F6	Mr.K.V.Ashok	Smart Vehicle Speed Control System Using Esp32 and Vision- Based Traffic Sign Recognition
	21761A04I2		
	21761A04I6		
C23	21761A04E8	Smt.K.Balavani	IOT Based Health Monitoring System
	21761A04F2		
	21761A04F7		