



**KREST**  
**TECHNOLOGIES**

»————→ *arrow the aim*

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# **M.Tech Projects**

**ECE (Embedded/DSP/DIP/VLSI)**

<b>S.NO</b>	<b>TITLE/NAME OF THE PROJECT</b>	<b>YEAR</b>	<b>DOMAIN</b>
	<b>IMAGE PROCESSING</b>		
1	Quality Assessment Of Deblocked Images	2011	MATLAB
2	Salient Motion Features For Video Quality Assessment	2011	MATLAB
3	Image Resolution Enhancement By Using Discrete And Stationary Wavelet Decomposition	2011	MATLAB
4	Color Extended Visual Cryptography Using Error Diffusion	2011	MATLAB
5	Combined Invariants To Similarity Transformation And To Blur Using Orthogonal Zernike Moments	2011	MATLAB
6	Fast Sparse Image Reconstruction Using Adaptive Nonlinear Filtering	2011	MATLAB
7	Fuzzy Random Impulse Noise Removal From Color Image Sequences	2011	MATLAB
8			
9	1-D Transforms For The Motion Compensation Residual	2011	MATLAB
10	A Generalized Un Sharp Masking Algorithm	2011	MATLAB
11	Video Tracking Based On Sequential Particle Filtering On Graphs	2011	MATLAB
12	An Effective Image Retrieval System Using Color Texture And Shape Features	2011	MATLAB
13	Lightweight Detection Of Additive Watermarking In The Dwt-Domain	2011	MATLAB
14	A High Capacity Cdma Watermarking Scheme Based On Orthogonal Pseudo Ransom Sequence Sub Space Projection	2011	MATLAB
15	Generic Lossless Visible Watermarking	2010	MATLAB
16	A New Approach For Image Segmentation Using Pillar Kmeans Algorithm	2010	MATLAB
17	Robust Feature Based Image Watermarking Process	2010	MATLAB

18	Blurred Image Recognition By Legendary Moment Invariants	2010	MATLAB
19	Image Thumbnails That Represent Blur And Noise	2010	MATLAB
20	Automatic Image Segmentation Using Wavelets	2010	MATLAB
21	Block Based Feature Level Multi Focus Image Fusion	2010	MATLAB
22	Adaptive Stegnography Method Based On Integer wavelet Transform	2010	MATLAB
22	A Moving Target Detection Algorithm Based On The Dynamic Background	2010	MATLAB
23	A High Capacitive And Confidentiality Based Image Stegnography Using Private Segoe Key	2010	MATLAB
24	A Diffusion Approach To Seeded Image Segmentation	2010	MATLAB
25	Power Spectrum Estimation Method For Image Denoising By Frequency Domain Wiener Filter	2010	MATLAB
26	A New Video water working algorithm based on Id-DFT and Radon transform	2010	MATLAB
27	Face Recognition With Local Line Binary Patterns	2009	MATLAB
28	A Fragile Watermarking Scheme For Image Authentication With Tamper Localization Using Integer Wavelet Transform	2009	MATLAB
29	A Novel Image Segmentation Method Based On Random Walk	2009	MATLAB
30	A Robust Image Watermarking Using Two Level Dct And Wavelet Packets De-Noising	2009	MATLAB
31	Unified Relevance Feedback Frame Work For Web Image Retrieval	2009	MATLAB
32	Image Encryption Using Binary Key-Images	2009	MATLAB
33	Reverse Data Hiding Based On Histogram Modification Of Pixel Differences	2009	MATLAB
34	Ensemble Methods Of Face Recognition Based On Bit Plane Decomposition	2009	MATLAB
35	Adaptive Fuzzy Filtering For Artifact Reduction In Composed Images And Video	2009	MATLAB

36	A New Reference Free Image Quality Index For Blur Estimation In The Freq Domain	2009	MATLAB
	<b>COMMUNICATION</b>		
37	Adaptive Overlap-And-Add Technique In Mb-Ofdm Based Uwb Receiver Design	2011	MATLAB
38	Computational Complexity Of Decoding Orthogonal Space-Time Block Codes	2011	MATLAB
39	High-Snr Performance Of Mimo Multi-Channel Beam Forming In Double-Scattering Channels	2011	MATLAB
40	Frequency Offset Invariant Multiple Symbol Differential Detection Of M-Psk	2011	MATLAB
41	A Two-Level Fh-Cdma Scheme For Wireless Communication Systems Over Fading Channels	2011	MATLAB
42	Design And Analysis Of Timing Synchronization In Block Transmission Uwb Systems	2011	MATLAB
43	Analysis Of Interference In Air-To-Ground Cdma Cellular Systems Under Idealized Assumptions	2011	MATLAB
44	Asynchronous Classification Of Digital Amplitude-Phase Modulated Signals In Flat-Fading Channels	2011	MATLAB
45	$1/f$ Baseband Noise Suppression In Ofdm Systems	2011	MATLAB
46	Interference Cancellation And Detection For More Than Two Users	2011	MATLAB
47	Mimo Detection Schemes With Interference And Noise Estimation Enhancement	2011	MATLAB
48	Performance Of Equal Gain Combining With Quantized Phases In Rayleigh Fading Channels	2011	MATLAB
49	Precise Ber Computation For Binary Data Detection In Band Limited White Laplace Noise	2011	MATLAB
50	Peak To Average Power Ratio Properties Of Mccdma And Sm-Cdma	2011	MATLAB
51	Peak-To-Average Power Ratio Reduction Of Ofdm Signals Using Pts Scheme With Low Computational Complexity	2011	MATLAB

52	A Low Cost Ofdm Based Modulation Schemes For Data Communication In The Pass Band Frequency	2011	MATLAB
53	Transmitting Uwb-Ofdm Using 16-Qam Over Hybrid Flat Fading Channels	2011	MATLAB
54	Performance Assessment Of Dft-Ofdm And Dwt-Ofdm Systems In The Presence Of The Hpa Nonlinearity	2011	MATLAB
55	Novel Pmepc Control Approach For 64- And 256-Qam Coded Ofdm Systems	2011	MATLAB
56	Efficient Snr Estimation In Ofdm System	2011	MATLAB
57	Design And Analysis Of Ds-Cdma Rake Receiver Simulator For Wireless Communication	2011	MATLAB
58	Space-Time Block Coded Spatial Modulation	2011	MATLAB
59	Characterization Of Nonlinear Channels In Ofdm Systems Using Signals With Spectral Notches	2011	MATLAB
60	Zf Detectors Over Correlated $\mathcal{K}$ Fading Mimo Channels	2011	MATLAB
61	Design Of Vehicle Positioning System Based On ARM	2011	EMB(ARM7)
62	The Temperature Humidity Monitoring System Of Soil Based On Wireless Sensor Networks	2011	EMB(ARM7)
63	System For Monitoring And Fall Detection Of Patients Using Mobile 3-Axis Accelerometers Sensors	2011	EMB(ARM7)
64	Simulation Of Earthquakes And Tsunami Through GSM Network	2011	EMB(ARM7)
65	A Scheme For The Application Of Smart Message Language In A Wireless Meter Reading System	2011	EMB(ARM7)
66	Wireless Communication Technology In Family Health Monitoring System	2011	EMB(ARM7)
67	Design Of A GSM/GPRS-Based Mobile Patient-Care System	2011	EMB(ARM7)
68	The Research On ZIGBEE-Based Mine Safety Monitoring System	2011	EMB(ARM7)
69	The Design Of The Scene Of The Accident Alarm System Based On ARM And GPS	2011	EMB(ARM7)
70	RFID And ZIGBEE Based Manufacturing Monitoring System	2011	EMB(ARM7)

71	Research On Alarm System Of Railway Crossing Based On GPS And GSM/GPRS	2011	EMB(ARM7)
72	Design Of Monitor-And-Control System For Supermarket Fresh Area Based On ZIGBEE	2011	EMB(ARM7)
73	Design A Kind Of Family Embedded Health Care System	2011	EMB(ARM7)
74	Monitoring And Alarming System Based On ZIGBEE Technology	2011	EMB(ARM7)
75	A Parking Guidance And Information System Based On Wireless Sensor Network	2011	EMB(ARM7)
76	A ZIGBEE Smart Energy Implementation For Energy Efficient Buildings	2011	EMB(ARM7)
77	Anti-Theft Tracking System For Automobiles (Auto GSM)	2011	EMB(ARM7)
78	Development On Gas Leak Detection And Location System Based On Wireless Sensor Networks	2011	EMB(ARM7)
79	Digital Control For Home Lighting Systems With ZIGBEE Communication	2011	EMB(ARM7)
80	Green Home Energy Management System Through Comparison Of Energy Usage Between The Same Kinds Of Home Appliances	2011	EMB(ARM7)
81	The Application Of Stolen Radioactive Source Tracking System Based On Internet Of Things Technology	2011	EMB(ARM7)
82	Secured Wireless Communication For Industrial Automation And Control	2011	EMB(ARM7)
83	Real Time Paddy Crop Field Monitoring Using ZIGBEE Network	2011	EMB(ARM7)
84	Design And Development Of A Hand-Glove Controlled Wheel Chair	2011	EMB(ARM7)
85	A Street Lighting Control System Based On Holonic Structures And Traffic System	2011	EMB(ARM7)
86	Remote Wireless Automatic Meter Reading System Based On GSM/GPRS	2011	EMB(ARM7)

87	Reliable And Cost Effective Anti-Collision Technique For RFID UHF Tag	2011	VERILOG
88	Design And Simulation Of UART Serial Communication Module Based On VHDL	2011	VERILOG
89	FPGA Based FFT Algorithm Implementation In WIMAX Communications System	2011	VHDL
90	Implementation Of A GMSK Communication Systems On FPGA	2011	VHDL
91	Paprr Analysis Of DHT Pre-Coded Ofdm System For MQam	2010	MATLAB
92	A New Zct Pre Coded Ofdm System With Pulse Shaping: Papr Analysis	2010	MATLAB
93	A Simple Orthogonal Space-Time Coding Scheme For Asynchronous Cooperative Systems For Frequency Selective Fading Channels	2010	MATLAB
94	Experimental Evaluation Of The Jitter Generated In Timing Transfer	2010	MATLAB
95	Sinr Degradation In Mimo-Ofdm Systems With Channel Estimation Errors And Partial Phase Noise Compensation	2010	MATLAB
96	Low Complexity Decision Directed Channel Estimation Based On A Reliable Symbol Selection Strategy For Ofdm Systems	2010	MATLAB
97	Superposition-Based Adaptive Modulated Space Time Block Coding For Mimo-Ofdm Systems	2010	MATLAB
98	Wavelet Packet Transform-Based Ofdm For Optical Communications	2010	MATLAB
99	Analysis Of Ber Performance In Presence Of Nonlinear Distortion Due To Pd-Hpa In Downlink Ds-Cdma Signals	2010	MATLAB
100	An Improved Preamble Based Snr Estimation Algorithm For Ofdm System	2010	MATLAB

101	Design Of Spreading Permutations For Mimo-Cdma Based On Space-Time Block Codes	2010	MATLAB
102	The Effect Of Timing Jitter For High Speed Ofdm Systems	2010	MATLAB
103	Adaptive Active Constellation Extension Algorithm For Peak-To-Average Ratio Reduction In Ofdm	2010	MATLAB
104	New Companding Transform For Papr Reduction In Ofdm	2010	MATLAB
105	Multi-Objective Optimization For Pre-Dft Combining In Coded Simo-Ofdm Systems	2010	MATLAB
106	Wireless Handheld Ordering Terminal Based On Embedded System	2010	EMB(ARM7)
107	Design And Implementation Of Embedded Indoor Intelligent Temperature Control System	2010	EMB(ARM7)
108	Design Of A Hybrid RFID/GPS-Based Terminal System In Vehicular Communications	2010	EMB(ARM7)
109	Real-Time Automization Of Agricultural Environment For Social Modernization Of Indian Agricultural System	2010	EMB(ARM7)
110	Remote Monitoring Of Building Structural Integrity By A Smart Wireless Sensor Network	2010	EMB(ARM7)
111	The Design Of Total Station Handhold Device Based On ARM7	2010	EMB(ARM7)
112	Design Of Remote Data Acquisition System Of Passenger Flow Based On GSM/GPRS	2010	EMB(ARM7)
113	Body Motion Information Collection Platform Design Based On ARM7	2010	EMB(ARM7)
114	Design Of Substation Temperature Monitoring System Based On Wireless Sensor Networks	2010	EMB(ARM7)
115	Efficient Detection Ordering Scheme For Mimo Transmission Using Power Control	2009	MATLAB

116	Preamble Based Snr Estimation In Frequency Selective Channels For Wireless Ofdm Systems	2009	MATLAB
117	Design And Implementation On The Intelligent Management Systems Of Garage In The Community Based On ZIGBEE	2009	EMB(ARM7)
118	A Wireless Data Acquisition And Transmission System Design	2009	EMB(ARM7)
119	Implementation Of FFT/IFFT Blocks For OFDM	2009	VHDL
120	High Speed VLSI Architecture For General Linear Feedback Shift Register (LFSR) Structures	2009	VERILOG
<b>BIO MEDICAL</b>			
121	Stationary And Non Stationary Noise Removal From Cardiac Signal Using A Constrained Stability Least Mean Square	2011	MATLAB
122	A Level Set Method For Image Segmentation In The Presence Of Intensity In Homogeneities With Application To Mri	2011	MATLAB
123	Design And Application Of Mobile Embedded Systems For Home Care Applications	2010	EMB(ARM7)
124	Patient Vital Signs Monitoring Using Wireless Body Area Networks	2010	EMB(ARM7)
125	Development of Remote Monitoring Cardiac Patients System Based on GSM & ZIGBEE	2010	EMB(ARM7)
126	A Remote Sleep-monitoring Medical Alarm System	2010	EMB(ARM7)
127	Activity Monitoring System Using Dynamic Time Warping For The Elderly And Disabled People	2009	EMB(ARM7)
128	Effective Fuzzy Clustering Algorithm For Abnormal Mr Image Segmentation	2009	MATLAB

129	A Pattern Similarity Scheme For Medical Image Retrieval	2009	MATLAB
<b>SECURITY SYSTEMS</b>			
130	Design And Implementation Of Pyroelectric Infrared Sensor Based Security System Using Microcontroller	2011	EMB(ARM7)
131	An RFID-Based Reminder System For Smart Home	2011	EMB(ARM7)
132	Anti Theft Control System Design Using Embedded System	2011	EMB(ARM7)
133	The Design And Implementation Of Intelligent Campus Security Tracking System Based On RFID And ZIGBEE	2011	EMB(ARM7)
134	Design Of Auto-Guard System Based On RFID And Network	2011	EMB(ARM7)
135	GSM Based Motorcycle Security System	2011	EMB(ARM7)
136	The Design And Implementation Of ID Authentication System Based On Fingerprint Identification	2011	EMB(ARM7)
137	ATM Terminal Design Is Based On Fingerprint Recognition	2010	EMB(ARM7)
138	Wireless Security Control System & Sensor Network For Smoke & Fire Detection	2010	EMB(ARM7)
139	A Remote Home Security System Based on Wireless Sensor Network and GSM Technology	2010	EMB(ARM7)
140	Wireless Fingerprint Attendance System Based On ZIGBEE Technology	2010	EMB(ARM7)
<b>ROBOTICS</b>			
141	Hazardous Gas Detecting Method Applied In Coal Mine Detection Robot	2011	EMB(ARM7)
142	The Remote Control Of Mobile Robot Based On Embedded Technology	2011	EMB(ARM7)
<b>CONTROLLERS</b>			

143	Design And Implementation Of High Performance AHB Reconfigurable Arbiter For On-Chip Bus Architecture	2011	VERILOG
144	A New Double-Rate (DDR ) Dual Mode Duobinary Transmitter Architecture	2011	VERILOG
145	16 Bit RISC Processor Design For Convolution Application	2011	VHDL
146	Ddr3 Based Lookup Circuit For High-Performance Network Processing.	2011	VHDL
147	32-Bit RISC CPU Based On MIPS	2009	VHDL
148	16 Bit RISC Processor Design For Convolution Application	2009	VHDL
	<b>GENERAL</b>		
149	Development Of MP3 Player With Gesture Control Based On MMA7260(7660) Accelerometer	2011	EMB(ARM7)
150	Review Of Sensors For Greenhouse Climate Monitoring	2011	EMB(ARM7)
151	Role of Wireless Sensor Networks in Forest Fire Prevention	2010	EMB(ARM7)
152	An Embedded System and RFID solution for transport related issues	2010	EMB(ARM7)
153	GPS-GSM Integration For Enhancing Public Transportation Management Services	2010	EMB(ARM7)
154	Micro Controller Based Automation Of Variable Electronic Speed Governor	2009	EMB(ARM7)
155	Increasing Safety Of Bomb Disposal Mission A Body Sensor Network Approach	2009	EMB(ARM7)
156	Embedded Real-Time Damage Detection And Identification Algorithms In Wireless Health Monitoring System For Smart Structures	2009	EMB(ARM7)
157	Design Of Intelligent Traffic Light Controller Using Embedded System	2009	EMB(ARM7)

	<b>BUS PROTOCOLS</b>		
158	An On-Chip AHB Bus Tracer With Real Time Expression & Dynamic Multi Resolution Supports For Soc	2011	VHDL
159	Design And Implementation Of High Performance AHB Reconfigurable Arbiter For On-Chip Bus Architecture	2011	VHDL
160	Design Of On-Chip Bus With OCP Interface	2010	VHDL
161	Design Of A Self-Motivated Arbitration Scheme For The Multilayer AHB Bus matrix	2010	VERILOG
	<b>DIGITAL SIGNAL PROCESSING</b>		
162	High Throughput DA-Based DCT With High Accuracy Error-Compensated Adder Tree	2011	VHDL
163	An Efficient Implementation Of Floating Point Multiplier	2011	VHDL
164	Reducing The Computation Time In (Short Bit-Width) Two's Complement Multipliers	2011	VERILOG
165	Self-Immunity Technique To Improve Register File Integrity Against Soft Errors	2011	VERILOG
166	Radix-8 Booth Encoded Modulo $2n-1$ Multipliers With Adaptive Delay For High Dynamic Range Residue Number Systems	2011	VERILOG
167	Design And Characterization Of Parallel Prefix Adders Using FPGAS	2011	VERILOG
168	Implementation Of Modular Multiplication For RSA Algorithm	2011	VHDL
169	A New VLSI Architecture Of Parallel Multiplier Accumulator Based On Radix-2 Modified Booth Algorithm.	2010	VERILOG

170	An Efficient Architecture For 3-D Discrete Wavelet Transform.	2010	VERILOG
171	The Design Of FIR Filter Base On Improved DA Algorithm And Its FPGA Implementation	2010	VERILOG
172	Low Power ALU Design By Ancient Mathematics	2010	VERILOG
173	An Efficient Architecture For 2-D Lifting-Based Discrete Wavelet Transform	2009	VERILOG
174	A Spurious-Power Suppression Technique For Multimedia/DSP Applications	2009	VERILOG
175	Multiplication Acceleration Through Twin Precision	2009	VHDL
176	Efficient FPGA Implementation Of Convolution	2009	VHDL

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