



SPIRO

Solutions Pvt. Ltd



- **Research & Development Program(RDP)**
- **Final Year Academic Project(FAP) in Software and Embedded Technologies**
- **Application Development Program(ADP)**

PROJECT TITLES GUIDE
2017-2018

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About Spiro

Spiro Group of Companies South India's leading Research & Development Organization. Over a decade, we are furnishing individuals in all technologies and domains by fulfilling their desires in Research & Development sector through efficient training methodologies. All our efforts are focused on students to meet industry requirements.

The global presence and reach attained by Spiro is not only substantiated by its presence, but also by the environment provided for the students. Since our environment is encapsulated with doctorates, professionals and other experts. Accordingly, we created a setting which enables student to recover from the existing learning processes and making them to be an intellect.

In our increasing globalization, Spiro moves forward to unite the desires of students and challenges of the future in R & D sector by improving the agility and enabling students to achieve sustainable growth over their rivalry. For future enhancement, industry based knowledge's are provided for students in various levels. To sum up, we are filling student necessities in all possible ways to make career brighter in their desired field.

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BIGDATA WITH EMBEDDED

1.	ITBDE01	RFID-based Production Data Analysis in an IOT-enabled Smart Job-shop	
2.	ITBDE02	Health-CPS: Healthcare Cyber-Physical System Assisted by Cloud and Big Data	
3.	ITBDE03	Attendance Analysis in Embedded with Big Data	
4.	ITBDE04	Smart Parking Data Analysis using Embedded with Big Data	
5.	ITBDE05	Detecting and Analyzing Urban Regions with High Impact of Weather data Analysis using Embedded with Big Data	
6.	ITBDE06	Distributed Representation of Dish Names in Food Related Web Services for Associative Search and Nutrition Estimation	
7.	ITBDE07	Big Health Application System based on Health Internet of Things and Big Data	
8.	ITBDE08	Distributed Big Data Management in Smart Grid	
9.	ITBDE09	A Value-oriented Model of Big Data-Driven Knowledge Management and Collaborative Services: A Meteorological Service Case	
10.	ITBDE010	Human Activity from Smart Home Embedded for Healthcare Applications	

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JAVA WITH EMBEDDED

1.	ITJEM01	VitalLogger: An Adaptable Wearable Physiology and Body-Area Ambiance Data Logger for Mobile Applications	
2.	ITJEM02	Java Enterprise Wide Application for Clinical Databases	
3.	ITJEM03	Integrated Battery-Electric Vehicle Model and Its Optimal Speed Control Application	
4.	ITJEM04	Development of an Automotive Scanner for Educational Application	
5.	ITJEM05	Fog Computing Micro Datacenter Based Dynamic Resource Estimation and Pricing Model for IoT	
6.	ITJEM06	Development of a Credible and Integrated Electronic Voting Machine Based on Contactless IC Cards, Biometric Fingerprint Credentials and POS Printer	
7.	ITJEM07	On the Use of Radio Frequency Identification for Continuous Biomedical Monitoring	
8.	ITJEM08	Developing a Java based RFID application to automate student attendance monitoring	
9.	ITJEM09	Big Health Application System based on Health Internet of Things and Big Data	
10.	ITJEM10	Controlling Children-Toy Tank by Using Image Processing Technique	

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DOTNET WITH EMBEDDED

1.	ITDEM01	Homecare Kit Platform supporting Multiple Bio-signals Acquisition and Analysis in Daily-life Localization of Health Center Assets Through an IOT Environment (LOCATE)	2017
2.	ITDEM02	IOT base smart home appliances by using Cloud Intelligent Tetris Switch	2017
3.	ITDEM03	A navigation and reservation based smart parking platform using genetic optimization for smart cities	2017
4.	ITDEM04	Low-Cost Wireless Monitoring and Decision Support for Water Saving in Agriculture	2017
5.	ITDEM05	IOT based smart garbage alert system using Arduino UNO	2017
6.	ITDEM06	An integrated system of applying the use of Internet of Things, RFID and Cloud Computing:	2017
7.	ITDEM07	A case study of logistic management of Electricity Generation Authority of Thailand (EGAT) Mae Mao Lignite Coal Mining, Lamping, Thailand	2017
8.	ITDEM08	Library management system	2017
9.	ITDEM09	Design and Implementation of an RFID-Based Customer Shopping Behavior Mining System	2017
10.	ITDEM10	On the Use of Radio Frequency Identification for Continuous Biomedical Monitoring	2017
11.	ITDEM11	Development of an Automotive Scanner for Educational Application	2017
12.	ITDEM12	Integrated Battery-Electric Vehicle Model and	2017

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		Its Optimal Speed Control Application	
13.	ITDEM13	Multibank System	2017
14.	ITDEM14	Smart Home System	2017
15.	ITDEM15	Attendance Management	2017

EMBEDDED			
ARDUINO			
1.	ITAUR01	Mine Detecting Robot Prototyping	2017
2.	ITAUR02	The Development of a Multi-legged Robot Using Eight-bar Linkages as Leg Mechanisms with Switchable Modes for Walking and Stair Climbing	2017
3.	ITAUR03	Internet of Vehicles (IoV) for Traffic Management	2017
4.	ITAUR04	Real Time Health Monitoring of Industrial Machine Using Multiclass Support Vector Machine	2017
5.	ITAUR05	RFID Technology: Beyond Cash-Based Methods in Vending Machine	2017
6.	ITAUR06	Smart Home Automation System Using Bluetooth Technology	2017
7.	ITAUR07	Child Safety Wearable Device	2017
8.	ITAUR08	Performance Enhancement and IoT Based Monitoring for Smart Home	2017
9.	ITAUR09	Direct and Indirect Sensing two-axis Solar Tracking System	2017
10.	ITAUR10	A Design of a Remote Weather Factors Monitoring System	2017
11.	ITAUR11	A Real-Time Flood Alert System for Parking Lots	2017
12.	ITAUR12	Jol-Shinchon: Design and Development of a Sensor Based Intelligent Auto Irrigation System	2017
13.	ITAUR13	Intelligent Home Automation System using BitVoicer	2017

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14.	ITAUR14	An Approach to Establishment of Cars to Road Management System	2017
15.	ITAUR15	Design of Bus Tracking and Fuel Monitoring System	2017
16.	ITAUR16	A Performance Oriented Novel Design of Hexapod Robots	2017
17.	ITAUR17	Automatic toll e-ticketing system for transportation systems	2016
18.	ITAUR18	Smart Lighting: Developing a Smarter Control Mechanism for Park Trail Lighting	2016
19.	ITAUR19	Smart Real-Time Healthcare Monitoring and Tracking System using GSM/GPS Technologies	2016
20.	ITAUR20	Embedded System Design of a Real-time Parking Guidance System	2016
21.	ITAUR21	Any Climb: A New Wall-Climbing Robotic Platform for Various Curvatures	2016
22.	ITAUR22	A Novel Approach for Communication among Blind, Deaf and Dumb People	2016
RASPBERRY PI			
1.	ITRAP01	IOT based vehicle parking manager	2017
2.	ITRAP02	Multiple Motion Control System of Robotic Car Based on IoT to Produce Cloud Service	2017
3.	ITRAP03	Vehicle Seat Vacancy Identification using Image Processing Technique	2017
4.	ITRAP04	An application of movement direction control for the three wheeled mobile robots using visual information	2017
5.	ITRAP05	Driving Event Detection and Driving Style Classification using Artificial Neural Networks	2017
6.	ITRAP06	Performance Enhancement and IoT Based Monitoring for Smart Home	2017
7.	ITRAP07	Improving Smart Home Security; Integrating Logical Sensing into Smart Home	2017

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8.	ITRAP08	An IoT based Fire Alarming and Authentication System for Workhouse using Raspberry Pi 3	2017
9.	ITRAP09	Vehicle Detection on a Pint-Sized Computer	2017
10.	ITRAP10	Road Sign Recognition System on Raspberry Pi	2016
11.	ITRAP11	A Computationally Low Cost Vision Based Tracking Algorithm for Human Following Robot	2016
12.	ITRAP12	Open-Source Smart Home Modules	2016
13.	ITRAP13	Traffic Sensing Through Accelerometers	2016
14.	ITRAP14	An Intelligent System for Monitoring and Controlling of Street Light using GSM Technology	2016
15.	ITRAP15	Healthcare based on IoT using Raspberry Pi	2016

INTERNET OF THINGS

1.	ITIOT01	Room Temperature Control and Fire Alarm/Suppression IoT Service Using MQTT on AWS	2017
2.	ITIOT02	Analysis of Three IoT-Based Wireless Sensors for Environmental Monitoring	2017
3.	ITIOT03	Agricultural Crop Monitoring using IOT- A Study	2017
4.	ITIOT04	Health Care Monitoring System in Internet of Things (IoT) by Using RFID	2017
5.	ITIOT05	Wake-up Stroke Prediction through IoT and its Possibilities	2017
6.	ITIOT06	Real-Time Signal Quality-Aware ECG Telemetry System for IoT-Based Health Care Monitoring	2017
7.	ITIOT07	Renewable Micro-grid State Estimation using	2017

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		theInternet of Things Communication Network	
8.	ITIOT08	Towards Safer Roads through Cooperative HazardAwareness and Avoidance in Connected Vehicles	2017
9.	ITIOT09	Design and Implementation of Real Time Transformer Health Monitoring System Using GSM Technology	2017
10.	ITIOT10	Cloud of Things in Smart Agriculture: Intelligent Irrigation Monitoring by Thermal Imaging	2017
11.	ITIOT11	The comparison of soil sensors for integrated creation of IOT based Wetting front detector (WFD) with an efficient irrigation system to support precision farming	2017
12.	ITIOT12	Multiple Motion Control System of Robotic Car Based on IoT to Produce Cloud Service	2017
13.	ITIOT13	Secure IoT Platform for Industrial Control Systems	2017
14.	ITIOT14	Design and Implementation of Interoperable IoT Healthcare System Based on International Standards	2016
15.	ITIOT15	Interoperability of IoT Wireless Technologies inAmbient Assisted Living Environments	2016
16.	ITIOT16	Improving the Security of Wireless SensorNetworks in an IoT Environmental Monitoring System	2016
17.	ITIOT17	Intuitive IoT-based H2U Healthcare System forElderly People	2016
18.	ITIOT18	Point-n-Press: An Intelligent Universal Remote	2016

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		Control System for Home Appliances	
19.	ITIOT19	Smart Parking System for Internet of Things	2016
20.	ITIOT20	Water Level Meter for Alerting Population aboutFloods	2016
LIFI-LIGHT FIDELITY			
1.	ITLI01	Current Challenges for Visible Light Communications Usage in Vehicle Applications: A Survey	2017
2.	ITLI02	Optical Wireless Data Transmission with Enhanced Substitution Caesar Cipher Wheel Encryption	2017
3.	ITLI03	Lookup: Robust and Accurate Indoor Localization Using Visible Light Communication	2017
4.	ITLI04	A Superimposed Relaying Strategy and Power Allocation for Outdoor Visible LightCommunications	2017
5.	ITLI05	Cooperative Visible Light Communications withFull-Duplex Relaying	2017
6.	ITLI06	Eco-friendly data transmission in visible light communication	2016
7.	ITLI07	Smart Home Technologies using Visible Light Communication	2016
8.	ITLI08	Impact of VLC on Light Emission Quality of White LED	2016
9.	ITLI09	Stereo Audio Streaming via Visible Light	2016
10.	ITLI10	Uncoordinated Multiple Access Scheme for VLC Systems with Positioning Capability	2016
ROBOTICS			
1.	ITROB01	A Zigbee-Based Framework for	2017

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		Approximating Sensor Range and Bearing	
2.	ITROB02	Design of smart modular variable stiffness actuators for robotic assistive devices	2017
3.	ITROB03	A Soft-Robotic Gripper with Enhanced Object Adaptation and Grasping Reliability	2017
4.	ITROB04	Managing Robot Kinematics Based on Arduino Controllers Using a Unity System	2017
5.	ITROB05	A Novel 6-Axis Force/Torque Sensor for Robotic Applications	2017
6.	ITROB06	A design of Gesture controlled mobile robot with robotic arm for nuclear environment	2017
7.	ITROB07	Low-Cost, Real-Time Obstacle Avoidance for Mobile Robots	2017
8.	ITROB08	Lyapunov Based Driverless Vehicle in Obstacle Free Environment	2017
9.	ITROB09	Wireless power transfer for electric vehicle using an adaptive robot	2017
10.	ITROB10	Combined Mobile Robots Motion Control Using Information as Voice and Gesture Commands from Audio and Thermal Visual Sensors	2017
11.	ITROB11	Design and Implementation of a Lightweight Tele presence Robot For Medical Assistance	2017
12.	ITROB12	Based on MEMS Sensors Man-Machine Interface for Mechatronic Objects Control	2017
13.	ITROB13	Selective Motion Control of a Crawling Magnetic Robot System for Wireless Self-Expandable Stent Delivery in Narrowed Tubular Environments	2017
14.	ITROB14	Embedded and Real Time System Design: A	2017

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		CaseStudy Fire Fighting Robot	
15.	ITROB15	Analysis of Modular Biped Wall climbing Robot with High Mobility and Effective Transit Mechanism	2017
16.	ITROB16	Approach Towards Achieving Interoperability between Military Land Vehicle and Robotic Systems	2017
17.	ITROB17	Mine Detecting Robot Prototyping	2016
18.	ITROB18	A Lightweight Robotic Arm with Pneumatic Muscles for Robot Learning	2016
19.	ITROB19	Mobile Robot for Retail Inventory Using RFID	2016
20.	ITROB20	A Dataset for Improved RGBD-based Object Detection and Pose Estimation for Warehouse Pick-and-Place	2016
21.	ITROB21	A Compact and Compliant External Pipe-Crawling Robot	2016
22.	ITROB22	Fall Detection and Prevention Control Using Walking-Aid Cane Robot	2016
23.	ITROB23	Auto Calibrated Head Orientation Controller for Robotic-Wheelchair Using MEMS Sensors and Embedded Technologies	2016
24.	ITROB24	Line Detecting and Tracking of a Mobile Robot with Multiple RGB-D Cameras	2016
25.	ITROB25	Design and Manufacture of Bio-mimic Robotic Fish	2016
RTOS-REAL TIME OPERATING SYSTEM			
1.	ITRTOS01	A Real Time Street Lighting Control System	2017
2.	ITRTOS02	Road Sense: Smartphone Application to Estimate Road Conditions using Accelerometer and Gyroscope	2017
3.	ITRTOS03	A Real-Time Flood Alert System for Parking	2017

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		Lots	
4.	ITRTOS04	A localization and an identification system of personnel in areas at risk using a wireless sensor network	2017
5.	ITRTOS05	RTOS Based Vehicle Tracking System	2017
6.	ITRTOS06	Attendance generating system using RFID and GSM	2016
7.	ITRTOS07	Flexible Non-Constrained RF Wrist Pulse Detection Sensor Based on Array Resonators	2016
8.	ITRTOS08	Modelling and Experimental Investigation of the Maximum Stresses Due to Bending in a Tubular-Shaped Artificial Skin Sensor	2016
9.	ITRTOS09	An IoT-based Scheme for Real Time Indoor Personal Exposure Assessment	2016
10.	ITRTOS10	Real-Time Charging Station Recommendation System for Electric-Vehicle Taxis	2016
RSSI-RECEIVED SIGNAL STRENGTH INDICATION			
1.	ITRSSI01	Indoor Localization Using Wi-Fi Method Based on Fingerprinting Technique	2017
2.	ITRSSI02	Adaptive Locally Linear Embedding for Node Localization in Sensor Networks	2017
3.	ITRSSI03	Passive Acoustic Methods of Small Boat Detection, Tracking, and Classification	2017
4.	ITRSSI04	Using Wireless Link Dynamics to Extract a Secret Key in Vehicular Scenarios	2017
5.	ITRSSI05	Child Safety Wearable Device	2017
6.	ITRSSI06	Sensing Activities and Locations of Senior Citizens toward Automatic Day-care Report Generation	2017

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7.	ITRSSI07	RSSI based Bluetooth Smart Indoor Positioning	2016
8.	ITRSSI08	A Robust Multi-cue Blending-based Approach for Floor Detection	2016
9.	ITRSSI09	A Robot Localization System Combining RSSI and Phase Shift in UHF-RFID Signals	2016
10.	ITRSSI10	RSSI-Based Maximum Likelihood Localization of Passive RFID Tags Using a Mobile Cart	2016
WIRELESS			
1.	ITWI01	Reliable Wireless Communication and Positioning enabling Mobile Control and Safety Applications in Industrial Environments	2017
2.	ITWI02	Interleaved DC/DC Charger for Wireless Power Transfer	2017
3.	ITWI03	Study of the positioning of wireless sensors for communication at 2.4 GHz inside the train	2017
4.	ITWI04	Design and Simulation of 2*1 and 4*1 Array Antenna for Detection System of Objects or Living Things in motion	2017
5.	ITWI05	Real-Time Traffic State Estimation With Connected Vehicles	2017
6.	ITWI06	Self-Powered Zigbee Wireless Sensor Nodes for Railway Condition Monitoring	2017
7.	ITWI07	A Design of a Remote Weather Factors Monitoring System	2017
8.	ITWI08	A Wireless Sensor System for Real-Time Monitoring and Fault Detection of Motor Arrays	2017
9.	ITWI09	Design of Greenhouse Environment Monitoring System Based on Wireless Sensor	2017

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		Network	
10.	ITWI10	EMACS: Design and implementation of indoor environment monitoring and control system	2017
11.	ITWI11	Wireless Stethoscope for Recording Heart and Lung Sound	2016
12.	ITWI12	The Design of Building Fire Monitoring System Based on ZigBee-WiFi Networks	2016
13.	ITWI13	A Blind Zone Alert System Based on Intra-Vehicular Wireless Sensor Networks	2016
14.	ITWI14	Wireless Power Transmission for Multiple Devices	2016
15.	ITWI15	A mobile Zigbee module in a traffic control system	2016
WIRELESS POWER TRANSFER			
1.	ITWT01	Impedance Matching in Magnetic-Coupling-Resonance Wireless Power Transfer for Small Implantable Devices	2017
2.	ITWT02	Acoustic Wireless Power Transfer with Receiver Array for Enhanced Performance	2017
3.	ITWT03	On the Use of Eddy Currents to Facilitate Wireless Power Transfer Through Metallic Surfaces	2017
4.	ITWT04	Standards and Methods of Power Control for Variable Power Bidirectional Wireless Power Transfer	2017
5.	ITWT05	Design Considerations For An Active Rectifier Circuit for Bidirectional Wireless Power	2017

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		Transfer	
6.	ITWT06	The wireless power transfer systems using the Class E push-pull inverter for industrial robots	2017
7.	ITWT07	Low-cost Wake-up Receiver for RF Energy Harvesting Wireless Sensor Networks	2017
8.	ITWT08	wireless power transmission for a traveling mobility scooter	2016
9.	ITWT09	Analysis and Design of Capacitive Power Transmission System Employing Out-of-band Wireless Feedback Link	2016
10.	ITWT10	Wireless Power Transmission for Multiple Devices	2016
AUTOMATION			
1.	ITAM01	Real Time Health Monitoring of Industrial Machine Using Multiclass Support Vector Machine	2017
2.	ITAM02	Bi-Directional Passing People Counting System based on IR-UWB Radar Sensors	2017
3.	ITAM03	Design of an IOT based autonomous vehicle with the aid of computer vision	2017
4.	ITAM04	Home Automation and Personalization Through Individual Location Determination	2017
5.	ITAM05	Novel Tire Inflating System using Extreme Learning Machine Algorithm for Efficient Tire Identification	2017
6.	ITAM06	Wind Measurement Based on MEMS Micro-Anemometer With High Accuracy Using ANN Technique	2017
7.	ITAM07	Earliest Sensor Detection Opportunity for Left Turn Across Path Opposite Direction Crashes	2017
8.	ITAM08	Anomaly Behaviour Analysis for Building	2016

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		Automation Systems	
9.	ITAM09	A Model for Smart Agriculture Using IoT	2016
10.	ITAM10	Robotic System for Automation of Water Quality Monitoring and Feeding in Aquaculture Shade house	2016
11.	ITAM11	MAGIC: Model-Based Actuation for Ground Irrigation Control	2016
12.	ITAM12	Mixed Time-triggered and Event-triggered Controller For Industrial IoT Applications	2016
13.	ITAM13	Robust Multi rate On-Road Vehicle Localization for Autonomous Highway Driving Vehicles	2016
14.	ITAM14	Analysis of influence on driver behaviour while using in-vehicle traffic lights with application of head-up display	2016
15.	ITAM15	A Fuzzy-Based Building Automation Control System	2016

MECHANISM

1.	ITEM01	Three Way Conveyers for Cool Drinks Industry	2017
2.	ITEM02	The Amphibious vehicle for sea and seashore monitoring	2017
3.	ITEM03	Automatic Control of Voice Gear Mechanism	2017
4.	ITEM04	Automatic glass cleaning robot Servant for Software Company	2017
5.	ITEM05	Automatic Car Parking In Shopping Mall	2017
6.	ITEM06	Automatic Multi level Car Parking System	2017

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7.	ITEM07	Coconut Climbing Robot	2017
8.	ITEM08	Automatic Shoe polishing Machine	2017
9.	ITEM09	Hand-Motion Crane Control Using Radio Frequency real-Time Location Systems	2017
10.	ITEM10	Automatic Oil dissipation system	2017
11.	ITEM11	Hover Craft in Army	2017
12.	ITEM12	Zigbee Vehicle in Army	2017
13.	ITEM13	Automatic Multilevel Car Parking System	2017
14.	ITEM14	Automatic Wall Painting Robot	2017
15.	ITEM15	Diffraction-Compensating Coded Aperture for Inspection in Manufacturing (PIPE CRAWLING)	2017
16.	ITEM16	Row Guidance Agriculture Robot	2017
17.	ITEM17	Vehicle Side Stand Alert System	2017
18.	ITEM18	Machine vision technique for find out defect in orange	2017
19.	ITEM19	Control of a Snake Robot for Ascending and Descending Steps	2017
20.	ITEM20	Power Generation for Street Light Using Speed Breaker	2017
21.	ITEM21	Vehicle Traffic Control by a Traffic Robot	2017
22.	ITEM22	Two Way Conveyor Machine	2017
23.	ITEM23	Intelligent Umbrella For Future Hotels	2017
24.	ITEM24	Online High-Precision Probabilistic Localization of Robotic Fish Using Visual and Inertial Cues	2017
25.	ITEM25	Automatic Welding Mechanism System	2017
26.	ITEM26	Energy Exchange between Electric Vehicle Load and Wind Generating Utilities	2017
27.	ITEM27	Advanced Power Window Motor using Permanent Magnet DC Motor	2017
28.	ITEM28	Wall Climbing Robot for Rescue	2017

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29.	ITEM29	Automated Anesthesia Analyzing System Based On Microcontroller	2017
30.	ITEM30	Heat exchanger mechanism	2017
GSM&GPS			
1.	ITGP01	Electrical Appliances Control Prototype by Using GSM Module and Arduino	2017
2.	ITGP02	Design of Bus Tracking and Fuel Monitoring System	2017
3.	ITGP03	Microcontroller based Digital Meter with Alert System using GSM	2017
4.	ITGP04	E-health Acquisition, Transmission & Monitoring System	2017
5.	ITGP05	Wearable Fall Detection System	2017
6.	ITGP06	Anti-theft Protection of Vehicle by GSM & GPS with Fingerprint Verification	2017
7.	ITGP07	The Development of a Remotely Controlled Home Automation System for Energy Saving	2017
8.	ITGP08	Design and Implementation of Remotely Located Energy Meter Monitoring with Load Control and Mobile Billing System through GSM	2017
9.	ITGP09	Design and Implementation of Real Time Transformer Health Monitoring System Using GSM Technology	2017
10.	ITGP10	Visual Impairment Aid Using Haptic And Sound Feedback	2017
11.	ITGP11	Automatic Oil Tank Truck Alarm System from Illegal Fuel Hoarding with Microcontroller and GSM Module Based System	2016
12.	ITGP12	Real-time and Predictive Analytics for Smart	2016

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		Public Transportation Decision Support System	
13.	ITGP13	Smart vehicle security system for defending against collaborative attacks by malware	2016
14.	ITGP14	Smartphone-based Human Fall DetectionSystem	2016
15.	ITGP15	SenSpeed: Sensing Driving Conditions toEstimate Vehicle Speed in Urban Environments	2016
CONSUMER ELECTRONIC			
1.	ITCE01	Design of a Portable Smart Connected Solar Powered Charger for Consumer Electronics	2017
2.	ITCE02	Detection and Tracking of Overtaking Vehicle in Blind Spot Area at Night Time	2017
3.	ITCE03	IoT Smart Bell Notification System:Design and Implementation	2017
4.	ITCE04	A Speed Compensation Algorithm for a Head TiltsController Used for Wheelchairs and Rehabilitation Applications	2017
5.	ITCE05	Fingerprints in the Air: Unique Identification of Wireless Devices using RF RSS Fingerprints	2017
6.	ITCE06	A Wireless Sensor Network Based Low Cost andEnergy Efficient Frame Work for PrecisionAgriculture	2017
7.	ITCE07	Anti-theft Protection of Vehicle by GSM & GPS with Fingerprint Verification	2017
8.	ITCE08	Advance Automatic Toll Collection & Vehicle Detection During Collision using RFID	2017
9.	ITCE09	Real-Time Obstacles Detection and Status Classification for Collision Warning in a	2017

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		Vehicle Active Safety System	
10.	ITCE10	Secure House: A Home Security System Based on Smartphone Sensors	2017
11.	ITCE11	Abnormal Moving Vehicle Detection for Driver Assistance System in Night time Driving	2016
12.	ITCE12	A mobile robot which can follow and lead human by detecting user and behavior wearable devices	2016
13.	ITCE13	Blind User Wearable Audio As Assistance for Indoor Navigation Based on Visual Markers and Ultrasonic Obstacle Detection	2016
14.	ITCE14	An Efficient Energy Monitoring Method Based on Bluetooth Low Energy	2016
15.	ITCE15	Performance and Interoperability Evaluation of Radiofrequency Home Automation Protocols and Bluetooth Low Energy for Smart Grid and Smart Home Applications	2016

ELECTRICAL

1.	ITEEEE01	An Intelligent Load Management System with Renewable Energy Integration for Smart Homes	2017
2.	ITEEEE02	Development of Embedded System for Making Plugs Smart	2017
3.	ITEEEE03	A Smart Meter Design and Implementation Using Zigbee Based Wireless Sensor Network in Smart Grid	2017
4.	ITEEEE04	Power Line Fault Detection and Localization using High Frequency Impedance Measurement	2017
5.	ITEEEE05	Smartphone Application to Evaluate the	2017

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		individual possibilities for the Application of Electric vehicles	
6.	ITEEE06	Power Line Carrier Communication Based LowCost Power Monitoring and Management System	2017
7.	ITEEE07	A Wireless Sensor System for Real-Time Monitoring and Fault Detection of Motor Arrays	2017
8.	ITEEE08	Massive Internet of Things for Industrial Applications	2017
9.	ITEEE09	Efficient Solar Power Management System for Self-Powered IoT Node	2017
10.	ITEEE10	An Innovative Two-Level Model for Electric Vehicle Parking Lots in Distribution Systems with Renewable Energy	2017
11.	ITEEE11	Adaptive Dynamic Programming-Based Optimal Control Scheme for Energy Storage Systems With Solar Renewable Energy	2017
12.	ITEEE12	Impact of Power Electronic Sources on Transmission Line Ground Fault Protection	2017
13.	ITEEE13	An Overview of Demand Response Applications under Smart Grid Concept	2017
14.	ITEEE14	Emerging Power Quality Challenges Due to Integration of Renewable Energy Sources	2017
15.	ITEEE15	A Smart Meter Design and Implementation Using Zigbee Based Wireless Sensor Network in Smart Grid	2017
16.	ITEEE16	Performance Comparison of Mirror Reflected Solar Panel with Tracking and Cooling	2016
17.	ITEEE17	Peak-Aware Online Economic Dispatching for Micro grids	2016

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18.	ITEEE18	Energy storage system and demand response program effects on stochastic energy procurement of large consumers considering renewable generation	2016
19.	ITEEE29	Design and Implementation of Low-Cost SMS Based Monitoring System of Distribution Transformers	2016
20.	ITEEE20	Power quality monitoring using GSM technology	2016
BIOMEDICAL			
1.	ITBIO01	A Low Cost Automated Fluid Control Device using Smart Phone for Medical Application	2017
2.	ITBIO02	An IoT Based Remote HRV Monitoring System for Hypertensive Patients	2017
3.	ITBIO03	Implementation of Energy Efficient/Lightweight Encryption Algorithm for Wireless Body Area Networks	2017
4.	ITBIO04	Wearable Flexible Sensors: A Review	2017
5.	ITBIO05	Body and Fall Detection System with Heart Rate Monitoring	2017
6.	ITBIO06	Federated Internet of Things and Cloud Computing Pervasive Patient Health Monitoring System	2017
7.	ITBIO07	Wearable Device for Increasing the Slow Wave Sleep Stage by Electro cutaneous Stimulation	2017
8.	ITBIO08	A wireless continuous patient monitoring system for dengue: Wi-mon	2017
9.	ITBIO09	A Speed Compensation Algorithm for a Head Tilts Controller Used for Wheelchairs and rehabilitation Applications	2017

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10.	ITBIO10	Elder Tracking and Fall Detection System using Smart Tiles	2017
11.	ITBIO11	Auto Dietary: A Wearable Acoustic Sensor System for Food Intake Recognition in Daily Life	2016
12.	ITBIO12	BSN-Care: A Secure IoT-based ModernHealthcare System Using Body Sensor Network	2016
13.	ITBIO13	Sensing Method of Patient's Body Movement Without Attaching Sensors on the Patient's Body	2016
14.	ITBIO14	Estimation of Circadian Body Temperature Rhythm based on Heart Rate in Healthy, Ambulatory Subjects	2016
15.	ITBIO15	An Energy Efficient Sensor forThyroid Monitoring through the IoT	2016

EMBEDDED WITH ANDROID

1.	ANEB01	A modular approach for smart home system architectures based on Android applications	2017
2.	ANEB02	I-Am: Implicitly Authenticate Me Person Authentication on Mobile Devices Through Ear Shape and Arm Gesture	2017
3.	ANEB03	Mine Detecting Robot Prototyping	2017
4.	ANEB04	IOT Based Smart Garbage alert system using Arduino UNO	2017
5.	ANEB05	Real-time Face Detection and Tracking on MobilePhones for Criminal Detection	2017
6.	ANEB06	Blind Aid Stick: Hurdle Recognition, SimulatedPerception, Android Integrated Voice BasedCooperation via GPS Along With Panic Alert System.	2017
7.	ANEB07	An Android-Based Mechanism for Energy	2017

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		Efficient Localization Depending on Indoor/Outdoor Context	
8.	ANEB08	Motion Analysis in Vocalized Surprise Expressions and Motion Generation in AndroidRobots	2017
9.	ANEB09	Flow Anomaly Based Intrusion Detection System for Android Mobile Devices	2017
10.	ANEB10	On Ad Library Updates in AndroidApps	2017
11.	ANEB11	Ubiquitous Tracking Using Motion and LocationSensor With Application to Smartphone	2016
12.	ANEB12	Campus Sense - A Smart Vehicle Parking Monitoring and Management System using ANPRCameras and Android Phones	2016
13.	ANEB13	An RFID based Smartphone Proximity AbsenceAlert System	2016
14.	ANEB14	The Use of Mobile Technology on the Example of Health and Sports Statistics Application	2016
15.	ANEB15	Campus Sense - A Smart Vehicle ParkingMonitoring and Management System using ANPR Cameras and Android Phones	2016
VIRTUAL REALITY			
1.	ITVRT01	Virtual Body Swap: A New Feasible Tool to be Explored in Health and Education	2017
2.	ITVRT02	Automatic Speed Adjustment for Travel through Immersive Virtual Environments based on Viewpoint Quality	2017
3.	ITVRT03	Cognitive Load Measurement in a Virtual Reality-based Driving System for Autism Intervention	2017

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4.	ITVRT04	Virtual Hand-Button Interaction in a Generic Virtual Reality Flight Simulator	2017
5.	ITVRT05	Design of Mobile Robot Teleportation System Based on Virtual Reality	2017
6.	ITVRT06	A Sensor-Based Dual-Arm Tele-Robotic System	2017
7.	ITVRT07	An Adaptive Virtual-Reality User-Interface for Patient Access to the “Personal Electronic Medical Record”	2017
8.	ITVRT08	virtual reality based search and analysis of victims trapped beneath the surface	2017

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Education Partners:



Technologies and Domain used:

IEEE 2017, Java, J2ee, Android, Bigdata, Dot net, Arduino, Raspberry pi, IOT, Renewable, PHP, Embedded, Vlsi, Matlab, VB, Net working, Data Mining, Image Processing, Cloud Computing, Mobile Computing, Multimedia, Network Security, Soft Engg, Grid Computing, Automation, Robotics, Communication, RF, Zigbee, Blue tooth, GSM/GPS/GPRS, Power Electronics & Systems, Electrical, DSP, RTOS, Bio metrics, Civil, Analysis, Fabrication, Mechanical, CFD, FEA, etc.

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Branches:

VELLORE

#257, Sapthagiri Complex, 2nd Floor
Katpadi Main Road, Vellore - 632 007
(Opp. Reliance Pertol Bunk)
Mobile : 9176 620 620
Email : vellore@spioprojects.com

NAMAKKAL

No : 62/136, Thillaipuram Main Road,
Paramathi Road, Namakkal
Mobile : 9962 514 514
Email : nkl@spioprojects.com

TIRUNELVELI

991/1A3, 2nd Floor,
M.G.Raaj Trade Park, South bye bass road,
Nellai-627005. (Near New Bus Stand)
Mobile : 9176 617 617
Email : nellai@spioprojects.com

MADURAI

#178, 2nd Floor, Vakil New Street,
Simmakal, Madurai - 625 001
Mobile : 9176 419 419
Email : madurai@spioprojects.com

PONDICHERY

20, 1st Floor, 2nd Cross, Natesan Nagar,
Pondichery - 05. (Indra Gandhi Square)
Mobile : 9176 694 694.
Email : pondy@spioprojects.com

COIMBATORE

#93, 1st Floor, Nehru Street,
(Opp. to Senthil Kumaran Theaters)
Ram Nagar, Coimbatore- 641 009
Mobile : 9176 648 648
Email : cbe@spioprojects.com

Corporate Office: SPIRO Solutions Pvt. Ltd #78, 3rd Floor, Usman Road, T.Nagar, Chennai-17. (Upstair Hotel Saravana Bhavan)Tamilnadu, India.

For ECE, EEE, E&I, E&C, Mechanical, Civil, Bio-Medical:

Mobile : +91-9962 067 067, +91-9176 499 499
mail: info@spioprojects.com

For IT, CSE, MSC, MCA, BSC(CS), B.COM(cs):

Mobile: +91-9791 044 044, +91-9176 644 044
E-Mail: info1@spioprojects.com,

Website: www.spioprojects.com.