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2016 - 2017 INNOVATIVE ECE (Embedded) FINAL YEAR Projects @ JP iNFOTeCH

S.NO	Project Code	INNOVATIVE 2016-17 Embedded (ECE) Project Titles	Domain	Lang/Year
		IOT		
1	JPE01	Automatic Evaluating of Water Quality using IoT.	IOT	2016
2	JPE02	Auto-Park: Autonomous Self Parking Vehicle without Human Driver Control	IOT	2016
3	JPE03	Consumer Power Monitoring and controlling system to save power according to the demand.	IOT	2016
4	JPE04	Digital notice board in colleges and schools by implementing IoT with audio alert system.	IOT	2016
5	JPE05	Electrical grid intact improved maximum demand control using IoT.	IOT	2016
6	JPE06	Implementing Intelligent Traffic Control System for Congestion Control, Ambulance Clearance, and Stolen Vehicle Detection	IOT	2016
7	JPE07	IoT based watt meter statement for billing and power management.	IOT	2016
8	JPE08	Remote monitoring and diagnosis system for wind turbines using IoT.	IOT	2016
9	JPE09	Robot control and fetch information from underground coal mine and safety alert system.	IOT	2016
10	JPE10	Solar Power and Wind power Management system using wireless personal area network and IoT.	IOT	2016
11	JPE11	Surveillance robot control from remote location using IoT for military operations.	IOT	2016
12	JPE12	Wearable precise health monitoring using IoT and alert systems.	IOT	2016

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13	JPE13	Wi-Fi based A Reconfigurable Smart Sensor Interface for Industrial Monitoring	IOT	2016
		Robotics and Zigbee		
14	JPE14	180˚ view robot for landmine detection and alert system using JAVA application using wireless camera.	Robotics and Zigbee	2016
15	JPE15	Advanced driver assistance systems for automobiles using WPAN.	Robotics and Zigbee	2016
16	JPE16	Anterior smoke diving Robot to firefighters for vision in smoke-filled buildings.	Robotics and Zigbee	2016
17	JPE17	Future power grid and load control system using smart phones form solar and wind energy.	Robotics and Zigbee	2016
18	JPE18	Gesture controlled car driving system to assist the physically challenged	Robotics and Zigbee	2016
19	JPE19	ITCS: Signaling and communications for locomotives using low rate wireless personal area network.	Robotics and Zigbee	2016
20	JPE20	Mangalyaan Robot for plantation and developing oxygen for human surveillance by WSAN	Robotics and Zigbee	2016
21	JPE21	Multi sensor in locomotives for explosive detection and explorer avoider using de-clamping in WPAN.	Robotics and Zigbee	2016
22	JPE22	Self-Detect and Auto Control voice alert for Aircraft Collusion Prevention System Using RSSI.	Robotics and Zigbee	2016
23	JPE23	Application of Radio Frequency Controlled Intelligent Military Robot in Defense	Robotics	2016
24	JPE24	An Intelligent Mobile Robot Navigation Technique Using RF Technology	Robotics	2016

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		Android with Bluetooth and Robotics		
25	JPE25	Rail robot: autonomous robot can clean and monitor your railway tracks data base to smart Phone.	Android with Bluetooth and Robotics	2016
26	JPE26	Wheel chair and home appliance control system for physical challenged peoples using WPAN.	Android Smartphone with Bluetooth and Robotics	2016
		Zigbee		
27	JPE27	Adaptive Traffic Light Preemption for Emergency Vehicles using Zigbee Wireless sensor network	Zigbee	2016
28	JPE28	Biomedical Signal Acquisition(ECG, Heart Rate) using ZigBee	Zigbee	2016
29	JPE29	Biomedical Signals Monitoring Based in Mobile Computing	Zigbee	2016
30	JPE30	GPS less Navigation System for Multi-Floor Indoor Positioning during Urban Combat Operations.	Zigbee	2016
31	JPE31	H2O line grid to prevent water wastage and water eMETER system in metros by using MDM technique.	Zigbee	2016
32	JPE32	Impulsive drive in self-propelled systems using wireless.	Zigbee	2016
33	JPE33	Intelligent Spy Robot using zigbee	Zigbee	2016
34	JPE34	Lower powered ad hoc network for wild life tracking and passageway obviate methodology	Zigbee	2016
35	JPE35	Metal Detection Robot Control Using Zigbee wireless Technology	Zigbee	2016
36	JPE36	Monitoring and alarming systems based on Zigbee Technology	Zigbee	2016

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37	JPE37	Multi-Robots Communication System Based On multi node wireless Zigbee Network	Zigbee	2016
38	JPE38	PC controlled pick and place robot	Zigbee	2016
39	JPE39	PC controlled SPY Robot Using Wireless webcam	Zigbee	2016
40	JPE40	Real time monitoring and data acquisition for ship using ad hoc network.	Zigbee	2016
41	JPE41	Remote weather monitoring system design using zigbee	Zigbee	2016
42	JPE42	Secured Wireless Communication for Industrial Automation and Control	Zigbee	2016
43	JPE43	Sensor subordinate illumination control system for power management and RFID subordinate attendance system using WSN for hireling.	Zigbee	2016
44	JPE44	Smart Guardian: helps parents to keep kids in virtual boundary sounding using RSSI.	Zigbee	2016
45	JPE45	The application of Wireless sensor network based on Zigbee in Petrochemical industry field	Zigbee	2016
46	JPE46	Wireless Automation of Unmanned Railway Crossing Gate Alert System	Zigbee	2016
47	JPE47	Wireless DC Buck Converter using ZigBee Remote Control System	Zigbee	2016
48	JPE48	Wireless Wheel Speed Control using Zigbee Remote Control System	Zigbee	2016
49	JPE49	Anti Theft System for Electronic Equipments using Inertial MEMS Sensor and ZigBee	Zigbee and MEMS	2016
50	JPE50	Human Recognition Using RFID Technology and Stereo Vision	Zigbee and RFID	2016
51	JPE51	Safety of valuable things using Zigbee and MEMS sensors	Zigbee and MEMS	2016
52	JPE52	ZigBee File Transmission using Stream Cipher Cryptography	Zigbee and	2016

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			Cipher	
		Zigbee and GSM		
53	JPE53	Adaptive Tire coerces Scrutiny System using WSN (wireless sensor network).	**Zigbee and GSM**	**2016**
54	JPE54	Architecture Escort: Structure And Sesimic Monitoring System With Improved In Wireless Sensor Network	**Zigbee and GSM**	**2016**
55	JPE55	GPS less Automotive Crash-Warning zone alert and Equipment Using WPN and GSM.	**Zigbee and GSM**	**2016**
56	JPE56	Next generation transport systems for public safety and surveillance eye for 108 in automotive.	**Robotics with Zigbee and GSM**	**2016**
57	JPE57	Riverside Network for Early Flood Warning System based on ARM Cortex M3, WSN and GSM .	**Zigbee and GSM**	**2016**
58	JPE58	Rural and Urban bus arrival and departure system for metro using WPAN and GSM.	**Zigbee and GSM**	**2016**
59	JPE59	Sand Box: Sand theft monitoring and prevention system with alert system using radio frequency grid.	**Zigbee and GSM**	**2016**
60	JPE60	Territorial Collateral system for schools and colleges with GSM Alert using WPAN.	**Zigbee and GSM**	**2016**
		PLC and Zigbee		
61	JPE61	Future empowers for gestation using power line commutation for health care.	**PLC and Zigbee**	**2016**
62	JPE62	Global warming Guard: environment parameters monitoring using cable robot IN WPAN and PLC	**PLC and Zigbee**	**2016**
63	JPE63	High power arc free switching in industries and power distribution using PLC.	**PLC and Zigbee**	**2016**

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64	JPE64	Home appliance control and monitoring power usage control using Power line communication.	PLC and Zigbee	2016
65	JPE65	Debris and Eutrophication Control for Industrial Environmental Monitering IoT	IoT	2016
66	JPE66	Maximum demand control using and over load identification using power line communication.	PLC and Zigbee	2016
67	JPE67	Power cable car: futuristic public transit pods pickup and drop by power line communication.	PLC and Zigbee	2016
68	JPE68	Power line communication based home automation system	PLC	2016
69	JPE69	Solar Power and Wind power Management system using Power line communication.	PLC and Zigbee	2016
70	JPE70	TDT: Data Remote Monitoring by Power Line communication in Locomotives and Notification system.	PLC and Zigbee	2016
71	JPE71	Unmanned nuclear power plant area for safety and Remote access using power line communication.	PLC and Zigbee	2016
		Application oriented by PIC18F45J11		
72	JPE72	Cost net deep sea fishermen patrol system for coastal positioning fishery.	Application oriented by PIC18F45J11	2016
73	JPE73	GPS Patrol: Deep Sea Fishermen Patrol System for Coastal Intruder Positioning and Inshore Fishery Control	Application oriented by PIC18F45J11	2016
74	JPE74	Hand Talk Intelligent sign language recognition for deaf and dumb to interact by smart phones.	Application oriented by PIC18F45J11	2016

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75	JPE75	Iswimband: automatic waist airbag drowning prevention system based on underwater monitor system using smartphone.	Application oriented by PIC18F45J11	2016
76	JPE76	Key less data acquisition for automobiles using wireless fidelity using smart phone	Application oriented by PIC18F45J11	2016
77	JPE77	On-board diagnostic tool: Power on self-test for automotive using smart phone in WPAN.	Application oriented by PIC18F45J11	2016
78	JPE78	Real-Time Gait Feedback and Training kit via smart phones for physical fitness in graphical representation	Application oriented by PIC18F45J11	2016
79	JPE79	Self-scheduled performance monitoring of distributed solar panel.	Application oriented by PIC18F45J11	2016
80	JPE80	Smart ware coma patient health monitoring in hospitality for doctors perceive.	Application oriented by PIC18F45J11	2016
Using ARM CORTEX M4				
81	JPE81	Driverless Intelligent Vehicle for Future Public Transport: GPS Guided Autopilot Robotic Implementation	Using ARM CORTEX M4	2016
82	JPE82	Embedded systems headset to help blind people navigate cities using wireless fidelity and smart phone android	Using ARM CORTEX M4	2016
83	JPE83	GPS Less Street Positioning System for Restaurant and ATM Locating based on ARM Cortex M3 and WPAN	Using ARM CORTEX M4	2016
84	JPE84	Home appliance Control using WPAN for energy management via Bluetooth and android Application.	Using ARM CORTEX M4	2016

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85	JPE85	Robot cash gate in ATM for safety using wireless fidelity digital card amount withdrawal.	Using ARM CORTEX M4	2016
86	JPE86	Smart Electronic Notice Board for colleges and office using Wi-Fi using Wireless Personal Area Network	Using ARM CORTEX M4	2016
87	JPE87	Smart Ware Perceive patient hospitality using wireless fidelity for doctors.	Using ARM CORTEX M4	2016
88	JPE88	Smart ware road hazard warning for velocipede with advance control system using wireless fidelity.	Using ARM CORTEX M4	2016
89	JPE89	Super-lock next generation auto theft prevention system using smart gravitational lock vehicle	Using ARM CORTEX M4	2016
90	JPE90	Swarmbots: Multi-Robot Mapping Exploration for First-Responder in Military Operations.	Using ARM CORTEX M4	2016
91	JPE91	Wi-Fi telematics for locomotives path surveillance with exact location by GPS and GSM	Using ARM CORTEX M4	2016
RFID				
92	JPE92	Authentication And Access Control System For Security Personnel Using RFID	RFID	2016
93	JPE93	Authorized home appliances control based RFID	RFID	2016
94	JPE94	Examination room guide using RFID for the jumbling system based Exams	RFID	2016
95	JPE95	Paperless E-Cash Management System By Using An RFID Technology	RFID	2016
96	JPE96	RFID based automatic Bus Ticketing system	RFID	2016
97	JPE97	RFID based student no dues status checking and paying system and displaying	RFID	2016
98	JPE98	Robust and efficient password-authenticated key agreement using smart cards for campus management	RFID	2016

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99	JPE99	Smart card based access control	RFID	2016
GSM				
100	JPE100	Abnormal Heart Rate Detection and Alert System using GSM	GSM	2016
101	JPE101	An Embedded system and RFID solution for transport related issues	GPS ,GSM and RFID	2016
102	JPE102	Building Automation System using GSM Enabled Mobile Phone	GSM	2016
103	JPE103	Design of Auto -guard systems based on RFID and network	GSM and RFID	2016
104	JPE104	GSM Based Train Tracking System	GSM	2016
105	JPE105	Remote home security system based on WSN and GSM technology	GSM and WSN	2016
106	JPE106	Remote notice board implementation using gsm communication	GSM	2016
107	JPE107	Wireless Gas Leakage Monitoring System	GSM	2016
PIC				
108	JPE108	Adaptive cruise control system using ultra sonic based distance sensor	PIC	2016
109	JPE109	Automatic room light controller with visitor counter using PIC	PIC	2016
110	JPE110	Coin based cell phone charger	PIC	2016
111	JPE111	Distributed Sensor for Steering Wheel Grip Force Measurement in Driver Fatigue Detection	PIC and sensors	2016
112	JPE112	Electronic Medical Record for Effective Patient Monitoring Database	PIC and RFID	2016
113	JPE113	Wireless Precision Stepper motor control using RF 433 MHz	PIC	2016

		Wireless Embedded & Others		
114	JPE114	A robot motion authoring using finger-robot interaction	Wireless	2016
115	JPE115	Design and Implementation of PYRO-electric Infrared Sensor based Security System	Security based Using IR sensor	2016
116	JPE116	Design of Monitoring System for Coal Mine Safety Based on Wireless Sensor Network	WSN	2016
117	JPE117	Greenhouse monitoring and controlling system	MC and sensors	2016
118	JPE118	Intelligent Car Security System	Embedded	2016
119	JPE119	Radio-Controlled Surveillance System For border	PIR sensors	2016
120	JPE120	Smart Room Controller using Human Presence Detector	IR sensors	2016
121	JPE121	SMS based Remote Fuel Cutoff for Stolen Vehicles	Wireless Embedded	2016
122	JPE122	Solar Highway Lighting System with Auto Turn Off On Day Time with LCD Display	LDR	2016
123	JPE123	Super-Lock: Next Generation Auto Theft Prevention System using Smart Gravitational Lock, Cryptographic Keyless Entry, Touchscreen Ignition, Ubiquitous Vehicle Tracking, GPS fencing and Remote Fuel Cut-off	Wireless Embedded	2016

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PROJECT SUPPORT TO REGISTERED STUDENTS:

1) Project Explanation.

2) Abstract Document.

3) Future Enhancement (based on Requirement).

4) Modified Title / Modified Abstract (based on Requirement).

5) Complete Source Code.

6) How to Run execution help file.

7) Software Packages

8) International Conference / International Journal Publication based on your project.