



- Research & Development Program(RDP)
- Final Year Academic Project(FAP) In Software And Embedded Technologies
- Application Development Program(ADP)

## **PROJECT TITLES GUIDE**

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### **2019 - 2020**

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***SPIRO SOLUTIONS PVT LTD***  
***T.NAGAR, CHENNAI-17.***

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## SPIRO PROJECT TITLES 2019 – 2020

<b>ANDROID</b>			
S. No.	PROJECT CODE	TITLE	YEAR
1.	ITADO1	Delegated Authorization Framework for EHR Services using Attribute Based Encryption	2019
2.	ITAD02	Fresh-Product Trade Management Under Government-Backed Incentives A Case Study of Fresh Flower Market	2019
3.	ITAD03	Dual Sourcing and Joint Replenishment of Hospital Supplies	2019
4.	ITAD04	Engineering Project Health Management A Computational Approach for Project Management Support Through Analytics of Digital Engineering Activity	2019
5.	ITAD05	Auction-based Data Transaction in Mobile Networks Data Allocation Design and Performance Analysis	2019
6.	ITAD06	Tour Sense A Framework for Tourist Identification and Analytics Using Transport Data	2019
7.	ITAD07	Smart Resource Allocation for Mobile Edge Computing A Deep Reinforcement Learning Approach	2019
8.	ITAD08	Classification and Mapping of Adaptive Security for Mobile Computing	2019
9.	ITADO9	Analysis of the Implementation of a Lean Service in a Shared Service Center A Study of Stability and Capacity	2019

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10.	ITAD10	Too Many User-Reviews, What Should App Developers Look at First	2019
11.	ITAD11	Privacy Risk Analysis and Mitigation of Analytics Libraries in the Android Ecosystem	2019
12.	ITAD12	Privacy Preserving Searchable Encryption with Fine-grained Access Control	2019
13.	ITAD13	Strategic Sourcing Under Supplier Development Investments	2019
14.	ITAD14	Demand-Side Energy Management Considering Price Oscillations for Residential Building Heating and Ventilation Systems	2019
15.	ITAD15	Building and Studying a Password Store that Perfectly Hides Passwords from Itself	2019
16.	ITAD16	Internet of Things Mobile - Air Pollution Monitoring System (IoT-Mobair)	2019
17.	ITAD17	Demand Response for Home Energy Management using Reinforcement Learning and Artificial Neural Network	2019
18.	ITAD18	Considering User Behavior in the Quality of Experience Cycle Towards Proactive QoE-aware Traffic Management	2019
19.	ITAD19	The Feasibility of Injecting Inaudible Voice Commands to Voice Assistants	2019
20.	ITAD20	A smartphone application for automated decision support in cognitive task based evaluation of central nervous system motor disorders	2019
21.	ITAD21	A Context-aware Framework for Detecting Sensor-based Threats on Smart Devices	2019

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22	ITAD22	A Multi-Tag Cooperative Localization Algorithm Based on Weighted Multidimensional Scaling for Passive UHF RFID	2019
23	ITAD23	Looking Back! Using Early Versions of Android Apps as Attack Vectors	2019
24	ITAD24	RAMTEL Robust Acoustic Motion Tracking using Extreme Learning Machine for Smart Cities	2019
25	ITAD25	Developing a Low-Cost Wearable Personal Exposure Monitor for Studying Respiratory Diseases using Metal Oxide Sensors	2019



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<b>BIG DATA</b>			
<b>S. No.</b>	<b>PROJECT CODE</b>	<b>TITLE</b>	<b>YEAR</b>
26	ITBDO1	Trust Relationship Prediction In E-Commerce Platform	2019
27	ITBD02	Textual Analysis Online Reviews Based On Polymerization Sentimental Model	2019
28	ITBD03	Predicting University Dropout through Data Analysis	2019
29	ITBD04	Real-Time Fine-Grained Air Quality Sensing Networks in Smart City	2019
30	ITBD05	A Noval Approach For Big Data Classification Using Railway Network	2019
31	ITBD06	A Context-Aware Online Learning Approach Video Big Data Retrieval Over Media	2019
32	ITBD07	A Time Series Analysis For Agricultural Area Detection	2019
33	ITBD08	Flight Scheduling For Airport Throughput And Flight Delay Optimization	2019
34	ITBDO9	Breast Cancer Detection Using Extreme Learning Analysis Using Big Data	2019
35	ITBD10	A Framework For Tourist Identification And Analytics Using transport Data	2019

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36	ITBD11	Hierarchical Density-Based Clustering using Map Reduce	2019
37	ITBD12	Driving Safety Risk Analysis Using Naturalistic Driving Data	2019
38	ITBD13	Online Learning Environment For Students	2019
39	ITBD14	Efficient Provenance Management Via Clustering & Hybrid Storage In Big Data Environment	2019
40	ITBD15	Wireless Communication Systems And Health Monitoring System For Mine Areas	2019
41	ITBD16	IOT Enabled Green House	2019
42	ITBD17	Composite Micro beads For A Drug Delivery System	2019
43	ITBD18	Personalization For Feature Selection In Clinical For Auto-Filling	2019
44	ITBD19	A proposed Model for Predicting Employees Performance Using Data Mining Techniques	2019
45	ITBD20	Data Mining For Energy Analysis Of A Large Data Set Of Flats	2019

## SPIRO PROJECT TITLES 2019 – 2020

JAVA			
IEEE TRANSACTION ON CLOUD COMPUTING			
S.NO.	PROJECT CODE	TITLE	YEAR
46	ITJCC01	A Two-Stage Auction Mechanism for Cloud Resource Allocation	2019
47	ITJCC02	A User-Centric Data Protection Method for Cloud Storage Based on Invertible DWT	2019
48	ITJCC03	Secure Verifiable Database Supporting Efficient Dynamic Operations in Cloud Computing	2019
49	ITJCC04		2019
50	ITJCC05		2019
51	ITJCC06	Dynamic Cloud Resource Allocation Considering Demand Uncertainty	2019
52	ITJCC07		2019
53	ITJCC08	Towards Achieving Keyword Search over Dynamic Encrypted Cloud Data with Symmetric-Key Based Verification	2019
54	ITJCC09		2019



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55	ITJCC10	Key Management Scheme for Secure Channel Establishment in Fog Computing	2019
56	ITJCC11	Provable Data Possession with Outsourced Data Transfer	2019
57	ITJCC12	Revocable Identity-Based Broadcast Proxy Re-encryption for Data Sharing in Clouds	2019
58	ITJCC13		2019
<b>IEEE TRANSACTION ON DATA MINING</b>			
59	ITJDM01	On Combining Biclustering Mining and AdaBoost for Breast Tumor Classification.	2019
60	ITJDM02	A Hierarchical Attention Model for Social Contextual Image Recommendation	2019
61	ITJDM03	Cleaning Data with Forbidden Itemsets	2019
62	ITJDM04	Entropy-based Sampling Approaches for Multi-class Imbalanced Problems	2019
63	ITJDM05	Private Link: Privacy-Preserving Integration and Sharing of Datasets	2019
64	ITJDM06		2019
65	ITJDM07		2019
66	ITJDM08	Multi-view Scaling Support Vector Machines for Classification and Feature Selection	2019

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67	ITJDM09	SentiDiff: Combining Textual Information and Sentiment Diffusion Patterns for Twitter Sentiment Analysis	2019
68	ITJDM10	Variable Weighting in Fuzzy k-Means Clustering to Determine the Number of Clusters	2019
<b>IEEE TRANSACTION ON NETWORK</b>			
69	ITJNW01	On the Efficiency of Sharing Economy Networks	2019
70	ITJNW02		2019
71	ITJNW03	Diffusion in Social Networks: Effects of Monophilic Contagion, Friendship Paradox and Reactive Networks	2019
72	ITJNW04		2019
73	ITJNW05	Extended File Hierarchy Access Control Scheme with Attribute Based Encryption in Cloud Computing	2019
74	ITJNW06		2019
<b>IEEE TRANSACTION ON NETWORK SECURITY</b>			
75	ITJNS01	Blockchain-Based Public Integrity Verification for Cloud Storage against Procrastinating Auditors	2019
76	ITJNS02	On the Application of Blockchains to Spectrum Management	2019

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77	ITJNS03		2019
78	ITJNS04	Customized Network Security for Cloud Service	2019
79	ITJNS05	Authenticated Medical Documents Releasing with Privacy Protection and Release Control	2019
80	ITJNS06	Design of Secure Authenticated Key Management Protocol for Cloud Computing Environments	2019
<b>IEEE TRANSACTION ON MOBILE COMPUTING</b>			
81	ITJMC01	A Multi-User Mobile Computation Offloading and Transmission Scheduling Mechanism for Delay-Sensitive Applications	2019
<b>IEEE TRANSACTION ON IMAGE PROCESSING</b>			
82	ITJIM01	A New Payload Partition Strategy in Color Image Steganography	2019
83	ITJIM02	Fundamental Visual Concept Learning from Correlated Images and Text	2019
<b>IEEE TRANSACTION ON SOFTWARE ENGINEERING</b>			
84	ITJSE01	Mining Treatment-Outcome Constructs from Sequential Software Engineering Data	2019
85	ITJSE02	Software Development Process Ambidexterity and Project Performance: A Coordination Cost-Effectiveness View	2019

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DOTNET			
IEEE TRANSACTION ON CLOUD COMPUTING			
S.NO	PROJECT CODE	TITLE	YEAR
86	ITDCC01	Auction-based VM Allocation for Deadline Sensitive Tasks in Distributed Edge Cloud	2019
87	ITDCC02	Block chain-Based Public Integrity Verification for Cloud Storage against Procrastinating Auditors	2019
88	ITDCC03	Distributed Personal Cloud Storage without Third Parties	2019
89	ITDCC04	Enabling Authorized Encrypted Search for Multi-Authority Medical Databases	2019
90	ITDCC05	Quantitative Analysis of Opacity in Cloud Computing Systems	2019
91	ITDCC06	Extended File Hierarchy Access Control Scheme with Attribute Based Encryption in Cloud Computing	2019
92	ITDCC07	Dynamic Demand Prediction and Allocation in Cloud Service Brokerage	2019
93	ITDCC08	Online Multi-Workflow Scheduling under Uncertain Task Execution Time in IaaS Clouds	2019
94	ITDCC09	Privacy Preserving Searchable Encryption with Fine-grained Access Control	2019
95	ITDCC10	Provable Data Possession with Outsourced Data Transfer	2019
96	ITDCC11	Secure Data Group Sharing and Conditional Dissemination with Multi-Owner in Cloud Computing	2019

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IEEE TRANSACTION ON DATA MINING			
97	ITDDM01	A Constrained Randomization Approach to Interactive Visual Data Exploration with Subjective Feedback	2019
98	ITDDM02	Active Online Learning for Social Media Analysis to Support Crisis Management	2019
99	ITDDM03	Approximate Nearest Neighbor Search on High Dimensional Data — Experiments, Analyses, and Improvement	2019
100	ITDDM04	Personalized Recommendation of Social Images by Constructing a User Interest Tree with Deep Features and Tag Trees	2019
101	ITDDM05	Graph K-means based on Leader Identification, Dynamic Game and Opinion Dynamics	2019
102	ITDDM06	GMC: Graph-based Multi-view Clustering	2019
103	ITDDM07	Opinion Behavior Analysis in Social Networks under the Influence of Co-Opetitive Media	2019
104	ITDDM08	GERF: a group event recommendation framework based on learning-to-rank	2019
105	ITDDM09	Shared Multi-view Data Representation for Multi-domain Event Detection	2019
106	ITDDM10	TourSense: A Framework for Tourist Identification and Analytics Using Transport Data	2019

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<b>IEEE TRANSACTION ON NETWORK</b>			
107	ITDNW01	A Hierarchical Distributed Control Plane for Path Computation Scalability in Large Scale Software-Defined Networks	2019
108	ITDNW02	A Survey of Delay-Based and Hybrid TCP Congestion Control Algorithms	2019
109	ITDNW03	Failure-Aware Protection for Many-to-Many Routing in Content Centric Networks	2019
110	ITDNW04	Network Scheduling and Control Co-design for Multi-loop MPC	2019
111	ITDNW05	Topology Identification of Multiplex Delayed Networks	2019
<b>IEEE TRANSACTION ON NETWORKING SECURITY</b>			
112	ITDNS01	An Integrated Framework for Privacy-Preserving based Anomaly Detection for Cyber-Physical Systems	2019
113	ITDNS02	Convolution Attack on Frequency-Hopping by Full-Duplex Radios	2019
114	ITDNS03	Randomized Security Patrolling for Link Flooding Attack Detection	2019
115	ITDNS04	Secure Binary Image Steganography with Distortion Measurement Based on Prediction	2019
116	ITDNS05	Towards All-Optical Layered Encryption: A Feasibility Analysis of Optical Stream Cipher	2019
<b>IEEE TRANSACTION ON MOBILE COMPUTING</b>			
117	ITDMC01	Smart Resource Allocation for Mobile Edge Computing: A Deep Reinforcement Learning Approach	2019

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IEEE TRANSACTION ON IMAGE PROCESSING			
118	ITDIM01	Variational Textured Dirichlet Process Mixture Model with Pairwise Constraint for Unsupervised Classification of Polarimetric SAR Images	2019
IEEE TRANSACTION ON SOFTWARE ENGINEERING			
119	ITDSE01	Architecture Anti-patterns: Automatically Detectable Violations of Design Principles	2019
120	ITDSE02	Studying Task Processes for Improving Programmer Productivity	2019



PYTHON			
S.No.	PROJECT CODE	TITLE	YEAR
MACHINE LEARNING			
121.	ITPYML01	Prediction of air quality using supervised machine learning approach	2019

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122.	ITPYML02	Prediction of diabetes classification using machine learning approach	2019
123.	ITPYML03	Prediction of consumer purchase intension using social media data's	2019
124.	ITPYML04	Crime data analysis of machine learning approach	2019
125.	ITPYML05	Prediction of network attacks using SMLT	2019
126.	ITPYML06	Performance analysis of Breast cancer attributes using GUI	2019
127.	ITPYML07	Prediction of medical health care alert by symptoms	2019
128.	ITPYML08	Prediction of Crop yield and cost using ML method	2019
<b>IMAGE PROCESSING</b>			
129.	ITPYIP01	Retrieves images based on feature similarities by CBIR system	2019
130.	ITPYIP02	Detecting and tracking various faces in sources using artificial neuronal network	2019
131.	ITPYIP03	Face Recognition based Attendance Management system using opencv	2019
132.	ITPYIP04	Object tracking system using deep learning approach	2019
133.	ITPYIP05	Plant Disease Recognition using Deep learning approach	2019
134.	ITPYIP06	Person Re-Identification of visualization with deep learning technique	2019



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135.	ITPYIP07	Deep learning for Crypto currency price prediction	2019
136.	ITPYIP08	Detection of distracted drivers on the road using Deep learning approach	2019
137.	ITPYIP09	Object detection and segmentation on tensor flow using deep learning approach	2019
<b>WEB APPLICATION</b>			
138.	ITPYWB01	Prediction of student performance management system	2019
139.	ITPYWB02	Hospital Appointment Management system	2019
140.	ITPYWB03	Sharing services of autonomous vehicles system	2019
141.	ITPYWB04	Web Scraping reviews of customer for specified product from e-commerce websites	2019
<b>NATURAL LANGUAGE PROCESSING</b>			
142.	ITPYNLP01	GUI based Text Summarizing application of social response	2019
143.	ITPYNLP02	Speech Emotion Recognition using machine learning method	2019
144.	ITPYNLP03	Sentimental analysis on tweets data using machine learning algorithm	2019
<b>RASPBERRYPI</b>			
145.	ITPYRP01	Intelligent access control system for safety critical areas	2019

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PHP			
S. No.	PROJECT CODE	TITLE	YEAR
146.	ITPHPO1	Dual Sourcing and Joint Replenishment of Hospital Supplies	2019
147.	ITPHP02	Hybrid Influences of Social Subsystem and Technical Subsystem Risks in the Crowdsourcing Marketplace	2019
148.	ITPHP03	Privacy-preserving Task Scheduling for Time-sharing Services of Autonomous Vehicles	2019
149.	ITPHP04	Block chain-Enabled Smart Contracts: Architecture, Applications, and Future Trends	2019
150.	ITPHP05	An Empirical Study of Obsolete Answers on Stack Overflow	2019
151.	ITPHP06	SSPA-LBS: Scalable And Social-Friendly Privacy-Aware Location-Based Services	2019
152.	ITPHP07	Auction-based Data Transaction in Mobile Networks: Data Allocation Design and Performance Analysis	2019
153.	ITPHP08	Privacy-Preserving User Profile Matching in Social Networks	2019
154.	ITPHPO9	Tour Sense: A Framework for Tourist Identification and Analytics Using Transport Data	2019
155.	ITPHP10	Manufacturing Management in Process Industries: The Impact of Market Conditions	2019
156.	ITPHP11	Calories In Diabetes Management	2019

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157.	ITPHP12	Enabling Authorized Encrypted Search for Multi-Authority Medical Databases	2019
158.	ITPHP13	Distributed No-Wait Flow-Shop Scheduling Problem With Sequence-Dependent Setup Time	2019
159.	ITPHP14	Distribution System Services Provided by Electric Vehicles: Recent Status, Challenges, and Future Prospects	2019
160.	ITPHP15	A Comparison Study on Stochastic Modeling Methods for Home Energy Management System	2019
161.	ITPHP16	A Deep Learning Approach to Infer Employment Status of Passengers by Using Smart Card Data	2019
162.	ITPHP17	An Automated Machine Learning Approach for Smart Waste Management Systems	2019
163.	ITPHP18	Client-side Service for Recommending Rewarding Routes to Mobile Crowdsourcing Workers	2019
164.	ITPHP19	Agriculture product analysis system	2019
165.	ITPHP20	Re-Plannable Automated Parking System With a Standalone Around View Monitor for Narrow Parking Lots	2019

## EDUCATION PARTNERS:



## TECHNOLOGIES AND DOMAIN USED:

**IEEE 2019, Java, J2ee, Android, Dot Net, 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/gprs, Power Electronics & Systems, Electrical, Dsp, Rtos, Bio Metrics, Etc.**

## FEATURES:

- **Latest 2019 Ieee, Science Direct, Acm Based Project Concept And Solutions.**
- **State Of The Art Infrastructure, Innovative Project Training Methods.**
- **All Our Efforts Are Focused On Students To Meet Industry Requirements.**
- **Our Environments Is Encapsulated With Doctorates, Professionals And Other Experts.**
- **Excellent Placements Through Our Spiro Hr Managements Consultants (smc) Pvt Ltd.**

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