2016-2017 NS2 PROJECTS LIST

S.NO	Project Code	IEEE 2016-17 NS2 Project Titles	Domain	Lang/Year
1	N1601	A Novel Approach for Efficient Usage of Intrusion Detection System in Mobile Ad Hoc Networks	MANET	NS2/2016
2	N1602	D2D: Delay-Aware Distributed Dynamic Adaptation of Contention Window in Wireless Networks	MANET	NS2/2016
3	N1603	Detecting Colluding Blackhole and Greyhole Attacks in Delay Tolerant Networks	MANET	NS2/2016
4	N1604	Distance-Based Location Management Utilizing Initial Position for Mobile Communication Networks	MANET	NS2/2016
5	N1605	Mitigating Denial of Service Attacks in OLSR Protocol Using Fictitious Nodes	MANET	NS2/2016
6	N1606	Opportunistic Routing With Congestion Diversity in Wireless Ad Hoc Networks	MANET	NS2/2016
7	N1607	Top-k Query Processing and Malicious Node Identification Based on Node Grouping in MANETs	MANET	NS2/2016
8	JPN1608	Resisting Blackhole Attacks on MANETs	MANET (IEEE CONFERENCE)	NS2/2016
9	JPN1609	A Kautz-Based Wireless Sensor and Actuator Network for Real-Time, Fault-Tolerant and Energy-Efficient Transmission	WSN (Routing)	NS2/2016
10	JPN1610	CANS: Towards Congestion-Adaptive and Small Stretch Emergency Navigation with Wireless Sensor Networks	WSN (Routing)	NS2/2016

11	JPN1611	Cluster-Based Routing for the Mobile Sink in Wireless Sensor Networks With Obstacles	WSN (Routing)	NS2/2016
12	JPN1612	Code-Based Neighbor Discovery Protocols in Mobile Wireless Networks	WSN (Routing)	NS2/2016
13	JPN1613	DaGCM: A Concurrent Data Uploading Framework for Mobile Data Gathering in Wireless Sensor Networks	WSN (Routing)	NS2/2016
14	JPN1614	Dictionary Based Secure Provenance Compression for Wireless Sensor Networks	WSN (Routing)	NS2/2016
15	JPN1615	Distributed Emergency Guiding with Evacuation Time Optimization Based on Wireless Sensor Networks	WSN (Routing)	NS2/2016
16	JPN1616	Duplicate Detectable Opportunistic Forwarding in Duty-Cycled Wireless Sensor Networks	WSN (Routing)	NS2/2016
17	JPN1617	Fair Routing for Overlapped Cooperative Heterogeneous Wireless Sensor Networks	WSN (Routing)	NS2/2016
18	JPN1618	Geographic and Opportunistic Routing for Underwater Sensor Networks	WSN (Routing)	NS2/2016
19	JPN1619	iPath: Path Inference in Wireless Sensor Networks	WSN (Routing)	NS2/2016
20	JPN1620	Joint Optimization of Lifetime and Transport Delay under Reliability Constraint Wireless Sensor Networks	WSN (Routing)	NS2/2016
21	JPN1621	Location aware sensor routing protocol for mobile wireless sensor networks	WSN (Routing)	NS2/2016
22	JPN1622	Maximizing Data Collection Throughput on a Path in Energy Harvesting Sensor Networks Using a Mobile Sink	WSN (Routing)	NS2/2016
23	JPN1623	Maximum Data Collection Rate in Rechargeable Wireless Sensor Networks with Multiple Sinks	WSN (Routing)	NS2/2016

24	JPN1624	Mobile Coordinated Wireless Sensor Network: An Energy Efficient Scheme for Real-Time Transmissions	WSN (Routing)	NS2/2016
25	JPN1625	NACRP: A Connectivity Protocol for Star Topology Wireless Sensor Networks	WSN (Routing)	NS2/2016
26	JPN1626	Privacy-Preserving Data Aggregation in Mobile Phone Sensing	WSN (Routing)	NS2/2016
27	JPN1627	RSSI-based Localization through Uncertain Data Mapping for Wireless Sensor Networks	WSN (Routing)	NS2/2016
28	JPN1628	Towards Distributed Optimal Movement Strategy for Data Gathering in Wireless Sensor Networks	WSN (Routing)	NS2/2016
29	JPN1629	DTMAC: A Delay Tolerant MAC Protocol for Underwater Wireless Sensor Networks	UWSN (Routing)	NS2/2016
30	JPN1630	A Secure and Efficient ID-Based Aggregate Signature Scheme for Wireless Sensor Networks	WSN (Security)	NS2/2016
31	JPN1631	ActiveTrust: Secure and Trustable Routing in Wireless Sensor Networks	WSN (Security)	NS2/2016
32	JPN1632	Adaptive and Channel-Aware Detection of Selective Forwarding Attacks in Wireless Sensor Networks	WSN (Security)	NS2/2016
33	JPN1633	Analysis of One-Time Random Projections for Privacy Preserving Compressed Sensing	WSN (Security)	NS2/2016
34	JPN1634	Energy and Memory Efficient Clone Detection in Wireless Sensor Networks	WSN (Security)	NS2/2016
35	JPN1635	PKC-Based DoS Attacks-Resistant Scheme in Wireless Sensor Networks	WSN (Security)	NS2/2016
36	JPN1636	Reliable and Efficient Data Acquisition in Wireless Sensor Networks in the Presence of Transfaulty Nodes	WSN (Security)	NS2/2016

37	JPN1637	Traffic Decorrelation Techniques for Countering a Global Eavesdropper in WSNs	WSN (Security)	NS2/2016
38	JPN1638	A Pseudonym Management System to Achieve Anonymity in Vehicular Ad Hoc Networks	VANET	NS2/2016
39	JPN1639	A Threshold Anonymous Authentication Protocol for VANETs	VANET	NS2/2016
40	JPN1640	ART: An Attack-Resistant Trust Management Scheme for Securing Vehicular Ad Hoc Networks	VANET	NS2/2016
41	JPN1641	Coalition Formation for Cooperative Service-Based Message Sharing in Vehicular Ad Hoc Networks	VANET	NS2/2016
42	JPN1642	Contact-Aware Data Replication in Roadside Unit Aided Vehicular Delay Tolerant Networks	VANET	NS2/2016
43	JPN1643	DIVERT: A Distributed Vehicular Traffic Re-routing System for Congestion Avoidance	VANET	NS2/2016
44	JPN1644	Dual Authentication and Key Management Techniques for Secure Data Transmission in Vehicular Ad Hoc Networks	VANET	NS2/2016
45	JPN1645	LORA: Loss Differentiation Rate Adaptation Scheme for Vehicle-to-Vehicle Safety Communications	VANET	NS2/2016
46	JPN1646	SCRP: Stable CDS-Based Routing Protocol for Urban Vehicular Ad Hoc Networks	VANET	NS2/2016
47	JPN1647	Secure and Robust Multi-Constrained QoS Aware Routing Algorithm for VANETs	VANET	NS2/2016
48	JPN1648	A Hop-by-Hop Routing Mechanism for Green Internet	WIRELESS COMMUNICATIONS	NS2/2016
49	JPN1649	Achieving Optimal Traffic Engineering Using a Generalized Routing Framework	WIRELESS COMMUNICATIONS	NS2/2016

50	JPN1650	Assessing Performance Gains Through Global Resource Control of Heterogeneous Wireless Networks	**WIRELESS COMMUNICATIONS**	**NS2/2016**
51	JPN1651	Contact Duration Aware Data Replication in DTNs with Licensed and Unlicensed Spectrum	**WIRELESS COMMUNICATIONS**	**NS2/2016**
52	JPN1652	Cost-Aware Caching: Caching More (Costly Items) for Less (ISPs Operational Expenditures)	**WIRELESS COMMUNICATIONS**	**NS2/2016**
53	JPN1653	Design of Scheduling Algorithms for End-to-End Backlog Minimization in Wireless Multi-Hop Networks Under -Hop Interference Models	**WIRELESS COMMUNICATIONS**	**NS2/2016**
54	JPN1654	DSearching: Using Floating Mobility Information for Distributed Node Searching in DTNs	**WIRELESS COMMUNICATIONS**	**NS2/2016**
55	JPN1655	Dynamic Network Control for Confidential Multi-Hop Communications	**WIRELESS COMMUNICATIONS**	**NS2/2016**
56	JPN1656	Embedding IP Unique Shortest Path Topology on a Wavelength-Routed Network: Normal and Survivable Design	**WIRELESS COMMUNICATIONS**	**NS2/2016**
57	JPN1657	Ghost-in-ZigBee: Energy Depletion Attack on ZigBee based Wireless Networks	**Internet of Things (IoT)**	**NS2/2016**
58	JPN1658	Improving Access Point Association Protocols Through Channel Utilization and Adaptive Probing	**WIRELESS COMMUNICATIONS**	**NS2/2016**
59	JPN1659	LAAEM: A Method to Enhance LDoS Attack	**SECURE COMPUTING**	**NS2/2016**
60	JPN1660	Mimicry Attacks Against Wireless Link Signature and New Defense Using Time-Synched Link Signature	**SECURE COMPUTING**	**NS2/2016**
61	JPN1661	PROVEST: Provenance-based Trust Model for Delay Tolerant Networks	**SECURE COMPUTING**	**NS2/2016**
62	JPN1662	Routing Protocol for Heterogeneous Wireless Mesh Networks	**Mesh Networks**	**NS2/2016**

63	JPN1663	Opportunistic Piggyback Marking for IP Traceback	SECURE COMPUTING	NS2/2016
64	JPN1664	Secure Transmission Against Pilot Spoofing Attack: A Two-Way Training-Based Scheme	SECURE COMPUTING	NS2/2016
65	JPN1665	Security Analysis and Improvements on Two Homomorphic Authentication Schemes for Network Coding	SECURE COMPUTING	NS2/2016
66	JPN1666	Thwarting Selfish Behavior in 802.11 WLANs	NETWORKING	NS2/2016
67	JPN1667	Mobility Prediction Based Joint Stable Routing and Channel Assignment for Mobile Ad Hoc Cognitive Networks	COGNITIVE NETWORK	NS2/2016
68	JPN1668	Detecting Node Failures in Mobile Wireless Networks: A Probabilistic Approach	MOBILE COMPUTING	NS2/2016
69	JPN1669	Local Anchor Schemes for Seamless and Low-Cost Handover in Coordinated Small Cells	MOBILE COMPUTING	NS2/2016
70	JPN1670	Robotic Message Ferrying for Wireless Networks using Coarse-Grained Backpressure Control	MOBILE COMPUTING	NS2/2016
71	JPN1671	TCP-Aware Backpressure Routing and Scheduling	MOBILE COMPUTING	NS2/2016
72	JPN1672	Virtual Multipath Attack and Defense for Location Distinction in Wireless Networks	MOBILE COMPUTING	NS2/2016

PROJECT SUPPORT TO REGISTERED STUDENTS:

1) IEEE Base paper.

2) Abstract Document.

3) Future Enhancement (based on Requirement).

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

5) Complete Source Code.

6) Final Report / Document

   (Document consists of basic contents of about Abstract, Bibilography, Conclusion, Implementation, I/P & O/P Design, Introduction, Literature Survey, Organisation Profile, Screen Shots, Software Environment, System Analysis, System Design, System Specification, System Study, System Testing)

   (The chapter System Design consists of 5 diagrams: Data Flow, Use Case, Sequence, Class, Activity Diagram)

7) Review PPTs and Documents.

8) How to Run execution help file.

9) NS2 Software Package (Cygwin, NS2.28, How to install help file).

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