

## LESSON PLAN

Period (tentative)	Date	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1	20/5/12	Key definitions of main networks	I	PPT		
2	11/12	Advantages of SDN Security notability		"		
3	13/12	Unique Constraints Challenges		"		
4	14/12	Driving applications		"		
5	15/12	Enabling technologies for SDN		"		
6	16/12	Single Node Architecture - H/W Comparison	II	"		
7	17/12	Energy Consumption of SDN nodes		"		
8	18/12	Operating Systems for SDN environment		"		
9	21/12	Network Architecture - Security and Security		"		
10	22/12	Optimisation goals of SDN		"		
11	23/12	Get key Concepts		"		
12	28/12	Network technologies - Physical layer	III	"		
13	29/12	Security design Considerations		"		
14	30/12	Redundant Area networks (RAN)		"		
15	31/12	Hidden nodes Expanded node problem		"		
16	4/1/13	Topology of RAN, network in SDN		"		
17	5/1/13	MAC protocol for SDN - Issues in designing a MAC	IV	"		
18	6/1	Design goals of MAC protocol for SDN		"		
19	7/1	Classification of MAC protocols		"		
20	8/1	Contention-based MAC protocols		"		

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21	11/1	Contention-based protocol with reservation mechanism	V	PPT		
22	12/1	Contention-free MAC protocols with scheduling mechanism		"		
23	18/1	MAC protocols that used for direct-to-link		"		
24	19/1	Other MAC protocols		"		
25	20/1	Routing protocols - Introduction	VI	"		
26	21/1	Issues in designing Routing protocols for SDN networks		"		
27	28/1	Classification of Routing protocols		"		
28	25/1	Table-driven Routing protocols		"		
29	27/1	On-demand Routing protocols		"		
30	28/1	Hybrid Routing protocols		"		
31	29/1	Routing protocols with explicit flooding mechanism		"		
32	5/02	Heuristic Routing protocols		"		
33	9/02	Power-aware Routing protocols		"		
34	10/02	Proactive Routing protocols		"		
35	11/02	Truncated Layer 2 Security Protocol - Introduction	VI	"		
36	12/02	Issues in designing a truncated layer protocol for SDN networks		"		
37	15/02	Design goals of Truncated layer protocols		"		
38	16/02	Classification of Truncated layer protocols		"		
39	17/02	TCP over Ad hoc wireless network		"		
40	18/02	Other truncated layer protocols for Ad hoc wireless network		"		

Period	Date	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
41.	19/02	Infrastructure Establishment - Topology Control	VII	PPT		
42.	22/02	Clustering		"		
43.	23/02	Time Synchronization		"		
44.	24/02	Location & Path routing		"		
45.	25/02	Security forking & Control		"		
46.	26/02	Security in Ad-hoc wireless network		"		
47.	28/02	Network Security Requirements		"		
48.	1/3	Identify challenges in Network partition		"		
49.	2/3	Network Security Attacks		"		
50.	3/3	Key management		"		
51.	4/3	Secure Routing in Ad-hoc wireless network		"		
52.	7/3	Secure routing protocols - Secure route discovery, security, mobility	VIII	"		
53.	8/3	Performance Challenge		"		
54.	9/3	Node-level Software Packet Flow		"		
55.	10/3	Node-level hardware		"		
56.	11/3	State - consistent programming		"		
57.	14/3	Applications of WSN - 5. Ultra application network		"		
58.	15/3	wireless fidelity application		"		
59.	16/3	Future direction		"		
60.	19/3	Home assignment		"		

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