

LESSON PLAN

Period	Date (tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1	1/12/14	over view of wire-less sensor NW's	I	BB		
2	2/12/14	key definitions of sensor networks	"	"		
3	3/12/14	Advantages of sensor networks	"	"		
4	4/12/14	Unique constraints & challenges	"	"		
5	5/12/14	Driving Applications	"	"		
6	8/12/14	Enabling technologies for wireless sensor networks	"	"		
7	9/12/14		"	"		
8	10/12/14	Architectures:	II	"		
9	11/12/14	Single node Architecture	"	"		
10	12/12/14	Hardware components	"	"		

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11	15/12/14	Energy Consumption of Routers	11	"		
12	16/12/14	Operating Systems & Execution Environments	11	"		
13	17/12/14	N/W Architecture	11	"		
14	18/12/14	Sample N/W scenarios	11	"		
15	19/12/14	Optimization Goals	11	PPT		
16	22/12/14	Figure of merit	11	"		
17	23/12/14	Gateway concepts	11	"		
18	24/12/14	networking technologies	11	"		
19	26/12/14	Physical layer & Transceiver design considerations	11	BS		
20	29/12/14	Personal area networks	11	"		

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21	30/12/14	hidden node & exposed node problem	5/11	"		
22	31/12/14	Topologies of PAN's	"	"		
23	1/1/15	MANET's	"	"		
24	2/1/15	WANET's	"	PPT		
25	3/1/15	Issues in designing a MAC protocol for Ad Hoc wireless N/W's	TV	PPT		
26	5/1/15	Design goals of MAC protocol for Ad hoc wireless networks	"	PPT		
27	6/1/15	classification of MAC protocols	"	"		
28	7/1/15	Contention Based protocols	"	"		
29	8/1/15	contention Based protocols with reservation	"	"		
30	9/1/15	mechanisms	"	"		

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31	19/01/15	Contention Based Protocols with scheduling	"	"		
32	20/1/15	Mechanisms	"	"		
33	21/1/15	MAC protocols that used Directional	"	"		
34	22/1/15	antennas	"	"		
35	23/1/15	Other MAC protocols	"	"		
		IMD				
36	2/2/15	Routing protocols Introduction	V	BB		
37	3/2/15	Issues in designing a Routing Protocol for Ad Hoc Wireless Networks	"	"		
38	4/2/15		"	"		
39	5/2/15	Classification of Routing protocols	"	"		
40	6/2/15	on-demand Routing protocols	"	"		

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41	9/2/15	Table driven Routing protocols	"	"		
42	10/2/15	on-Demand Routing protocols	"	"		
43	11/2/15	Hybrid Routing protocols	"	"		
44	12/2/15	Routing protocols with efficient flooding mechanisms Hierarchical Routing protocols	"	"		
45	13/2/15		"	"		
46	16/2/15	Power-Aware Routing protocols, Proactive Routing	"	PPT		
47	17/2/15	Transport layer & Security protocols	<u>VI</u>	"		
48	18/2/15	Issues in designing in a Transport layer Protocol for Ad Hoc W/L's	"	"		
49	19/2/15	Design layer Goals & Transport layer protocol	"	"		
50	20/2/15	Classification of Transport layer	"	BB		
		Solutions, TCP over Ad hoc wireless	"	"		
51	23/2/15	networks	"	"		
52	24/2/15	other transport layer protocols	"	"		
53	25/2/15	for Ad Hoc wireless networks	"	PPT		
		Infrastructure Establishment				
54	2/3/15	Topology Control	<u>VII</u>	"		
55	3/3/15	clustering, time synchronization	"	"		
56	4/3/15	Localization & positioning	"	"		
57	5/3/15	Security & control	"	"		

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
59	6/3/15	Security in WSN'S	"	"		
59	7/3/15	N/w security requirements	"	"		
60	10/3/15	Issues & challenges in security provisioning	"	"		
61	11/3/15	N/w security attacks	"	"		
62	12/3/15	Key management	"	"		
63	13/3/15	Secure routing in Ad hoc w/w's	"	"		
		SENSOR N/w Platform & Tools	"	"		
64	15/3/15	Sensor node HW	VIII	PPT		
65	17/3/15	Network mfg	"	"		
66	18/3/15	Programming challenges	"	BB		
67	19/3/15	Node level N/w Platforms	"	"		
68	20/3/15	Node level Simulators	"	PPT		
		State Centric programming	"	"		
69	23/3/15	Appl's ultra wideband Radio communication	"	"		
70	24/3/15	Wireless fidelity systems	"	"		
71	25/3/15	Future directions	"	"		
72	26/3/15	Home Automation	"	"		
73	27/3/15	Smart metering applications	"	"		
						For 1st
		II MID				