

LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1	10/12/15	Overview of Wireless Sensor Networks?	I	BA		
		Key Definitions of sensor networks.	"	"		
2	11/12	Advantages of sensor networks.	"	"		
3	14/12	Unique Constraints & Challenges	"	"		
4	15/12	Driving Applications	"	"		
5	16/12	Enabling Technologies for WSNs	"	"		
6	17/12	Architectures	II	"		
7	18/12	Single node Architecture - H/W Components	"	"		
8	21/12	Energy Consumption of sensor nodes.	"	PPF		
9	22/12	Operating Systems and	"	"		
10	23/12	Execution Environments	"	"		
11	24/12	W/S architecture - sensor network scenarios.	"	BS		
12	28/12	Optimization goals & figures of merit	"	"		
		Gateway concepts.	"	"		
13	29/12	Networking Technologies?	III	PPF		
		Physical Layer	"	"		
		Transceiver	"	"		

15	31/12	Personal Area Networks (PAN's)	"	"		
16	4/1/16	Hidden node & Exposed node Problem	"	"		
17	5/1/16	Topologies of PAN's, MANET's & WANET's	"	38		
18	5/1/16	MAC protocols for WSN's	IV	"		
19	6/1	Issues in designing a	"	"		
20	7/1	MAC Protocol for Ad Hoc wireless Networks.				
21	8/1	Design goals of a MAC Protocol for	"	PPT		
22	9/1	Ad Hoc wireless networks.				
23	11/1	Classification of MAC Protocols.	"	PPT		
24	12/1	Contention Based Protocol.	"	PPT		
25	18/1	Contention Based Protocol with	"	"		
26	19/01	Reservation mechanisms				

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27	20/1	Contention, Based	"	BB		
28	21/01	MAC protocols with scheduling mechanisms				
29	22/1	MAC protocols that use directional antennas	"	"		
30	23/1	Other MAC protocols.	"	"		
31	24/1	Routing Protocols	V	PPT		
32	25/1	Introduction	"	"		
33	26/1	Issues in Designing a Routing Protocol	"	"		
34	27/1	for Ad hoc Wireless networks.				
35	28/1	classification of Routing Protocols	"	BB		
36	29/1	Table-Driven Routing Protocols	"	"		
		on-demand Routing Protocols				
37	30/1	Hybrid Routing Protocols	"	"		
38	31/1	Routing Protocols with efficient flooding mechanisms	"	"		

			NO.	Methodology	Upon Review
40	16/2	Power-Aware Routing Protocols.	"	PPT	
41	16/2	Proactive Routing	"	"	
42	18/2	Transport layer & Security Protocols.	<u>VI</u>	BB	
43	18/2	Introduction	"	BB	
44	19/2	Issues in designing a Transport layer	"	PPT	
45	22/2	Protocol for Ad Hoc wireless networks.			
46	23/2	Classification of Transport layer solutions.	"	PPT	
47	24/2	TCP over Ad Hoc wireless networks.	"	BB	
48	28/2	Other Transport layer protocol for Ad hoc wireless network.	"	"	
49	26/2	Infrastructure Establishment.	<u>VII</u>	PPT	
50	29/2	Topology Control	"	"	
51	1/3	clustering	"	"	
52	2/3	Time Synchronization	"	"	

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53	4/3	Localization and Positioning	"	"		
54	5/3	Sensor Tasking and Control	"	"		
55	9/3	Security in WSN's	"	PPS		
		Security in Ad hoc wireless n/w's	"	"		
56	10/3	N/w Security requirements	"	"		
57	11/3	Issues and Challenges in Security provisioning	"	"		
58	14/3	N/w Security Attacks	"	BA		
		Key management	"	PER		
59	15/3	Secure Routing in Ad hoc wireless networks	"	"		
60	17/3	Secure N/w Platforms and Tools	VIII	"		
		Secure node Hardware	"	"		
		Berkeley nodes	"	"		

