SAVEETHA ENGINEERING COLLEGE
AUTONOMOUS
NAAC A GRADE
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACTIVITY BASED LEARNING

Course Code & Course Title : **CS6003- ADHOC AND SENSOR NETWORKS**
Year/Sem/Branch : **IV/VIII/ECE**
Name of Faculty : **J.JAYALAKSHMI**
Designation : **ASSOCIATE PROFESSOR**
Unit Title : **AD HOC NETWORKS – INTRODUCTION AND ROUTING**
Topic : **Types of Networks**
LO : **To introduce the student to the concepts involved in PAN, LAN, MAN, WAN, Internet etc.**
Bloom's Taxonomy Level : **Level 2- Understand**

S.No.	Title	Description
1	**Concept**	An ad-hoc network is a local area network (LAN) that is built spontaneously as devices connect. Ad-hoc is a communication mode that allows computers to directly communicate with each other without a router. A wireless sensor network (WSN) is a wireless network consisting of spatially distributed autonomous devices using sensors to monitor physical or environmental conditions. A WSN system incorporates a gateway that provides wireless connectivity back to the wired world and distributed nodes. the architecture and routing foe wireless network and challenges are discussed here.
2	**Challenges Faced**	Oral method of teaching made the students feel so vague as it was fully explanations.
3	**Name of the Activity**	Jigsaw
4	**Description of the Activity**	Team Activity- Jigsaw Made the students to form 3 per team Puzzle sheet was given to them Timer was set (5 min) Students were asked to arrange the puzzle and identify the network based on the capacity and connections

<table>
<tr><td></td><td></td><td>
<table>
<tr><th>Interprocessor distance</th><th>Processors located in same</th><th>Example</th></tr>
<tr><td>1 m</td><td>Square meter</td><td>Personal area network</td></tr>
<tr><td>10 m</td><td>Room</td><td rowspan="3">Local area network</td></tr>
<tr><td>100 m</td><td>Building</td></tr>
<tr><td>1 km</td><td>Campus</td></tr>
<tr><td>10 km</td><td>City</td><td>Metropolitan area network</td></tr>
<tr><td>100 km</td><td>Country</td><td rowspan="2">Wide area network</td></tr>
<tr><td>1000 km</td><td>Continent</td></tr>
<tr><td>10,000 km</td><td>Planet</td><td>The Internet</td></tr>
</table>
</td></tr>
<tr><td>5</td><td>Feedback from Learners (Consolidated)</td><td>

A descriptive feedback is collected from the students in my class. Some of the interesting feedbacks are as follows:
Total number of students enrolled: 33 students
She was a very good motivator, informative, great teacher.
Interactive learning. Good and helpful.
She is very polite. Easy to understand. Team work and we came to know how engineering is used in our day-to day life.
Discussing about how we identify the networks
She was a great teacher who kept her students focused and engaged in what she was teaching. She was very helpful outside of class as well.

</td></tr>
<tr><td>6</td><td>Feedback of the Faculty about this activity</td><td>The activity was so successful for the students to learn the topic except f or the time management.
The next time I would be redistributing time limits when I do this activity. In today’s scenario of education system, establishing synchronization Analysis Report Chart (Generated using Google Form): Common template can be created and shared between teaching and learning becomes a challenging task for teachers to cater the needs of heterogeneous students. Student belongs to various categories of learning such as auditory, visual, learning by doing etc</td></tr>
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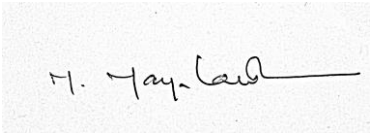
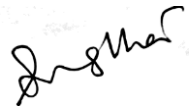
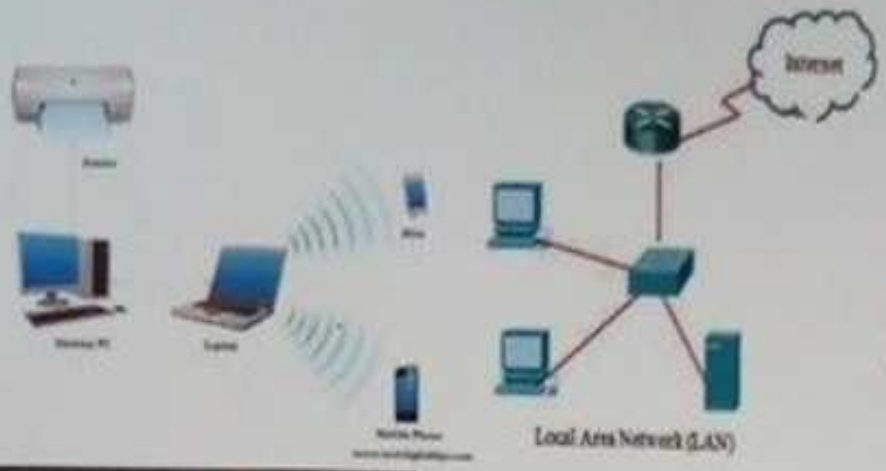
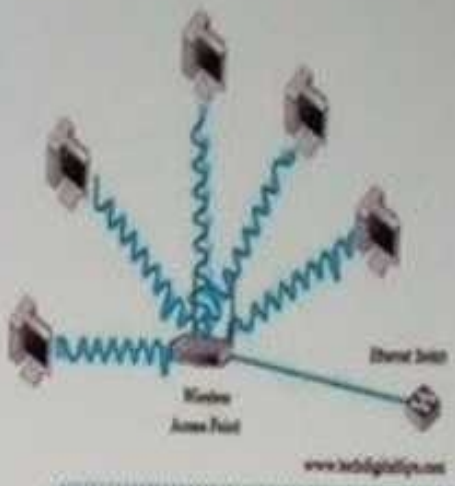
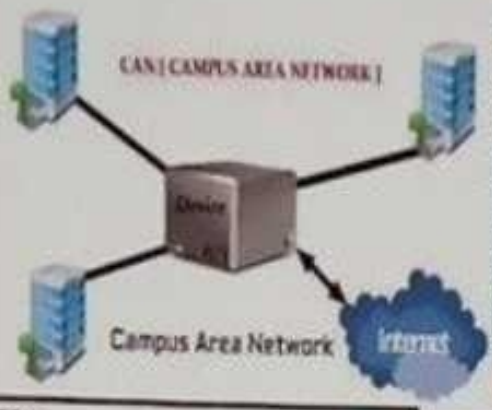


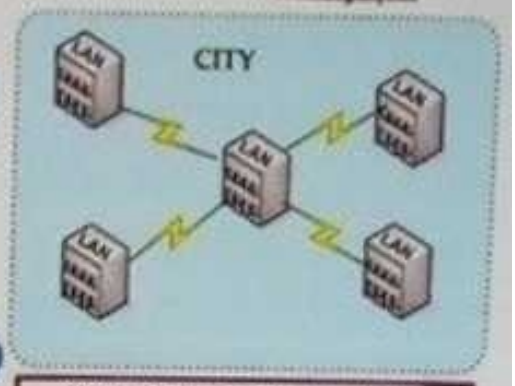


Signature of the Course Faculty **Signature of HOD**



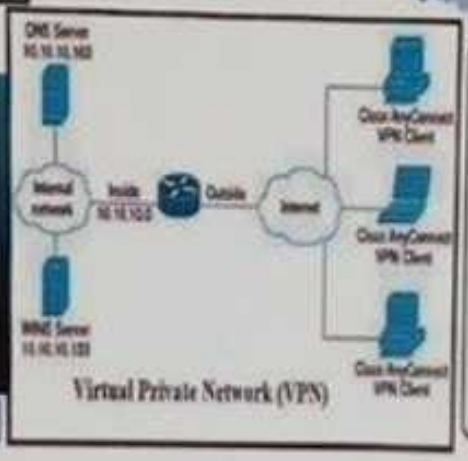


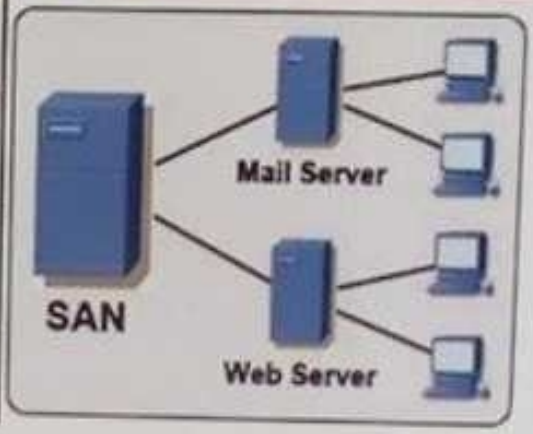


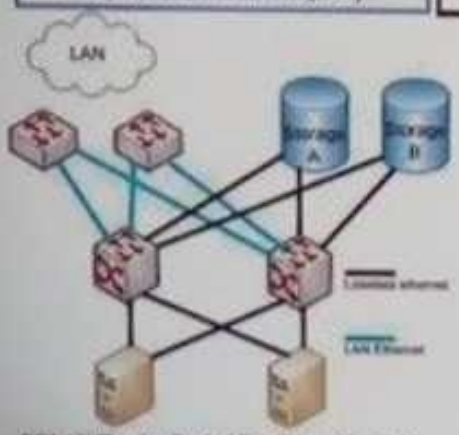


Metropolitan Area Network (MAN)

Enterprise Private Network (EPN)







POLAN [Passive Optical Local Area Network]

TEAM NAME:

BLT – 2 (UNDERSTAND)