**Vivekanand Education Society's Institute of Technology Department of Information Technology**

**Subject: Wireless Technology**

**Assignment No. 3**

**Topic: Metropolitan and Local Area Wireless Network**

**Class: D15 A Date: 20nd Feb 2024**

**Subject Incharge: Dr. Monali Chaudhari**

1. Explain basic configuration of wireless LAN Network.
2. Define BSS and ESS and explain their role in the architecture.
3. Draw and explain the protocol stack for IEEE 802.11
4. Explain the operating principle of OFDM used for IEEE 802.11a.
5. Explain the architecture of wireless LAN Network with suitable diagram.
6. Compare IEEE 802.11DSSS and IEEE 802.11FHSS.
7. Explain the frame structure of IEEE 802.11DSSS / IEEE 802.11FHSS.
8. Explain back off algorithm.
9. Explain hidden and exposed station problem with suitable scenario.
10. Explain WEP frame security mechanism.
11. What are main differences between Wimax and wifi.
12. Write short note on IEEE 802.16.
13. Draw and explain IEEE 802.16 architecture.
14. Write short note on IEEE 802.16 protocol stack.
15. Draw the frame format of Wimax MAC frame and explain various fields.
16. List the features of Wimax.