**LM 1. Evolution of Wireless Network**

1. **LM1. Student Learning Outcomes**

After completing this module, a student will be able to:

* Explain the OSI model and functionality of each layer in OSI model.
* Describe MAC address and IP Address
* Explain the difference between packet switching and circuit switching
* Describe the history of wireless networking

1. **LM1. Learning Material & Study Guide**

* Explain the OSI model and functionality of each layer in OSI model.

<https://en.wikipedia.org/wiki/OSI_model>

* What’s OSI model? What’s the goal of OSI? The function of the each layer in OSI model. How does OSI model comparing to TCP/IP model.
* Describe MAC address and IP Address

<https://askleo.com/whats_the_difference_between_a_mac_address_and_an_ip_address/>

<https://www.webopedia.com/DidYouKnow/Internet/ipv6_ipv4_difference.html>

* What’s a MAC address and an IP address? How are they used in networking? Why IPV6 is needed? How IPV6 is different from IPV4?
* Explain the difference between packet switching and circuit switching

<http://www.rfwireless-world.com/Terminology/circuit-switching-vs-packet-switching.html>

* What is circuit switching and packet switching? Why circuit switching is suitable for a telephone network (PSTN)? Why packet switching is suitable for data network?
* Describe the history of wireless networking

<http://www.cablefree.net/wireless-technology/history-of-wifi-technology/>

* What’s the history of Wi-Fi and Evolution of wireless standards?
* Discuss the social and economic impact of wireless networking

<http://g3ict.org/download/p/fileId_920/productId_233>

https://www.taylored.com/blog/what-is-byod-and-how-does-it-impact-your-wireless-network/

* Briefly discuss the impact of wireless network on health care, finance and education industry. What is BYOD? How does BYOD Impact Wireless Networks?