**Report - 3**

**Ethernet and Wi-Fi**

**Overview**

* This is an individual report.
* In this report, you shall investigate state-of-the-art Ethernet and Wi-Fi, including:
  + the standard or standards that support the new systems,
  + the main features and techniques on the physical layer, and
  + the main features and techniques on the MAC sub-layer.
* The outline (and some requirements) of the report is listed below.

**Content**

* Cover page
  + Logo of UPRM, Title, Course, Student Name, Student ID, Department
* Table of content
* Introduction
* The basics
  + The history of Ethernet
  + The history of Wi-Fi
* 10 Gigabit Ethernet
  + Standard
  + The physical layer
  + The MAC sub-layer
* 100 Gigabit Ethernet
  + Standard
  + The physical layer
  + The MAC sub-layer
* Terabit Ethernet
  + Standard
  + The physical layer
  + The MAC sub-layer
* Wi-Fi 5
  + Standard
  + The physical layer
  + The MAC sub-layer
* Wi-Fi 6
  + Standard
  + The physical layer
  + The MAC sub-layer
* Conclusions
* References
  + Need at least 20 references