



**ITE3001 – DATA COMMUNICATION AND COMPUTER NETWORKS LAB**  
**FALL SEMESTER - 2020-21 - ASSESMENT 5**

1. Write a UDP based server code to get the date of birth of the client and calculate the age as on today. The client has to enter the year, month and day of birth. For example, if the date of birth of a user is 1/07/2001 then his age is 14 years 0 months and 17 days if today's date is 18/07/2018. Get today's date from the server.
  - Code for Date formatting
  - Creating UDP sockets for server and client
  - Code for validation of date format and computation of age for UDP transfer of segments.
  
2. A reputed organization has two branches in Vellore. In one of the branch office, a new manager has been appointed. The Senior Manager from the main office has to send the important records to the branch office. Implement a client-server model to accomplish this.
  - Understating of HTTPS for uploading of files to FTP server.
  - Encryption and decryption of the file's data with security algorithms.
  - Code for generation of a key for encryption and decryption using TCP/IP client server sockets.