

**Assignment 2**  
**Department of Information & communication Technology - Faculty of Technology**  
**Level II – Semester I**  
**ICT2133 – Object Oriented Analysis & Design**

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**Guidelines**

- This is an individual assignment.
- You can use any tool to draw diagrams.
- Export all your diagrams into .png format (file names are given in each question).
- Save all the .png files into a folder with your index number, zip it and upload to LMS.
- Due Date: **30<sup>th</sup> May 2023**
- A hardcopy of your completed assignment should also be submitted.

1. Given below is a description of sending an SMS using a mobile phone. Draw the activity diagram with partitions (**activity1.png**).

User selects the menu to start the activity. The system displays the menu with several options. From that menu users can select the “Message” option. System displays several message options including “New message” option. The system displays the compose message screen when the user selects the “New message” option. After entering the recipient’s number and the message, the user can select the option menu to send or discard the message. If the user selects send, then the message will be sent to the recipient and the message will be copied to the sent items folder at the same time and finally the system will display the main screen. If the user selects the discard message option, then the system will discard the message and display the main screen.

2. Read the given below case study about an airline reservation system. Draw the use case diagram by considering the user level goals (**usecase2.png**).

Passengers who have signed on with the system can search for flights using the system. Also, they can make reservations and pay for flights using the system. The system allows to select seats, if the passenger wants to choose a particular seat.