University of Central Punjab

FACULTY OF INFORMATION TECHNOLOGY

OOAD Assignment 3
Spring 2018

Assignment Deadline: June 10, 2018, 11:55pm
Late Submission Deadline: June 13, 2018, 11:55 p.m. with the penalty of 25% deduction in marks.

Assignment Description:
This assignment covers Object oriented analysis and design representation through UML class diagram, and sequence diagram.

Note:
☐ Submit visio files, or image files on LMS.

Question 1

You have just been hired to design a system for all Pakistan airports. Create a UML class diagram that will communicate with your clients how you will organize the different classes in the system.

The following description was given to you by your clients.

"There are multiple airports all over Pakistan. The airports each have their own an assigned unique ID. Each airport has multiple Airlines and each airline has different types of planes, pilots and staff members. The planes each have an associated plane number and model number. Each airline has planes assigned to flights to different destinations for certain dates. Each of these flights has a flight ID number and the locations of departure and arrival. Customers are able to book these flights and will be given a ticket with their ticket number and seating number. All staff should have an assigned employee number and each pilot should provide their pilot license number in the system. All persons in the system should have their full name and an ID number".

1. Create a UML class diagram to represent this information.

2. Create a UML sequence diagram to represent this information.