# BLM3520
# Introduction to Mobile Programming
# Semester Project
# (Due to the date of final exam)

**Important Note:** This document might be updated to answer your FAQ, so please frequently check website for updates and check the version number of document to see if it is updated.

## SUBJECT

You will implement a mobile application, namely SMART PHONEBOOK, for Android devices. This application would able to store contact/call/SMS details and to make phone calls and send SMS messages. The details of the mobile app are given below. Please read them carefully and strictly conform to these details while implementing the application.

## 1. SMART PHONEBOOK APP

**The app would able to perform the following tasks.**
- Add/Uptade/Delete a contact info
- Search for a given number and name
- Export the contact details of the default phonebook.
- Display of the available contacts

- Make a phone call
- Send a SMS
- Save and Report the details of the phone calls (date,time,duration,type of the call(incoming,outgoing,missed),caller or calling person)
- Save and Report the details of SMS
- Display a route from the given point or current location to the home/work address of the selected person

## 2. Application Details

This application would store its DATA using SQLite, Files and SharedPreferences. Each method should be applied.

### 2.1  Contact Details

The contact details of people could given as follows
- Name
- Surname
- Phone number (Home,Mobile,Work)
- E-mail
- Location(Home,Work)
- Total duration and Number of incoming calls
- Total duration and Number of outgoing calls
- Number of missing calls,
- Number of sent messages
- Number of received messages

### 2.2  What to Report

The report information should include the following items

- Total duration of incoming and outgoing calls
- The date, time and duration of incoming, outgoing and missed calls.
- The person details with the max missed calls
- The person details with the max duration of outgoing calls
- The person details with the max duration of incoming calls
- The person details with the max duration of total calls
- The date and time of incoming and outgoing SMS.

### 2.3  Location Service

Your application would store the home and work location for each contact. It should also show the route using the Google API.

### 2.4  Interface and Menu
You need to design a menu regarding the application details.

## 3. TIPS AND HINTS

This term project requires the use of different APIs of Android SDK, JAVA programming language and XML. You may implement your project using Activities, Services, Broadcast Receivers, and Content Providers if necessary.

It is important to benefit from the MVC (Model-View-Controller) concept. Design your application regarding this concept.