MASTER OF COMPUTER APPLICATIONS (MCA_NEW)

ASSIGNMENTS
OF MCA_NEW (2Yrs) PROGRAMME
SEMESTER-I

(January - 2025 & July - 2025)

MCS-211, MCS-212, MCS-213, MCS-214, MCS-215

MCSL-216, MCSL-217

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SCHOOL OF COMPUTER AND INFORMATION SCIENCES
INDIRA GANDHI NATIONAL OPEN UNIVERSITY
MAIDAN GARHI, NEW DELHI – 110 068

CONTENTS

Important Notes

1. Submit your assignments to the Coordinator of your Study Centre on or before the due date.

2. Assignment submission before due dates is compulsory to become eligible for appearing in corresponding Term End Examinations. For further details, please refer to Programme Guide of MCA (2Yrs).

3. To become eligible for appearing the Term End Practical Examination for the lab courses, it is essential to fulfill the minimum attendance requirements as well as submission of assignments (on or before the due date). For further details, please refer to the Programme Guide of MCA (2yrs).

4. The viva voce is compulsory for the assignments. For any course, if a student submitted the assignment and not attended the viva-voce, then the assignment is treated as not successfully completed and would be marked as ZERO.

Course Code	:	**MCS-213**
Course Title	:	**Software Engineering**
Assignment Number	:	**MCA_NEW(I)/213/Assign/2025**
Maximum Marks	:	**100**
Weightage	:	**40%**
Last Dates for Submission	:	**30th April 2025 (for January Session)**
		31st October 2025 (for July Session)

This assignment has one question for 80 marks. 20 marks are for viva voce. You may use illustrations and diagrams to enhance the explanations. Please go through the guidelines regarding assignments given in the Programme Guide for the format of presentation.

Q1:

Assume that you are assigned responsibility of developing an **Online Date Sheet Generation System (ODSGS)** for a University. **ODSGS** should run both on PCs and Mobile Devices. **ODSGS** will have fields such as Course Code, Course Title, Date of Exam, Time of Exam etc. The user of ODSGS will input the list of course codes and course titles and duration of examination. Sunday will be holiday. Starting date of exams will also be input by the user. There may be other information that is needed by ODSGS to generate the date sheet. So, you can list them and make provision for them in database structure. Make assumptions wherever necessary. Based on the inputs received, ODSGS should generate the Date Sheet.
For developing **ODSGS** as specified above,

(a) Which SDLC paradigm will be selected. You may also suggest a SDLC paradigm that is proposed by you and non-existent as on date. Justify your answer. **(10 Marks)**
(b) List the functional and non-functional requirements. **(10 Marks)**
(c) Estimate the cost. **(15 Marks)**
(d) Estimate the efforts. **(15 Marks)**
(e) Develop SRS using IEEE format. **(15 Marks)**
(f) List queries for whom Reports can be generated. **(5 Marks)**
(g) List specific requirements which enables **ODSGS** to run on both PCs and Mobile Devices. **(10 Marks)**