MASTER OF COMPUTER APPLICATIONS (MCA_NEW)

MCA_NEW 1st Semester Assignments

(January, 2026 & July, 2026 sessions)

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

MCSL-216, MCSL-217

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

CONTENTS

Course Code	Assignment No.	Submission-Schedule		Page No.
		For January-June Session	For July-December Session	
MCS-211	**MCA_NEW(I)/211/Assignment/2026**	**30th April, 2026**	**31st October, 2026**	**3**
MCS-212	**MCA_NEW(I)/212/Assignment/2026**	**30th April, 2026**	**31st October, 2026**	**6**
MCS-213	**MCA_NEW(I)/213/Assignment/2026**	**30th April, 2026**	**31st October, 2026**	**8**
MCS-214	**MCA_NEW(I)/214/Assignment/2026**	**30th April, 2026**	**31st October, 2026**	**9**
MCS-215	**MCA_NEW(I)/215/Assignment/2026**	**30th April, 2026**	**31st October, 2026**	**12**
MCSL-216	**MCA_NEW(I)/L-216/Assignment/2026**	**30th April, 2026**	**31st October, 2026**	**14**
MCSL-217	**MCA_NEW(I)/L-217/Assignment/2026**	**30th April, 2026**	**31st October, 2026**	**16**

Important Notes

1. Submit your assignments to the Coordinator of your Study Centre on or before the due date. Also, be in touch with concerned IGNOU RC for any updates regarding assignments schedule etc.
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_NEW.
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_NEW.
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/2026**
Maximum Marks	**:**	**100**
Weightage	**:**	**40%**
Last Dates for Submission	**:**	**30th April 2026 (for January Session)** **31st October 2026 (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 Programme Eligibility Checking System (OPECS)** for a University. **OPECS** should be a web based system. **OPECS** will have fields such as Programme Code (To select the Programme whose eligibility for admission is sought), Qualification Code (To select the Programme which is the qualification of applicant for admission to Programme with Programme Code), Course Codes (To select multiple courses which are part of the Programme with the qualification code), Percentage (To select the nearest aggregate percentage of marks secured in the Programme selected under Qualification code), SUBMIT (a Submit button which when clicked displays whether the candidate whose particulars are filled is eligible for admission to the Programme with Programme Code). Make assumptions wherever necessary.
For developing **OPECS** as specified above,

(a) Which SDLC paradigm will be selected. Justify your answer. **(15 Marks)**
(b) List the functional and non-functional requirements. **(15 Marks)**
(c) Estimate cost. **(15 Marks)**
(d) Estimate efforts. **(15 Marks)**
(e) Develop SRS using IEEE format. **(20 Marks)**