

MAEC

**MASTER OF ARTS
(ECONOMICS)**

ASSIGNMENTS 2024-25

Fourth Semester Courses

**(For learners appearing in term-end exams in June
2025 and December 2025 Sessions)**



**SCHOOL OF SOCIAL SCIENCES
INDIRA GANDHI NATIONAL OPEN UNIVERSITY
MAIDAN GARHI-110068**

Students willing to appear in the term end examination June 2025 may please note:

- 1. The two courses bearing code no. MGG 011 (Geographical Information Systems-I) and MGGL 004 (Geo Spatial Analysis), due to unavoidable circumstances are not available for offer for the fourth semester (January 2025) of MAEC programme. Hence, the students who have opted Group A can opt any one/two other courses from Group A in case willing to have specialization in Data Analytics. The students not willing to have specialization may change their choice to any other course(s) of 4 credits worth out of the four groups: A, B, C, D. Such students may submit their requests for change of the course to Registrar, SRD (registrarsrd@ignou.ac.in)**
- 2. The existing course code of MECP 101 and MECP 102 have been changed to MECP 201 and MECP 202 respectively. The Project Guides of these two courses have been uploaded with the changed course code at: [eGyanKosh: Semester-IV](#).**
- 3. The evaluation of the assignments of the students of MAEC programme who have opted MCS 226 and MCS 224 courses will be done 100% on the basis of written assignments only.**
- 4. The students attached with the study centres not activated for MCA programme will submit the assignments of MCS 226 and MCS 224 to their respective Regional centres for evaluation**

Master of Arts (Economics)

(TMA)

(2024-25)

Dear Student,

As explained in the programme guide for MAEC, assignments carry 30 per cent weightage in a course and it is mandatory that you must secure at least 40 per cent marks in assignments to complete a course successfully. Note that you must submit the assignments before appearing in Term End Examination of a course.

Before attempting the assignments, please read the instructions provided in the programme guide sent to you separately. In this booklet, we have included the assignments for all the courses pertaining to the **Fourth semester**. In each course there is a Tutor Marked Assignment (TMA). You must do the assignment for those courses for which you have registered. **Do remember that you must prepare and submit the assignments separately for each course.** Make sure that you submit the assignments well in time for those courses in which you plan to appear in the Term End Examination.

It is important that you write the answers to all the TMA questions in your own words. Your answers should be within the approximate range of the word-limit set for a particular section.

As mentioned in the Programme Guide, you need to submit all the assignments within the stipulated time for being eligible to appear in the term-end examination to the **coordinator of your study centre**. This assignment is valid for two admission cycles (**July 2024** and **January 2025**).

The assignments should be submitted to the Coordinator of your Study Centre:

1. **By 30th April 2025**, for the students willing to appear in **June 2025 term-end examination**.
2. **By 31st October 2025**, for the students willing to appear in **December 2025 term end examination**.

You must obtain a receipt from the Study Centre for the assignments submitted and retain it. If possible, keep a xerox copy of the assignments with you.

The Study Centre will have to return the assignments to you after they are evaluated. Please insist on this. The Study Centre has to send the marks to the Student Evaluation Division at IGNOU, New Delhi.

We expect you to answer each question as per guidelines for each category as mentioned in the assignment. You will find it useful to keep the following points in mind:

- 1) **Planning:** Read the assignments carefully, go through the Units on which they are based. Make some points regarding each question and then rearrange them in a logical order.
- 2) **Organisation:** Be a little selective and analytic before drawing up a rough outline of your answer. Give adequate attention to your introduction and conclusion.

Make sure that your answer:

- a) is logical and coherent;
 - b) has clear connections between sentences and paragraphs, and
 - c) is written correctly giving adequate consideration to your expression, style and presentation.
- 3) **Presentation:** Once you are satisfied with your answer, you can write down the final version for submission, writing each answer neatly and underlining the points you wish to emphasize. Make sure that the answer is within the stipulated word limit.

MECE-101: INTRODUCTORY ECONOMETRIC METHODS

Tutor Marked Assignment

Course Code: MECE-101
Asst. Code: MECE-101/AST/2024-25
Maximum Marks: 100

Note: Answer all the questions. While questions in Section A carry 20 marks each, those in Section B carry 12 marks each.

Section A

1. What is meant by heteroscedasticity? What are its consequences? How do you detect the presence of heteroscedasticity in a data set?
2. Explain why an error term is added to the regression model. What assumptions are made about the error term? What are the implications of such assumptions? What will happen to the estimators of the parameters of the regression model, if these assumptions are violated?

Section B

3. Consider the regression equation $Y_i = \alpha + \beta X_i + u_i$ where u_i is a stochastic error term.
 - a) Explain how estimators of α and β can be obtained.
 - b) What algebraic properties do the estimators fulfil?
4. What is meant by identification in a simultaneous equation model? Check the identification status of the equations in the following model:
Demand function: $Q_t = \alpha_0 + \alpha_1 P_t + \alpha_2 X_t + u_{1t}$
Supply function: $Q_t = \beta_0 + \beta_1 P_t + u_{2t}$
5. What is meant by multicollinearity? What are its consequences on estimates? What remedial measures do you suggest for the problem?
6. While estimating a regression model you found that the explanatory variable is measured with certain error. Specify the model. What are its consequences on the parameters?
7. Write short notes on the following:
 - a) Dummy variable trap
 - b) Coefficient of Determination