

BACHELOR'S DEGREE PROGRAMME
[B.A.G/BAM/B.Com G/B.Sc G/B.A. (H)]

ASSIGNMENT 2025-26

For July 2025 and January 2026 Admission cycle

COURSE CODE: BECS-184

DATA ANALYSIS



SCHOOL OF SOCIAL SCIENCES
INDIRAGANDHINATIONALOPENUNIVERSITY
MAIDAN GARHI, NEW DELHI-68

Dear Students,

As we have informed you in the Programme Guide, evaluation at IGNOU consists of two parts: i) continuous evaluation through assignments, and ii) term-end examination. In the final result, assignments of a course carry 30% weightage while 70% weightage is given for term-end examination.

You will have to do three Tutor Marked Assignments (TMA) for a six-credit course and two TMAs for a four-credit course. This Assignment booklet has TMAs for the skill enhancement course **BECS- 184 Data Analysis** which is a four-credit course. The booklet therefore has two TMAs whose total marks add up to 100 and carry a weightage of 30%.

Assignment One is intended to test your ability to understand the topic in a systematic, to-the-point and coherent manner.

Assignment Two requires you to first analyse the topic in terms of arguments and explanations and then write the answers in a concise manner. They are meant to test your ability to distinguish, compare and contrast, or clear understanding of the concepts and processes.

Before you attempt the assignments, please read the instructions carefully provided in the Programme Guide. 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. Remember, writing answers to assignment questions will improve your writing skills and prepare you for the term-end examination.

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.

The assignments should be submitted to the Coordinator of your Study Centre as per the following schedule:

- 1. By 30th April, 2026 by the students who took admission in the Academic Cycle July, 2025/who are appearing in term end examination in June 2026**
- 2. By 31st October, 2026 by the students who took admission in the Academic Cycle January, 2026/who are appearing in term end examination in December 2026.**

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.

DATA ANALYSIS
Tutor Marked Assignments

Course Code: BECS-184
Assignment Code: Asst /TMA /2025-26
Total Marks: 100

Assignment One

Answer the following questions. Each question carries 20 marks

$2 \times 20 = 40$

1. The following table presents the list of agencies owning different number of rental cars. The annual income for each of these agencies is given here.

Agency	Cars (in ten thousand)	Revenue (in Rs Crores)
A	63.0	7.0
B	29.0	3.9
C	20.8	2.1
D	19.1	2.8
E	13.4	1.4
F	8.5	1.5

- (a) The study wanted to analyse whether there is any significant relationship between the number of rental cars that the agency owns and its annual income. Compute the correlation coefficient from the given table.
- (b) Test the significance of the correlation coefficient considering $\alpha=0.05$ and critical values obtained from t-distribution table is ± 2.776
2. Explain the term 'qualitative research design'. How it is different from quantitative research design? What are the various techniques of qualitative research design?

Assignment Two

Answer the following questions. Each question carries 12 marks.

5 X 12=60

3. Differentiate between Census and Survey data. What are the various stages involved in planning and organizing the censuses and surveys?
4. Explain the following:
 - a. Multivariate analysis
 - b. Coefficient of variation
 - c. Data mining
 - d. Normal distribution curve
5. What are the characteristics of a good questionnaire? Suppose you have to conduct a study in village to assess the effectiveness of a recent government scheme. Prepare a questionnaire with atleast 10 questions to conduct this study.
6. What do you mean by the term 'Composite index'? State with illustration the procedure to work out composite index by simple ranking method.
7. Differentiate between:
 - a. t test and f test
 - b. Phenomenology and Ethnography
 - c. Point estimate and interval estimate
 - d. ANOVA and MANOVA