Indira Gandhi National Open University
School of Sciences

MST-001
Foundation in Mathematics and Statistics

Block

4

PRESENTATION OF DATA

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Acknowledgement: We gratefully acknowledge Prof. Geeta Kaicker, Director, School of Sciences and Prof. Parvin Sinclair, Director, NCERT for reading the course material and providing their valuable suggestions to improve the Course.

March, 2012

ISBN – 978-81-266-5973-9

Printed and published on behalf of the Indira Gandhi National Open University, New Delhi by Director, School of Sciences.

Printed at: Gita Offset Printers Pvt. Ltd., C-90, Okhla Indl. Area-I, New Delhi-20

BLOCK 4 PRESENTATION OF DATA

In previous block, we have become familiar with origin, development, definition, importance of statistics and its applications in different areas. We have also discussed the collection of data and preparation of questionnaires to collect information. After collecting the information in term of data, we may like to arrange the collected data in a proper manner because the collected data may be huge in volume. So, here the need for proper arrangement of data arises. In statistical terminology, the proper arrangement of data is known as presentation of data. In this block, we shall try to learn some basic tools to represent the collected data. There are some frequently used tools available for representing data and they may be classified in three basic forms statistical table, diagrams and graphs. This block is devoted to discuss these things. The flow of the block is maintained by the following four units.

Unit 13: After collection of data next step is classification followed by tabulation of data. Unit 13 is devoted to discuss what we mean by classification and tabulation of data.

Unit 14: A pictorial presentation of the tabulated data may be done either with the helps of different kinds of diagrams or by graphs. This unit discusses about some commonly used diagrams, while **Unit 15** and **Unit 16** are devoted to discuss different types of graphical presentation of the data. That is graphs for frequency distributions, graphs for time series data, stem-and-leaf displays and box plots are discussed in Unit 15 and Unit 16.

Notations and Symbols

f	:	frequency
$N = \sum f$	:	total of all frequencies
C. I.	:	class interval
$^{\circ}C$	:	degree Celsius