

Multidisciplinary Course (MDC) offered by the Department of Statistics

STSHMD101M/ STSGMD101M/ STSHMD201M/ STSGMD201M/ STSHMD301M / STSGMD301M–Statistics for Practitioners	
[Credit3]	[45 Lecture Hours]
Unit1: Statistical Data	[10 Lecture Hours]
Population and Sample. Random and non-random sampling. Primary, secondary data. Scales of measurement: Variables and attributes; nominal and ordinal.	
Unit2: Collection of Data	[15 Lecture Hours]
Framing simple research questions and preparing well-designed questionnaires. Collection of primary data using a questionnaire. Compilation of data and data tidying. Data Scrutiny.	
Unit3: Summarization of data	[20 Lecture Hours]
Graphical representation, Summary measures: Mean, Median, Mode, Range, Standard deviation, Index of qualitative variation (IQV), Quartile deviation (Concept and formula only). Social science, Health Science, Biological Science, Astronomy, Economics, Genetics, Epidemiology, Meteorology, Marketing and Business.	
Reference Books	
<ul style="list-style-type: none"> • Goon, A.M., Gupta, M.K. and Dasgupta, B.(2002):Fundamentals of Statistics,Vol.I&II,8thEdition, World Press, Kolkata. • Statistics: The Art and Science of Learning from Data: Alan Agresti, Christine A. Franklin, Bernhard Klingenberg. • Statistics without Tears: A Primer for Non-mathematicians: Derek Rowntree; Allyn and Bacon, A Simon & Schuster Company. 	