Multidisciplinary Course (MDC) offered by the Department of Statistics in the 3 year multidisciplinary UG programme

STSHMD101M/ STSHMD201M/ STSHMD301M/ STSGMD401M/STSGMD501M/STSGMD601M **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	
- 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.	