KOLHAN UNIVERSITY, CHAIBASA

DEPARTMENT OF STATISTICS

Proposed Syllabus for FYUGP, NEP-2020

(Effective from Academic Year-2022-23 onwards)

(Semster-1)

Multi-Disciplinary Course- (MDC)-Introduction to Statistics

Credits: Theory: 03 (Full marks: 75, Pass Marks: 30)

Unit I

Introduction: Definition and scope of Statistics, concepts of statistical population and sample. Scales of measurement -nominal, ordinal, interval and ratio. Variables and attributes, Diagrammatical Representation of Data, Summarization of Data: Frequency Distribution and Graphical Presentation.

Unit II

Measures of Central Tendency: mathematical and positional. Measures of Dispersion: range, quartile deviation, mean deviation, standard deviation, coefficient of variation, moments, measures of skewness and kurtosis.

Unit III

Bivariatedata:Definition,scatterdiagram,simplecorrelation,rankcorrelation.Fitting of linear and quadratic regression using principle of least squares. Theory of attributesandconsistencyofdata,independenceandassociationofattributes,measuresof associationandcontingencyfor2x2andrxscontingencytables.

References:

1. Gun,A.M.,Gupta,M.K.andDasgupta,B.(2013).FundamentalofStatistics,VolI , World Press, Kolkata.
2. Gun,A.M.,Gupta,M.K.andDasgupta,B.(2011).FundamentalofStatistics,Vol II, World Press,Kolkata.
3. Miller,I.andMiller,M.(2006).JohnE.Freund'sMathematicalStatisticswith Applications, (7th Edn.), Pearson Education,Asia.
4. Mood,A.M.Graybill,F.A.andBoes,D.C.(2011).IntroductiontotheTheoryof Statistics,3rdEdn.,(IndianEdition),TataMcGraw-HillPub.Co.Ltd.