SOCW-703

<table>
<tr><td>1.</td><td>Program</td><td>BS Social Work</td></tr>
<tr><td>2.</td><td>Title</td><td>Social Statistic & Computer Applications</td></tr>
<tr><td>3.</td><td>Semester</td><td>7th</td></tr>
<tr><td>4.</td><td>Code</td><td>SOCW- 703</td></tr>
<tr><td>5.</td><td>Rating</td><td>03 Credit Hours</td></tr>
<tr><td>6.</td><td>Objectives</td><td>Upon successful completion of this course, the students will be able to
1 Explain basic concepts of social statistics;
2 Summarize numeric data by computing descriptive statistics;
3 Compute various inferential statistics;
4 Test hypotheses applying probability theory;
5 Use software for Data analysis.</td></tr>
<tr><td>7.</td><td>Contents</td><td>
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<tr><th>Week</th><th>Contents</th></tr>
<tr><td>Week 1-2</td><td>Introduction
• Introduction to Statistics
• Elementary concepts and notions
• Meaning and definition of statistics</td></tr>
<tr><td>Week 3</td><td>Statistics:
• Descriptive and Inductive.
• Measurement: Nominal
• Ordinal and Interval scales.
• Frequency Distribution:
• Tabular Organization and Graphic Presentation of Data</td></tr>
<tr><td>Week 4-5-6</td><td>Descriptive Measures
• Introduction
• measures of central tendency
• Different types of Averages
• Quantiles,
• Empirical Relation between Mean,
• Median and mode,
• Relative Merits and Demerits of various Averages,
• properties of Good Average,
• Box and Whisker Plot,
• Stem and Leaf Display.
• Measures of Dispersion,
• coefficient of variation,
• Bivariate data,
• Linear correlation and Linear regression</td></tr>
<tr><td>Week 7-8</td><td>Probability and Probability Distributions.
• Basic concepts.
• Rules of Probability.
• Discrete and continuous distributions.
• Binomial.
• Poisson and Normal Distribution.</td></tr>
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		Week 9	**Mid-Term Exam**
		Week 10-11-12	**Sampling Distribution and Test of Hypothesis** • Concept of sampling Distribution and standard error. • Sampling Distributions of Mean and proportion. • Hypothesis Testing about Population Mean and proportion. • Hypothesis test about difference between two population means and proportions.
		Week 13-14	• One way ANNOVA (Analysis of Variance) • Tables and Testing Equality of Means, • Chi Square test of Independence for contingency tables
		Week 15	**Computer Application** **Statistical Package for Social Sciences (SPSS)** • Introduction, • basic steps, • defining data, • data entry, • data transformation,
		Week 16-17	**Computer Application** • data analysis, • graphical (diagrammatic) presentation, • Statistical application using SPSS. • MS office , • MS Word, • MS Excel, • Power point, • Browsing.
		Week 18	**Final Term Exam**
8.	**Outcome**		
9.	**Recommended Books / Reference**		

Asthana, H. S., & Bhushan, B. (2016). *Statistics for social sciences (with SPSS applications)*. London: PHI Learning Pvt. Ltd.

Blossfeld, H. P., Hamerle, A., & Mayer, K. U. (2014). *Event history analysis: Statistical theory and application in the social sciences*. Now York: Psychology Press.

Cramer, D. (2003). *Fundamental statistics for social research: step-by-step calculations and computer techniques using SPSS for Windows*. London: Routledge.

Dey, I. (2003). *Qualitative data analysis: A user friendly guide for social scientists*. London: Routledge.

Fielding, J., Gilbert, N., & Gilbert, G. N. (2006). *Understanding social statistics*.

		London: Sage publications. Healey, J. F. (2014). *Statistics: A tool for social research*. London: Cengage Learning. Knoke, D., Bohrnstedt, G. W., & Mee, A. P. (2002). *Statistics for social data analysis*. Itasca, IL: FE Peacock Publishers. Levin, J. (2006). *Elementary statistics in social research*. New Delhi: Pearson Education India. Miller, D. C., & Salkind, N. J. (2002). *Handbook of research design and social measurement*. London: Sage publications. Sirkin, R. M. (2005). *Statistics for the social sciences*. London: Sage publications. Stevens, J. P. (2012). *Applied multivariate statistics for the social sciences*. London: Routledge. Triola, M. F. (2006). *Elementary statistics*. Reading, MA: Pearson/Addison-Wesley. Vogt, W. P., & Johnson, B. (2011). *Dictionary of statistics & methodology: A nontechnical guide for the social sciences*. London: Sage publications. Wagner III, W. E. (Ed.). (2009). *Using SPSS for social statistics and research methods*. New York: Forge Press.

Assessment Criteria

Requirements	
Assignments/Quizzes/Project/Group Presentations	
Mid-Term Exam	
Final Term Exam	
Total	