Technical Program

DAY – 1 (17.09.2017)			
Time	**Session**	**Topic**	**Resource Person**
900 – 1000	REGISTRATION		
1000– 1030	OPENING CEREMONY		
1030 – 1130	Technical Session 1	**Introduction to SPSS interface**	MR Mishra, Sambalpur
1130 – 1300	Hands on Training 1	**Data screening and cleaning. Missing Value Analysis. Sorting, Transposing, Restructuring, Splitting, and Merging. Compute & Recode functions.**	R Choudhary, Raipur
1300 - 1400	LUNCH BREAK		
1400 - 1530	Technical Session 2	**Types of Research: Historical, Analytical, Interdisciplinary, Evaluative, Participatory & Action Research & Type of Data**	MR Mishra, Sambalpur
1530 - 1700	Hands on Training 2	**Frequency tables, Using frequency tables for analyzing qualitative data, Explore, Graphical representation of statistical data: histogram (simple vs. clustered), boxplot, line charts, scattorplot (simple, grouped, matrix, drop-line), P-P plots, Q-Q plots**	R Choudhary, Raipur
DAY 2 (18.09.2017)			
900 – 1000	Technical Session 1	**Sampling: Concept and methods, Determination of sampling size,**	R Chellan, Bhubaneshwar
1000 – 1130	Technical Session 2	**Methods of data collection: Survey Research: Questionnaire and schedule preparation and designing methods, participatory and observational research, coding of questions and relevance of pilot testing of questionnaire, measurement and scaling techniques.**	
1130 – 1300	Technical Session 3		

1300 - 1400	**LUNCH BREAK**		
1400 - 1530	Hands on Training 1	**Descriptive Statistic using SPSS**	R Choudhary, Raipur
1530 - 1700	Hands on Training 2	**Data entry for correlational analysis, Choice of a suitable correlational coefficient: non-parametric correlation (Kendall's tau), Parametric correlation (Pearson's, Spearman's), Special correlation (Biserial, Point-biserial), Partial and Distance Correlation.**	R Choudhary, Raipur
DAY 3 (19.09.2017)			
800 - 930	Technical Session 1	**Theoretical base of Correlation and regression analysis**	AK Pati, Sambalpur
930 - 1030	Hands on Training 1	**The method of Least Squares, Linear modeling, Assessing the goodness of fit, Simple regression, Multiple regression (sum of squares, R and R2, hierarchical, step-wise), Choosing a method based on your research objectives, checking the accuracy of regression model.**	SK Panigrahi, Bhubaneshwar
1030 – 1130	Technical Session 2	**Hypothesis: Meaning, formulation, testing of hypothesis, understanding various concepts for clarifying hypothesis testing**	N Mishra, Sambalpur
1130 – 1300	Hands on Training 2	**t – test (one sample, independent-sample, paired sample), ANOVA (one way)**	SK Panigrahi, Bhubaneshwar
1300 - 1400	**LUNCH BREAK**		
1400 - 1530	Hands on Training 3	**Post-hoc analysis and Chi-Square**	MR Mishra, Sambalpur
1530 – 1630	Hands on Training 4	**Reliability (Cronbach's Alpha) using SPSS**	SK Panigrahi, Bhubaneshwar
1630 - 1700	Valediction	**Certificate distribution and closing**	

1. **Prof. A.K. Pati** – Vice Chancellor, Gangadhar Meher University, Sambalpur, Odisha
2. **Dr. R. Choudhary** - Professor, School of Studies in Physical Education, Pt. Ravishankar Shukla University, Raipur
3. **Dr. R. Chellan** - State Consultant - Social Research, UNICEF, Bhubaneswar, Odisha
4. **Dr S. K. Panigrahi** - Assistant Professor, Community Medicine Department at IMS & SUM Hospital, Siksha 'O' Anusandhan University, Bhubaneswar
5. **Dr**. N. Mishra - Associate Professor, HOD, Department of Statistics, Gangadhar Meher University, Sambalpur, Odisha
6. **Dr. M.R. Mishra** – Assistant Professor, Department of Geography, Gangadhar Meher University, Sambalpur, Odisha