Program	BS (4 Years)	<b>Course Code</b>	APSY-362	Credit Hours	3		
<b>Course Title</b>	Quantitative Data	Analysis					
Course Introduction							
This course is basically quantitative data analysis through Statistical Package for Social Sciences (SPSS). This course aims to develop understanding of quantitative data analysis techniques commonly used and applicable to research hypotheses in the field of psychology, their applicability and how to run these analyses using SPSS. This will also cover basic features of SPSS and their step-by-step application and uses. This course will equip students with the ability to independently run the analysis appropriate for their research.							
Learning Outcomes							
<ul> <li>On the completion of the course, the students will be able to:</li> <li>1. Process research data, prepare variable view file, enter data, and select appropriate analysis as per type of data and hypotheses been formulated.</li> <li>2. Interpret analysis output file, report results in form of tables and graphic form and interpret results in qualitative form in their research report, thesis and research article.</li> </ul>							
	1	Course Co	ontents				
Introduction to	Statistical Package	e for Social Scien	nces (SPSS)				
<ul> <li>Basic features of SPSS: Preparing Data for entering in SPSS; Preparing variable view file Entering statistical data in data view file; Computing and recoding techniques</li> <li>Calculating descriptive statistics (Including Mean, Median, Mode and Standard deviation)</li> </ul>							
Computing dif	ferences between tw	o Means by t-te	est (Independent and	matched sample	es)		
Computing dif	ferences between M	ultiple Group u	sing F-test (One-Way	y ANOVA)			
Computing rela	ationship between v	ariables (Corre	lation)				
Regression Analysis							
Non parametric statistics Spearman's Rank Order Correlation, Chi Square Test (Contingency Table and Proportions) Yates Correction, Wilcoxan test, Mann Whitney -U test, Sign Rank test, Krushkal Wallis							
The process and interpretation of SPSS output in form of table and graphical form per APA format.							
Textbooks and Reading Material							
<ul> <li>2.1 Books</li> <li>Bryman, Routledg</li> <li>Coakes,</li> <li>Field, A</li> <li>Gelfand,</li> <li>Kinnear,</li> </ul>	A. (2011). Quantita ge. S. J. (2010). SPSS vo . (2009). Discovering H. (2010). Masterin P. R. (2010). IBM S	tive data analysis ersion 17.0 for w g statistics using 3 g APA style (6th SPSS statistics 18	s with IBM SPSS 17, 1 indows. Australia: Jol SPSS (3rd ed.). Los A ed.). Los Angeles: Sa made simple. New Y	18 and 19. Londo nn Wiley & Sons. ngeles: Sage. age. ork: Psychology	n: press.		

- Maran, R. (1995). Windows 95 simplified. Foster City, C.A: IDG Books Worldwide, Inc.
- Maran, R., & Wing, K. (1997). Teach yourself word 97. Foster City, C.A: IDG Books worldwide, Inc.
- Nelson, K.Y. (1996). Windows 95 is driving me crazy. Berkeley, CA: Peach pit Press.
- Person, R. (1993).Using excel version 5 for windows. Indianapolis: Que Corporation.
- Rajathi, A., & Chandren, P. (2010). SPSS for you. India: MJM Publisher.

## 2.2 Journal Articles/ Reports

- Durbarry, R. (2017). Analysing quantitative data using SPSS. In *Research Methods for Tourism Students* (pp. 219-248). Routledge.
- Kafle, S. C. (2019). Correlation and Regression Analysis Using SPSS. *Management, Technology & Social Sciences*, 126.
- Ong, M. H. A., & Puteh, F. (2017). Quantitative data analysis: Choosing between SPSS, PLS, and AMOS in social science research. *International Interdisciplinary Journal of Scientific Research*, *3*(1), 14-25.
- Purwanto, A., Asbari, M., Santoso, T. I., Paramarta, V., & Sunarsi, D. (2020). Social and Management Research Quantitative Analysis for Medium Sample: Comparing of Lisrel, Tetrad, GSCA, Amos, SmartPLS, WarpPLS, and SPSS. *Jurnal Ilmiah Ilmu Administrasi Publik*, *10*(2), 518-532.
- Deng, S., Dull, J., Finn, J., & Khair, S. (2019). SPSS Data Curation Primer. *Data Curation Network*. Retrieved from <a href="https://conservancy.umn.edu/handle/11299/202812">https://conservancy.umn.edu/handle/11299/202812</a>
- Koshmak, V., Hvatcev, A., Astahova, I., & Zuev, A. (2019, May). Samples Distinction by Parametric and Nonparametric Statistics in SPSS. In *Society. Integration. Education. Proceedings of the International Scientific Conference* (Vol. 5, pp. 374-382).

**Note:-** It is preferable to use latest available editions of books.

Teaching Learning Strategies							
1.	1. Lectures/Tutorials						
2. Semester work							
3. Class participation /Presentation							
4.	Assignments/Cl	ass Projects					
5. Quizzes							
Assessment							
Sr. No.	Elements	Weightage	Details				
1.	Midterm	35%	Written Assessment at the mid-point of the semester.				
	Assessment						
2.	Formative	25%	Continuous assessment includes: Classroom participation,				
	Assessment		assignments, presentations, viva voce, attitude and				
	1	1	behavior hands-on-activities short tests projects				

			practical, reflections, readings, quizzes etc.
3.	Final	40%	Written Examination at the end of the semester. It is
	Assessment		mostly in the form of a test, but owing to the nature of the
			course the teacher may assess their students based on
			term paper, research proposal development, field work
			and report writing etc.