MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

(Formerly West Bengal University of Technology)

Syllabus of B.Sc. In Psychology

(Effective from 2023-24 Academic Sessions)

Course Name: STATISTICAL METHODS I

Mode: Offline

Credits: 4

BSCPY-201

Aim of the Course: To familiarize students with the use of statistical methods in psychological research and the techniques of descriptive statistics for quantitative research.

Course Objectives: The course is aimed to define and describe basic concept of different types of statistical measures. It also considers different concepts of Normal Probability Curve. Upon completion of this course, students should be able to understand graphical representation of the data. Students should develop intuitive understanding of the concepts of Normal Probability Curve, Skewness and Kurtosis. They should understand parametric and non parametric statistics.

Sl	Graduate attributes	Mapped modules
CO1	The student will get an introduction to statistics	**M1**
CO2	The student shall get expertise on different measures of central tendency and variability	**M2**
CO3	The student shall master the concepts of Normal Probability Curve	**M3**
CO4	The students will get a basic knowledge of Parametric Non Parametric	**M4**
CO5	The students will get a basic knowledge on how to carry out statistical analysis of data	**M5**

Learning Outcome/ Skills:

The candidates should able to demonstrate fundamental knowledge Statistics. The candidate will be able to understand different Principles of Central Tendency and Variability, explanation to the domains of parametric and nonparametric statistics. Students should be able to understand and be able to execute statistical analysis of data.

Module Number	Content	Total Hours	% of questions	Bloom Level (applicable)	Remarks, if any
THEORY					
M1	Basics of statistics	15	20	1,2,3	NA
M2	Central Tendency and Variability	15	30	1,2,3	NA
M3	Normal Probability Curve	15	30	1,2,3	NA
M4	Parametric and non-parametric statistics	15	20	1,2,3	NA
Total Theory		60	100		
Practical 1. On statistical analysis of data		15			
Total		75			

Detailed Syllabus

Module 1: Basics of statistics

Concept of statistics; types of statistics; methods of representation of data (Bar graph, Pie graph, Histogram, Scatterplot, Ogive)

Total Hours: 15

Module 2: Central Tendency and Variability

Concept, uses, and measures of Central Tendency (Mean, Median, Mode) and Variability (Range, Average Deviation, Standard Deviation, Quartile Deviation)

Total Hours: 15

Module 3: Normal Probability Curve

Normal Probability Curve: Concept, applications. Concept of tails, Skewness and Kurtosis

Total Hours: 15

Module 4: Parametric and non-parametric statistics

Concept of parametric and non-parametric statistics; hypotheses testing steps and utility.

Total Hours: 15

PRACTICAL

BSCPY291
Credit-1
Total Hours: 30

Practical on using MS Excel to carry out statistical analysis of data

Suggested Readings:

Das, D. & Das, A. (2008). Statistics in Biology and Psychology. Academic Publishers, Calcutta, (Latest edition)

Garrett, H.E. (1981). Statistics in Psychology and education. VakilsFeffer & Simons Ltd.

Singh,A.K.(1988). Tests, Measurements and Research Methods In Behavioural Sciences. Tata McGraw Hill, New Delhi.

Freeman, S.F.: Theory and practice of Psychological testing. Oxford & IBH publishing Co. Calcutta. Third Edition.

Guilford, J.P. & Fruchter, B. (1973). Fundamental Statistics in Psychology and Education, McGraw Hill New Delhi.

Kaplan, R.M. & Saccuzzo D.P.: Psychological Testing Principles, Applications, and Issues, Wadsworth, Fifth Edition.

Course Name: PSYCHOLOGY OF INDIVIDUAL DIFFERENCES

Mode: Offline

Credits: 5

BSCPY-202

Aim of the Course: The aim is to develop an understanding of the concept of individual differences with the goal to promote self-reflection and understanding of self and others.

Course Objectives: The course is aimed to build knowledge on Personality and its multifaceted nature, by considering different theories. It will also help to interpret human behavior to understand the self in light of eastern and western principles. Upon completion of this course, students should able to understand the different types of personality expression compare and contrast the different perspectives to make a coherent sense of behavior.

Sl	Graduate attributes	Mapped modules
CO1	The student will get an introduction to basic concepts of Personality	**M1**
CO2	The student shall learn the concept of Fundamentals of Personality	**M2**
CO3	The student must comprehend major perspectives on personality	**M3**
CO4	The students should able to explain individual differences in personality expression	**M4**
CO5	The students will get to enhance individual's potential	**M5**

Learning Outcome/ Skills:

The candidates should demonstrate fundamental knowledge and insight in Personality in order for the candidate to be able to understand the major determinants of personality, Self-determination theory; Enhancing cognitive potential, and about fostering creativity.

Knowledge and understanding should be demonstrated in the areas of: (1) Personality, (2) Temperament, (3) Character, (4) Culture, (5) Gender, (6) Body language and Behavioural styles, (7) Self regulation and self enhancement (8) Creativity.

Module Number	Content	Total Hours	% of questions	Bloom Level (applicable)	Remarks, if any
THEORY					
M1	Basic concepts of Personality	15	20	1,2	NA
M2	Fundamentals of Personality	15	20	1,2	NA
M3	Major perspectives on personality	15	20	1,2	NA
M4	Individual differences in personality expression	15	20	1,2	NA
M5	Enhancing individual's potential	15	20	1,2	NA
Total Theory		75	100		
TOTAL		75			

Detailed Syllabus:

Module 1:Basic concepts of Personality

Meaning, origin, and nature of personality; historical perspectives (western & eastern), Concepts of temperament and character.

Total Hours: 15

Module 2:Fundamentals of Personality

Major determinants of personality; Nature versus nurture debate. Bio-psycho-social foundations of personality; Culture, gender and personality

Total Hours: 15

Module 3:Major perspectives on personality

Psychodynamic (Freud), humanistic (Maslow) and social (Bandura)

Total Hours: 15

Module 4:Individual differences in personality expression

Body language and Behavioural styles

Total Hours: 15

Module 5: Enhancing individual's potential

Self-determination theory; Enhancing cognitive potential, Self regulation and self enhancement; Fostering creativity.

Total Hours: 15

Suggested Readings:

Cornelissen, R.M.M., Misra, G. &Varma, S. (2011). Foundations of Indian Psychology, Vol 1. Pearson.

Chadha, N.K. & Seth, S. (2014). The Psychological Realm: An Introduction. Pinnacle Learning, NewDelhi.

Theories of Personality, 8th edition, by Feist&Feist, McGraw Hill

Morris, Desmond. (2002) Peoplewatching, Vintage.
 Baron, R. A. & Mishra, G. (2015). Psychology. Pearson Education Limited. ISBN-13: 9788131773444.
Ciccarelli, S. K., & Meyer, G. E. (2010). Psychology: South Asian Edition. New Delhi: Pearson Education