

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: Introduction To Psychology (BSCPY-101)

Mode: Offline

Credits: 3

Aim of the Course: The aim is to achieve basic concept of Psychology, different schools of Psychology as well as different theories of Emotion, Motivation and Intelligence.

Course Objectives: The course is aimed to build knowledge in Psychology, relation to different field. It also considers different schools of Psychology, Emotion, Motivation and Intelligence. Upon completion of this course, students should understand the concept and different methods of Psychology and develop intuitive understanding of different schools of Psychology. They should understand different theories of Emotion, Motivation and Intelligence. They should be able to understand Psychology in relation to other fields.

Sl	Graduate attributes	Mapped modules
CO1	The student will get an introduction to the discipline of Psychology.	M1
CO2	The student shall get expertise different schools and methods of Psychology.	M2
CO3	The student shall master the concepts of Emotion, Motivation and Intelligence.	M3
CO4	The students will understand how other fields are related to Psychology.	M4
CO5	The students will get a basic knowledge on how to assess Emotion and Intelligence.	M5

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Learning Outcome/ Skills:

The candidates should demonstrate fundamental knowledge into Psychology, for the candidate to be able to understand different schools and methods of Psychology, brief explanation to the domains of emotion, motivation, and intelligence, as well as how to assess emotion and intelligence, should be understood and known. The students will comprehend the connections between psychology and other disciplines also.

Module Number	Content	Total Hours	% of questions	Bloom Level (applicable)	Remarks, if any
<u>THEORY</u>					
M1	Basic concept of Psychology	08	20	1,2,3	NA
M2	Different schools and methods of Psychology	15	30	1,2,3	NA
M3	Emotion, Motivation, Intelligence	15	30	1,2,3	NA
M4	Psychology and other fields	07	20	1,2	NA
Total Theory		45	100		
<u>Practical</u>					
	1. Identification of changes in facial expressions of emotion.	30			
	2. Assessment on intelligence.				
Total		75			

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Detailed Syllabus

Module 1: Basic concept of Psychology

Meaning, nature, and scope of Psychology; Psychology as a science.

Total Hours: 08

Module 2: Different schools and methods of Psychology

Schools (Structuralism, Functionalism, Psychoanalytic, Behavioral, Humanistic), Branches (Pure and Applied), and Methods (Experimental and Non-experimental, Observational, Introspection) of Psychology.

Total Hours: 15

Module 3: Emotion, Motivation, Intelligence

Meaning, nature, concept, and theories of

- a. Emotion (James Lange, Canon Bard, Schachter Singer, Lazarus, Multilevel)
- b. Motivation (Maslow, Mc Gregor, McClelland, Rogers, Murray)
- c. Intelligence (Spearman, Guildford, Thurstone, Sternberg, Thorndike, Cattell)

Total Hours: 15

Module 4: Psychology and other fields

Psychology in relation to other fields (Neuroscience, Sociology, Genetics)

Total Hours: 07

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PRACTICAL

Total Hours: 30

BSCPY191

Credit: 2

Practical on assessing intelligence using Raven's Progressive Matrices, Koh's Block Design.

Suggested Readings:

Clifford Morgan, Richard King, John Weisz and John Schopler (2017). Introduction to Psychology. McGraw Hill Education.

Baron, R. & Misra. G. (2013). Psychology. Pearson.

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

Ciccarelli, S. K., & Meyer, G. E. (2010). Psychology: South Asian Edition. New Delhi: Pearson Education.

Passer, M.W. & Smith, R.E. (2010). Psychology: The science of mind and behaviour. New Delhi: Tata McGraw-Hill.

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Course Name: Biological Psychology(BSCPY-102)

Mode: Offline

Credits: 3

Aim of the Course: The aim is to achieve basic concept of Biological Psychology, different Structure and function of the Central Nervous System, Peripheral Nervous System, Biological correlation of Emotion, Motivation and Intelligence.

Course Objectives: The course is aimed to build knowledge in Biological Psychology, related to different Nervous System. It considers different structure and function of the Central Nervous System, Peripheral Nervous System, Biological correlation of Emotion, Motivation and Intelligence. Upon completion of this course, students should know the different functioning of the brain and develop intuitive understanding of human mind.

SI	Graduate attributes	Mapped modules
CO1	The student will get an introduction to the Physiological Psychology.	M1
CO2	The student shall learn the concept of Central Nervous System of the brain	M2
CO3	The student must comprehend the idea of the brain's Peripheral Nervous System	M3
CO4	How sodium-potassium pump works in human body	M4
CO5	The students will get the knowledge of biological correlates of Emotion, Motivation and Intelligence.	M5

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Learning Outcome/ Skills:

The candidates should demonstrate fundamental knowledge and insight in Physiological Psychology in order for the candidate to be able to understand the nervous system, Central Nervous System and Peripheral Nervous System, their function and correction.

Knowledge and understanding should be demonstrated in the areas of: (1) Neurotransmitters, (2) Brain, (3) Spinal Cord, (4) Somatic Nervous System, (5) Autonomic Nervous System, (6) Sodium Potassium Pump, (7) Biological correlates of Emotion, Learning and Memory.

Module Number	Content	Total Hours	% of questions	Bloom Level (applicable)	Remarks, if any
THEORY					
M1	Basic concept of Nervous System	15	20	1,2	NA
M2	Different Structure and function of the Central Nervous System	15	20	1,2	NA
M3	Structure and function of the Peripheral Nervous System	15	20	1,2	NA
M4	Mechanisms of Sodium Potassium Pump	15	20	1,2	NA
M5	Biological correlates of Emotion, Learning, and Memory	15	20	1,2	NA
Total Theory		75	100		
TOTAL		75			

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Detailed Syllabus:

Module 1: Basic concept of Nervous System

Basic unit of the nervous system: Neuron (Structure, function, nerve impulse conduction within neuron and between neuron);
Different kinds of Neurotransmitters.

Total Hours: 15

Module 2: Different Structure and function of the Central Nervous System

Structure and function of the Central Nervous System (Brain and Spinal Cord)

Total Hours: 15

Module 3: Structure and function of the Peripheral Nervous System

Structure and function of the Peripheral Nervous System (Somatic Nervous System, Autonomic Nervous System)

Total Hours: 15

Module 4: Mechanisms of Sodium Potassium Pump

The physiology and clinical significance of Sodium Potassium Pump.

Total Hours: 15

Module 5: Biological correlates of Emotion, Learning, and Memory

Biological correlates of Emotion, Learning, and Memory

Total Hours: 15

Suggested Readings

Pinel, J. P. J. (2011). Biopsychology, 8th Edition. Pearson Education, New Delhi. Carlson, N. R. (2009) Foundations of Physiological Psychology, 6th Edition. Pearson Education, New Delhi. Breedlove, S. M., Rosenzweig, M. R., & Watson, N. V. (2007) Biological Psychology: An introduction to behavioral, cognitive, and clinical neuroscience, 5th Edition. Sinauer Associates, Inc., Sunderland, Massachusetts. Pinel, J. P. J. (2011) Biopsychology, 8th Edition. Pearson Education, New Delhi. Rozenweig, M. H. (1989). Physiological Psychology. New York: Random

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Hall, J. E., & Guyton, A. C. (2011) Guyton and Hall textbook of medical physiology. Philadelphia, PA: Saunders Elsevier. Kalat, J.W. (2004). Biological Psychology, 8th Edition, Thompson – Wadsworth. Levinthal, C.F. (2005). Introduction to Physiological Psychology, 3rd Edition, Prentice -Hall of India Pvt. Ltd., New Delhi. Morgan, C.T. (1965). Physiological Psychology, McGraw Hill, New York

PRACTICAL

Total Hours: 30

BSCPY192

Credit: 2

Practical on identification of emotional states through facial expression