

GE (I.5.2) Human Cognition and Learning
General Elective

1. Credit Distribution of the Course

Course title & Code GE (I.5.2)	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course (if any)
		Lecture	Tutorial	Practical/ Practice		
Human Cognition and Learning	4	3	1	0	Undergraduate	-

2. Learning Objectives

The course aims to develop understanding of human cognition and relevance of psychological perspective of learning; Learners will get acquainted with the approaches and process of learning in children; The course will help learners understand the dynamics of learning and apply the learning principles in classroom situations.

3. Learning Outcomes

- Explain the nature and meaning of learning and its implications for education;
- Examine and compare different psychological approaches to learning, including behaviouristic, cognitive, and humanistic perspectives;
- Analyse key learning theories in relation to educational settings;
- Understand the principles of constructivism, including its meaning, scope, and role in shaping effective teaching-learning experiences.

4. Syllabus

Unit I Foundations of Human Cognition: Definition and scope of human cognition; cognitive architecture: working memory, long-term memory, and information processing; perception, attention, and consciousness in learning. **[12 hours]**

Unit II Psychology of Learning - Learner and Learning - Nature, meaning and scope; Behaviouristic, Cognitive and Humanistic approaches of learning. **[10 hours]**

Unit III Theories of Learning - Pavlov's, Skinner's and Gestalt theories of learning; The Social Cognitive Theory with special reference to Bandura, Dollard and Miller; Transformative Learning Theory with special reference to Jack Mezirow; Social Development theory

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(Vygotsky), Discovery Learning; Experiential Learning theory (Kolb); Cognitivist Learning Theories: Attribution theory (Weiner), Metacognition (Flavell); E-Learning Theory, The Information Processing Theory (with special reference to Ausubel and Bruner). [15 hours]

Unit IV Constructivism and Learning - Meaning and scope of constructivism; learning styles and their relevance to learning. [8 hours]

5. Tutorial Details

1. Make an infographic poster representing any one learning theory highlighting its features and limitations.
2. Prepare a case study of any math learning issue and choose a suitable learning theory to overcome the challenge.
3. Design a classroom activity using a learning theory of your choice.

6. Essential Readings

- Olson M.H. & Hergenhann (2013). *Theories of Learning*, PHI Learning Pvt. Ltd.
- Schunk H.D. 2014). *Learning Theories: An Educational Perspective*. Harlow, England, Pearson Publisher.
- Bates B. (2016). *Learning Theories Simplified and how to apply them to teaching*, Sage Publication.

7. Suggestive Reading

- Ormrod, J. E. (2020). *Human learning* (8th ed.). Pearson.
- Schunk, D. H. (2020). *Learning theories: An educational perspective* (8th ed.). Pearson.
- Illeris, K. (2018). *Contemporary theories of learning: Learning theorists in their own words* (2nd ed.). Routledge.