



Introduction to Advanced Cognitive Processes

Humanities and Social Sciences

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Institute: IIT Kanpur

Department: Humanities and Social Sciences

About Instructor: I have done my Bachelors Degree in Psychology and English Literature from the University of Allahabad in 2007. After that I did my Masters Degree in Cognitive Science at the Centre of Behavioral and Cognitive Sciences, University of Allahabad in 2009. I joined the PhD program in the Department of Experimental Psychology at Ghent University, Belgium in January 2010 and was awarded my PhD in 2014. I joined IIT Kanpur as an Assistant Professor of Psychology in May 2015. My research lies in the field of Cognitive Psychology (Lateralisation, Symmetry Detection, Attention) and Psycholinguistics (Visual Word Recognition and Bilingualism).

Pre Requisites: : None

Core/Elective: : Core_Elective

UG/PG: : Both

Industry Support : All industries engaging with human resources, user interface design & consumer oriented goods may benefit from this course.

Course Intro: : This course serves as a general introduction to the field of cognitive psychology. Cognitive psychology is referred to as the scientific study of advanced mental processes, such as organization of knowledge, reasoning, decision-making, language, problem solving, emotion etc. Following up on the course on basic cognitive processes the current course will build up on how the basic mental processes like memory, attention & perception give rise to higher-level cognitive processes. I will also talk about the methods used in contemporary Cognitive Psychology to investigate how these higher mental processes are used to achieve the desired outcomes. Some of the lectures will be about making students abreast of recent research in each of these topics.

COURSE PLAN

SL.NO	Week	Module Name
1	1	Language
2	2	Knowledge & Mental Imagery
3	3	Reasoning & Decision Making
4	4	Problem Solving & Creativity
5	5	Individual Differences
6	6	Cognitive Development
7	7	Expertise, Cognition & Emotion
8	8	Cognitive Disorders