INTRODUCTION TO BASIC COGNITIVE PROCESSES

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COURSE DURATION : 8 weeks (25 Feb’19 - 19 Apr’19)    EXAM DATE : 27 Apr 2019
TYPE OF COURSE : Rerun | Elective | PG
INTENDED AUDIENCE : The course will be beneficial to both UG and PG students interested in Psychology. Also, Masters & PhD students studying Cognitive Psychology and/or with any of the basic mental processes as mentioned above. Professionals working with human factors, user – interface designs etc. will also find the insights from the course as useful.

INDUSTRIES APPLICABLE TO : All industries engaging with human resources, user – interface design & consumer oriented goods may benefit from this course.

COURSE OUTLINE :
Introduction to Basic Cognitive Processes is an introductory course in Cognitive Psychology. As opposed to the behaviorist tradition in psychology that concerns itself with only the observable behaviours of the individual, Cognitive Psychology focuses on the internal mental processes. The approach adopted in this course will look at human behaviour at large as made up of many component mental processes such as sensation, perception, attention, memory, language, imagery, decision making, problem solving, emotion and others.

ABOUT INSTRUCTOR :
Dr. Ark Verma received his B.A. (Psychology, English Literature) from the University of Allahabad in 2007. Later, he completed a Master’s Degree in Cognitive Science at the Centre of Behavioral & Cognitive Sciences, University of Allahabad in 2009. He joined the PhD program in the Department of Experimental Psychology at Ghent University, Belgium in January 2010 & was awarded PhD in 2014. He joined IIT Kanpur as an Assistant Professor of Psychology in May 2015. His research lies in the field of Cognitive Psychology (Lateralisation, Symmetry Detection, Attention) & Psycholinguistics (Visual Word Recognition & Bilingualism).

COURSE PLAN :
Week 01 : Introduction to Cognitive Psychology, History and Foundations of Cognitive Psychology.
Week 02 : Approaches towards studying Cognitive Psychology and Cognitive Neuroscience.
Week 04 : Physiology of Visual Perception, Representation in Perception and Approaches to Perception.
Week 05 : Theories of Object Recognition, Perception and Action, Attention.
Week 06 : Attention, Concept of Memory, Sensory Memory, Short Term Memory.
Week 07 : Long Term Memory, Errors in Memory, Improving Memory.
Week 08 : Memory and other topics.