Subject Description Form

Subject Code	ITC1001D/ ITC1A01
Subject Title	Introduction to Thinking Styles
Credit Value	3 credits
Level	1
Pre-requisite/	Nil
<co-requisite>/</co-requisite>	
(Exclusion	
Objectives	This course helps students to understand, study, integrate and apply various
	thinking styles to solve problem effectively and creatively. This is a
	foundation-training course which widens students' ways of thinking as well
	as decision making towards professional practices. The course aims to
	develop students' integrated thinking skills in solving ill-defined problems
Intended Learning	for their future development in the areas of technology, business and design.
Intended Learning Outcomes	Upon completion of the subject, students will be able to:
	(a) acquire a holistic view of the principles and functions of various
	thinking styles;
	(b) develop an integrative and strategic thinking style for problem
	solving;
	(c) enhance the ability in innovative problem solving and decision
	making; and
	(d) apply the various thinking styles to solve problem effectively and
	creatively.
	The (a) is developing student's literacy through the study of a holistic
	view of various thinking styles. The (b) and (c) are developing
	student's higher order thinking through enhancing student's integrative
	and strategic thinking styles as well as their ability in problem solving
	and decision making. The (d) is developing student's skills for life-
	long learning through applying the thinking styles he/she has learnt to
	solve real-world's problems.
Subject Synopsis/	(1) Introduction to the principles of thinking styles
Indicative Syllabus	Understanding thinking styles
indicutive Syndous	
	• Human intelligence and ways of thinking
	• The pattern making and self-maximizing systems
	• Forms of thinking styles
	(2) Function of thinking styles
	• The art of thinking
	Working with thinking styles
	Transforming culture by thinking styles
	• Society and creativity
	(3) Integrating creative and logical thinking
	Creativity and intelligence
	 Motivation and personal properties
	 The principle of logic
	The principle of logicThe language of logic for argument
l	Blending creative and logical thinking

Teaching/Learning Methodology	 (4) Applying thinking styles to problem solving Problem identification Managing thinking styles Integrative thinking for problem solving Strategic thinking and decision making The subject comprises of lectures and tutorials. Tutorials will be conducted in small groups. Assignment(s) will largely be problem based where students will be asked to critically study and analyze examples of diverse strategies and designs in practical situations in order to help students to integrate various thinking styles for generating strategic solutions. 					
Assessment	Specific	%	Intende	ed subject	learning of	outcomes to
Methods in Alignment with	assessment methods/tasks	weighting	be asses	ssed (Plea	se tick as	appropriate)
Intended			a	b	c	d
Learning Outcomes	Group Presentation	30%	 ✓ 			 ✓
outcomes	1 individual project with 1 report	20%+50%	~	\checkmark	~	\checkmark
	Total	100%				
	The group presentati adopt several design this activity would e peers from different collaborations in the The individual proje tutorials with the sul with the knowledge empirical experience thinking.	thinking man ncourage stu- background future. tot and repor- bject lecture from the cou	ethods to adents to s to fost t which r to help urse. The	contains contains contains contains	se their id ore interact disciplina intensive to build to process	eas. Also, etions with ry individual heir projects s gives them

Student Study	Class contact:				
Effort Expected	• Lecture	26 Hrs.			
-	Tutorial/ Studio	12 Hrs.			
	Other student study effort:				
	Assignments	18 Hrs.			
	Research/ Experiment	52 Hrs.			
	Total student study effort	108 Hrs.			
Reading List and References	Books Brunas-Wagstaff, J. (1998). <i>Personality: a cognitive approach</i> . London: Routledge.				
	Fogler, H.S., LeBlanc, S.E. & Rizzo, B. (2014). <i>Strategic for Creative Problem Solving</i> , Pearson, USA.				
	Hendry, J., Johnson, G., & Newton, J. (1993). <i>Strategic thinking:</i> <i>leadership, and the management of change</i> . Chichester; New York: J. Wiley.				
	Herrmann, N. (1996). <i>The whole brain business book</i> . New York: McGraw- Hill.				
	Hicks, M. J. (2004). <i>Problem solving and decision making: hard, soft and creative approaches</i> (2nd ed.). London: Thomson.				
	Kawakami, K., (1997). 99 More Unuseless Japanese Inventions: The Art of Chindogu. London: W.W. Norton &Co.				
	Kawakami, K., Fearnley-Whittingstall, H., (2004). <i>Bumper Book of Unuseless Japanese Inventions: The Art of Chindogu</i> . London: Harper Collins Entertainment.				
	Kawakami, K., Papia, D., & Fearnley-Whittingstall, H., (2005). <i>The</i> <i>Big Bento Box of Unuseless Japanese Inventions: The Art of</i> <i>Chindogu.</i> New York: W.W. Norton.				
	KEA European Affairs (20	009). The impact of culture on creativity.			
	Martinez, M. E. (2013). <i>Future bright: a transforming vision of human intelligence</i> , New York: Oxford University Press.				
	Richards, R. (2007), <i>Everyday creativity and new views of human nature</i> . Washington, D. C.: American Psychological Association.				
	Runco, M., Pritzker, S. (2011). <i>Encyclopedia of creativity</i> 2 nd Edition, London: Academic Press.				
	<u> </u>	accessful intelligence: how practical and mine success in life. New York: Simon &			
	Sternberg, R. J. (1997). <i>Th</i> Cambridge University Pre	hinking styles. Cambridge; New York: ess.			
		er, R. K. (1994). <i>Mind in context:</i> s on human intelligence. Cambridge; New iversity Press.			
	Watanabe, K. (2009). Pro	blem solving 101: a simple book for smart			

people. New York: Portfolio.
Journals
Fan, J.Q., & Zhang, L.F., (2014). 'The role of perceived parenting styles in thinking styles', Learning and Individual Differences, 32, 204-211.
Hofstede, G. (2011). 'Dimensionalizing Cultures: The Hofstede Model in Context' Psychology and Culture, Vol.2(1).
Zhang, L.F. (2002). 'Thinking styles and cognitive development', The Journal of Genetic Psychology, 163(2), 179-195.
Zhang, L.F., & Sternberg, R.J. (2005). 'A threefold model of intellectual styles', Educational Psychology Review, 17(1).
Zhang, L.F., (2006). 'Thinking styles and the big five personality traits revisited', Personality and Individual Differences, 40, 1177-1187.