

<b><u>Prerequisites for the course:</u></b>	Nil	
<b><u>Objective:</u></b>	To create an awareness of the techniques for improving the flexibility and originality of thinking	
<b><u>Content:</u></b>	<b>Creative thinking</b> as a skill; Valuing diversity in thinking; Thinking preferences; Creativity styles; Creativity in problem solving: Problem Definition, Understanding & Representing; Pattern Breaking; Mind stimulation.	6 Hours
	<b>General Strategies</b> Idea-collection processes including Brainstorming/Brain-writing, The SCAMPER methods, Metaphoric thinking, Outrageous thinking; Mapping thoughts; Eight-Dimensional (8D) Approach to Ideation; Using Math and Science: Systematic logical thinking, Using math concepts;	8 Hours
	<b>Systematic Inventive Thinking</b> The TRIZ methodology; Levels of inventions; Evolution of technical systems; Ideality and the ideal final result (IFR); Stating contradictions and the contradiction table; Standards features and Inventive principles; Separation principles; Using physical, geometrical, and chemical effects, fields	8 Hours
	<b>Decision and Evaluation</b> Focused thinking framework; Six thinking hats, PMI (Plus, Minus, Interesting); Ethical considerations	5 Hours
	<b>Introduction to intellectual property:</b> Patents, Copyrights ©, Trademarks ®, Trade Secret, Unfair Competition	3 Hours
<b><u>Pedagogy:</u></b>	Lectures/ tutorials/laboratory work/ field work/ outreach activities/ project work/ vocational training/viva/ seminars/ term papers/assignments/ presentations/ self-study/ Case Studies etc. or a combination of some of these. Sessions shall be interactive in nature to enable peer group learning.	
<b><u>References/Readings</u></b>	<ol style="list-style-type: none"> <li>1. Edward DeBono, Six Thinking Hats, Penguin Books, Latest Edition</li> <li>2. Ed Catmull, &amp; Amy Wallace Creativity, Inc.: Overcoming the Unseen Forces That Stand in the Way of True Inspiration, Kogan Page, Latest Edition</li> <li>3. Brian Clegg, Creativity and Innovation for Managers, Routledge; Latest Edition</li> <li>4. Luecke, Richard; Harvard Business Essentials – Managing Creativity and Innovation, Harvard Business School Press, Latest Edition</li> <li>5. Chris Griffiths, Melina Costi, The Creative Thinking Handbook- Your Step-by-Step Guide to Problem Solving in Business, Kogan Page, Latest Edition</li> </ol>	
<b><u>Learning Outcomes</u></b>	<ol style="list-style-type: none"> <li>1. To be familiar with processes and methods of creative problem solving;</li> <li>2. To enhance creative and innovative thinking skills</li> </ol>	