

# COR203 Critical, Creative and Systems Thinking

**Level:** 2

**Credit Units:** 2.5 Credit Units

**Language:** ENGLISH

**Presentation Pattern:** EVERY SEMESTER

## Synopsis:

There are three modes of thinking – critical, creative and systems thinking – that empower us in all aspects of our lives. Creative thinking is the means by which radical inventions and innovations are made; critical thinking is what we use to craft and assess arguments, as well as to be logical in our thinking, and systems thinking enables us to see the big picture and connect parts to the sum of a process, endeavour or project. Whether we are conscious of it or not, we apply all three modes of thinking in our daily lives.

This course guides the participants through the fundamentals of creative, critical, and systems thinking and provides them with the skills for applying these modes of thinking to phenomena in our lives. It will stimulate participants to deepen their processes of thinking and inquiry and challenge them to envision the world around them via different perspectives. There are no pre-requisites, except an open mind and a willingness to learn new things.

## Topics:

- Creative Thinking: Obstacles; key techniques: brain-storming; mind-mapping; Pareto analysis; synectics; morphological analysis
- Critical Thinking: Obstacles; clear thinking; logic; claims and arguments
- Systems Thinking: Cause-and-effect; systems archetypes; soft systems methodology; rich pictures

## Learning Outcome:

- Identify the obstacles to creative thinking
- Describe key techniques that foster creative thinking
- Evaluate the obstacles to clear thinking and how they may be avoided
- Appraise the bases for logical thinking and sound arguments
- Illustrate causal loop diagrams and system archetypes
- Explain the role and significance of soft systems methodology
- Implement techniques in creative, critical and systems thinking in posed or real-live situations
- Analyse and evaluate logical assertions and the soundness of arguments
- Sequence causal loop diagrams to analyse phenomenon
- Apply soft systems methodology in rich pictures

## Assessment Strategies:

Continuous Assessment Component	Weightage (%)
PRE-CLASS QUIZ	20
TUTOR-MARKED ASSIGNMENT	50
GROUP BASED ASSIGNMENT	30
<b>Sub-Total</b>	<b>100</b>

Examinable Component	Weightage (%)
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<b>Examinable Component</b>	<b>Weightage (%)</b>
<b>Sub-Total</b>	

**Weightage Total** **100**