

NIRMA UNIVERSITY
SCHOOL OF TECHNOLOGY, INSTITUTE OF TECHNOLOGY
M. Tech. in Electronics & Communication Engineering (VLSI Design)
M.Tech Semester - I

L	T	Practical component				C
		LPW	PW	W	S	
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Course Code	6EC181VA22
Course Title	Critical Thinking

Course Outcomes (COs):

At the end of the course, students will be able to -

1. Take better decisions
2. Evaluate facts in an argument
3. Apply Art of Questioning
4. Derive truth, ambiguity, vagueness and fallacy in arguments

Syllabus:

Teaching Hours:

UNIT I: Thinking about information and emotions , truth and knowledge	03
UNIT II: Recognizing arguments	03
UNIT III: Inductive and Deductive Reasoning	04
UNIT IV: Analyzing defects, fallacies and avoiding them	03
UNIT V: Reasoning & elementary argument analysis and organized thinking	02

Self Study:

The self-study contents will be declared at the commencement of semester. Around 10% of the questions will be asked from self-study contents

Suggested Readings:

1. Howard Kahane& Nancy Cavender, Logic and Contemporary Rhetoric, Wadsworth Publishing.
2. Edward de Bono, Six Thinking Hats, Penguin
3. Selected videos showcasing cases and arguments
4. Daniel Feldman, Critical Thinking : Make Strategic Decision with Confidence

L = Lecture, T = Tutorial, P = Practical, C = Credit