### VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD DEPARTMENT OF HUMANITIES & SOCIAL SCIENCES

# COURSE NAME- CRITICAL THINKING

(Open Elective) SYLLABUS FOR B.E. 2/4 - IV SEMESTER

#### W.E.F-2024-2025

Instruction: 3 Hours		SEE:	60		Course code: U230E430EH		
	Credits:	3	CIE:	40		Duration of SEE: 3 Hours	
COURSE OBJECTIVES					COURSE OUTCOMES		
The course will enable the learners to:				rs to:	At the end of the course the learners will be able to: -		
<b>1.</b> Identify the core skills associated with critical thinking.				d with	1.	Analyse and compare techniques for comparing alternate solutions	
2. Comprehend the various techniques of critical thinking				lues	2.	Demonstrate the difference between deductive and inductive reasoning and construct logically sound	
3. Evaluate data and draw insights from				from		arguments	
it to make the right decisions <b>4.</b> Understand where to look for bias				as	3.	Check for accuracy of data and use it as a tool for problem solving	
and				4.	Evaluate, identify and distinguish between relevant and		
5.	Understar	ons in probler nd structure, critical writing	standards	and	5.	irrelevant information to formulate a thesis or hypothesis. Employ evidence and information effectively	

# UNIT 1: COMPONENTS OF CRITICAL THINKING

- 1.1 Applying Reason
- 1.2 Open Mindedness
- 1.3 Analysis
- 1.4 Logic

#### **UNIT 2: NON-LINEAR THINKING**

- 2.1 Step out of your Comfort Zone
- 2.2 Don't Jump to Conclusions
- 2.3 Expect and Initiate Change
- 2.4 Being Ready to Adapt

### **UNIT 3: LOGICAL THINKING**

- 3.1 Ask the Right Questions
- 3.2 Organize Data
- 3.3 Evaluate Information
- 3.4 Draw Conclusions

#### **UNIT 4: INFER MEANING FROM INFORMATIVE TEXTS**

- 4.1 Making Assumptions
- 4.2 Watch out for Bias
- 4.3 Ask Clarifying Questions
- 4.4 SWOT Analysis

### **UNIT 5: PROBLEM SOLVING**

- 5.1 Introduction to Problem Solving Changing Your Perspective
- 5.2 Limitations of Point of View
- 5.3 Considering others viewpoints

## METHODOLOGY

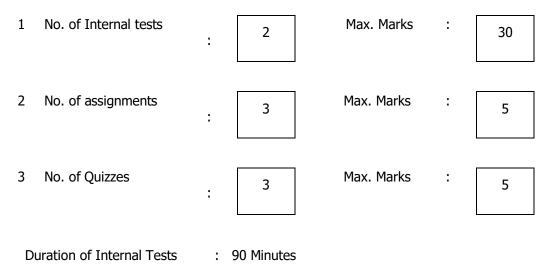
- Case Studies
- Demonstration
- Presentations
- Expert lectures
- Writing and Audio-visual lessons

### LEARNING RESOURCES

#### learn.talentsprint.com

- 1. Calling Bullshit: The Art of Skepticism in a Data-Driven World. by Carl Bergstrom & Jevin West. ...
- 2. Thinking, Fast and Slow. by Daniel Kahneman. ...
- 3. Factfulness: Ten Reasons We're Wrong About The World And Why Things Are Better Than You Think. ...
- 4. Box Thinking: The Surprising Truth About Success. ...

The break-up of CIE: Internal Tests + Assignments + Quizzes



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# ASSESSMENTS

- Online assignments - Individual and Group