

**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**

<b>Instruction: 3 Hours</b>	<b>SEE: 60</b>	<b>Course code: U23OE430EH</b>
<b>Credits: 3</b>	<b>CIE: 40</b>	<b>Duration of SEE: 3 Hours</b>
<b>COURSE OBJECTIVES</b> <b>The course will enable the learners to:</b> <ol style="list-style-type: none"> <li>1. Identify the core skills associated with critical thinking.</li> <li>2. Comprehend the various techniques of critical thinking</li> <li>3. Evaluate data and draw insights from it to make the right decisions</li> <li>4. Understand where to look for bias and assumptions in problem</li> <li>5. Understand structure, standards and ethics of critical writing</li> </ol>		<b>COURSE OUTCOMES</b> <b>At the end of the course the learners will be able to: -</b> <ol style="list-style-type: none"> <li>1. Analyse and compare techniques for comparing alternate solutions</li> <li>2. Demonstrate the difference between deductive and inductive reasoning and construct logically sound arguments</li> <li>3. Check for accuracy of data and use it as a tool for problem solving</li> <li>4. Evaluate, identify and distinguish between relevant and irrelevant information to formulate a thesis or hypothesis.</li> <li>5. Employ evidence and information effectively</li> </ol>

**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

**ASSESSMENTS**

- Online assignments
- Individual and Group

**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

1	No. of Internal tests	:	<input type="text" value="2"/>	Max. Marks	:	<input type="text" value="30"/>
2	No. of assignments	:	<input type="text" value="3"/>	Max. Marks	:	<input type="text" value="5"/>
3	No. of Quizzes	:	<input type="text" value="3"/>	Max. Marks	:	<input type="text" value="5"/>

Duration of Internal Tests : 90 Minutes

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