

VASAVI COLLEGE OF ENGINEERING (Autonomous)
DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES

OPEN ELECTIVE B.E.-2/4- IV Semester

CRITICAL THINKING

Instruction : 3 Hours	SEE : 60	Course code : OE410EH
Credits : 3	CIE : 40	Duration of SEE : 3 Hours
Course Objectives To help students: 1. Identify the core skills associated with critical thinking. 2. Comprehend the various techniques of critical thinking. 3. Understand where to look for bias and assumptions in problem analysis 4. Understand Structure, standards, and ethics of critical thinking		Course Outcomes At the end of the course the student will be able to 1. Analyze and use techniques for comparing alternative solutions. 2. Demonstrate the difference between deductive and inductive reasoning. 3. Construct a logically sound and well-reasoned argument. 4. Evaluate, identify, and distinguish between relevant and irrelevant information. 5. Formulate a thesis or Hypothesis 6. Employing Evidence/Information effectively.

UNIT I - Components of Critical Thinking

1. Applying Reason
2. Open Mindedness
3. Analysis
4. Logic

UNIT II - Non-Linear Thinking

1. Step Out of Your Comfort Zone
2. Don't Jump to Conclusions
3. Expect and Initiate Change
4. Being Ready to Adapt

UNIT III - Logical Thinking

1. Ask the Right Questions
2. Organize the Data
3. Evaluate the Information
4. Draw Conclusions

UNIT IV - Infer meaning from informative texts

1. Making Assumptions
2. Watch out for Bias
3. Ask Clarifying Questions
4. SWOT Analysis

Sum
17/2/2020

Shilpi
17/2/2020
Shilpi
17 Feb 2020

Shilpi
17/2/2020
Shilpi
17/2/2020

Shilpi
17-2-20

UNIT-V - Problem Solving

1. Identify Inconsistencies
2. Trust Your Instincts
3. Asking Why?

METHODOLOGY: -

Case Studies
Demonstration
Expert lectures
Writing and Audio-visual lessons

ASSESSMENT:-

Online assignments
Individual and Group Presentations

Learning Resources:-

1. Critical Thinking: A Beginner's Guide to Critical Thinking, Better Decision Making, and Problem Solving – Jennifer Wilson
2. Wait, What? And Life's Other Essential Questions- James E. Ryan
3. Think Smarter: Critical Thinking to Improve Problem-Solving and Decision-Making Skills – Michael Kallet
4. The Art of Thinking Clearly – Rolf Dobelli

EMM
17/2/2020

ADL
17 Feb 2020

ADL
17/2/2020

ADL
17/2/2020

Shubhi
17/2/2020

ADL
17-2-20