

Faculty of Engineering & Technology

Scientific Thinking

Information :						
Course Code :	SCT 101	Level	:	Undergraduate	Course Hours :	2.00- Hours
Department :	University Requirment	S				

Course ou	itcomes :
a.Knowled	lge and Understanding: :
1 -	Describe insights into their environment and their scientific thinking well-being.
2 -	Select different human behavior and ways of its motivation.
3 -	Define different scientific thinking terms, concepts and principles.
4 -	State major perspectives in scientific thinking.
5 -	Discuss the ways that scientific thinking theories are used to assess, predict and change human behavior.
b.Intellect	ual Skills: :
1 -	Apply critical thinking using scientific thinking theories and principles on personal relationships.
2 -	Assess human behavior in scientific thinking.
3 -	Criticize research paper in scientific thinking.
c.Professi	onal and Practical Skills: :
1 -	Use observational methods to describe, explain, predict as well as control behavior of scientific thinking.
2 -	Show scientific thinking to influence and improve lives of human beings.
d.General	and Transferable Skills: :
1 -	Communicate effectively with others by applying the information they gained about scientific thinking.
2 -	Set goals and plans to achieve them.
3 -	Appreciate continuous professional development and lifelong learning.

Course Topic And Contents :			
Торіс	No. of hours	Lecture	Tutorial / Practical
Introduction: What is scientific Thinking?	2	1	0
Types of scientific thinking-scientific thinking components	2	1	0
Levels of thinking-bloom taxonomyscientific thinkers'; behavior, attitudes and tools	2	1	0



Course Topic And Contents :

Торіс	No. of hours	Lecture	Tutorial / Practical
Elements of science-scientific methodcollecting information-implementation of tools of thinkers as well as scientific method into phases of thinking	2	1	0
Elements of science-scientific methodcollecting information-implementation of tools of thinkers as well as scientific method into phases of thinking [continued]	2	1	0
Concept	2	1	0
Hypothesis-Research assignment discussion	2	1	0
Variable	2	1	0
Strategies and problem solving	2	1	0
Analysis-practice	2	1	0
Analysis-practice	2	1	0
Analysis-practice	2	1	0
Decision making	2	1	0

	Teaching And Learning Methodologies :		
Interactive Lectures including Discussions			
Self-Study (Project / Reading Materials / Online Material / Presentations)			
Case Studies			

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
methous of assessment	Relative weight 70	WEEKIND	A35635 What
Assignments	10.00		
Final Exam	40.00		
Individual Projects	15.00		
Midterm Exam (s)	30.00		
Presentations	5.00		