

## LIST OF FIGURES

Figure No.	Title	Page No.
1.1	The Cooperative Wheel	24
1.2	Ten Core Life Skills	30
1.3	Two-tier model of factors facilitating Creative Thinking	51
1.4	Simon's Stages of Decision Making	57
1.5	Seven Steps of Problem Solving Process	63
1.6	3P Model of Learning (Biggs, 1989)	75
3.1	Composition of the Scale and Subscale Scores	205
4.1	Schematic Layout of the design	221
5.1	Bar Diagrams Showing Means of Entry Behaviour Scores	230
5.2	Frequency Polygons Showing Distribution of Gain Scores on Criterion Test for the Skill of Acquiring Knowledge in Chemistry (Deep Approach)	234
5.3	Frequency Polygons Showing Distribution of Gain Scores on Criterion Test for the Skill of Acquiring Knowledge in Chemistry (Surface Approach)	236
5.4	Inverted Ogives Showing Distribution of Gain Scores on Criterion Test for the Skill of Acquiring Knowledge in Chemistry (Deep Approach)	237
5.5	Inverted Ogives Showing Distribution of Gain Scores on Criterion Test for the Skill of Acquiring Knowledge in Chemistry (Surface Approach)	238
5.6	Bar Graph Showing Gain Means on Criterion Test for the Skill of Acquiring Knowledge in Chemistry of the Treatment Groups in Relation to Learning Approach	240

<b>Figure No.</b>	<b>Title</b>	<b>Page No.</b>
5.7	Frequency Polygons Showing Distribution of Gain Scores on Criterion Test for the Skill of Acquiring Knowledge in Physics (Deep Approach)	248
5.8	Frequency Polygons Showing Distribution of Gain Scores on Criterion Test for the Skill of Acquiring Knowledge in Physics (Surface Approach)	249
5.9	Inverted Ogives Showing Distribution of Gain Scores on Criterion Test for the Skill of Acquiring Knowledge in Physics (Deep Approach)	250
5.10	Inverted Ogives Showing Distribution of Gain Scores on Criterion Test for the Skill of Acquiring Knowledge in Physics (Surface Approach)	251
5.11	Bar Graph Showing Gain Means on Criterion Test for the Skill of Acquiring Knowledge in Physics of the Treatment Groups in Relation to Learning Approach	253
5.12	Frequency Polygons Showing Distribution of Gain Scores on Criterion Test for the Skill of Acquiring Knowledge in Biology (Deep Approach)	261
5.13	Frequency Polygons Showing Distribution of Gain Scores on Criterion Test for the Skill of Acquiring Knowledge in Biology (Surface Approach)	262
5.14	Inverted Ogives Showing Distribution of Gain Scores on Criterion Test for the Skill of Acquiring Knowledge in Biology (Deep Approach)	263
5.15	Inverted Ogives Showing Distribution of Gain Scores on Criterion Test for the Skill of Acquiring Knowledge in Biology (Surface Approach)	264
5.16	Bar Graph Showing Gain Means on Criterion Test for the Skill of Acquiring Knowledge in Biology of the Treatment Groups in Relation to Learning Approach	266

<b>Figure No.</b>	<b>Title</b>	<b>Page No.</b>
5.17	Frequency Polygons Showing Distribution of Gain Scores for the Skill of Critical Thinking (Deep Approach)	274
5.18	Frequency Polygons Showing Distribution of Gain Scores for the Skill of Critical Thinking (Surface Approach)	275
5.19	Inverted Ogives Showing Distribution of Gain Scores for the Skill of Critical Thinking (Deep Approach)	276
5.20	Inverted Ogives Showing Distribution of Gain Scores for the Skill of Critical Thinking (Surface Approach)	277
5.21	Bar Graph Showing Gain Means for the Skill of Critical Thinking of the Treatment Groups in Relation to Learning Approach	279
5.22	Frequency Polygons Showing Distribution of Gain Scores for Decision Making Ability (Deep Approach)	287
5.23	Frequency Polygons Showing Distribution of Gain Scores for Decision Making Ability (Surface Approach)	288
5.24	Inverted Ogives Showing Distribution of Gain Scores for Decision Making Ability (Deep Approach)	289
5.25	Inverted Ogives Showing Distribution of Gain Scores for Decision Making Ability (Surface Approach)	290
5.26	Bar Graph Showing Gain Means for Decision Making Ability of the Treatment Groups in Relation to Learning Approach	292
5.27	Frequency Polygons Showing Distribution of Gain Scores for Factors Influencing Decisions (Deep Approach)	299
5.28	Frequency Polygons Showing Distribution of Gain Scores for Factors Influencing Decisions (Surface Approach)	301
5.29	Inverted Ogives Showing Distribution of Gain Scores for Factors Influencing Decisions (Deep Approach)	302

<b>Figure No.</b>	<b>Title</b>	<b>Page No.</b>
5.30	Inverted Ogives Showing Distribution of Gain Scores for Factors Influencing Decisions (Surface Approach	303
5.31	Bar Graph Showing Gain Means for Factors Influencing Decisions of the Treatment Groups in Relation to Learning Approach	305
5.32	Frequency Polygons Showing Distribution of Gain Scores for the Skill of Problem Solving (Deep Approach)	313
5.33	Frequency Polygons Showing Distribution of Gain Scores for the Skill of Problem Solving (Surface Approach)	314
5.34	Inverted Ogives Showing Distribution of Gain scores for the Skill of Problem Solving (Deep Approach)	315
5.35	Inverted Ogives Showing Distribution of Gain Scores for the Skill of Problem Solving (Surface Approach)	316
5.36	Bar Graph Showing Gain Means for the Skill of Problem Solving of the Treatment Groups in Relation to Learning Approach	318
5.37	Frequency Polygons Showing Distribution of Gain Scores for the Higher Mental Abilities in Science (Deep Approach)	326
5.38	Frequency Polyons Showing Distribution of Gain Scores for the Higher Mental Abilities in Science (Surface Approach)	327
5.39	Inverted Ogives Showing Distribution of Gain Scores for the Higher Mental Abilities in Science (Deep Approach)	328
5.40	Inverted Ogives Showing Distribution of Gain Scores for the Higher Mental Abilities in Science (Surface Approach)	329
5.41	Bar Graph Showing Gain Means for the Higher Mental Abilities in Science of the Treatment Groups in Relation to Learning Approach	331

<b>Figure No.</b>	<b>Title</b>	<b>Page No.</b>
5.42	Frequency Polygons Showing Distribution of Gain Scores for the Skill of Creative Thinking-Fluency (Deep Approach)	339
5.43	Frequency Polygons Showing Distribution of Gain Scores for the Skill of Creative Thinking-Fluency (Surface Approach)	340
5.44	Inverted Ogives Showing Distribution of Gain Scores for the Skill of Creative Thinking-Fluency (Deep Approach)	341
5.45	Inverted Ogives Showing Distribution of Gain Scores for the Skill of Creative Thinking-Fluency (Surface Approach)	342
5.46	Bar Graph Showing Gain Means for the Skill of Creative Thinking-Fluency of the Treatment Groups in Relation to Learning Approach	344
5.47	Frequency Polygons Showing Distribution of Gain Scores for the Skill of Creative Thinking-Flexibility (Deep Approach)	351
5.48	Frequency Polygons Showing Distribution of Gain scores for the Skill of Creative Thinking-Flexibility (Surface Approach)	353
5.49	Inverted Ogives Showing Distribution of Gain Scores for the Skill of Creative Thinking-Flexibility (Deep Approach)	354
5.50	Inverted Ogives Showing Distribution of Gain scores for the Skill of Creative Thinking-Flexibility (Surface Approach)	355
5.51	Bar Graph Showing Gain Means for the Skill of Creative Thinking-Flexibility of the Treatment Groups in Relation to Learning Approach	357
5.52	Frequency Polygons Showing Distribution of Gain Scores for the Skill of Creative Thinking-Originality (Deep Approach)	365
5.53	Frequency Polygons Showing Distribution of Gain Scores for the Skill of Creative Thinking-Originality (Surface Approach)	366

<b>Figure No.</b>	<b>Title</b>	<b>Page No.</b>
5.54	Inverted Ogives Showing Distribution of Gain Scores for the Skill of Creative Thinking-Originality (Deep Approach)	367
5.55	Inverted Ogives Showing Distribution of Gain Scores for the Skill of Creative Thinking-Originality (Surface Approach)	368
5.66	Bar Graph Showing Gain Means for the Skill of Creative Thinking-Originality of the Treatment Groups in Relation to Learning Approac	370
6.1	Schematic Layout of the design	410