

## LIST OF TABLES

Table No	Title of the table	Page No.
Table 1.1	Comparison between traditional school practices and proposed process based school practices	17
Table 1.2	Changing emphasis from tradition to prospective methodology of teaching in schools	20
Table 3.1	Description of the sample	80
Table 3.2	List of tools	82
Table 3.3	Distribution of items of AT as per the subjects	83
Table 3.4	Component wise distribution of the items of NSS.	84
Table 4.1	An Initial draft of the proposed Activity Based Science Teaching Programme	95
Table 4.2	Outline of the implementation of an Activity Based Science Teaching Programme	100
Table 4.3	Significance of Difference between the Mean Score of Student teachers' in Achievement test before and after the treatment	129
Table 4.4	Significance of difference between the Mean score of the student teachers in performance test before and after the Treatment	130
Table 4.5	Significance of difference between the Mean Score of the student teachers on a nature of science scale before and after the treatment	131
Table 4.6	Significance of difference between the Mean Score of the student teachers in STQ scale before and after the treatment	132
Table 4.7	Analysis of the responses for A1 on AES(Frequency and percentage F& P)	137
Table 4.8	Analysis of the responses for A2 on AES (F& P)	138
Table 4.9	Analysis of the responses for A3 on AES (F& P)	140
Table 4.10	Analysis of the responses for A4 on AES (F& P)	141
Table 4.11	Analysis of the responses for A5 on AES (F& P)	142
Table 4.12	Analysis of the responses for A6 on AES (F& P)	143
Table 4.13	Analysis of the responses for A7 on AES (F& P)	144
Table 4.14	Analysis of the responses for A8 on AES (F& P)	145
Table 4.15	Analysis of the responses for A9 on AES (F& P)	146
Table 4.16	Analysis of the responses for A10 on AES (F& P)	147
Table 4.17	Analysis of the responses for A11 on AES (F& P)	149
Table 4.18	Analysis of the responses for A12 on AES (F& P)	150
Table 4.19	Analysis of the responses for A13 on AES (F& P)	151
Table 4.20	Analysis of the responses for A14 on AES (F& P)	152
Table 4.21	Analysis of the responses for A15on AES(F& P)	153
Table 4.22	Analysis of the responses for A16 on AES (F& P)	154
Table 4.23	Analysis of the responses for A17 on AES (F& P)	155
Table 4.24	Analysis of the responses for A18 on AES (F& P)	157
Table 4.25	Activities of ABSTP with lowest to highest rating as per PES	158
Table 6.1	Description of the sample	182