LIST OF TABLES

Table 1: Percentage Change in Enrolment over 2013-14, School Education. Source: U-DISE (2016-17)	6
Table 2: Minimum eligibility for entry into the teaching profession in India (NCTE, 2014)	13
Table 3: Teacher professionalism policy reforms across countries. Source: OECD (2015), Education	
Policy Outlook 2015: Making Reforms Happen	41
Table 4: Block wise Secondary Schools	
Table 5: Level wise Marking of Mathematics Achievement Test	
Table 6: Level wise Marking of Science Achievement Test	85
Table 7: Variance caused by the factors extracted	
Table 8: Rotated Component Matrix and the Factor Loadings	
Table 9: Skewness and Kurtosis for teacher and student data	
Table 10: Gender and degree wise Mean, S.D. and t-value/F-value for teacher professionalism scores	
Table 11: Demographic category wise Mean, S.D., and F-value of teacher professionalism scores	
Table 12: Demographic category wise Mean, S.D., and t-value of students' achievement scores	
Table 13: Demographic category wise mean, S.D. and t-value of scores of students in mathematics and	
science	105
Table 14: Demographic profile of teachers who participated in the study	108
Table 15: Correlation between teacher demographic characteristics and teacher professionalism score	
Table 16: Multiple regression results for effects of teacher demographic characteristics on teachers'	
professionalism scores	111
Table 17: Demographic profile of students who participated in the study	114
Table 18: Correlation between the students' characteristics and mathematics and science achievement	
scores	116
Table 19: Multiple regression results for the effect of students' demographic characteristics on their	
mathematics and science achievement scores	119
Table 20: Demographic profile of private school teachers who participated in the study	
Table 21: Correlation between teacher demographic characteristics and teacher professionalism scores	
Table 22: Multiple regression results for the effect of teacher demographic characteristics on	
professionalism scores in private schools	124
Table 23: Demographic profile of public-school teachers who participated in the study	127
Table 24: Correlation between teacher demographic characteristics and professionalism scores of public-	
school teachers	129
Table 25: Multiple regression results for the effect of teacher demographic characteristics on	
professionalism in public school teachers	130
Table 26: Demographic profile of private school students who participated in the study	132
Table 27: Correlation between demographic characteristics and mathematics and science scores of private	
school students	133
Table 28: Multiple regression results for private school students	135
Table 29: Demographic profile of public-school students who participated in the study	137
Table 30: Correlation between demographic characteristics and mathematics and science achievement	
scores of public- school students	138
Table 31: Multiple regression results for the effect of students' demographic characteristics on	
mathematics and science achievement scores of public-school students	139

LIST OF FIGURES

Figure 1: Teacher Status Index across countries. Source: Varkey Foundation (2018). Global Teacher Index	35
Figure 2: Performance of Grade 10 students in NAS, 2015	67
Figure 3: Block level map of Jhunjhunu district, Rajasthan	80
Figure 4: Attributes of teacher professionalism	86
Figure 5: Scree Plot of the components of teacher professionalism extracted	91
Figure 6: Normal Probability Curve for teacher professionalism scores	
Figure 7: Normal Probability Curve for Mathematics and Science Achievement of students	97
Figure 8: Graph representing gender and degree wise mean scores of teachers	99
Figure 9: Graph representing age, experience, job description, annual income, and training wise mean scores of teachers	102
Figure 10: Graph representing board, gender, pre-school and tuition category wise mean scores of students	104
Figure 11: Graph representing gender, pre-school, tuition and board category wise mean scores of students in mathematics and science	106
Figure 12: Graphs representing level wise mean scores of students in mathematics and science	107
Figure 13: p-p plot and scatterplot for the regression between teacher demographics and teachers' professionalism scores	114
Figure 14: p-p plot and scatter plot for mathematics and science achievement	120
Figure 15: p-p plot and scatterplot for teacher professionalism in private schools	127
Figure 16: p-p plot and scatterplot for public school teachers	131
Figure 17: p-p plot and scatterplot for mathematics and science achievement scores of private school	
students	
Figure 18: p-p plot and scatterplot for mathematics and science achievement of public-school students	
Figure 19: Share of female teachers across levels of education over the years (Source: U-DISE, 2016-17)	190

LIST OF ABBREVIATIONS

AICTE All India Council for Technical Education

MHRD Ministry of Human Resource and Development, Government of India

NAS National Assessment Survey, NCERT

NCERT National Council for Education, Research and Training, GOI

NCF National Curriculum Framework

NEP National Education Policy

NPE National Policy on Education

RMSA Rashtriya Madhyamik Shiksha Abhiyan

RTE Right To Education

SSA Sarva Shiksha Abhiyan

UDISE Unified District Information System for Education

UGC University Grants Commission

UNESCO United Nation's Educational, Scientific and Cultural Organization