

**Syllabus for SIT M.Tech(AI and ML), M.Tech(Embedded Systems),  
M.Tech(Robotics and Automation) Entrance Examination**

Topic	Contents	Marks (total 50)
<b>Verbal Aptitude</b>	Basic English grammar: tenses, articles, adjectives, prepositions, conjunctions, verb-noun agreement, and other parts of speech Basic vocabulary: words, idioms, and phrases	<b>10</b>
<b>Quantitative Aptitude</b>	Data interpretation: data graphs (bar graphs, pie charts, and other graphs representing the data), 2- and 3-dimensional plots, maps, and tables  Basic algebra: roots of equations, ratios, percentages, powers, exponents and logarithms, permutations and combinations, and series etc.  Mensuration and fundamental geometry  Determinant and Matrices	<b>20</b>
<b>Flow Chart and Logic</b>	Flowchart and Algorithm basics	<b>10</b>
<b>Statistics</b>	Basic concepts, Mean, median, standard deviation, simple tests, elementary statistics and probability	<b>10</b>