

## Medi-Caps University Special 60 Hours Training for BTech

Module	Topic	Subtopic	Live Session
APTITUDE MODULE	Quantitative Aptitude	Numbers and related topics HCF and LCM, Number System, Number Decimals & Fractions, Surds and Indices, Divisibility, Ages, Inverse Speed, Work, Time, and related topics Speed Time and Distance, Work and Time, Boats and Streams, Pipes and Cisterns Averages Allegations and Mixtures, Ratio and Proportions, Simple & Compound Interest, Percentages, Profit & Loss Probability and Combinations Probability and Combinations, Probability, Permutation & Combination, Combination, Circular Permutation Geometry and other related topics Geometry, Perimeter Area and Volume, Venn Diagrams, Set Theory Equations and other related topics Algebra, Linear Equations, Quadratic Equations Reasoning Clocks, Calendars, Clocks and Calendars Data Interpretation and Reasoning	18 Hours
	Logical Reasoning	Analytical, Puzzles, Blood Relationship, Data Interpretation, Data Sufficiency, Logical Deductions, Syllogism, Analogy and Classification Pattern	7 Hours
	Verbal	Vocabulary Synonyms, Antonyms, Analogies, Spellings, Odd Words, One Word Different Meanings, Sentence Completion, Cloze Tests Grammar Error Correction, Para-jumbles Logical Continuation Reading Comprehension, Idioms and Phrases, Sentence Completion	5 Hours
Total Hours			30 Hours

Python			
Module	Topic	Subtopic	Hours
TECHNICAL MODULE	Object Oriented Programming	What is object oriented programming? Advantages of OOPs. OOPs concepts	7 Hours
	Control Statements	Simple If , If else, Nested If else , Else if ladder Looping, for loop, while loop, do while loop Jump statement Switch, Break, Continue	
	Introduction to Python	What is Python?	
	Python Fundamentals	Object hierarchy in Python, Data types Operators, Type Casting, Arrays	
	Classes and Objects in Python, Constructor	Class (Static) Variable and Methods Inheritance , super keyword	
DSA			
TECHNICAL MODULE	Introduction	Definition and Importance Complexity Analysis (Time and Space)	23 Hours
	5 Types of Data Structures	Arrays, Linked List, Queue, Trees, Graphs	
	Advance Topics	Sorting Algorithms (Quick Sort, Merge Sort, etc.) Searching Algorithm, Dynamic Programming Greedy Algorithms	
Total Hours			30 Hours

Test Schedule	Day	No. of Questions	Duration
Test 1 (After Aptitude Syllabus)	Sunday	60 Questions	60 Mins
Test 2 (After Technical Syllabus)	Sunday	60 Questions	60 Mins
Test 3 (After Completion of Training)	Sunday	60 Questions	60 Mins

Mock And Sample Papers	10 Test	5 Aptitude	
		5 Technical	