

**SELECTION PROCEDURE:**

GATE score or Entrance Test on python programming or equivalent programming language for non-GATE candidates

**Entrance test for M.Tech (AI &ML)**

Syllabus:	<p><b>1. Basics of Programming:</b></p> <p>Programming basics, Basic of Python, features of python programming, comments, literal constants, numbers, variable, identifier naming, basic data types, basic I/O statements, logical and syntactical errors, Operators and expressions</p> <p><b>2. Datatypes and Data Structures:</b></p> <p>Datatypes: Arrays, list, set and strings.</p> <p>Data structures: Tuples, dictionary,lists: indexing, slicing, basic methods, Strings and string properties.</p> <p><b>3. Control Statements:</b></p> <p>Conditionals and Boolean expressions: if statement, if----else, elif, break</p> <p>Control flow: conditionals and iterators: continue, pass, for loop, while loop, nested for loop and nested while loop.</p> <p><b>4.Functions and Modules:</b></p> <p>Build-in function, Function parameters, local statement, global statement, default argument values, keyword arguments, Var Args parameters, return statement, import, recursive functions, block structure, scope</p> <p>Modules import statement, module's name, making your own module, dir function.</p>
Pattern:	MCQ
Max. Marks:	50
Time allotted:	1 Hour