

Syllabus for AITLET

Introduction:

1. Student seeking admission to Direct Second Year (Lateral Entry) after Diploma has to appear for AITLET exam which consist of two Test Viz Test-1 and Test-2.
2. **Test 1** is common for all candidates.
3. **Test 2** is branch specific, for e.g. Electrical student who is seeking admission in Electronics and Telecommunication branch, he/she has to refer syllabus of E&TC Branch and if he/she is seeking admission to Computer or IT branch he/she has to refer the syllabus of Computer and IT Engineering.
4. Syllabus mentioned here is broad-based and framed based on syllabi of diploma courses of some states.

TEST 1- Common test for all branches (Test to be given by all eligible students)

Mathematics

Limits, derivatives, integration, complex numbers, formation of differential equations, solution of first order differential equations, probability, matrices, planes and lines.

English

Articles, preposition, pronoun, verb, adverb, clauses, adjective, tenses, conjunction, sentence construction, vocabulary, active passive voice, direct and indirect speech, English reading Skills

TEST 2- Branch Specific Test

(Test to be given by eligible students for specific branches mentioned below)

Mechanical Engineering

Elements/Basics of Mechanical Engineering, Engineering/Applied Mechanics, Strength of Materials, Applied/Engineering Thermodynamics, Manufacturing Sciences, Production Engineering, Fluid Mechanics and Machinery, Material Science, Engineering Metallurgy, Machine Design, Machine Drawing

Computer and IT Engineering

Fundamentals of C language, Basics of C++, Digital Logic, Programming and Data Structures, Algorithms- searching and sorting, Graph search- minimum spanning trees, and shortest paths. Database management system, Software Engineering, Basics of Operating System, Computer Networks.

Electronics and Telecommunication Engineering

Basic Electronics, Basic electrical systems, Electronic devices and circuits, Digital electronics, network analysis, Measurement and instrumentation, microprocessor, Communication system , Programming language concept, electronic design, Integrated circuits

