



AFCAT Syllabus, Exam Pattern & Chapter Wise Weightage

AFCAT Syllabus

AFCAT Syllabus - AFCAT written test

The written exam is broadly classified into two sections i.e AFCAT written test and EKT (Engineering Knowledge Test). The AFCAT written test will judge the basic aptitude of the applicant through subjects like English, General Awareness, and Numerical Ability. The test will also judge the Military Aptitude of the candidate. The highest number of questions will be asked in this section,i.e.100. The duration of this test will be 2 hours.

AFCAT Syllabus - Engineering Knowledge Test

This test will be given by only those candidates who will apply for Technical posts. In this section, questions will be specific to the stream of graduation like Computer Science, Mechanical, and Electrical & Electronics. The questions for this section will be asked from the core technical subjects of the mentioned branches. A total of 50 questions will be asked in this section.

AFCAT Syllabus - English

The following are the topics that will be covered in the English section of the AFCAT written test.

- Synonyms
- Comprehension
- Sentence Completion/Filling in of the correct word
- Idioms and Phrases
- Error Detection
- Antonyms
- Vocabulary

AFCAT Syllabus - General Awareness

The standard of questions for general awareness will be as that as of the graduate level. Candidates are expected to possess knowledge of the following topics.

- History
- Geography
- Civics
- Environment
- Defense
- Art
- Culture
- Basic Science
- Politics
- Current Affairs
- Sports, etc.

AFCAT Syllabus - Numerical Ability

The level of difficulty for this section will be that of Matriculation level and not from the graduation level, unlike other sections.

- Time and Work
- Simple Interest
- Profit & Loss
- Average
- Percentage
- Decimal Fraction
- Ratio & Proportion
- Time & Distance (Trains/Boats & Streams)

AFCAT Syllabus - Engineering Subjects

The syllabus for the Engineering Knowledge Test will consist of important fundamental subjects from the concerned streams.

Computer Science Engineering	Electronics Engineering	Mechanical Engineering
<ul style="list-style-type: none"> • Analog and Digital Electronics • Switching Theory • Information Technology • Electronic Devices • Computer Networks • Network Theory Design • Telecommunication Systems • Microwave Engineering • Antenna and Wave Propagation • Radar Theory • Instrumentation • Electrical Engineering • Control Engineering 	<ul style="list-style-type: none"> • Analog and Digital Electronics • Electrical Engineering • Instrumentation • Microwave Engineering • Antenna and Wave • Electronic Devices • Control Engineering • Telecommunication Systems • Propagation • Network Theory Design • Switching Theory • Information Technology • Computer Networks 	<ul style="list-style-type: none"> • Engineering Mechanics • Fluid mechanics/Hydraulic Machines • Thermodynamics • Aircraft Structures • Theory of Machines, • Automotive Engineering • Power Plant Engineering • Industrial Engineering • Manufacturing Science • Materials Science • Flight Mechanics • Aerodynamics

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AFCAT Exam Pattern

The written examination will consist of two parts i.e AFCAT and EKT. The first section will consist of a total of 100 questions while the second part will have 50 questions. Three marks will be awarded for the correct answer and negative one mark or every incorrect question. The detailed [AFCAT Exam Pattern](#) is as follows.

Exam	Parts	Duration	Total Questions	Max. Marks
AFCAT	General Awareness, Reasoning, Verbal Ability, Numerical Ability, and Military Aptitude Test	120 minutes	100	300
Engg. Knowledge Test	Mechanical/Electrical & Electronics/Computer Science	45 Minutes	50	150

Chapter-Wise Weightage of Each Subject under AFCAT Syllabus

The Chapter-Wise Weightage for Each Subject has been given in the tables below:

Mathematics

The Chapter-Wise Weightage for Mathematics has been given in the table below:

AFCAT Numerical Ability Topics	Weightage
Speed Time and Distance	3-4 Questions
Time and Work	2 Questions
Profit and Loss	2-3 Questions
Basic Algebra	3-4 Questions
Simplification (fraction, decimal)	1-2 Questions

Geometry and Mensuration	2-3 Questions
Ratio and Proportion	1-2 Questions
Percentage	1-2 Questions
Number System	2-3 Questions
Average	0-1 Questions

English

The Chapter-Wise Weightage for English has been given in the table below:

AFCAT English Topics	Weightage
Reading Comprehension (2 passages)	6 Questions
Error Spotting	3-5 Questions
Fill in the Blanks	4-5 Questions
Idiom and Phrases	5 Questions
Synonyms	3-4 Questions
Antonyms	3-4 Questions
Correct Spelling	3 Questions
Cloze Test	5-6 Questions

General Awareness

The Chapter-Wise Weightage for General Awareness has been given in the table below:

AFCAT General Awareness Topics	Weightage
History	3-4 Questions

Geography	6-8 Questions
Economics	2 Questions
Indian Polity (static)	3-4 Questions
Science and Technology	2-3 Questions
Current Affairs	5-6 Questions

Reasoning

The Chapter-Wise Weightage for Reasoning has been given in the table below:

AFCAT Reasoning and Military Aptitude	Weightage
Dot Situation	5 Questions
Embedded Figures and Series Based	5-6 Questions
Mirror Image	1-2 Questions
Paper Cutting and folding	2-3 Questions
Pattern Completion	4-5 Questions
Analogy	4-6 Questions
Classification	2-4 Questions
Coding-Decoding	2-3 Questions
Venn Diagram	4-5 Questions
Series	2-3 Questions
Verbal Reasoning	1-2 Questions