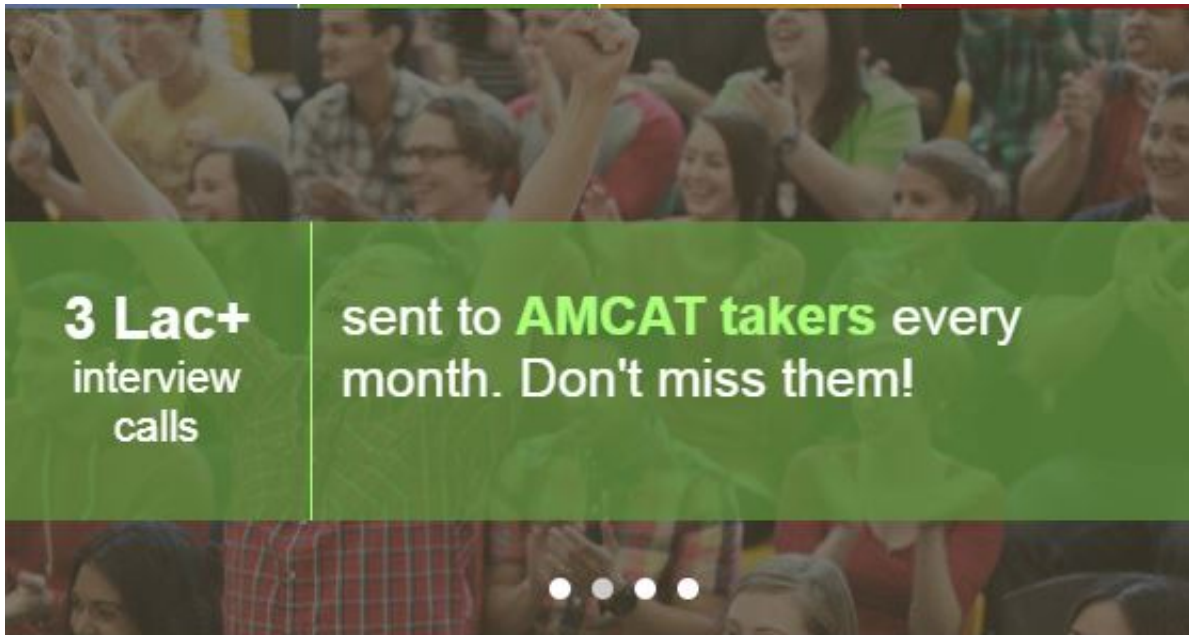


AMCAT Engineering Syllabus 2017-18 - ECE/CSE/EEE/IT/Mech/Civil Syllabus

AMCAT Engineering Syllabus 2017-18 - Welcome students!! We are here to help the students who dream of clearing the exam of AMCAT. Our team has designed the **AMCAT Engineering Syllabus topic wise** so as to add wings to the future of the students.



AMCAT Engineering Syllabus 2017-18

The AMCAT organizes its test in various fields or modules. The students are selected according to their profile and their study background. There are various modules which a candidate has to cross so as to be eligible in AMCAT. The modules are distributed in two parts which are known as compulsory or optional. It is highly recommended that students must have to go through the prior exam pattern and syllabus of AMCAT.

AMCAT Official Website: [direct link](#)

Here our team has designed the pattern of syllabus just to assist the appearing students. Come lets have a look at it.

More on AMCAT:

- [AMCAT Syllabus for Fresher](#)

- [AMCAT Management Syllabus](#)
- [AMCAT Exam Pattern and Syllabus](#)

Pattern of AMCAT Syllabus Branch Wise

Computer Programming

This module is designed with the aim of testing the skills of students in the Computer Programming. This test requires its candidates to test the programming languages and it does not require to code during the test.

Profile required for the Job

The candidates should Technical support Executive, Computer Engineer, software Developer Web, Product Trainee, Testing Engineer, Research Engineer etc.

Total number of questions are 25 which has to to answered in 35 minutes.

Basic Programming

- Data Types
- Iteration, Recursion, Decision
- Procedure, functions and scope

Data Structures

- Arrays, Linked Lists, Trees, Graphs
- Stacks, Queues
- Hash Tables
- Heaps
- Searching and Sorting

OOPs (Object Oriented Programming)

- Polymorphism
- Abstraction
- Encapsulation
- Complexity Theory

Miscellaneous

- Searching and sorting

- Complexity Theory

Computer Science Syllabus

This module focuses on the candidates knowledge in operating system and computer architecture, computer networks and database concepts.

Profile required for the Job

The candidates should Software Developers, Database Administrator and Network Engineers.

Total number of questions are 26 which has to to answered in 25 minutes.

Syllabus of Computer Science for AMCAT in detail

Operating System and Computer Architecture

- Basics of OS and Computer Architecture
- Process Management and Synchorization
- Memory and I/O Management

DBMS

- Data Model
- Relational Algebra and SQL
- Normalization, Architecture, Indexing

Computer Networks

- Basics of networking and communication
- OSI, TCP/IP layers and protocols
- Network Devices and Routing Algorithms

Electronics and Semicondutors

The module assesses the suitability of job of the candidate in those companies which deal with Embedded Systems, VLSI design, SOC, Electronic, Design and Automation Companies etc.

Profile Job Function of Electronics and Semicondutors

The candidates should be Electronics Engineer, Hardware Engineer, Sales and Operations Manager/ Executive for Electronic Industry Processes, Research Scientist, Technical Content

Developer, etc.

The students has to solve 25 total number of questions in 35 minutes.

Detailed Syllabus of Electronics and Semicondutors

Semicondutors and Devices

- Basics of Semiconductor
- Two terminal Devices
- Three terminal Devices

Analog Electronics

- Basic for circuit analysis
- Small Signal and Large Signal Circuit Analysis
- Feedback, stability and oscillators
- Op-amps
- Filters

Digital Electronics

- Boolean Algebra and Minimization of Boolean functions
- Logic Families
- Combinational Circuits
- VLSI Basics
- Telecommunication

Telecommunication

This module tests the knowledge and understanding of the subject of Telecommunication and its features.

In this section the candidate has to solve 25 questions in 30 minutes.

Syllabus of Telecommunication for AMCAT

Communication

- Analog
- Digital
- Optical

Microwave Engineering

- Microwave engineering
- Transmission lines and wave guides
- Antennas and wave propagation
- Radar

Electromagnetism

- Electrostatics
- Magnetostatics
- Electromagnetic theory

These are the details of the AMCAT Engineering Syllabus 2017-18 branch wise. Just for the assistance of the students who want to score well in marks and want to make it as a career.

[Looking to take AMCAT Test ? - Apply this code and get 100 FLAT Off on payment.](#)

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