

Press Release

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Less than 15% of technology engineers can apply their computer programming skills: Report by Aspiring Minds

- **50-60% CS/IT engineers lack understanding of programming concepts**
- **Only 14.97% engineers capable of application of programming constructs!**
- **Pan India study study of 55000+ engineers across 250+ colleges**

New Delhi, 13 November, 2013: 30% of computer science/IT engineers do not know basic theoretical concepts used in computer programming, according to the latest Computer Programming Learning Levels, Engineering Graduates, 2013 report by Aspiring Minds, India's Leading Employability Solutions Company. The report is the first pan India study that examines the capability of engineering students in computer programming at the end of their undergraduate education.

"Computer Programming skill is the key foundational skill required by the IT industry and also covered by academic curriculum. Yet, we find only 14.97% of IT specialization students exhibiting skills to write a simple program, while 70% of them show theoretical understanding. Clearly, the problem is rote learning. This needs to be fixed without any delay by a fresh impetus by institutions and use of technology-based learning and assessment", said Varun Aggarwal, co-Founder and CTO, Aspiring Minds.

Since the advent of the software industry in India, there has been a constant requirement of sector specific talent for the IT industry. Computer programming and Algorithm Design are the most common denominators required vitally amongst IT professionals. However, anywhere between 50% to 60% CS/IT engineers do not understand subtleties of programming concepts, while more than 80% are unable to apply them to real-world situations. Only 14.97% of the engineers are able to do application of programming constructs, which are of routine use in the industry.

The comparison of type of knowledge held by students across various areas of competencies related to computer programming, as cited by the report is stated below:

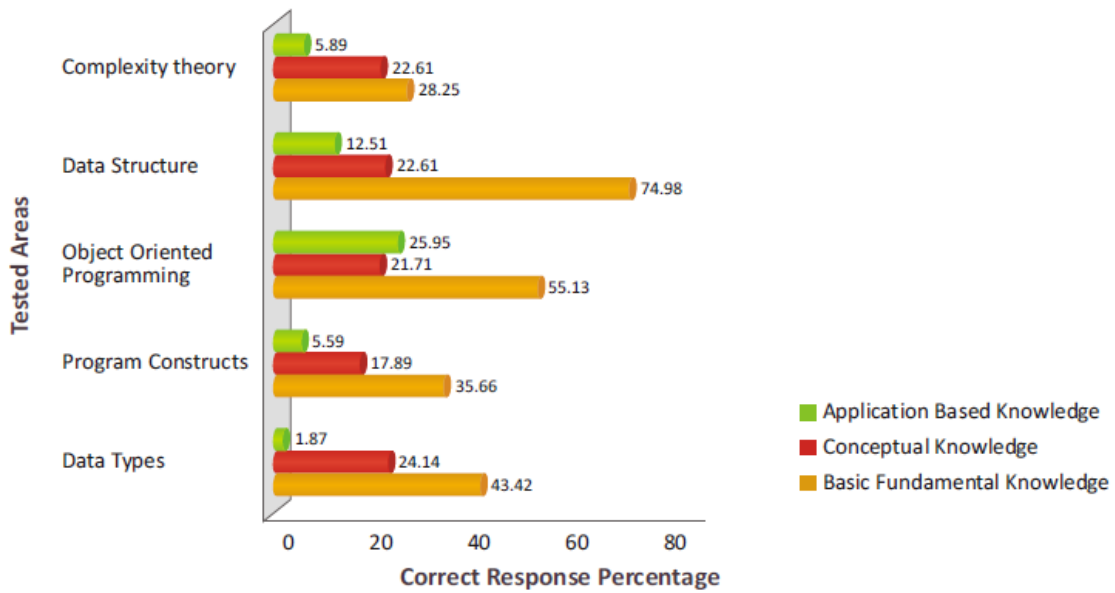


Figure 1. Correct response percentage for non CS/IT students across areas of competencies

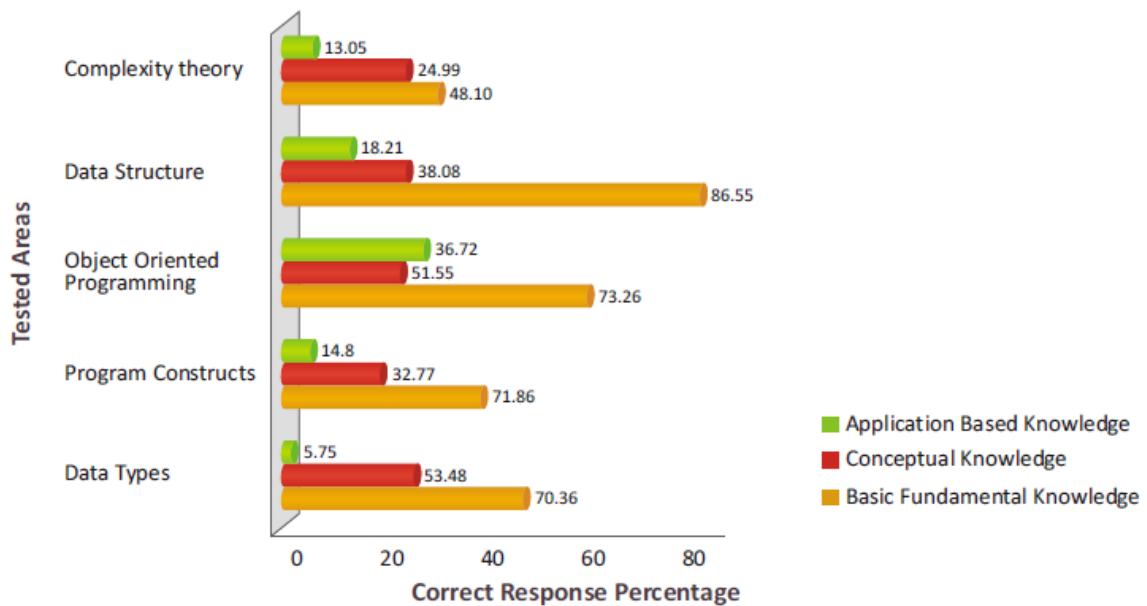


Figure 2. Correct response percentage for CS/IT students across areas of competencies

The Computer Programming Learning Levels, Engineering Graduates- Annual Report, 2013 draws inference from data from more than 55000 engineering students across India from over 250 engineering colleges.

Key highlights of the Report:

- For CS and IT engineers, 30% of the CS/IT engineers are ignorant of the basic theoretical knowledge of programming. While around 32% have conceptual knowledge, only 14% have application based knowledge.

- Around 50-60% of CS/ IT engineers do not know the basics of programming. while around 80% are unable to apply them to real world problems.
- When we look at advanced areas of programming like algorithm design such as complexity theory, around 50% CS/IT engineering students do not know even the basic terminologies and definitions in these areas.
- In terms of complexity theory, application based knowledge of CS/IT engineering students drops to a dismal 13.05% while conceptual understanding rests in only 24.99%.

About Aspiring Minds:

Aspiring Minds is India's leading employability solutions company, headquartered in Gurgaon. Aspiring Minds offers scientific assessments with an innovative large-scale sourcing model analogous to a GRE-for-job concept. The state-of-the-art assessment tools developed by Aspiring Minds have been used across industry verticals to help recruit the right people, develop profile-wise employability benchmarks and assess workforce health.

Aspiring Minds' intelligent adaptive assessments span across Language, Cognitive skills, Domain knowledge and Personality. A strong in-house research and development team with alumni from IITs and MIT form the development back bone of the patent pending assessment tools.

AMCAT™ - the flagship product is India's Largest Employability Test. Conducted across the country throughout the year, AMCAT has been taken by over 1,000,000 candidates in 2500+ campuses, spread across 25 states. Tens of thousands of candidates secure their dream jobs every year through AMCAT.

Powered by a highly dedicated management team drawn from the IITs and IIMs, over 225 full-time employees, and a pan-India operational presence, Aspiring Minds has helped leading brands across verticals to improve their recruitment process efficiency and the quality of talent they hire. Aspiring Minds products and solutions have been adopted by leading corporate's across sectors.

For more information log on to www.aspiringminds.in