



INSTITUTE OF AERONAUTICAL ENGINEERING

DUNDIGAL – 500 043, HYDERABAD

PLACEMENT AND TRAINING Information to students on Cocubes Preassess Exam 2015-2016

Date: 07.09.2015

Cocubes Pre-Assess for the registered students from IV B.Tech I semester CSE/IT/ECE/EEE will be held on 11 September, 2015. Students are advised to carry **cocubes id** and **password** at the time of exam.

The detailed syllabus and schedule for the exam is as follows.

Schedule of Exam:

Forenoon: 10 am-1pm (CSE/IT)

Afternoon: 1:30 pm-4:30 pm (ECE/EEE)

Syllabus and Duration:

The duration of the Pre-Assess will be **three hours**:

- o Aptitude – 60 minutes
- o Computer Fundamentals – 15 minutes
- o Domain – 30 minutes
- o Psychometric – 15 minutes
- o Coding – 60 minutes

Aptitude Test (60 minutes)

- o **Analytical Reasoning:** Visual Reasoning, Statement & Conclusions, Relationships, Logical Reasoning, Attention to Details, Flowcharts etc.
- o **Numerical Ability** : Concepts of mathematics including Time & Work, Speed & Distance, Algebra, Equations, Progressions, Profit & Loss, Ratios, Averages, Geometry, Data Interpretation
- o **English Usage** : Reading Comprehension ; Grammar including Articles , Prepositions, Sentence Correction, Speech, Tenses, Verbal Ability including Synonyms, Antonym, Spellings, Idioms and Phrases

Computer Fundamentals (15 minutes)

Basics of C/C++/OOPS - beginner level understanding of how to program in C or C++, basic syntax of these languages, theoretical knowledge about how these languages work.

Basics of Data Structures – Beginner level understanding of data structures about fundamental types of structures such as trees, various methods of sorting etc

General topics in computing fundamentals to test knowledge about software, hardware, binary/decimal/hexadecimal conversions, everyday encounters with computers

Domain Test (30 minutes)

Electrical: Electrical Machines, EMMI, Network Analysis and Synthesis, Control Systems, Digital Electronics, Power Electronics, Power System and Instrumentation, Microcontroller and Microprocessor

Electronics: Electronic Devices & EMMI, Network Analysis and Synthesis, Microprocessor & Microcontrollers, Digital Electronics, Communication System, Electronic Circuits, Control System



INSTITUTE OF AERONAUTICAL ENGINEERING

DUNDIGAL – 500 043, HYDERABAD

PLACEMENT AND TRAINING Information to students on Cocubes Preassess Exam 2015-2016

Date: 07.09.2015

Computer Science and Information Technology: C, C++, OOPS Concepts, Data Structures, DBMS concepts, Operating System Concepts, Design and Analysis of Algorithms, Networking Concepts, Computer Architecture

Psychometric (15 minutes)

Behavioral profiling based on commonly known personality traits

Coding Test (60 minutes): Writing codes to solve a set of problems in language of choice : C, C++, C#, Java

PLACEMENT AND TRAINING

Copy to:

Chairman, Secretary and Treasurer and Executive Director

Principal with a request to attend, HOD's of freshmen, CSE, IT, ECE, EEE, ME, AE, CE and MBA Deans – Academic, R & D, PG studies, Student Affairs, and Academic Audit and Quality Control.