



INSTITUTE OF AERONAUTICAL ENGINEERING

DUNDIGAL – 500 043, HYDERABAD

PLACEMENT AND TRAINING CENTRE

Information to the Students on Co-Cubes Diagnostic Career Test 2015 – 2016

07 August, 2015

Dear students the Co-Cubes Diagnostic Career Test Schedule and Syllabus for 2016 Batch.

Name of Exam	Duration	Date
Quantitative Aptitude Test	60 Minutes	8th August
Analytical Reasoning Test	60 Minutes	10th August
English Usage Test	60 Minutes	11th August
Employability Aptitude Test	60 Minutes	12th August
Domain Test	30 Minutes	13th August
Coding Test	60 Minutes	13th August

Please find the below detailed syllabus for **Career Test Program**:

Ø **Quantitative Aptitude Test:** (60 Minutes)

Concepts of mathematics including Time & Work, Speed & Distance, Algebra, Equations, Progressions, Profit & Loss, Ratios, Averages, Geometry, Data Interpretation, Probability, Venn diagram, Statistics, Interest, Profit loss, Ratio, Percentages, Number Systems, Mensuration, Trigonometry.

Ø **Analytical Reasoning Test:** (60 Minutes)

Visual Reasoning, Statement & Conclusions, Relationships, Logical Reasoning, Attention to Details, Flowcharts, Data sufficiency, Coding-decoding, Series, Odd one out, Analogies.

Ø **English Usage Test:** (60 Minutes)

Reading Comprehension, Grammar including Articles , Prepositions, Sentence Correction, Speech, Tenses, Verbal Ability including Synonyms, Antonym, Spellings, Idioms and Phrases.

Ø **Domain Test:** (30 Minutes)

- **Civil Engineering:**

RCC Design, Construction Scheduling, Geo-informatics, Hydraulics & Hydraulic Machines, Geotechnical Eng., Water Resource Engineering.

- **Mechanical Engineering:**

Thermodynamics, Fluid Mechanics, Theory of Machines, Kinematics of Machines, I.C. Engines & Compressors, SOM, Engineering material, Meteorology.

- **Electronics Engineering:**

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

- **Electrical Engineering:**

Electrical Machines, High Voltage Engineering, Network Analysis & Synthesis, EMMI, Control System, Elements of Power System, Digital Electronics, Power Electronics.

- **Computer Science & IT Engineering:**

C, C++, OOPS Concepts, Data Structures, DBMS concepts, Operating System Concepts, Design and Analysis of Algorithms, Networking Concepts, Computer Architecture.

- **Employability Aptitude Test:** (60 Minutes)

Is a comprehensive test including Quantitative, Analytical and English.

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

For any further clarifications, contact Prof. L V Narasimha Prasad, Placement and Training officer

Date: 07 August, 2015

Director and PAT Officer

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.