



**Sandip Foundation's
Sandip Institute of Technology and Research Centre, Nashik
Department of Computer Engineering**

Activity Report

On

“Quantitative Aptitude and Reasoning”

(1st – 8th July 2013)

Organized by,

**Sandip Foundation's
Sandip Institute of Technology and Research
Center**

Department of Computer Engineering



Sandip Foundation's
Sandip Institute of Technology & Research Centre, Nashik
Department of Computer Engineering

Activity Report on “Quantitative Aptitude and Reasoning ”

Name of Resource Person: Mr. Rohit Runwal

Duration of Course: 32 Hrs.

Date:- 1st July to 8th July

2013

Class: TE Computer

Venue:- Computer Center, SITRC

Aim: Guide students to choose right career and to give knowledge, skill and aptitude and meet the manpower requirements of the Industry.

Objectives:

After thorough learning of Quantitative Aptitude and Reasoning, a student:

1. To critically evaluate various real life situations by resorting to Analysis of key issues and factors.
2. To understand various language structures.
3. To demonstrate various principles involved in solving mathematical problems and thereby reducing the time taken for performing job functions.

Outcome:

After thorough learning of Quantitative Aptitude and Reasoning, a student:

1. Will be able to critically evaluate various real life situations by resorting to Analysis of key issues and factors.
2. Will be able to read between the lines and understand various language structures.
3. Will be able to demonstrate various principles involved in solving mathematical problems and thereby reducing the time taken for performing job functions.

Course Structure:

Sr. No.	Content	Duration (in Hrs.)	
1	Chapter 1: Simple equations, Ratio, Proportion, Variation, Percentages		
1.1	Simple equations	2	
	<ul style="list-style-type: none">• Definition of Linear Equations		
	<ul style="list-style-type: none">• Formation of simple equations		
	<ul style="list-style-type: none">• Problems on Ages, Fractions and Digits		
	<ul style="list-style-type: none">• Indeterminate system of equations		
1.2	Ratio and proportion	2	
	<ul style="list-style-type: none">• Definition of Ratio		
	<ul style="list-style-type: none">• Properties of Ratios		
	<ul style="list-style-type: none">• Comparison of Ratios		
	<ul style="list-style-type: none">• Problems on Ratios		
	<ul style="list-style-type: none">• Compound Ratio		
1.3	Variation	2	
	<ul style="list-style-type: none">• Direct variation		
	<ul style="list-style-type: none">• Inverse variation		
	<ul style="list-style-type: none">• Joint variation		
2	Chapter 2: Percentages, Profit and loss, Partnership, Simple interest and Compound interest, Quadratic equations, progressions		
	Percentages	2	
	<ul style="list-style-type: none">• Introduction		
	<ul style="list-style-type: none">• Converting a percentage into decimals		
	<ul style="list-style-type: none">• Converting a Decimal into a percentage		
<ul style="list-style-type: none">• Percentage equivalent of fractions			
2.1	<ul style="list-style-type: none">• Problems on percentages	2	
	Profit And Loss		2
	<ul style="list-style-type: none">• Problems on Profit and Loss percentage		
	<ul style="list-style-type: none">• Relation between Cost Price and Selling price		
<ul style="list-style-type: none">• Discount and Marked Price			
2.2	<ul style="list-style-type: none">• Two different articles sold at same Cost Price	2	

	<ul style="list-style-type: none"> • Two different articles sold at same Selling Price • Gain% / Loss% on Selling Price 	
2.3	Partnership <ul style="list-style-type: none"> • Introduction • Relation between capitals, Period of investments and Shares 	2
2.4	Simple Interest <ul style="list-style-type: none"> • Definitions • Problems on interest and amount • Problems when rate of interest and time period are numerically equal 	2
2.5	Compound Interest <ul style="list-style-type: none"> • Definition and formula for amount in compound interest • Difference between simple interest and compound interest for 2 years on the same principle and time period. 	2
2.6	Quadratic equations <ul style="list-style-type: none"> • General form of Quadratic equations • Finding the roots of Quadratic equations • Nature of the roots • Relation between the roots • Maximum and minimum value of Quadratic Expression 	2
2.7	Progressions <ul style="list-style-type: none"> • Arithmetic Progression • Geometric Progression • Harmonic Progression • Arithmetic Mean, Geometric Mean and Harmonic Mean and their relation. 	2
<u>Syllabus for Reasoning</u>		
3	Chapter 3:	
3.1	Deductions <ul style="list-style-type: none"> • Finding the conclusions using Venn diagram method • Finding the conclusions using syllogism method 	2
3.2	Connectives <ul style="list-style-type: none"> • Definition of a simple statement • Definition of compound statement • Finding the Implications for compound statements • Finding the Negations for compound statements 	2

4	Chapter 4:	
4.1	Analytical Reasoning puzzles	2
	• Problems on Linear arrangement	
	• Problems on Circular arrangement	
	• Problems on Double line-up	
	• Problems on Selections	
	• Problems on Comparisons	
5	Chapter 5:	
5.1	Clocks	2
	• Finding the angle when the time is given	
	• Finding the time when the angle is known	
	• Relation between Angle, Minutes and Hours	
	• Exceptional cases in clocks	
5.2	Calendars	2
	• Definition of a Leap Year	
	• Finding the number of Odd days	
	• Framing the year code for centuries	
	• Finding the day of any random calendar date	
5.3	Blood relations	2
	• Defining the various relations among the members of a family	
	• Solving Blood Relation puzzles	
	• Solving the problems on Blood Relations using symbols and notations	

List of Registered Student:

Sr. No.	Name of Student
1	AGRAWAL SHEFALI GOPAL
2	AHER AMRUTA SURESH
3	AHER SNEHAL PRAVIN
4	AHIRE ASHWINI SUBHASH
5	AHIRE KAMINI VITTHAL
6	AHIRE NEHA SHIVAJI
7	BARAD SUSHANT SHIRISH
8	BHAMRE KISHANKUMAR JAYVANT
9	BHAMRE PRAJAKTA RAJENDRA
10	BHANGALE NEHA SHAMKANT
11	CHAHIRA BHARTI TIRTH
12	CHAUDHARI UMESH MULCHAND
13	CHAUHAN RUTUJA GANPATBHAI
14	DAS GAUTAMI BRAJABANDHU
15	DAWARE KAVITA DADAJI
16	DESHMUKH ASHISH PRADEEP
17	DHATRAK CHHAYA CHHABU
18	DHATRAK TEJASWINI NARAYAN
19	DUKALE SHUBHANGI NIVRUTTI
20	GAIKWAD LALITA SUBHASH
21	GHOTANE SHWETA RAVINDRA
22	JADHAV JYOTI RANGANATH
23	JADHAV SANDEEP BHAUSAHEB
24	JONDHALE ASMITA RAMESH
25	KAPOTE MAYURI DILIP
26	KASAR DHANSHREE SHARAD
27	KAWALE SANDHYA VIJAY
28	KHAIRNAR PALLAVI NIMBA
29	KHARJUL RUPESH ASHOK
30	KHARPATE VISHAKHA VIRENDRA
31	KHUBANI TUSHAR JAIKISHAN
32	KOTHAWADE SACHIN PRAKASH
33	KUDI POOJA TRILOKARAM
34	KULKARNI YOGESH PURUSHOTTAM
35	KURUP ANURAJ RAJASEKHARA
36	MAHALE DEVYANI SURESH
37	MAHALE VIRESHKUMAR SUBHASH
38	MANDLEKAR VIRAJ GIRISH
39	MANGELA DEEPAK V
40	MATSAGAR SANGRAM BALASAHEB
41	MADANE SAURABH RAVINDRA
42	MAHAJAN SANKET BALASAHEB
43	MALAVIYA AKANSH RAJENDRA
44	MEMANE MEGHANA MANIK
45	MORE HARSHAL BABURAO

46	MOULE PRITEE SUDAM
47	NIKAM TEJAS MAHESH
48	PANSARE PRATIBHA ASHOK
49	PARDESHI SUSHANT SUNIL
50	PATEL RAJKANNYA RAVINDRA
51	PATIL BHUSHAN NANDKISHOR
52	PATIL MAITREYEE VIJAY
53	PATIL PAWAN RAJENDRA
54	PATIL VISHAL PUNDALIK
55	PATTA RAJENDRA ADIKAND
56	PAWAR DIPALI VISHNU
57	RADE POOJA VILAS
58	RAIS MAAZ SHAD
59	SANCHETI SANKET SATISH
60	SHAH BHAVIKA PARESH
61	SHAIKH FAIZAN FAROOK
62	SHAIKH FARHEEN YUNUS
63	SHAIKH YUNUS SADIQUE
64	SHARMA CHARU SANDIP
65	SHINGADE MAHENDRA CHINTAMAN
66	SHIRSATH PRATIBHA DAYANAND
67	SHIRSAT SAURABH RATNAKAR
68	SONAWANE NAYAN NARENDRA
69	SRIVASTAVA SAURABHKUMAR VIJAYKUMAR
70	SWAMI CHANDRASHEKHAR PRABHAKAR
71	TALOLE AKASH DILEEP
72	TAORI GAURAV PRADEEP
73	THAKARE AARTI RATNAKAR
74	TUNGAR VINIT KESHAV
75	VARMA NIKHIL SATISH
76	VINCHURKAR SHANTANU SATISH
77	WADHWA APEKSHA ANILKUMAR
78	WAGH DIKSHA DILEEP
79	WAGH MONIKA VINAYAK
80	WANI AKSHAY YOGESH
81	WANI DHIRAJ RAGHUNATH

Photographs:



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