



**Lesson Plan – 2015**  
B. Tech (II Semester)

Course Code	15PD106
Course Name	Aptitude – I (Foundation)
Prerequisite	NIL
Category	General (G)

Instructional objects No	Instructional objects
1	Build a strong base in the fundamental mathematical concepts
2	Grasp the approaches and strategies to solve problems with speed and accuracy
3	Gain appropriate skill to succeed and preliminary selection process for recruitment
4	Collectively solve problems in teams and groups
5	Enhance lexical skills through systematic application of concepts and careful analysis of style, usage, syntax, semantics and logic
6	Build vocabulary through methodical approaches and nurture passion for learning new words
7	Hone critical thinking skills by analyzing the argument, with explicit and implicit premises to validate the author's point of view
8	Sharpen logical reasoning through skillful conceptualization, identification of relationships between words based on their function, usage and characteristics

**Student Outcomes**

Student Outcome number	Student Outcome
a	An ability to apply knowledge of mathematics, science and engineering
e	An ability to function on multidisciplinary teams
i	A recognition of the need for, and ability to engage in life-long learning
d	An ability to identify, formulate and solve engineering problems
g, i	A recognition of the need for, and an ability to engage in lifelong learning
g, i	An ability to communicate effectively
i	A knowledge of contemporary issues
i	An ability to function on multidisciplinary team

Lecture No	Topic	Instructional objectives	Student Outcome	Reference
	NUMBERS Types of	Build a strong base in the fundamental mathematical	a,i	Agarwal.R.S – Quantitative Aptitude for

1 to 6	<p>Numbers, Divisibility Test, LCM, GCD, Unit digit, No. of zeroes</p> <p>Vocabulary Enrichment</p>	<p>concepts</p> <p>Gain appropriate skills to succeed in preliminary selection process for recruitment</p> <p>Build vocabulary through methodical approaches and nurture passion for learning new words</p>	g, i	<p>Competitive Examinations, S Chand Limited 2011</p> <p>Abhijit Guha, Quantitative Aptitude for Competitive Examinations, Tata Mcgraw Hill, 3rd Edition</p> <p>Norman Lewis, Word Power Made Easy, WR Goyal Publicaitons, 2011</p> <p>S.Chang Publications</p>
7 to 12	<p>Numbers Square root , cube root, remainder, identities, fraction and decimals, surds</p> <p>Contextual vocabulary, Word Analogy</p>	<p>Grasp the approaches and strategies to solve problems with speed and accuracy</p> <p>Build vocabulary through methodical approaches and nurture passion for learning new words</p>	a, i  g, i	<p>Agarwal.R.S – Quantitative Aptitude for Competitive Examinations, S Chand Limited 2011</p> <p>Merriam Webster’s Vocabulary Builder, Merriam Webster Mass Market, 2010</p>
13 to 18	<p>Percentages, Profit &amp; Loss</p> <p>Sentence Completion, Cloze test</p>	<p>Build a strong base in the fundamental mathematical concepts</p> <p>Gain appropriate skills to succeed in preliminary selection process for recruitment</p> <p>Sharpen logical reasoning through skillful conceptualization, identification of relationships between words based on their function, usage and characteristics</p>	a, i  i	<p>Agarwal.R.S – Quantitative Aptitude for Competitive Examinations, S Chand Limited 2011</p> <p>Thorpe Edgar and Thorpe showich , objective English. Pearson Educations 2012</p>
19 to 24	<p>Discount, Simple Interest, Compound Interest,</p> <p>Installments.</p>	<p>Gain appropriate skills to succeed in preliminary selection process for recruitment</p> <p>Hone critical thinking skills by</p>	i	<p>Abhijit Guha, Quantitative Aptitude for Competitive Examinations, Tata Mcgraw Hill, 3rd Edition</p> <p>Edgar Thrope, Test Of</p>

	Reading techniques for competitive examinations, Summary and main idea	analyzing the argument, with explicit and implicit premises to validate the author's point of view	i	Reasoning For Competitive Examinations, Tata Mcgraw Hill, 4th Edition
25 to 30	Logarithms, Linear Equations  Functional grammar	To improve aptitude problem solving skills and reasoning ability of the student  Enhance lexical skills through systematic application of concepts and careful analysis of style, usage , syntax, semantics and logic	a  g,i	Agarwal.R.S – Quantitative Aptitude for Competitive Examinations, S Chand Limited 2011  Hari Mohan Prasad, Verbal Ability for Competitive Examinations, Tat McGraw Hill publications

### TEXT BOOK

Dinesh Khattar- The Pearson Guide to Quantitative aptitude for competitive examinations

Hari Mohan Prasad, Verbal Ability for Competitive Examinations, Tat McGraw Hill publications

### Reference Books

1. Agarwal.R.S – Quantitative Aptitude for Competitive Examinations, S Chand Limited 2011
2. Abhijit Guha, Quantitative Aptitude for Competitive Examinations, Tata Mcgraw Hill, 3rd Edition
3. Edgar Thrope, Test Of Reasoning For Competitive Examinations, Tata Mcgraw Hill, 4th Edition
4. Dinesh Khattar- The Pearson Guide to Quantitative aptitude and Data Interpretation for the CAT, by Nishit K Sinha
5. Manhattan GMAT – Critical Reasoning GMAT Strategy Guide, 12th Edition
6. Norman Lewis, Word Power Made Easy, WR Goyal Publicaitons, 2011
7. Thorpe Edgar and Thorpe showich , objective English. Pearson Educations 2012
8. R.S Aggarwai, A modern Approach to verbal & Non verbal Reasoning. S.Chang Publications
9. Manhattan Prep GRE: reading comprehension and essays, 5th Edition
10. Merriam Webster's Vocabulary Builder, Merriam Webster Mass Market, 2010

### ON-LINE RESOURCES

1. [www.indiabix.com](http://www.indiabix.com)
2. [www.lofoya.com](http://www.lofoya.com)

3. [www.careerbless.com](http://www.careerbless.com)
4. [www.achieversforce.com](http://www.achieversforce.com)

Faculty member handling:

Section	Faculty Name	Signature
MECH A, CSE A	Ms. A.N. Revathi	
CSE B, CSE C, ECE A	Mr. A. Mathivanan	
CSE C, MECH A, ECE A	Ms. V. Parkavi	
CSE A, CSE B	Ms. K.G. Jaishri	