



**WAVOO WAJEEHA WOMEN'S COLLEGE
OF ARTS & SCIENCE - KAYALPATNAM**

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)
Run by Wavoo SAR Educational Trust
(Minority Institution)



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| Course Title: Reasoning | | Department : Mathematics | |
| Total Hours : 30 Hours | | Credit: 2 | |
| Course Pre-requisites/ Co-requisites | Basic Knowledge in Mathematics | | |
| Objectives: | <div><div>1.</div><div>Evaluate both deductive and inductive arguments, and identify fallacies in argumentative discourse.</div></div> <div><div>2.</div><div>Make sound arguments based on mathematical reasoning and/or careful analysis of data.</div></div> <div><div>3.</div><div>Effectively communicate the substance and meaning of mathematical problems and solutions.</div></div> | | |
| Expected Learning Outcome: | <div>On completion of the course, students will have the ability to</div> <div><div>1.</div><div>Solve practical problems using appropriate mathematical techniques.</div></div> <div><div>2.</div><div>Demonstrate and apply critical thinking skills to solve a variety of problems.</div></div> <div><div>3.</div><div>Utilize a systematic approach to problem solving.</div></div> <div><div>4.</div><div>Use appropriate computer technology and software to perform analysis and calculations.</div></div> | | |
| Module No. 1 | Alphanumeric Series & Blood Relations | 6 Hours | |
| Missing Series , Alphabet - Number – Symbol , only Alphabetic Series , only Numerical – Series – Jumbled descriptions , Relational puzzle , Coded relations –,Miscellaneous equations | | | |
| Module No. 2 | Calendar | 6 Hours | |
| A basic structure of a calendar and concept of an odd day , Decoded days of the weeks , Evaluation of a leap year , Evaluation of odd days in a century ,Type I problems , Type II problems , Type III problems. | | | |
| Module No. 3 | Coding - Decoding | 6 Hours | |
| Alphabet coding , Numerical coding , Symbol based coding , Alphabet – symbol – Numerical coding , values coding | | | |

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| Module No. 4 | Puzzles & Odd one out | 6 Hours |
| Classify among words and people , classify among pair of word , odd one out among set , floor – based puzzles ,Tabular puzzles , Miscellaneous puzzles | | |
| Module No. 5 | Clocks & Seating arrangement | 6 Hours |
| The right and left directional movements , the directional reference point , the direction of sun rays and shadow , the correct map v/s wrong map , directions in clocks , directions in seating arrangement , linear arrangement , circular arrangement , Miscellaneous arrangements | | |
| Text Books 1. R.S.Agarwal – A Modern approach to Verbal & Non – Verbal Reasoning by S.Chand& Co Ltd. 8 th Edition January 1 2018 2. How to crack test of Reasoning ,Published by Arihant Publications. Revised Edition 1 st April 2017 | | |
| References 1. An Advanced Approach to Reasoning Verbal & Non – Verbal for Competitive Examinations, Published by Oswal Printers & Publishers Pvt. Ltd.; 2020th edition (1 July 2020); - info@oswalpublishers.in 2. BS Sijwali . Indhu Sijwali – A New Approach to REASONING Verbal & Non Verbal Analytical, Published by Arihant Publications, 2 nd Edition 1 st January 2014 3. R. Agarwal I S Chauhan – Verbal & Logical Reasoning, Published by Agarwal Examcat Latest Edition 14 th December 2021 4. Geevargheese K. Mathews – Authentic Approach to Verbal & Non Verbal REASONING, Published by The Walnut Books New edition 14 th December 2021 | | |
| Web References 1. www.indiabix.com 2. www.testpot.com 3. www.freedu.in 4. www.sawaal.com 5. www.careerbless.com | | |
| Mode of Evaluation | Practice Tests-40%,Continuous Assessment Tests-60%, Assessment Test-1 20% Assessment Test-2 20% Assessment Test-3 20% | |
| Course Coordinator | Ms. M. Kavitha | |
| Course Advisor | Dr. A. Sudha | |