

## SEMESTER - III

### PGTRA22 - TEACHING AND RESEARCH APTITUDE

|                                    |                               |  |                              |                                |            |                |                               |
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| <b>Year: II</b><br><b>Sem: III</b> | <b>Course Code</b><br>PGTRA22 | <b>Title of the Course</b><br>Teaching and Research Aptitude | <b>Course Type</b><br>Theory | <b>Course Category</b><br>Core | <b>H/W</b> | <b>Credits</b> | <b>Marks</b><br>40+60<br>=100 |
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#### Unit I – Teaching and Research Methodology

- 1.1 Teaching : Nature, objectives, characteristics and basic requirements
- 1.2 Learner's Characteristics
- 1.3 Factor's affecting teaching, methods of teaching, Teaching aids and Evaluation System
- 1.4 Research, meaning, characteristics and types
- 1.5 Steps of research and methods of research
- 1.6 Paper, article, workshop, conference and symposium, thesis writing, its Characteristics and format

#### Unit II – Reading Comprehension and Communication

- 2.1 Reading Comprehension
- 2.2 Passage to be set with questions to be answered
- 2.3 Communication, its nature, characteristics and objectives
- 2.4 Types and barriers of communication
- 2.5 Effective classroom communication
- 2.6 Mass media and society

#### Unit III – Reasoning ability and Data Interpretation

- 3.1 Number series and Letter Series
- 3.2 Codes, Relationships and Classification
- 3.3 Verbal Analogies, Inductive and Deductive Reasoning
- 3.4 Sources, acquisition and interpretation of data
- 3.5 Quantitative and Qualitative data
- 3.6 Graphical representation and mapping of data

## **Unit IV – Information and Communication Technology**

- 4.1 General abbreviations in ICT
- 4.2 ICT – Terminologies
- 4.3 Basics of Internet and Intranet
- 4.4 Basics of E-mail – Audio and Video conferencing
- 4.5 Digital Initiatives in Higher Education
- 4.6 ICT and Governance

## **Unit V – People Development and Environment**

- 5.1 Development and Environment
- 5.2 Human and environment interaction
- 5.3 Environmental issues
- 5.4 Natural and energy resources
- 5.5 Natural hazards and disasters
- 5.6 Environmental Protection Act and Action Plan