

**2.7: Mental Ability & Reasoning**  
**Course Code: M2ABS07AT13**

**UNIT I**

Verbal reasoning

General mental ability:- series completion; classification; coding-decoding; blood relations; puzzle test; sequential output tracing; direction sense test; logical venn diagrams; alphabet test; alpha – numeric sequence puzzle; number, ranking & time sequence test; logical sequence of words; inserting the missing character.

**Unit II**

Verbal reasoning

Logical deduction:- logic; statement – arguments; statement – assumption; statement – courses of action; statement – conclusions; deriving conclusions from passages; theme detection; cause and effect reasoning. Data sufficiency; eligibility test; assertion and reason; situation reaction test; verification of truth of the statement

**Unit III**

Non-verbal reasoning

General mental ability:- series; analogy; classification; analytical reasoning; mirror-images; water-images; spotting out the embedded figures; completion of incomplete pattern; figure matrix; paper folding; paper cutting; rule detection; grouping of identical figures; cubes and dice; dot situation; construction of squares and triangles; figure formation & analysis.

**Unit IV**

Non- verbal reasoning

Logical deduction:- logic; statement – arguments; statement – assumption; statement – courses of action; statement – conclusions; deriving conclusions from passages; theme detection; cause and effect reasoning. Data interpretation:-charts (column, pie & bar) ; tables; graphs (line & area); venn diagram; data sufficiency.

**Unit V**

Arithmetic

H.c.f. & l.c.m. of numbers; decimal fractions; square root & cube root; average; problems on ages; percentage; profit & loss; ratio & proportion; partnership; time & work; time & distance; problems on trains; simple interest; compound interest; area; volume & surface areas; true discount; stock & shares; calendar; clocks; heights & distance; number series.