Paper Code: PS02FIIT02		Total Credit: 2
Title Of Paper: Mathematics - II		
Unit	**Description in detail**	**Weightage (%)**
I	**Set theory** Set operations, Algebra of sets: Finite sets, power sets, Mathematical induction,Symmetric differences, Functions: Composition functions, one to one, onto and invertible function. Recursively defined functions, Polynomial functions	25%
II	**Algebraic System** Binary operations, Semigroups, Groups, Homomrphism, Rings, Integral domains, Fields.	25%
III	**Combinatorial Analysis** Counting principle, binomial coefficients, permutations and combinations.	25%
IV	**Data Analysis** Measures of dispersions: range; quartile deviation; mean deviations, tandard deviations; measure of skewness; Correlation, Regression : method of least square.	25%

Basic Text & Reference Books:-

S.Lipschutz and Marc Lars Lipson : Discrete Mathematics, Schaum's series(Interational edition,1992).
Vinay Kumar: Discrete Mathematics (BPB Publication,First edition-2002)
S. C. Gupta, Fundamentals of Statistics, Himalaya Publishing House, 2004