## Specific to Computer Application:

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|---|---|---|
| **Discrete Mathematics** | : | Set, Posets, Relations, Recurrence relations, Functions, Combinatories, Lattices, Boolean Algebra |
| **Numerical Methods** | : | Numerical solution of linear and non-linear equations, Interpolation, Numerical Differentiation & Integration, Numerical solution of ordinary and partial differential equations |
| **Statistical Methods** | : | Theory of Probability, Binomial, Poisson & Normal Distributions, Correlation and Regression, Tests of Hypothesis. |
| **Optimization** | : | Linear programming and its solution, Project Management: CPM & PERT, Queuing models, Inventory models, Assignments & Transportation Problems, Dynamic Programming |
| **Web technology & E Commerce** | : | Electronic Commerce and physical Commerce, Different type of e-commerce, e-commerce scenarios, advantages of e-commerce. Business models: Feature of B2B e-commerce, Business models, Integration. E-Services: category of e-services, Web- enabled services, Matchmaking services, information-selling on the web. Internet payment system , SET Protocol for credit card payment , E-Governance ,WAP Architecture. |
| **Data Mining** | | : Data integration models and algorithms, Graphical models, Information extraction and retrieval, Forecasting and smart e-business, , Text and Web data mining. |
| **Middleware Technologies** | | : Exposure to Markup languages, HTML,DHTML, VRML, SGML, XML etc. CGI, Applets & Servlets ,Distributed objects, object request brokers, component technology ,CORBA . |