## MG FM413

## **13. FINANCIAL ENGINEERING**

**UNIT I:** Introduction – Scope – Financial Engineering Team, Productizing the solution Financial Engineering Versus Fianncial Analysis – Factors contributing to the growth Financial Engineering – Knowledge Base Of Financial Engineer.

**UNIT II:** Conceptual Tools of the Financial Engineer – Value relationships and applications Measuring return, risk – Understanding interest rates and exchange rates.

**UNIT III:** Physical tools of the Financial Engineer – Product Development – Models – Design Testing – Designing Futures and Forwards – Swaps – Options – Its types – Fixed incom securities.

**UNIT IV:** Financial Engineering Process and Strategies – Evolution of ALM (Asset – Liabilit Management), Hedging – Building Block Approach.

Arbitrage and Synthetic Instruments.

**UNIT V:** Future Trends – Impact of Globalisation – Recent Advances in settlement and clearin – Legal Projections for Innovative Financial Products and Services.

## **References:**

John F. Marshall & Vipul K. Bansal *Financial Engineering – A complete guide to Financia Innovation*, Prentice Hall India.