**UCT642: ENTERPRISE SYSTEMS (MST Syllabus)**

**Introduction to Modern Enterprise Systems**: Introduction to enterprise systems. Elements of enterprise systems – Business Information system, Decision support systems, Knowledge management systems, Financial and human resource systems. Kinds of Enterprise systems- B2C and B2B models.

**Components of Enterprise systems:** Channels (Mobile, web, desktop, partner integration), Data management, workflow, Controlling and Auditing, Accounting etc.

**Sample Enterprise systems:** ERP, SCM, CRM, Product Life cycle management (PLM), HR Systems (HRM), GL systems.

**Key characteristics Enterprise systems:** Distributivity, Managed redundancy, Exception processing, Collaboration, Data transformation.

**Enterprise System architectures**: Batch processing, Monolithic, client server, ecommerce, service oriented, microservice, and cloud architectures.

**Introduction to Enterprise Application architectures:** Layer Architecture, Event driven Architecture, Service oriented Architecture, Microservice architecture, Plug-in architecture

**Application architecture Patterns:** Layering, Organizing domain logic, Mapping to database, Web Presentation, Concurrency.