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Course-202-2 : Emerging Trends and Applications in IT (ET & IT)

Course Content	
	Unit 1. Software Fundamentals
	1.1. What is software
	1.2. Types of software (System and Application Software)
	1.3. System Software Fundamentals.
	1.4. Application software fundamentals.
	1.5. Purpose of Application software
	1.6 Stand-alone Application software
	1.7 Multi-user Application Software
	1.8 Client-server Architecture concepts.
	Unit 2. Web Oriented User Interactive Applications
	2.1. What is website
	2.2. Purpose of Website
	2.3. Working of interactive websites.
	2.4. Various software and tools used to develop static and interactive websites.
	2.5 Working of online transactions
	Unit 3. Case Study-1 :
	3.1. Study of design and application of popular websites. [Purpose of this unit is to show Live demo of various sites andintroduce their various features during class room teaching.]
	3.1.1 Online product shopping websites: Case Study of Amazon, Snapdeal, Flipkart.
	3.1.2. Online reservation system : Case study of Railway Reservation System (IRCTC), Bus Reservation System (GSRCT).
	3.1.3 Online transactions processing
	3.2 Online Payments:
	3.2.1 Security measures of online payment system.
	3.2.2 Payment gateway
	3.2.3 Concepts of NEFT, RTGS, IMPS
	3.2.4 Online Payment Systems using mobile apps like PayTm,BHIM
	3.2.5 Online payments process through Credit and Debit Cards.

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Unit 4. Case Studies of Application Software (Any live System should be shown as case study):

4.1. Production planning Application software system

4.2. Accounting Application software system

4.3. Inventory Applications:

4.4. Mobile Application

4.4.1 Fundamentals of mobile Applications

4.4.2 Concepts of mobile apps and their OS(iOS, Android)

Unit 5. Emerging Trends in IT

[Purpose of this unit is to give only Fundamental knowledge aboutthe terminologies and emerging concepts of these technologies]

5.1. Emerging trends and Buzz words (Only Basic concepts)

5.1.1 Concepts of ERP (Fundamentals and importance)

5.1.2 ETL concepts (Extraction, Transformation, Loading)

5.1.3 Concepts of Data Warehousing

5.1.4 Concepts of data science and its application areas.

5.1.5 Concepts of Data Analytics and related tools

5.1.6 Concepts of Business Analytics

5.1.7 Concepts of cloud

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