

Course: EC – 2 - 202: Emerging Trends and Applications in ICT

Course Code	202(Elective Course Paper)
Course Title	Emerging Trends and Applications in ICT
Credit	3
Teaching per Week	3 Hrs
Minimum weeks per Semester	15 (Including Class work, examination, preparation etc.)
Review / Revision	June 2017
Purpose of Course	<p>Technology changes very frequently. The Information technology and software industry is emerging at very fast pace. Aim of this course is to provide</p> <ol style="list-style-type: none"> 1 fundamental knowledge about emerging trends in Information & Communication Technology 2 Study about Designing and implementation concepts of Application software & their applicability. 3 Students acquire concepts and knowledge about designing professional and commercial application softwares.
Course Objective	<p>(i) To Provide fundamental information regarding the emerging trends of ICT industry.</p> <p>(ii) To provide basic knowledge about emerging trends and related buzz words of ICT Industry.</p> <p>(iii) To provide basic knowledge and glimpses about readymade software applications, their design and application areas.</p>
Pre-requisite	None
Course Out come	After learning this subject student will be able to know the concepts of emerging Information Technology and ready made software.
Course Content	<p>Unit 1. Software Fundamentals</p> <ol style="list-style-type: none"> 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. <p>Unit 2. Web oriented User Interactive applications</p> <ol style="list-style-type: none"> 2.1 What is website 2.2 Purpose of website 2.3 Working of interactive websites 2.4 Various softwares and tools used to develop static and interactive websites 2.5 Working of online transactions <p>Unit 3. Case Study-1</p> <ol style="list-style-type: none"> 3.1 Study of design and applications of popular websites

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	<p>[Purpose of this unit is to show Live demo of various sites and introduce their various features during class room teaching.]</p> <ul style="list-style-type: none">3.1.1 Online product shopping websites : Case study of Amazon, Snapdeal, Flipkart3.1.2 Online reservation system: Case study of Railway reservation(IRCTC), Bus reservation (GSRCT)3.1.3 Online Product shopping System: BigBasket, mithai4all3.1.4 Online transactions processing <p>3.2 Online payments</p> <ul style="list-style-type: none">3.2.1 Security measures of online payment systems3.2.2 Payment gateway3.2.3 Concepts of NEFT, RTGS, IMPS3.2.4 Online payments systems using Mobile apps like PayTm , BHIM3.2.5 Online payments process through Credit and Debit Cards <p>Unit 4. Case Studies of Application Software (Any live system should be shown as case study)</p> <ul style="list-style-type: none">4.1 Production planning Application software system4.2 Accounting Application software system4.3 Inventory Application software system4.4 Mobile applications<ul style="list-style-type: none">4.4.1 Fundamentals of mobile applications4.4.2 Concepts of mobile apps and their OS (iOS, Android)4.4.3 Comparison of mobile OS and stand alone traditional OS4.4.4 Comparison of mobile apps and web Apps <p>Unit 5. Emerging Trends in IT</p> <p>[Purpose of this unit is to give only fundamental knowledge about the terminologies and emerging concepts of these technologies]</p> <p>5.1 Emerging trends and Buzz words (only Basic Concepts)</p> <ul style="list-style-type: none">5.1.1 Concepts of ERP (Fundamentals and importance)5.1.2 ETL Concepts: (Extraction, transformation, and loading).5.1.3 Concepts of data warehousing5.1.4 Concepts of data science and its application areas5.1.5 Concepts of data analytics and related tools5.1.6 Concepts of business analytics5.1.7 Concepts of cloud
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Reference Book	<ol style="list-style-type: none">1. E-Commerce : An Indian Perspective, 3rd Edition - Joseph PHI2. Frontiers of of Electronic Commerce Kalakota and Whinstn Addition Wesley3. Computer Fundamentals: Pradeep K. Sinha & Priti Sinha (BPB)4. Fundamentals of Computers: V. Rajaraman
Teaching Methodology	Class Work, Discussion, Self Study, Seminars and/or Assignments
Evaluation Method	30% Internal assessment. 70% External assessment.

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