<u>Centre for Management Studies</u> Dibrugarh University

Course Code	: 10700			
Course Name	: Computer Applications in Management			
Course Type	: Core			
Prerequisites : None				
Objective	: The course has been designed to develop an appreciation for the computer and the way it affects any business environment. It seeks to make the to-be manager confident in handling the computer and use it in his/her day-to-day activities effectively			
Credit	: 4 (3 – 0 – 1)			
Pedagogy	: Lectures, Presentations & Practical-s			
Evaluation	: Internal assessment: 40 marks (2 Sessional Examinations – 5 marks each totaling 10 marks, Practical – 15 marks, Seminar – 10 marks, Class Participation – 5 marks); End Semester Examination: 60 marks			
Instructor Web links	: Himadri Barman (himadri@cmsdu.org) : http://himadri.cmsdu.org, https://clasroom.google.com			

Unit	Topics	No. of Lectures	No. of Tutorials	No. of Practical-s
1	Computer Systems – Number Systems, Computer History, Hardware and Software	3	0	12
2	Information Technology – Basic Concepts, Networks, Internet, Security	14	0	2
3	Business Data Processing & Business Systems	8	0	2
4	Latest Advancements in Technology, Ethics, Cyber Crime and Legislation	2	0	0
5	Introduction to Programming – flowcharting, algorithm development, program development	8	0	10
6	Elementary Data Structures – linear and non- linear data structures, searching, sorting	7	0	2

Total Lectures	: 42
Total Tutorials	: 0
Total Practical-s	: 28

Suggested Readings:

- 1. Foundations of IT and Computers (2nd Edition) Himadri Barman, Mahaveer Publications
- 2. Fundamentals of Computers V Rajaraman, PHI
- 3. Introduction to Information Technology ITL ESL, Pearson
- 4. DOEACC 'O' Level Course Books

Detailed Course Outline

Unit 1* (1 – 3):

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Introduction to the computer as an important business tool in terms of its three important functions – storage, processing and communication; Overview of the development of computers till date (3); Classifying the computer; Understanding the digital computer – role of number systems, von Neumann Architecture, Constituents of the Computer System – Hardware, Software and Users; Hardware and Software Classification;

Unit 2:

Introducing IT with relation to computers (4), Basics of Data Communication – data transmission modes, analog and digital signals, modulation, multiplexing, switching (5 - 9); Computer Networks – OSI Model, topologies, access methods, media, network types and devices (10 - 13); Internet – TCP/IP, services, netiquettes (14 - 16); Security – tools and techniques (17)

Unit 3:

Business Data Processing – functions, modes, business files and organizations, file processing (18 – 19); Information Systems (20 – 21); Internet enabled Business Systems – uses and benefits, Intranets and Extranets (22); E-business (23); M-business & Apps (24 - 25); Big Data (26)

Unit 4* (27 – 28):

Latest advancements in the field of computers with relation to business, Computer Ethics, Cyber Crimes and the IT Act 2000 / 2008

Unit 5:

Programming Fundamentals – flowcharts and algorithms, process and techniques (29 - 31); Development of simple programs to understand program development and logic [Programming Language to be decided / announced] (32 - 36)

Unit 6:

Understanding Elementary Data Structures – stacks, queues, arrays, linked lists, binary trees, strings and graphs (37 - 39); Searching – sequential and binary search (40); Sorting – selection, bubble, insertion (41 - 42)

Practical:

MS Office 2007/10 – Word and Excel. Simple Program development using any Programming Language

Numbers in the brackets indicate session number. Session Numbers 10, 20, 28, 33, 40 and 48 will be review sessions.

* These units are to be studied on their own by the students. Only a review will be done in the class.