Centre for Management Studies
Dibrugarh University

Course Code : 30100 [MBA (PT)]
Course Name : Information Systems
Course Type : Core
Prerequisites : None
Objective : The main objective of the course is to introduce students to a whole range of Computer Based Information Systems (CBIS) with a good look at managerial issues concerning these.
Evaluation : *Internal assessment*: 40 marks (1 Sessional Examination – 10 marks; 1 Practical Examination – 10 marks, Attendance – 5 marks, Assignment – 15 marks); *End Semester Examination*: 60 marks
Instructor : Himadri Barman (himadri@cmsdu.org; https://himadri.cmsdu.org)

Detailed Course Outline

Unit I: CBIS – definition and types, approaches, scope, management issues and impact thereof, infrastructure, concept of balanced IS, CBIS and MIS – conceptual similarities.

Unit II: Important Steps – SDLC; Database design – ER Modelling, Relational Model, Normalisation (till 3NF); Interface Design – important concepts, guidelines.

Unit III: TPS – need, types and applications; Office Systems – role in knowledge management; MIS – its differentiation as a special type of IS and its role in operations management; SCM – role of IS; CRM – role of IS

Unit IV: DSS – types, components, applications; ESS – benefits, Expert Systems – rule based systems; Artificial Intelligence – basic concepts.

Unit V: Information Systems Security and Control – basic concepts; Web-based Information Systems – infrastructure, intranets and extranets; ERP I & ERP II – basic concepts.

Suggested Books:
1. Barman, H: Foundations of IT and Computers, Mahaveer Publications, Dibrugarh
2. Laudon, K C & Laudon, J P: Management Information Systems: Managing the Digital Firm, Pearson, New Delhi
3. Davis, G B & Olson, M H: Management Information Systems – Conceptual Foundations, Structure and Development, MGH, New Delhi
4. Elmasri, R, Navathe, S B, Somayajulu, D V & Gupta, S K: Fundamentals of Database Systems, Pearson, New Delhi
5. Marakas, G M, O' Brien, J A & Behl, R: Management Information Systems, MGH, New Delhi