

MC5007 HEALTH CARE MANAGEMENT

DETAILED SYLLABUS

OBJECTIVES

- To understand the basic concepts of health care system.
- To know about creating and maintaining health care information systems
- To ensure access of clinical information system on the fly
- To know social media analytics for health care data.
- To learn temporal data mining and visual data analytics for health care.

UNIT I INTRODUCTION

Introduction to health care information – Health care data quality – Health care information regulations, laws and standards.

UNIT II HEALTH CARE INFORMATION SYSTEMS

History and evolution of health care information systems – Current and emerging use of clinical information systems – system acquisition – System implementation and support.

UNIT III INFORMATION TECHNOLOGY

Information architecture and technologies that support health care information systems – Health care information system standards – Security of health care information systems.

UNIT IV MINING AND SOCIAL MEDIA ANALYTICS FOR HEALTH CARE DATA

Resources – Terminology Acquisition and Management – Information Extraction – Text Mining Environments – Applications – Social Media Analysis for Public Health Research – Analysis of Social Media use in Healthcare

UNIT V TEMPORAL DATA MINING AND VISUAL ANALYTICS FOR HEALTH CARE

Association Analysis – Temporal Pattern Mining – Sensor Data Analysis – Introduction to Visual Analysis and Medical Data Visualization – Visual Analytics in Health care – Visual Analytics for Clinicians.

REFERENCES

1. Chandan K. Reddy, Charu C. Aggarwal, "Healthcare Data Analytics", CRC Press, Taylor & Francis Group, 2015.

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Notes
Syllabus
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2. Kevin Beaver, Healthcare Information Systems, Second edition Best Practices, CRC Press, 2002
3. Karen A Wager, Frances Wickham Lee, John P Glaser, “ Managing Health Care Information Systems: A Practical Approach for Health Care Executives”, John Wiley, 2 nd edition 2009.
4. Marion J. Ball Healthcare Information Management Systems: A Practical Guide Springer-Verlag GmbH, 1995 62
5. Marion J. Ball, Charlotte Weaver, Joan Kiel ,”Healthcare Information Management Systems: Cases, Strategies, and Solutions”, Springer, 2010, 3rd edition
6. Rudi Van De Velde and Patrice Degoulet, “Clinical Information Systems: A Component based approach”, Springer 2005