BECITISEM VIII (R)
Data Wavehousing & Mining

(REVISED COURSE)

(3 Hours)

- (1) Question No. 1 is compulsory. N.B. :
 - Attempt any four questions out of remaining six questions.
 - All questions carry equal marks.
- (a) Name any five types of activities that are part of ETL process. Which of these are time consuming? Explain any three. (b)
 - (b) What are techniques and application of data mining?
- 2. (a) How are top-down and bottom up approaches for building data warehouse differ? Discuss the merits and limitation of each approach. Also discuss the practical approach.
 - Explain different algorithm for spatial mining.
- 3. (a) Describe feature of web enabled data warehouse. Why data security a major concern for web-enabled data warehouse?
 - Explain Temporal mining.
- Give information package for recording information requirement for "Hotel Occupancy" 4. (a) considering dimensions like time, Hotel etc. Design Star schema from information package. If possible draw Snowflake schema.
 - Explain Web mining. Explain web content mining with reference to Crawlers, Harvest system, Virtual web view and personalization?
- What is MDDB? What types of business requirements determine use of MDDB 5. (a) in Data warehouse?
 - Explain what is classification? What are the issues in classification? Apply statistical based algorithm to obtain the actual probabilities of each event to classify the new type as a tall. Use the following data:—

Person ID	Name	Gender	Height	Class
1	Kristina	Female	1.6m	short
2	Jim	Male	2 m	Tall
3	Maggie	Female	1.9 m	medium
4	Martha	Female	1.85m	medium
5	John	Male	2.1 m	Tall
6	Bob	Male	1.7 m	short
7	Clinton	Male	1.8 m	medium
8	Nyssa	Female	1.6 m	short
9	Kathy	Female	1.65 m	short

- State and Explain key issues to be considered while planning for data warehouse for Information Technology department.
 - Explain Association Rule mining. Explain Aprioi algorithm with example. (b)
- - DMQL (a)
 - Different operation of OLAP
 - Trends in Data mining
 - Fact constellation, Factless Fact Table, Updation to the Dimension Tables.