

**LAHORE UNIVERSITY OF MANAGEMENT SCIENCES  
CENTRE FOR ADVANCED STUDIES IN MATHEMATICS**

**WORKSHOP ON FOUNDATIONS OF DATA MINING  
(June 11-12, 2005)**

**11<sup>th</sup> June, 2005 (Saturday)**

Sr.	Time	Topics
1.	9:30-10:00	<b>Registration</b>
2.	10:00-10:30	<b><i>Overview of Data Mining</i></b>
3.	10:30-11:30	<b><i>Association Rules Mining (I)</i></b> (i) Frequent Item Sets (ii) Support Confidence (iii) Vertical and Horizontal presentation of transaction (iv) Apriori Algo.
4.	11:30-12:00	<b><i>Break</i></b>
5.	12:00-13:30	<b><i>Association Rules Mining (II)</i></b> (i) FP – Tree Algo (ii) Quantitative Association Rules (iii) Multi-level Association Rules
6.	13:30-14:45	<b><i>Break</i></b>
7.	14:45-16:15	<b><i>Classifications (I)</i></b> (i) Introduction (ii) Entropy Concepts – Information Gain (iii) ID <sub>3</sub> & C45 Algorithms
8.	16:15-16:45	<b><i>Break</i></b>
9.	16:45-18:00	<b><i>Classifications (II)</i></b> (i) Gimi - Index (ii) Sliq – Sprint (iii) Neural Networks

**12<sup>th</sup> June, 2005 (Sunday)**

10.	10:00-11:30	<b><i>Clustering (I)</i></b> (i) Type of Data (ii) Similarity measures (iii) Partition based approach (iv) Hierarchical approach (v) Density base approach (vi) Neural Networks
11.	11:30-11:45	<b><i>Break</i></b>
12.	11:45-13:15	<b><i>Case Studies Presentation on WEKA</i></b>
13.	13:15-14:30	<b><i>Break</i></b>
14.	14:30-15:30	<b><i>Interesting Case Studies</i></b>