ITEC COURSE ON DATA ANALYTICS FOR DECISION-MAKING

A PROPOSAL from the INTERNATIONAL STATISTICAL EDUCATION CENTRE (ISEC), KOLKATA

Couse Content

Number of Days of Training: 15

Number of Lectures/day: 4 (of 90 minutes each), inclusive of extensive hands-on sessions with

R programming

Project presentations: 6 hours

Inauguration and Valedictory Session: 30 minutes+1 hour

TOPICS TO BE COVERED

TOPIC

- 1. INTRODUCTION TO DATA ANALYTICS
- 2. INTRODUCTION TO R
- 3. LINEAR REGRESSION MODELS
- 4. CLASSIFICATION
- 5. TREE BASED METHODS
- 6. SUPPORT VECTOR MACHINES
- 7. NEURAL NETWORKS
- 8. CROSS-VALIDATION
- 9. GENERALIZED LINEAR MODELS
- 10. PREDICTIVE ANALYTICS
- 11. TIME SERIES MODELLING
- 12. DIMENSION REDUCTION
- 13. RESAMPLING METHODS
- 14. MCDM METHODS
- 15. SPECIAL TOPIC I (to be decided)
- 16. SPECIAL TOPIC II (to be decided)