

## Course: Business Intelligence and Analytics

| Week | Topics  |
|------|---|
| 1    | An Overview of Business Intelligence, Analytics, and Data Science<br>Types of Analytics   |
| 2    | Descriptive Analytics I: Nature of Data, Statistical Modeling, and Visualization<br><br>Assignment 1 – BI Tools, due 23 February            |
| 3    | continue Descriptive Analytics I  |
| 4    | Descriptive Analytics II: Business Intelligence and Data Warehousing  |
| 5    | continue Descriptive Analytics II<br><br>Predictive Analytics I: Data Mining Process, Methods, and Algorithms                               |
| 6    | Project Proposal  |
| 7    | continue Predictive Analytics I<br><br>Assignment 2 – MCDM (Multi Criteria Decision Model)/AHP (Analytical Hierarchy Process), due 30 March |
| 8    | Predictive Analytics II: Text, Web, and Social Media Analytics  |
| 9    | Prescriptive Analytics: Optimization and Simulation   |
| 10   | Project Progress Report   |
| 11   | continue Prescriptive Analytics   |
| 12   | Big Data Analytics (Concepts and Tools)   |
| 13   | continue Big Data Analytics   |
| 14   | Future Trends, Other Considerations in Analytics  |
| 15   | Final Project   |