

Data Engineering and Analytics with Co-op

Semester 1 (14 weeks)		
Course Code	Course Title	Hours
ISM101	Information Systems Management	60
ISM102	Introduction to Linux Systems Administration	60
DEA104	Introduction to Data Structures, Design and Analysis	60
DEA106	Probability and Statistics Fundamentals	60
Total		240
Semester Break (3 weeks)		
Semester 2 (14 weeks)		
Course Code	Course Title	Hours
ISM103	Relational Database Systems and SQL	60
DEA105	Business Analysis and System Design	60
DEA107	Statistics for Data Analysis	60
DEA111	Visual Analysis for Business Intelligence (BI) with Tableau	60
Total		240
Semester Break (3 weeks)		
Semester 3 (14 weeks)		
Course Code	Course Title	Hours
DEA108	Applied Multivariate Statistical Analysis	60
DEA109	Machine Learning	60
DEA110	Data Warehouse (EDW Concepts)	60
DEA112	Business Intelligence (BI) with SSIS, SSAS and SSRS	60
Total		240
Semester Break (3 weeks)		

Semester 4 (14 weeks)		
Course Code	Course Title	Hours
DEA113	Advanced Topics in Data Analysis, Big Data, Data Mining and Cloud Computing	60
DEA114	Security and Privacy Issues in Data Analytics	60
EPT400	Employment Preparation Training	60
Total		180
Semester Break (3 weeks)		
Semester 5 (14 weeks)		
Course Code	Course Title	Hours
DEA497	Co-op Term 1	450
Total		450
Semester Break (3 weeks)		
Semester 6 (14 weeks)		
Course Code	Course Title	Hours
DEA498	Co-op Term 2	450
Total		450