



## MASTER OF SCIENCE PROFESSIONAL STUDIES IN DATA ANALYTICS

### PROGRAM OVERVIEW

To prepare participants for successful careers helping organizations make better decisions through analytics. It prepares participants to work effectively with complex, real-world data and to create value from it. The program is based on a holistic educational experience, where theory and practice are fully interlaced through the continuous support of public and private sectors partners.

The program gives participants the ability to help organizations increase the efficiency of their operations and gather and interpret data more efficiently. While pursuing their master's, they will also be coached to implement what they learn at workplace and would give them more future opportunities. The program is carefully designed to cater for all levels of data analytics: from creating a strategy and vision for the organization towards big data, managing and securing the data, build appropriate infrastructure for data analytics, data analysis and presentation for intelligent decision making. How data collection and analysis used for emerging technologies including artificial intelligence, virtual realities, robotics, machine learning and other fields is included in the program. The programme is jointly designed with public departments such as Smart Dubai and Dubai Data as well as international leading organizations in the field. It will be first of its kind in the UAE and will cater for working individuals.

## CONTACT US

For more information about this program, kindly contact Mr. Mahmoud at [mmacad@rit.edu](mailto:mmacad@rit.edu) or call at 04-3712013.

## PROGRAM LEARNING OUTCOMES

- Define and quantify business problems for the purposes of analysis and strategic decision-making.
- Use data collection and preparation techniques in the processes of model building for data analysis.
- Deploy data analytics platforms for large scale data management.
- Use descriptive, predictive, and prescriptive analytical models.
- Analyze, interpret, and communicate results and outputs from analytical operations.
- Make business decisions that create business value based on data analytics
- Identify and analyze security, ethical, and privacy issues related to Data Analytics.
- Demonstrate the relationship between Data Analytics and emerging technologies.
- Conduct research in the field of Data Analytics.

## CURRICULUM

### TYPICAL COURSE SEQUENCE

The program is comprised of 33 semester credit hours which students must successfully complete.

The table below shows Master of Science in Professional Studies: Data Analytics program structure and courses.

COURSE	
Typical Course Sequence	Credit Hours
Research Design Methods	3
Context and Trends: Data Analytics	3
Fundamentals of Data Analytics	3
Information Security Risk Management	3
Enterprise Infrastructure for Data Analysis	3
Data Management for Business Analytics	3
Data Analytics for Emerging Technologies	3
Data Visualization	3
Data Driven Decision Making	3
Special Topics in Data Analytics	3
Capstone Proposal Seminar	0
Capstone Project	3
Total Semester Credit Hours - 33	



Phone: +971 4 371 2000 | Fax: +971 4 320 8819 | Email: [dubai@rit.edu](mailto:dubai@rit.edu)  
Address: RIT Dubai, Silicon Oasis, P.O. Box 341055, Dubai, U.A.E.