

Practical, industry-aligned courses in data and cybersecurity

Explore the program of short course, microcredential and post-graduate studies on offer from the UTS Faculty of Engineering and IT.

DATA ANALYTICS FOUNDATIONS

Designed for professionals who are new to working with data, this microcredential covers the fundamentals of data analysis.

Understand the value and power of data, master key concepts and terminology, explore clustering and analysis techniques and begin analysing and visualising a range of data sets.

 Online  10 weeks (avg. 5 hrs/wk)

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ADVANCED DATA ANALYTICS

This microcredential combines state-of-the-art research and practical techniques in data analytics, covering the knowledge and capacity to initiate and conduct data mining research and development projects.

Building on the Data Analytics Foundations microcredential, learn to evaluate and choose between key machine learning methods and models through practical exercises.

 Online  10 weeks (avg. 5 hrs/wk)

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DATA ENGINEERING FOUNDATIONS

This microcredential provides a comprehensive overview of the foundations of data engineering.

Beginning with an overview of a typical data value chain, the course introduces data infrastructure and data pipelines, alongside examples of implementation technologies, exploring Issues around data quality, security, monitoring and governance.

 Online  10 weeks (avg. 5 hrs/wk)

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CYBERSECURITY FOR COMPANY DIRECTORS

Cybersecurity awareness is vital for directors and executives from the board level, down.

This course provides the relevant commercial and technical framework and mindset that organisations need to navigate complexities and achieve optimal returns on their investments in people, processes, and systems.

 Online  2 hours

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ENTERPRISE ARCHITECTURE PRACTICE: FOUNDATIONS

Address the digital innovation and transformation challenges faced by government and business enterprises.

This workshop provides participants with hands-on practical experience in digital enterprise architecture concepts, design principles, practices, tools, and techniques so that they can stay ahead of the digital curve.

 Online  2 days

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DATA ANALYST TOOLKIT

Learn about the key tools, platforms and functions that you will need to work in the data science field, in positions such as a data analyst.

This short course will provide you with a foundational understanding of the key areas and tools used by data analysts and data scientists to help start your journey into artificial intelligence (AI) and data. You will navigate through coding and databases and become prepared to solve different real-world problems with data analytics tools.

 Online  4 weeks
(8 x 4 hours)

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MASTER OF CYBERSECURITY

Help organisations and society manage the increasing challenges of creating and maintaining secure online systems.

The Master of Cybersecurity is aimed at computing science, information technology or computer engineering graduates, with or without cybersecurity experience, who wish to learn or extend their knowledge of cybersecurity in various contexts.

 City Campus  1.5 yrs full time /
3 yrs part time

Upskill and meet the demands of this rapidly changing field while engaging in practical, hands-on learning using technologies to create and manage secure networks, systems and devices.

Understand a range of current and emerging areas of cybersecurity, including network, cloud, mobile platform, and IoT security.

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