

INFS 1016 DIGITAL TRANSFORMATION

Credit Points 10

Coordinator Nassim Belbaly ([https://directory.westernsydney.edu.au/search/name/Nassim Belbaly/](https://directory.westernsydney.edu.au/search/name/Nassim%20Belbaly/))

Description This subject explores the role of digital transformation in modern organizations, focusing on how emerging technologies reshape business models. It introduces the evolution of digital transformation along with core frameworks that distinguish digitization, digitalization, and transformation. Students explore emerging technologies including artificial intelligence, IoT, big data analytics, cloud computing, and blockchain and learn to design digital business strategies using agile methods, design thinking, and data-driven decision-making. The subject covers strategic planning, change management, cybersecurity, and ethical considerations in digital adoption. Through hands-on projects, students will develop critical skills in technology implementation, innovation management, and digital strategy. Students are provided with both theoretical insights and practical experiences to assist digital transformation initiatives in various industries enhancing their employability in the evolving digital landscape.

School Computer, Data & Math Sciences

Discipline Information Systems

Student Contribution Band HECS Band 2 10cp

Check your fees via the Fees (https://www.westernsydney.edu.au/currentstudents/current_students/fees/) page.

Level Undergraduate Level 1 subject

Learning Outcomes

After successful completion of this subject, students will be able to:

1. Explain the fundamental concepts and frameworks of digital transformation.
2. Analyse digital business models and strategies by using agile methods, design thinking, and data-driven decision making.
3. Use data and market insights to develop comprehensive digital transformation strategies tailored to organizational needs.
4. Examine real-world case studies to identify success factors, potential challenges, and opportunities.
5. Apply change management and leadership principles to effectively drive digital innovation and foster a culture of continuous improvement.
6. Justify cybersecurity risks, ethical considerations, and regulatory compliance in the digital transformation process.

Subject Content

- Introduction to digital transformation including digitization, digitalization, and the strategic evolution of businesses.
- Emerging technologies driving digital transformation
- Digital business models and digital strategy
- Strategic planning for digital adoption
- Change management and digital culture
- Cybersecurity, ethics and data privacy in digital transformation
- Business applications of digital transformation
- Future trends and continuous innovation

Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

| Type | Length | Percent | Threshold | Individual/ Group Task | Mandatory |
|-----------------|--|---------|-----------|------------------------|-----------|
| Quiz | 60 minutes | 20 | N | Individual | N |
| Practical | 4 hours | 10 | N | Individual | N |
| Applied Project | 1500 words and 10 minutes presentation | 30 | N | Group/ Individual | Y |
| Final Exam | 2 hours | 40 | Y | Individual | Y |

Prescribed Texts

- Taherdoost, H. (2024). *Digital transformation roadmap: From vision to execution*. CRC Press. <https://doi.org/10.1201/9781003471226> (<https://www.taylorfrancis.com/books/mono/10.1201/9781003471226/digital-transformation-roadmap-hamed-taherdoost/>)

Teaching Periods

Spring (2025)

Parramatta - Victoria Rd

On-site

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View timetable (https://classregistration.westernsydney.edu.au/odd/timetable/?subject_code=INFS1016_25-SPR_PS_1#subjects)

Sydney City Campus - Term 3 (2025)

Sydney City

On-site

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