At a Glance

Master of Science in Digital Transformation
Coursework Mode

School of Computer Sciences
Universiti Sains Malaysia
www.cs.usm.my
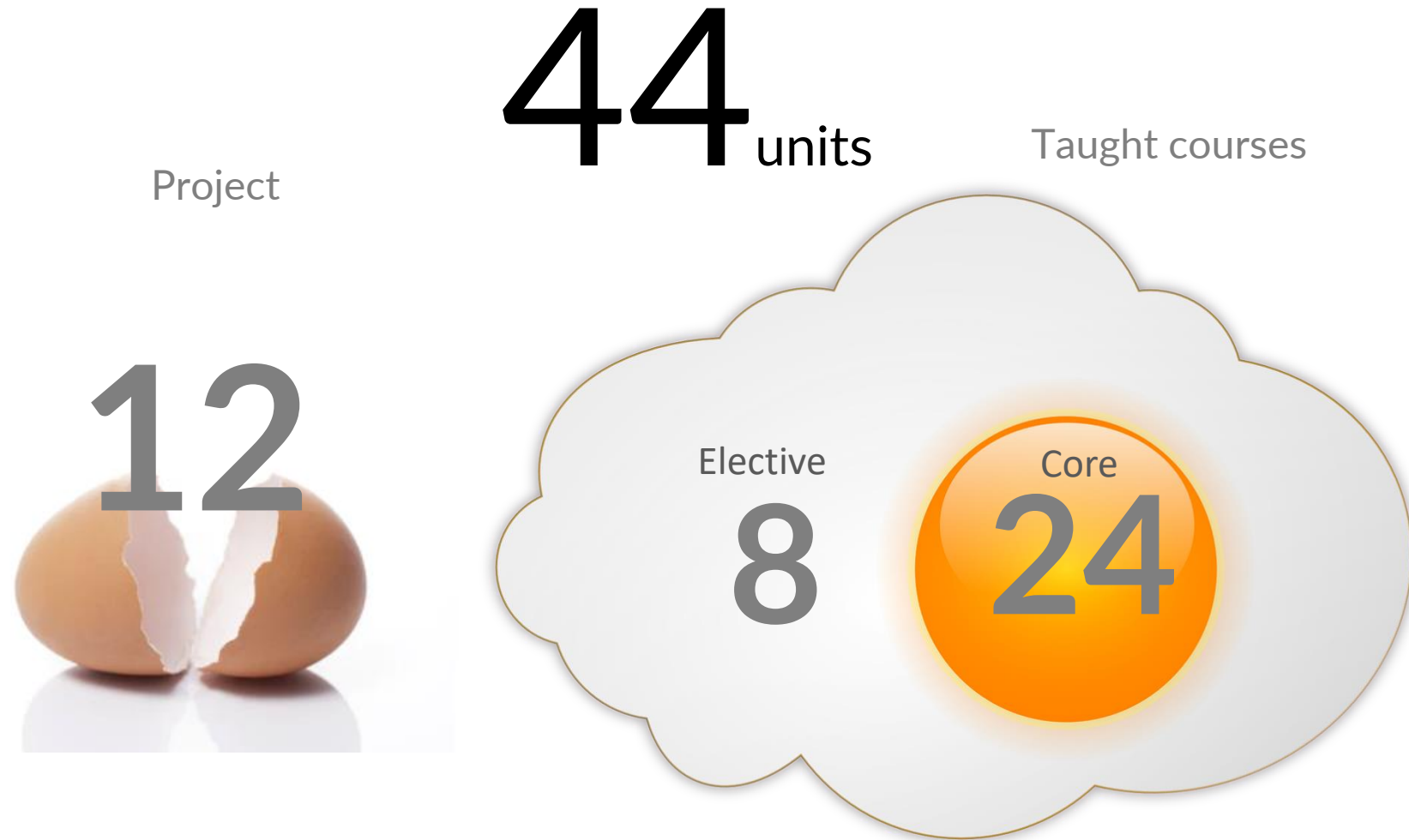
Master of Science
in Digital Transformation

Programme Structure

9 courses

Project

Taught courses

1

Elective

2

Core

6

Programme Structure

44units

Project

Taught courses

12

Elective
8

Core
24

Full-time Scheme

Minimum

18 months

Maximum

36 months

equivalent to

Minimum

3 semesters

Maximum

6 semesters

Part-time Scheme

Minimum

24 months

Maximum

48 months

equivalent to

Minimum

4 semesters

Maximum

8 semesters

Core Courses

CODE	SUBJECT	Offering
CDT541/4	Industrial Digital Transformation	SEM 1
CDT542/4	Digital Entrepreneurship	SEM 1
CDT543/4	Systematic and Lean Innovation Management	SEM 2
CDT544/4	Enterprise Architecture for Digital Business Transformation	SEM 2
CDS501/4	Principles and Practices of Data Science and Analytics	SEM 1 & 2
CDS506/4	Research, Consultancy and Professional Skills	SEM 1 & 2

MSc in Digital Transformation Coursework Mode

CDT594 Digital Transformation Project and Practicum

- Pre-requisite course: CDS506
- Must be taken in two consecutive semesters
- Secure practicum workplace (at your respective workplaces or chosen/assigned organisations)
- Identify industry mentor & academic supervisor
- Identify use cases/problem to work on
- Execute digital transformation initiatives
- Develop new business models

Digital Infrastructure

Business and Organisation

Elective Courses

Digital Infrastructure

Code	Subject	Offering
CDT545/4	Cyber Security in Digital Transformation	SEM 1
CDS504/4	Enabling Technologies and Infrastructures for Big Data	SEM 2

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Business and Organisation

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Code	Subject	Offering
CDS511/4	Consumer Behavioural and Social Media Analytics	SEM 1
CDS512/4	Business Intelligence and Decision Analytics	SEM 2

Study Scheme: 1.5-year (**Sep/Oct Intake**)

(applicable to full-time study scheme only)

Course Type (Code) (Unit)	Sep/Oct Intake: 1.5 Years (3 Semesters)					
Core (T) (36 Units)	Year I Sem I (Sep/Oct)	Unit	Year I Sem II (Feb/Mar/Apr)	Unit	Year II Sem I (Sep/Oct)	Unit
	CDT541	4	CDT543	4	CDT594+	12
	CDT542	4	CDT544	4		
	CDS501	4	CDS506+	4		
Elective (E) (8 Units)	Elective I	4	Elective II	4		
Total: 44 Units		16		16		12

+ Must be taken in two consecutive semesters, CDS506 followed by CDT594

Study Scheme: 2-year (**Sep/Oct Intake**)

(applicable to full-time and part-time study schemes)

Course Type (Code) (Unit)	Sep/Oct Intake: 2 Years (4 Semesters)							
Core (T) (36 Units)	Year I Sem I (Sep/Oct)	Unit	Year I Sem II (Feb/Mar/Apr)	Unit	Year II Sem I (Sep/Oct)	Unit	Year II Sem II (Feb/Mar/Apr)	Unit
	CDT541	4	CDT543	4	CDS506+	4	CDT594+	12
	CDT542	4	CDT544	4				
	CDS501	4						
Elective (E) (8 Units)			Elective I	4	Elective II	4		
Total: 44 Units		12		12		8		12

+ Must be taken in two consecutive semesters, CDS506 followed by CDT594

Study Scheme: 2.5-year (Sep/Oct Intake)

(applicable to full-time and part-time study schemes)

Course Type (Code) (Unit)	Sep/Oct Intake: 2.5 Years (5 Semesters)									
Core (T) (36 Units)	Year I Sem I (Sep/Oct)	Unit	Year I Sem II (Feb/Mar /Apr)	Unit	Year II Sem I (Sep/Oct)	Unit	Year II Sem II (Feb/Mar/ Apr)	Unit	Year III Sem I (Sep/Oct)	Unit
	CDT541	4	CDT543	4	CDS501	4	CDS506 +	4	CDT594 +	12
	CDT542	4	CDT544	4						
Elective (E) (8 Units)					Elective I	4	Elective II	4		
Total: 44 Units		8		8		8		8		12

+ Must be taken in two consecutive semesters, CDS506 followed by CDT594

Study Scheme: 1.5-year (**Feb/Mar/Apr Intake**)

(applicable to full-time study scheme only)

Course Type (Code) (Unit)	Feb/Mar/Apr Intake: 1.5 Years (3 Semesters)					
Core (T) (36 Units)	Year I Sem II (Feb/Mar/Apr)	Unit	Year I Sem I (Sep/Oct)	Unit	Year II Sem II (Feb/Mar/Apr)	Unit
	CDT543	4	CDT541	4	CDT594+	12
	CDT544	4	CDT542	4		
	CDS501	4	CDS506+	4		
Elective (E) (8 Units)	Elective I	4	Elective II	4		
Total: 44 Units		16		16		12

+ Must be taken in two consecutive semesters, CDS506 followed by CDT594

Study Scheme: 2-year (**Feb/Mar/Apr Intake**)

(applicable to full-time and part-time study schemes)

Course Type (Code) (Unit)	Feb/Mar/Apr Intake: 2 Years (4 Semesters)							
	Year I Sem II (Feb/Mar/Apr)	Unit	Year I Sem I (Sep/Oct)	Unit	Year II Sem II (Feb/Mar/Apr)	Unit	Year II Sem I (Sep/Oct)	Unit
Core (T) (36 Units)	CDT543	4	CDT541	4	CDS506+	4	CDT594+	12
	CDT544	4	CDT542	4				
	CDS501	4						
Elective (E) (8 Units)			Elective I	4	Elective II	4		
Total: 44 Units		12		12		8		12

+ Must be taken in two consecutive semesters, CDS506 followed by CDT594

Study Scheme: 2.5-year (**Feb/Mar/Apr Intake**)

(applicable to full-time and part-time study schemes)

Course Type (Code) (Unit)	Feb/Mar/Apr Intake: 2.5 Years (5 Semesters)									
Core (T) (36 Units)	Year I Sem II (Feb/Mar/Apr)	Unit	Year I Sem I (Sep/Oct)	Unit	Year II Sem II (Feb/Mar/Apr)	Unit	Year II Sem I (Sep/Oct)	Unit	Year III Sem II (Feb/Mar/Apr)	Unit
	CDT543	4	CDT541	4	CDS501	4	CDS506 +	4	CDT594 +	12
	CDT544	4	CDT542	4						
Elective (E) (8 Units)					Elective I	4	Elective II	4		
Total: 44 Units		8		8		8		8		12

+ Must be taken in two consecutive semesters, CDS506 followed by CDT594

Evaluation

Type	Evaluation Components	Grades
Courses	- coursework - final examination	C+ or better for a pass
Project & practicum	- report & presentation	C+ or better for a pass

Graduation Requirement

6 Core Courses	24
1 Project & Practicum	12
2 Electives	8
Total	44 units

CGPA >= 3.0

UNIVERSITI SAINS MALAYSIA