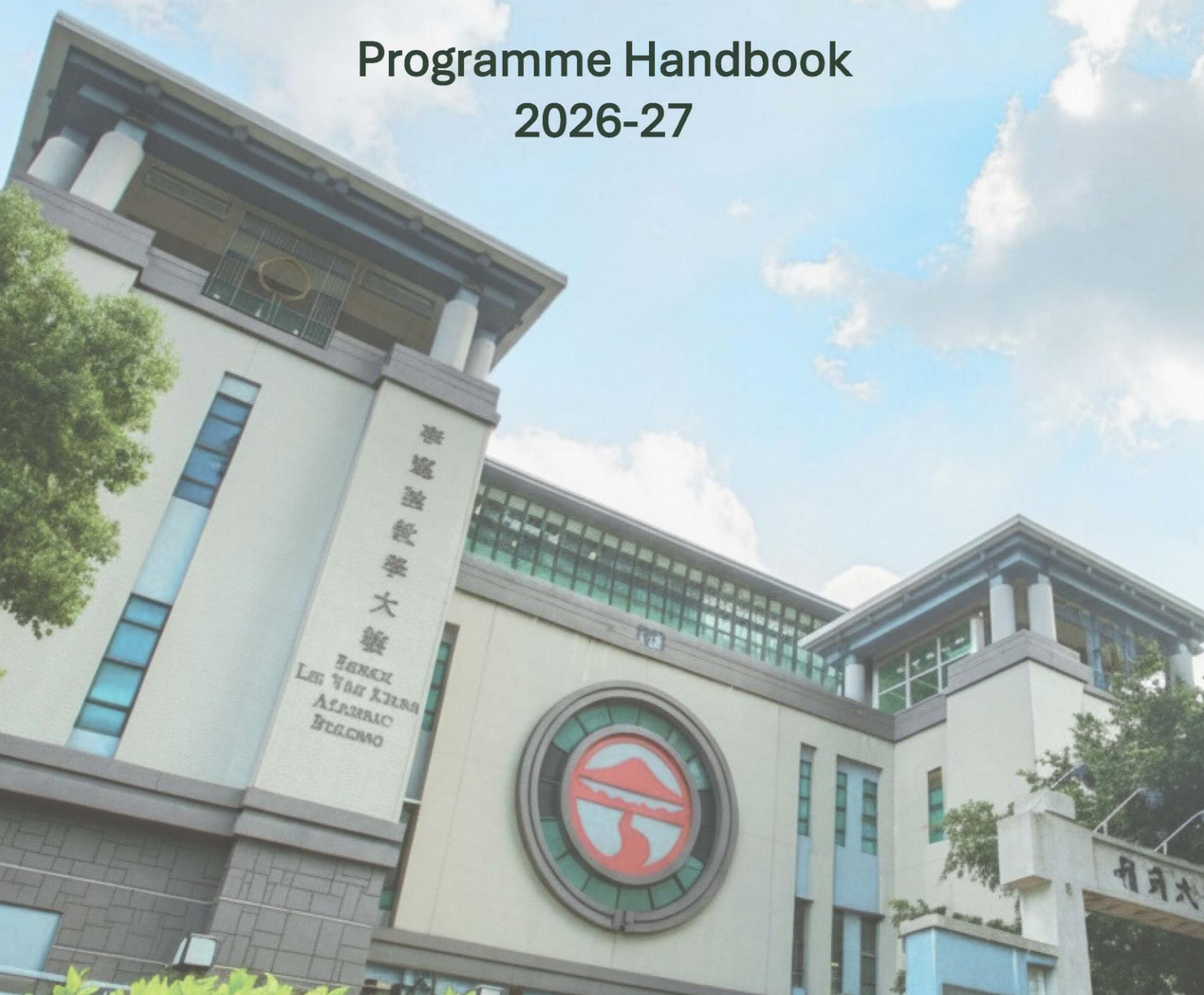


Master of Science in Industrial Data Analytics

MScIDA

Industrial Data Analytics

Programme Handbook
2026-27



Division of Industrial Data Science (DIDS)

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This Programme Student Handbook is subject to periodic review and changes may be made when needed. Students will be informed of the changes as and when appropriate.

(Last update: 7 August 2026)

1. Programme Academic Calendar

Master of Science in Industrial Data Analytics (MScIDA) ACADEMIC CALENDAR 2026-27

Term 1

Month	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Events	General Holidays
Aug 2026							1	17-18: Pre-entry Course of Statistics 21&24: Pre-entry Course of Introduction to Computing 24-25: Reporting & Registration Day 26 SDS Student Orientation (TBC) 27: LU Postgraduate Orientation 2026 28: LU Postgraduate Orientation 2026 (Contingency)	
	2	3	4	5	6	7	8		
	9	10	11	12	13	14	15		
	16	17	18	19	20	21	22		
	23	24	25	26	27	28	29		
	30	31							
Sep 2026			1	2	3	4	5	1: Academic Year 2025-26 starts; Term 1 Classes Begin	26: The day following the Chinese Mid-Autumn Festival
	6	7	8	9	10	11	12		
	13	14	15	16	17	18	19		
	20	21	22	23	24	25	26		
	27	28	29	30					
Oct 2026					1	2	3		1: National Day 19: The day following Chung Yeung Festival
	4	5	6	7	8	9	10		
	11	12	13	14	15	16	17		
	18	19	20	21	22	23	24		
	25	26	27	28	29	30	31		
Nov 2026	1	2	3	4	5	6	7		
	8	9	10	11	12	13	14		
	15	16	17	18	19	20	21		
	22	23	24	25	26	27	28		
	29	30							
Dec 2026			1	2	3	4	5	1-2: Congregation (Classes Suspended) 4: Term 1 Classes End; Payment Deadline of Tuition Fee for Term 2 5-21: Term 1 Examinations 22-23: Reserved for Exams Postponed Due to Extenuating Circumstances	25: Christmas Day 26: The first weekday after Christmas Day
	6	7	8	9	10	11	12		
	13	14	15	16	17	18	19		
	20	21	22	23	24	25	26		
	27	28	29	30	31				

Term 2

Month	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Events	General Holidays
Jan 2027						1	2	8: Term 2 Classes Begin	1: The first day of January
	3	4	5	6	7	8	9		
	10	11	12	13	14	15	16		
	17	18	19	20	21	22	23		
	24	25	26	27	28	29	30		
	31								
Feb 2027		1	2	3	4	5	6	23: Sports Day (Classes Suspended)	5-12: Chinese New Year Holidays (students)
	7	8	9	10	11	12	13		
	14	15	16	17	18	19	20		
	21	22	23	24	25	26	27		
	28								
Mar 2027		1	2	3	4	5	6		26: Good Friday 27: The day following Good Friday 29: Easter Monday
	7	8	9	10	11	12	13		
	14	15	16	17	18	19	20		
	21	22	23	24	25	26	27		
	28	29	30	31					
Apr 2027	4	5	6	7	8	9	10	30 (TBC): Term 2 Classes End	5: Ching Ming Festival
	11	12	13	14	15	16	17		
	18	19	20	21	22	23	24		
	25	26	27	28	29	30			
May 2027						1	2	3-19 (TBC): Term 2 Examinations 20-21 (TBC): Reserved for Exams Postponed Due to Extenuating Circumstances	1: Labour Day 13: The Birthday of the Buddha
	3	4	5	6	7	8	9		
	10	11	12	13	14	15	16		
	17	18	19	20	21	22	23		
	24	25	26	27	28	29	30		
	31								

	General Holidays
	Important Dates for Students to Note
	Examinations

2. Programme Information

2.1. Background

The need for the Master of Science in Industrial Data Analytics (MScIDA) programme arises from the rapid data explosion and technology advancement in the industry, coupled with the imperative of data-driven decision-making tailored specifically to industrial applications. An Industrial Data Analytics Programme can provide individuals with the data-driven knowledge, skills, and practical experience required to excel in these industrial sectors. It equips students with a solid understanding of data collection, storage, manipulation, integration, visualization, and analysis techniques. The programme also familiarizes students with industry-standard tools and technologies from automatic control, industrial engineering, computer science, applied mathematics, business management, etc.

The MScIDA programme covers key technologies in areas such as data science, computer technology, and industrial engineering, cultivating interdisciplinary professionals. The programme is offered and managed by the Division of Industrial Data Science, School of Data Science, Lingnan University. Information regarding this full-time programme is given below.

Title in English: Master of Science in Industrial Data Analytics

Title in Chinese: 工業數據分析理學碩士

Normal study duration: One year

2.2. Aims and Programme Intended Learning Outcomes

2.2.1. Aims

- Foster students to explore and push the boundaries of industrial data analytics, fostering a spirit of innovation and creativity in developing novel approaches, algorithms, and solutions to address emerging challenges.
- Encourage collaboration and integration of knowledge from various disciplines, leveraging insights from statistics, computer science, mathematics, and domain knowledge from specific industrial sectors such as manufacturing, energy, transportation, logistics, and healthcare.
- Provide students with hands-on experience and real-world projects to develop skills that are directly applicable to industry and research settings.

2.2.2. Programme Intended Learning Outcomes (PILOs)

- PILO1. Demonstrate a comprehensive understanding of the fundamental principles and methodologies of industrial data science.
- PILO2. Describe and effectively apply contemporary artificial intelligence, data analytics, internet of things, sustainable development and other information technology techniques for industrial data science.

- PILO3. Design, implement, deploy, and manage the solutions for real-world problems using industry-standard data science tools, programming languages, and software platforms.
- PILO4. Develop and apply critical thinking and problem-solving skills to identify, select, and evaluate appropriate data science methods, tools, and algorithms for specific industrial challenges, assessing their performance and limitations across various scenarios.
- PILO5. Analyse and articulate the ethical implications of data science methods and tools, ensuring responsible practices related to security, privacy, fairness, transparency, and accountability in data collection, analysis, and decision-making processes.
- PILO6. Demonstrate advanced communication and interpersonal skills within team environments, facilitating effective collaboration and knowledge sharing.

2.3. Mode of Study

Full-time

2.4. Normal and Maximum Duration of Study

Mode of Study	Minimum Study Period	Maximum Study Period
Full-time	1 year	3 years

2.5. Medium of Instruction

The medium of instruction is English.

2.6. Contributing Departments/Units/External Partners

Division of Industrial Data Science, School of Data Science

2.7. Programme Structure

2.7.1. Curriculum

Students are required to complete a total of thirty credits, consisting of five required courses and five elective courses, for the award of the MScIDA degree. These courses can have different combinations of lectures, laboratory sessions, tutorials, and/or seminars. The normal duration for the MScIDA programme is one year of full-time study. Students may extend the study period up to a maximum duration of three years subject to the approval of the Programme Director and Person-in-Charge of the Division.

Course Code	Course Title	Credit
Required Courses		
CDS545	Intelligent Control and AI-Driven Analytics	3
CDS546	Industrial Data Analytics Project	3
CDS550	Programming with Generative Artificial Intelligence	3
CDS552	Smart Connectivity and Fusion	3
CDS568	Strategic Visual Data Analytics	3
Elective Courses (Choose any 5)		
CDS525	Practical Application of Deep Learning	3
CDS527	Big Data Analytics	3
CDS530	Healthcare Analytics	3
CDS547	Introduction to Large Language Models	3
CDS549	Operational Research	3
CDS554	Smart Logistics	3
CDS562	Urban Data Science and Analytics	3
CDS565	Blockchain-driven Applications	3
CDS566	Introduction to Digital Twin	3
CDS567	Introduction to Embodied Intelligence	3
Total		30

2.7.2. List of Courses for 2026-27

Required Courses:

- CDS545 Control Systems and Industrial Analytics
- CDS546 Industrial Data Analytics Project
- CDS550 Programming with Generative Artificial Intelligence
- CDS552 Smart Connectivity and Fusion
- CDS568 Strategic Visual Data Analytics

Elective Courses*:

- CDS525 Practical Application of Deep Learning
- CDS527 Big Data Analytics
- CDS530 Healthcare Analytics
- CDS547 Introduction to Large Language Models
- CDS549 Operational Research
- CDS554 Smart Logistics
- CDS562 Urban Data Science and Analytics
- CDS565 Blockchain-driven Applications
- CDS566 Introduction to Digital Twin
- CDS567 Introduction to Embodied Intelligence

** Offering of the elective courses is subject to sufficient demand and availability.*

2.7.3. Curriculum Mapping

	Programme Intended Learning Outcomes (PILOs)					
Required courses	1	2	3	4	5	6
CDS545 Intelligent Control and AI-Driven Analytics	✓	✓	✓	✓	✓	✓
CDS546 Industrial Data Analytics Project	✓	✓	✓	✓		✓
CDS550 Programming with Generative Artificial Intelligence	✓	✓	✓	✓	✓	✓
CDS552 Smart Connectivity and Fusion	✓	✓	✓	✓	✓	✓
CDS568 Strategic Visual Data Analytics	✓	✓	✓	✓	✓	✓
Elective Courses						
CDS525 Practical Application of Deep Learning		✓	✓	✓		
CDS527 Big Data Analytics	✓		✓	✓		✓
CDS530 Healthcare Analytics			✓		✓	✓
CDS547 Introduction to Large Language Models	✓	✓	✓		✓	
CDS549 Operational Research	✓		✓		✓	✓
CDS554 Smart Logistics	✓		✓		✓	
CDS562 Urban Data Science and Analytics	✓		✓		✓	✓
CDS565 Blockchain-driven Applications		✓	✓	✓	✓	✓
CDS566 Introduction to Digital Twin	✓	✓			✓	✓
CDS567 Introduction to Embodied Intelligence	✓	✓			✓	✓

2.8. Student Progression Requirements

- 2.8.1 The minimum Cumulative GPA (CGPA) requirement for progression of this programme is 2.50 out of 4.0.
- 2.8.2 Generally, students should be subject to an academic review at the end of each term. In the case where a student enrolled in less than 6 credits in a term, the academic review shall be done when he/she has cumulatively enrolled in 6 credits or more.
- 2.8.3 A student whose CGPA is below 2.50 at the academic review will be put on academic probation in the following term or discontinued from studies as prescribed in Section 2.9.

- 2.8.4 At the end of the term in which the student on academic probation has cumulatively enrolled in 6 or more credits, if he/she obtains a CGPA of 2.50 or above, probation will be lifted. Otherwise, his/her studies will be discontinued.
- 2.8.5 A student may be put on academic probation for only one time during his/her whole period of study on the programme. After the academic probation is lifted and the student continues on the programme, the student will be discontinued from his/her studies if his/her CGPA is below 2.50 at an academic review.
- 2.8.6 A warning concerning the need to improve his/her academic performance should be issued to a student whose CGPA is at or above the level required for progression but below the level for graduation, i.e., a student whose CGPA is at or above 2.33 but below 2.67 (which is the minimum required for graduation).

2.9. Discontinuation of Studies

- 2.9.1 The Senate may, on the recommendation of the Postgraduate Studies Committee (the Committee), discontinue the studies of a student at any time on the grounds of the candidate's unsatisfactory performance or failure to comply with specific stipulations in [*Regulations Governing Taught Doctoral/Master's Degree Programmes*](#).
- 2.9.2 Generally, students should be subject to an academic review at the end of each term. In the case where a student enrolled in less than 6 credits in a term, the academic review shall be done when he/she has cumulatively enrolled in 6 credits or more. The studies of a student will normally be discontinued if,
- (a) he/she fails to have his/her academic probation lifted at the end of the term when he/she has taken cumulatively 6 or more credits since he/she has been put on probation, or
 - (b) his/her CGPA is below 2.50 at an academic review after the academic probation is lifted and the student continues on the programme;
 - (c) he/she fails to fulfill progression requirements specified in Section 2.8; or
 - (d) he/she fails to fulfill all requirements for graduation within the maximum study period.
- 2.9.3 A student's academic standing, as referred to in Section 2.9.2, is subject to the approval of the Senate upon the recommendation of the Committee.
- 2.9.4 A student whose studies have been discontinued may appeal through the Registrar against the decision. Details are stipulated in Section 9 of the [*Regulations Governing University Examinations and Course Work*](#).

2.10. Graduation Requirements

- 2.10.1. A student will be evaluated for graduation at the conclusion of the term in which he/she may satisfy all the conditions for an award. If a student is not allowed to graduate, he/she will be re-evaluated for graduation at the end of subsequent terms.
- 2.10.2. The student should have fulfilled all graduation requirements stipulated in the curriculum of his/her programme. The University reserves the right to make amendments to academic programmes from time to time as approved by the Senate.
- 2.10.3. For graduation, students are required to complete a total of 10 courses of 30 credits as specified in the programme curriculum, including 5 required courses and 5 elective courses.
- 2.10.4. The cumulative grade point average that a student should have obtained for graduation shall not be below 2.67.
- 2.10.5. A student is required to graduate as soon as he/she satisfies all the conditions for an award.
- 2.10.6. A student may graduate upon completion of all requirements at the end of any term in an academic year.
- 2.10.7. A student's eligibility for graduation is subject to Senate approval.

2.11. Award Classification

- 2.11.1 A student who has fulfilled all the requirements for graduation will be awarded a MSc degree with one of the following classifications:

Degree Classification	Minimum Cumulative G.P.A. Required
Distinction	3.50
Pass	2.67

- 2.11.2 These classifications are given according to the student's Cumulative G.P.A.

2.12. Intermediate Award

- 2.12.1 Students will be awarded a Postgraduate Diploma in Industrial Data Analytics (工業數據分析深造文憑) if they complete any four required courses with a minimum Cumulative GPA of 2.33.
- 2.12.2 Acceptance of an intermediate award implies an intention not to complete the final award. Where students seek re-admission to complete the award, readmission cannot be guaranteed. Where students are readmitted and go on to complete the award, their transcripts will indicate that the intermediate award has been superseded.

2.13. Degree Conferment Date

Awards of this programme will be conferred on 31 March, 31 July, 31 August or 15 November* in each academic year. If students have a preferred degree conferment date, they should indicate it during course commencement.

**Subject to revision by the University.*

2.14. Early Alert System

- The Early Alert System aims to identify students experiencing difficulties in their studies and provide **timely support**.
- Programme Offices shall:
 - request teachers, around the middle of the term, to report students who may require special attention (e.g. frequent absences, poor performance in tests and/or midterms);
 - compile a warning list for each course and cross-check with other teachers;
 - issue mid-term warnings to students who have not performed well; and
 - maintain ongoing communication and monitoring of the students concerned.

2.15. Scholarships

Scholarships might be considered for outstanding students on the basis of academic merit. All students admitted to the programme will automatically be the candidates for the scholarships. No application is required.

2.16. Official Communication Channel

Email is the official communication channel in Lingnan University. Students should use their Lingnan student email account to exchange messages with members of the University.

2.17. Programme Contact Information

Staff and Contacts of MScIDA Programme Office

<u>Name (Post)</u>	<u>Telephone</u>	<u>Office</u>	<u>Email</u>
Prof. MO Yanfang (Programme Director)	2616 8137	WLHG09/4	yanfangmo@ln.edu.hk
Mr KWOK Ken (Senior Programme Officer)	2616 7519	WLHG09	kenkwok@ln.edu.hk
Ms SZETO Tiffany (Programme Officer)	2616 8790	WLHG09	tiffanyszeto@ln.edu.hk
Mr PEI Dawei (Programme Officer)	2616 8719	WLHG09	daweipei@ln.edu.hk
Mr LYU Weijun (Assistant Teaching Officer)	2616 7550	WLHG09	weijunlyu@ln.edu.hk
Ms CHEN Toris (Assistant Programme Officer)	2616 8144	WLHG09	yingzhenchen@ln.edu.hk

2.18. Programme Learning and Teaching Facilities

Information about **University-wide** learning and teaching facilities, as well as other student support, such as IT services, OSA services, library services, CITAL, Registry, and health services, is included in the Student Handbook prepared by GS.