

Date			Unit	Lesson Title	Start	End	Mode of Delivery
C1: FOUNDATIONS OF DATA SCIENCE: PYTHON AND SQL			1.0	Key Topics: Week 1: Intro to Data Science and Databases Week 2: SQL Basics Week 3: SQL Advanced, Intro to Numpy Week 4: Intro to Pandas, EDA Basics Week 5: EDA Advanced, Data Visualization	Start	End	Mode of Delivery
SAT	3 Oct-26			Welcome + Introduction + Onboarding	09:00	12:00	NTU@One-North
SUN	4 Oct-26						
MON	5 Oct-26	1.1		Intro to Data Science	19:00	22:00	Online Zoom
TUE	6 Oct-26			Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
WED	7 Oct-26	1.2		Introduction to Database	19:00	22:00	Online Zoom
THU	8 Oct-26			Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
FRI	9 Oct-26						
SAT	10 Oct-26	CW		Career Workshop #1 - Uncover Your Next Path: Career Discovery for Mid-Career Changers	09:00	12:00	NTU@One-North
SUN	11 Oct-26						
MON	12 Oct-26	1.3		SQL Basic - DDL	19:00	22:00	Online Zoom
TUE	13 Oct-26			Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
WED	14 Oct-26	1.4		SQL Basic - DML	19:00	22:00	Online Zoom
THU	15 Oct-26			Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
FRI	16 Oct-26						
SAT	17 Oct-26	C1.1		Coaching	09:00	12:00	NTU@One-North
SUN	18 Oct-26						
MON	19 Oct-26	1.5		SQL Advanced	19:00	22:00	Online Zoom
TUE	20 Oct-26			Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
WED	21 Oct-26	1.6		Introduction to Numpy	19:00	22:00	Online Zoom
THU	22 Oct-26			Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
FRI	23 Oct-26						
SAT	24 Oct-26	C1.2		Coaching	09:00	12:00	NTU@One-North
SUN	25 Oct-26						
MON	26 Oct-26	1.7		Introduction to Pandas	19:00	22:00	Online Zoom
TUE	27 Oct-26			Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
WED	28 Oct-26	1.8		Exploratory Data Analysis (EDA) Basic	19:00	22:00	Online Zoom
THU	29 Oct-26			Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
FRI	30 Oct-26						
SAT	31 Oct-26	C1.3		Coaching	09:00	12:00	NTU@One-North
SUN	1 Nov-26						
MON	2 Nov-26	1.9		EDA Advanced	19:00	22:00	Online Zoom
TUE	3 Nov-26			Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
WED	4 Nov-26	1.10		Data Visualization	19:00	22:00	Online Zoom
THU	5 Nov-26	CW		Career Workshop #2 - Stand Out: Building a Powerful Professional Brand	19:00	22:00	Online Zoom
FRI	6 Nov-26			Assignment + Module Assessment	19:00	22:00	Self-Paced Learning
SAT	7 Nov-26	C1.4		Coaching	09:00	12:00	NTU@One-North
SUN	8 Nov-26	PH		Deepavali			
C2: SCALABLE DATA SOLUTIONS: BIG DATA ENGINEERING ESSENTIALS				Key Topics: Week 1: Introduction Big Data, Data Engineering and Data Architecture Week 2: Data Encoding, Data Flow, Data Extraction and Web Scraping Week 3: Data Warehouse, Data Pipelines and Orchestration Week 4: Data Orchestration and Testing, Memory Processing Week 5: Data Transformation, Stream Processing and Analytics Week 6: Project creation	Start	End	Mode of Delivery
MON	9 Nov-26	PH		Deepavali PH			
TUE	10 Nov-26	2.1		Introduction to Big Data and Data Engineering	19:00	22:00	Online Zoom
WED	11 Nov-26	2.2		Data Architecture	19:00	22:00	Online Zoom
THU	12 Nov-26			Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
FRI	13 Nov-26			Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
SAT	14 Nov-26	CO		Coaching	09:00	12:00	NTU@One-North
SUN	15 Nov-26						
MON	16 Nov-26	2.3		Data Encoding and Data Flow	19:00	22:00	Online Zoom
TUE	17 Nov-26			Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
WED	18 Nov-26	2.4		Data Extraction and Web Scraping	19:00	22:00	Online Zoom
THU	19 Nov-26			Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning

Schedule for (SCTP) Advanced Professional Certificate in Data Science and Artificial Intelligence - Cohort 7 (Part Time)

Updated: 9 Jun 26

	Date	Unit	Lesson Title	Start	End	Mode of Delivery
FRI	20 Nov-26					
SAT	21 Nov-26	CO	Coaching	09:00	12:00	NTU@One-North
SUN	22 Nov-26					
MON	23 Nov-26	2.5	Data Warehouse (dbt)	19:00	22:00	Online Zoom
TUE	24 Nov-26		Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
WED	25 Nov-26	2.6	Data Pipelines and Orchestration (meltano, dagster)	19:00	22:00	Online Zoom
THU	26 Nov-26		Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
FRI	27 Nov-26					
SAT	28 Nov-26	CO	Coaching	09:00	12:00	NTU@One-North
SUN	29 Nov-26					
MON	30 Nov-26	2.7	Data Orchestration and Testing	19:00	22:00	Online Zoom
TUE	1 Dec-26		Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
WED	2 Dec-26	2.8	Out of Core/Memory Processing	19:00	22:00	Online Zoom
THU	3 Dec-26		Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
FRI	4 Dec-26					
SAT	5 Dec-26	CO	Coaching	09:00	12:00	NTU@One-North
SUN	6 Dec-26					
MON	7 Dec-26	2.9	Distributed Batch Processing and Transformation	19:00	22:00	Online Zoom
TUE	8 Dec-26		Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
WED	9 Dec-26	2.10	Stream Processing and Analytics	19:00	22:00	Online Zoom
THU	10 Dec-26		Assignment + Module Assessment	19:00	22:00	Self-Paced Learning
FRI	11 Dec-26					
SAT	12 Dec-26	CO	Coaching	09:00	12:00	NTU@One-North
SUN	13 Dec-26					
MON	14 Dec-26					
TUE	15 Dec-26		Project	19:00	22:00	Self-Paced Learning
WED	16 Dec-26		Project	19:00	22:00	Self-Paced Learning
THU	17 Dec-26		Project	19:00	22:00	Self-Paced Learning
FRI	18 Dec-26		Project	19:00	22:00	Self-Paced Learning
SAT	19 Dec-26	PP	Project Presentation	09:00	12:00	NTU@One-North
SUN	20 Dec-26					
MON	21 Dec-26	PH	BREAK			
TUE	22 Dec-26	PH	BREAK			
WED	23 Dec-26	PH	BREAK			
THU	24 Dec-26	PH	Christmas Eve			
FRI	25 Dec-26	PH	Christmas Day			
SAT	26 Dec-26	PH	BREAK			
SUN	27 Dec-26	PH	BREAK			
MON	28 Dec-26	PH	BREAK			
TUE	29 Dec-26	PH	BREAK			
WED	30 Dec-26	PH	BREAK			
THU	31 Dec-26	PH	New Year Eve			
FRI	1 Jan-27	PH	New Year Day			
SAT	2 Jan-27	PH	BREAK			
SUN	3 Jan-27					
C3: BUILDING INTELLIGENT SYSTEMS: MACHINE LEARNING AND GENERATIVE AI			Key Topics: Week 1: Introduction to Machine Learning Week 2: Supervised Learning Week 3: Unsupervised Learning Week 4: Neural Network, Deep Learning and Computer Vision Week 5: Natural Language Processing	Start	End	Mode of Delivery
MON	4 Jan-27	3.1	Probability and Statistics for ML	19:00	22:00	Online Zoom
TUE	5 Jan-27		Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
WED	6 Jan-27	3.2	Introduction to Machine Learning + Capstone Briefing	19:00	22:00	Online Zoom
THU	7 Jan-27	CW	Career Workshop #3 - Connecting with Purpose: Networking for Career Transitions	19:00	22:00	Online Zoom
FRI	8 Jan-27		Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
SAT	9 Jan-27	CO	Coaching	09:00	12:00	NTU@One-North
SUN	10 Jan-27					
MON	11 Jan-27	3.3	Supervised Learning	19:00	22:00	Online Zoom
TUE	12 Jan-27		Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning

Schedule for (SCTP) Advanced Professional Certificate in Data Science and Artificial Intelligence - Cohort 7 (Part Time)

Updated: 9 Jun 26

	Date	Unit	Lesson Title	Start	End	Mode of Delivery
WED	13 Jan-27	3.4	Supervised Learning - Advanced	19:00	22:00	Online Zoom
THU	14 Jan-27		Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
FRI	15 Jan-27					
SAT	16 Jan-27	CO	Coaching	09:00	12:00	NTU@One-North
SUN	17 Jan-27					
MON	18 Jan-27	3.5	Unsupervised Learning	19:00	22:00	Online Zoom
TUE	19 Jan-27		Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
WED	20 Jan-27	3.6	Time Series Data and Forecasting	19:00	22:00	Online Zoom
THU	21 Jan-27		Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
FRI	22 Jan-27					
SAT	23 Jan-27	CO	Coaching	09:00	12:00	NTU@One-North
SUN	24 Jan-27					
MON	25 Jan-27	3.7	Neural Network & Deep Learning	19:00	22:00	Online Zoom
TUE	26 Jan-27		Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
WED	27 Jan-27	3.8	Computer Vision (CV)	19:00	22:00	Online Zoom
THU	28 Jan-27		Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
FRI	29 Jan-27					
SAT	30 Jan-27	CO	Coaching	09:00	12:00	NTU@One-North
		CW	Career Workshop #4 - Crafting the Perfect Resume: Telling Your Unique Story	13:00	16:00	NTU@One-North
SUN	31 Jan-27					
MON	1 Feb-27	3.9	Natural Language Processing (NLP)	19:00	22:00	Online Zoom
TUE	2 Feb-27		Assessment + Assignment + Pre-work	19:00	22:00	Self-Paced Learning
WED	3 Feb-27	3.10	NLP - Advanced	19:00	22:00	Online Zoom
THU	4 Feb-27					
FRI	5 Feb-27	PH	Eve of CNY			
SAT	6 Feb-27	PH	Chinese New Year Day 1			
SUN	7 Feb-27	PH	Chinese New Year Day 2			
MON	8 Feb-27	PH	Chinese New Year Day 3			
TUE	9 Feb-27	PH	BREAK			
WED	10 Feb-27	PH	BREAK			
THU	11 Feb-27					
FRI	12 Feb-27		Assignment + Module Assessment	19:00	22:00	Self-Paced Learning
SAT	13 Feb-27	CO	Coaching	09:00	12:00	NTU@One-North
SUN	14 Feb-27					
C4: AWS CERTIFIED AI PRACTITIONER						Mode of Delivery
MON	15 Feb-27		AWS Certified AI Practitioner	19:00	22:00	Online Zoom
TUE	16 Feb-27		AWS Certified AI Practitioner	19:00	22:00	Online Zoom
WED	17 Feb-27		AWS Certified AI Practitioner	19:00	22:00	Online Zoom
THU	18 Feb-27					
FRI	19 Feb-27					
SAT	20 Feb-27		AWS Certified AI Practitioner	09:00	16:00	NTU@One-North
SUN	21 Feb-27					
C5: TRANSFORMING BUSINESS WITH GPT: HANDS-ON GENERATIVE AI APPLICATIONS				Start	End	Mode of Delivery
MON	22 Feb-27		Generative AI	19:00	22:00	Online Zoom
TUE	23 Feb-27		Generative AI	19:00	22:00	Online Zoom
WED	24 Feb-27		Generative AI	19:00	22:00	Online Zoom
THU	25 Feb-27					
FRI	26 Feb-27					
SAT	27 Feb-27		Generative AI	09:00	16:00	NTU@One-North
SUN	28 Feb-27					
C6: FULL STACK PROGRAMMING AND DEPLOYMENT OF AI SOLUTIONS				Start	End	Mode of Delivery
MON	1 Mar-27					
TUE	2 Mar-27		Deployment I: Application Frameworks and Workflow Integration	19:00	22:00	Online Zoom

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WED	3 Mar-27	Deployment I: API Architecture, Design Contracts and Engineering Practices	19:00	22:00	Online Zoom
THU	4 Mar-27	Deployment I: Development Environment, Cloud Tools and Best Practices	19:00	22:00	Online Zoom
FRI	5 Mar-27				
SAT	6 Mar-27	Deployment I: UI/UX Design and Application Build Sprint	09:00	16:00	NTU@One-North
SUN	7 Mar-27	Optional Class: Capstone Project	14:00	16:00	Online Zoom
MON	8 Mar-27	Deployment II: API Integration, Data Retrieval and Application Build	19:00	22:00	Online Zoom
TUE	9 Mar-27	Deployment II: Cloud Deployment, Testing and Launch	19:00	22:00	Online Zoom
WED	10 Mar-27	Hari Raya Puasa			
THU	11 Mar-27	Career Workshop #5 - Ace the Interview and Beyond: From Preparation to Next Steps	19:00	22:00	Online Zoom
FRI	12 Mar-27	Deployment II: Agentic Project Delivery (Agile/Scrum/Tooling)	19:00	22:00	Online Zoom
SAT	13 Mar-27	Deployment II: Capstone Work Sprint	09:00	16:00	NTU@One-North
SUN	14 Mar-27	Optional Class: Capstone Project	14:00	16:00	Online Zoom

- All lecture will be facilitated Virtually unless otherwise stated
- F2F lecture will be held at NTU@one-north campus (off North Buona Vista Road)
- NTU reserves the right to change the date, mode/venue of lesson or cancel class due to unforeseen circumstances