

Schedule for (SCTP) Advanced Professional Certificate in Software Engineering - Cohort 10

Updated: 7 Feb 25

Date	Unit	Lesson Title	Start	End	Mode of Delivery
M1: Introduction to Software Development		Key Topics: Week 1: Environment Setup Week 2: Software Development Practices	Start	End	Mode of Delivery
MON	7 Apr-25	Welcome + Introduction	19:00	22:00	Online Zoom
TUE	8 Apr-25	1.1 Software Development Environment	19:00	22:00	Online Zoom
WED	9 Apr-25	Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	10 Apr-25	1.2 CLI & GIT	19:00	22:00	Online Zoom
FRI	11 Apr-25	Assignment + Quiz + Self Study	19:00	22:00	Self study
SAT	12 Apr-25	CW Career Workshop #1 - Uncover Your Next Path: Career Discovery for Mid-Career Changers	10:00	13:00	NTU
SUN	13 Apr-25				
MON	14 Apr-25				
TUE	15 Apr-25	1.3 Testing Methodologies	19:00	22:00	Online Zoom
WED	16 Apr-25	Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	17 Apr-25	1.4 Agile SCRUM	19:00	22:00	Online Zoom
FRI	18 Apr-25	PH Good Friday			
SAT	19 Apr-25	CO Coaching	10:00	13:00	NTU
SUN	20 Apr-25				
MON	21 Apr-25	Assignment + Module Quiz + Self Study	19:00	22:00	Self study
M2: Web Fundamentals with ReactJS		Key Topics: Week 1: Introduction to React JS Week 2: States and Events Week 3: Data Flow Week 4: Conditional Rendering and Routing Week 5: Backend communications and Deployment Week 6 and 7: Project creation	Start	End	Mode of Delivery
TUE	22 Apr-25	2.1 Introduction to React	19:00	22:00	Online Zoom
WED	23 Apr-25	Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	24 Apr-25	2.2 Functional Components & Props	19:00	22:00	Online Zoom
FRI	25 Apr-25	Assignment + Quiz + Self Study	19:00	22:00	Self study
SAT	26 Apr-25	CO Coaching	10:00	13:00	NTU
SUN	27 Apr-25				
MON	28 Apr-25				
TUE	29 Apr-25	2.3 React Hooks - State	19:00	22:00	Online Zoom
WED	30 Apr-25	2.4 Handling Events	19:00	22:00	Online Zoom
THU	1 May-25	PH Labour Day			
FRI	2 May-25	Assignment + Quiz + Self Study	19:00	22:00	Self study
SAT	3 May-25	CO Coaching	10:00	13:00	NTU
SUN	4 May-25				
MON	5 May-25	Assignment + Quiz + Self Study	19:00	22:00	Self study
TUE	6 May-25	2.5 Unidirectional Data Flow	19:00	22:00	Online Zoom
WED	7 May-25	Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	8 May-25	2.6A Hooks - Context	19:00	22:00	Online Zoom
FRI	9 May-25	Assignment + Quiz + Self Study	19:00	22:00	Self study
SAT	10 May-25	2.6B Hooks - Reducers + Coaching	10:00	13:00	NTU
SUN	11 May-25				
MON	12 May-25	PH Vesak Day			
TUE	13 May-25	2.7 Conditional Rendering and Lists	19:00	22:00	Online Zoom
WED	14 May-25	Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	15 May-25	2.8 React Router	19:00	22:00	Online Zoom
FRI	16 May-25	Assignment + Quiz + Self Study	19:00	22:00	Self study
SAT	17 May-25	CO Coaching	10:00	13:00	NTU
SUN	18 May-25				
MON	19 May-25	CW Career Workshop #2 - Stand Out: Building a Powerful Professional Brand	19:00	22:00	Online Zoom
TUE	20 May-25	2.9 Axios, Async and useEffect	19:00	22:00	Online Zoom
WED	21 May-25	Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	22 May-25	2.10 Schema Validation and Deployment	19:00	22:00	Online Zoom
FRI	23 May-25	Assignment + Module Quiz + Self Study	19:00	22:00	Self study
SAT	24 May-25	CO Coaching - A Peek Into Product Mgt	10:00	13:00	NTU

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Date		Unit	Lesson Title	Start	End	Mode of Delivery
SUN	25 May-25					
MON	26 May-25		Project	19:00	22:00	Self study
TUE	27 May-25	CO	Coaching for 2.9 and 2.10	19:00	22:00	Online Zoom
WED	28 May-25		Project	19:00	22:00	Self study
THU	29 May-25		Project	19:00	22:00	Self study
FRI	30 May-25		Project	19:00	22:00	Self study
SAT	31 May-25		Project	10:00	13:00	Self study
SUN	1 Jun-25					
MON	2 Jun-25		Project	19:00	22:00	Self study
TUE	3 Jun-25		Project	19:00	22:00	Self study
WED	4 Jun-25		Project	19:00	22:00	Self study
THU	5 Jun-25		Project	19:00	22:00	Self study
FRI	6 Jun-25	PP	Project Presentation	10:00	13:00	Online Zoom
SAT	7 Jun-25	PH	Hari Raya Haji			
SUN	8 Jun-25					
M3: BACKEND Fundamentals with Java Spring Boot & Database			Key Topics: Week 1: Introduction to Java Week 2: Arrays, Loops, and Methods Week 3: Object Oriented Programming Week 4: Exceptions, Logging, and Multi-threading Week 5: Introduction to Spring Boot and Maven Week 6: Components and Annotations Week 7: Database communications and Testing Week 8 to 9: Project Creation	Start	End	Mode of Delivery
MON	9 Jun-25					
TUE	10 Jun-25	3.1	Introduction to Java	19:00	22:00	Online Zoom
WED	11 Jun-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	12 Jun-25	3.2	Operators & Control Flow	19:00	22:00	Online Zoom
FRI	13 Jun-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
SAT	14 Jun-25	CO	Coaching	10:00	13:00	NTU
SUN	15 Jun-25					
MON	16 Jun-25	CW	Career Workshop #3 - Connecting with Purpose: Networking for Career Transitions	19:00	22:00	Online Zoom
TUE	17 Jun-25	3.3	Arrays & Loops	19:00	22:00	Online Zoom
WED	18 Jun-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	19 Jun-25	3.4	Methods	19:00	22:00	Online Zoom
FRI	20 Jun-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
SAT	21 Jun-25	CO	Coaching	10:00	13:00	NTU
SUN	22 Jun-25					
MON	23 Jun-25					
TUE	24 Jun-25	3.5	Class & Attributes	19:00	22:00	Online Zoom
WED	25 Jun-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	26 Jun-25	3.6	OOP - Object Oriented Programming	19:00	22:00	Online Zoom
FRI	27 Jun-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
SAT	28 Jun-25	CO	Coaching	10:00	13:00	NTU
SUN	29 Jun-25					
MON	30 Jun-25					
TUE	1 Jul-25	3.7	Exceptions Handling & Logging	19:00	22:00	Online Zoom
WED	2 Jul-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	3 Jul-25	3.8	Multi-threading	19:00	22:00	Online Zoom
FRI	4 Jul-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
SAT	5 Jul-25	CO	Coaching	10:00	13:00	NTU
SUN	6 Jul-25					
MON	7 Jul-25					
TUE	8 Jul-25	3.9	Introduction to Spring Boot	19:00	22:00	Online Zoom
WED	9 Jul-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	10 Jul-25	3.10	Dependency Manager with Maven	19:00	22:00	Online Zoom
FRI	11 Jul-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
SAT	12 Jul-25	CO	Coaching	10:00	13:00	NTU

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SUN	13 Jul-25					
MON	14 Jul-25					
TUE	15 Jul-25	3.11	Components and Annotations	19:00	22:00	Online Zoom
WED	16 Jul-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	17 Jul-25	3.12	REST Controller Annotations	19:00	22:00	Online Zoom
FRI	18 Jul-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
SAT	19 Jul-25	CO	Coaching	19:00	22:00	NTU
SUN	20 Jul-25					
MON	21 Jul-25	CW	Career Workshop #4 - Crafting the Perfect Resume: Telling Your Unique Story	19:00	22:00	Online Zoom
TUE	22 Jul-25	3.13	Entity & JPA Annotations	19:00	22:00	Online Zoom
WED	23 Jul-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	24 Jul-25	3.14	Unit Testing in Spring	19:00	22:00	Online Zoom
FRI	25 Jul-25		Assignment + Module Quiz + Self Study	19:00	22:00	Self study
SAT	26 Jul-25	CO	Coaching	10:00	13:00	NTU
SUN	27 Jul-25					
MON	28 Jul-25		Project	19:00	22:00	Self study
TUE	29 Jul-25		Project	19:00	22:00	Self study
WED	30 Jul-25		Project	19:00	22:00	Self study
THU	31 Jul-25		Project	19:00	22:00	Self study
FRI	1 Aug-25		Project	19:00	22:00	Self study
SAT	2 Aug-25		Project	10:00	13:00	Self study
SUN	3 Aug-25					
MON	4 Aug-25		Project	19:00	22:00	Self study
TUE	5 Aug-25		Project	19:00	22:00	Self study
WED	6 Aug-25		Project	19:00	22:00	Self study
THU	7 Aug-25		Project	19:00	22:00	Self study
FRI	8 Aug-25	PP	Project Presentation	10:00	13:00	Online Zoom
SAT	9 Aug-25	PH	National Day			
SUN	10 Aug-25					
M4: Introduction to DevOps		Key Topics: Week 1: Introduction to DevOps Week 2: Deployment and Monitoring Week 3: Continuous Integration and Continuous Deployment Week 4: Containerization and Branching Strategies Week 5: Project Creation		Start	End	Mode of Delivery
MON	11 Aug-25					
TUE	12 Aug-25	4.1	Introduction to DevOps	19:00	22:00	Online Zoom
WED	13 Aug-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	14 Aug-25	4.2	Branching Strategies	19:00	22:00	Online Zoom
FRI	15 Aug-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
SAT	16 Aug-25	CO	Coaching	10:00	13:00	NTU
SUN	17 Aug-25					
MON	18 Aug-25					
TUE	19 Aug-25	4.3	Cloud Native Application - Containerization I	19:00	22:00	Online Zoom
WED	20 Aug-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	21 Aug-25	4.4	Cloud Native Application - Containerization II	19:00	22:00	Online Zoom
FRI	22 Aug-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
SAT	23 Aug-25	CO	Coaching	10:00	13:00	NTU
SUN	24 Aug-25					
MON	25 Aug-25					
TUE	26 Aug-25	4.5	Continuous Integration	19:00	22:00	Online Zoom
WED	27 Aug-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	28 Aug-25	4.6	Continuous Deployment - Container	19:00	22:00	Online Zoom
FRI	29 Aug-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
SAT	30 Aug-25	CO	Coaching	10:00	13:00	NTU
SUN	31 Aug-25					
MON	1 Sep-25					
TUE	2 Sep-25	4.7	Secret Management	19:00	22:00	Online Zoom

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	Date	Unit	Lesson Title	Start	End	Mode of Delivery
WED	3 Sep-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	4 Sep-25	4.8	Case Study & Project Prep	19:00	22:00	Online Zoom
FRI	5 Sep-25		Assignment + Module Quiz + Self Study	19:00	22:00	Self study
SAT	6 Sep-25	CO	Coaching	10:00	13:00	NTU
SUN	7 Sep-25					
MON	8 Sep-25		Project	19:00	22:00	Self study
TUE	9 Sep-25		Project	19:00	22:00	Self study
WED	10 Sep-25		Project	19:00	22:00	Self study
THU	11 Sep-25		Project	19:00	22:00	Self study
FRI	12 Sep-25		Project	19:00	22:00	Self study
SAT	13 Sep-25		Project Presentation	10:00	13:00	NTU
SUN	14 Sep-25					
M5: Mobile Development with React Native			Key Topics: Week 1: Introduction to React Native Week 2: Navigation and Styling Week 3: Project Creation	Start	End	Mode of Delivery
MON	15 Sep-25					
TUE	16 Sep-25	5.1	Introduction to React Native	19:00	22:00	Online Zoom
WED	17 Sep-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	18 Sep-25	5.2	React Native Components & Layout	19:00	22:00	Online Zoom
FRI	19 Sep-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
SAT	20 Sep-25	CO	Coaching	19:00	22:00	NTU
SUN	21 Sep-25					
MON	22 Sep-25	CW	Career Workshop #5 - Ace the Interview and Beyond: From Preparation to Next Steps	19:00	22:00	Online Zoom
TUE	23 Sep-25	5.3	React Navigation	19:00	22:00	Online Zoom
WED	24 Sep-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	25 Sep-25	5.4	React Native with External Components	19:00	22:00	Online Zoom
FRI	26 Sep-25		Assignment + Module Quiz + Self Study	19:00	22:00	Self study
SAT	27 Sep-25	CO	Coaching	10:00	13:00	NTU
SUN	28 Sep-25					
MON	29 Sep-25		Project	19:00	22:00	Self study
TUE	30 Sep-25		Project	19:00	22:00	Self study
WED	1 Oct-25		Project	19:00	22:00	Self study
THU	2 Oct-25		Project	19:00	22:00	Self study
FRI	3 Oct-25		Project	19:00	22:00	Self study
SAT	4 Oct-25	PP	Project Presentation	10:00	13:00	NTU
SUN	5 Oct-25					
• 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						