

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

Updated: 12 Dec 24

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	24 Feb-25	Welcome + Introduction	19:00	22:00	Online Zoom
TUE	25 Feb-25	1.1 Software Development Environment	19:00	22:00	Online Zoom
WED	26 Feb-25	Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	27 Feb-25	1.2 CLI & GIT	19:00	22:00	Online Zoom
FRI	28 Feb-25	Assignment + Quiz + Self Study	19:00	22:00	Self study
SAT	1 Mar-25	CW Career Workshop #1 - Uncover Your Next Path: Career Discovery for Mid-Career Changers	10:00	13:00	F2F
SUN	2 Mar-25				
MON	3 Mar-25				
TUE	4 Mar-25	1.3 Testing Methodologies	19:00	22:00	Online Zoom
WED	5 Mar-25	Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	6 Mar-25	1.4 Agile SCRUM	19:00	22:00	Online Zoom
FRI	7 Mar-25	Assignment + Module Quiz + Self Study	19:00	22:00	Self study
SAT	8 Mar-25	CO Coaching	10:00	13:00	F2F
SUN	9 Mar-25				
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
MON	10 Mar-25				
TUE	11 Mar-25	2.1 Introduction to React	19:00	22:00	Online Zoom
WED	12 Mar-25	Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	13 Mar-25	2.2 Functional Components & Props	19:00	22:00	Online Zoom
FRI	14 Mar-25	Assignment + Quiz + Self Study	19:00	22:00	Self study
SAT	15 Mar-25	CO Coaching	10:00	13:00	F2F
SUN	16 Mar-25				
MON	17 Mar-25				
TUE	18 Mar-25	2.3 React Hooks - State	19:00	22:00	Online Zoom
WED	19 Mar-25	Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	20 Mar-25	2.4 Handling Events	19:00	22:00	Online Zoom
FRI	21 Mar-25	Assignment + Quiz + Self Study	19:00	22:00	Self study
SAT	22 Mar-25	CO Coaching	10:00	13:00	F2F
SUN	23 Mar-25				
MON	24 Mar-25				
TUE	25 Mar-25	2.5 Unidirectional Data Flow	19:00	22:00	Online Zoom
WED	26 Mar-25	Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	27 Mar-25	2.6A Hooks - Context	19:00	22:00	Online Zoom
FRI	28 Mar-25	Assignment + Quiz + Self Study	19:00	22:00	Self study
SAT	29 Mar-25	2.6B Hooks - Reducers + Coaching	10:00	13:00	F2F
SUN	30 Mar-25				
MON	31 Mar-25	PH Hari Raya Puasa			
TUE	1 Apr-25	2.7 Conditional Rendering and Lists	19:00	22:00	Online Zoom
WED	2 Apr-25	Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	3 Apr-25	2.8 React Router	19:00	22:00	Online Zoom
FRI	4 Apr-25	Assignment + Quiz + Self Study	19:00	22:00	Self study
SAT	5 Apr-25	CO Coaching	10:00	13:00	F2F
SUN	6 Apr-25				
MON	7 Apr-25				
TUE	8 Apr-25	2.9 Axios, Async and useEffect	19:00	22:00	Online Zoom
WED	9 Apr-25	Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	10 Apr-25	2.10 Schema Validation and Deployment	19:00	22:00	Online Zoom
FRI	11 Apr-25	Assignment + Module Quiz + Self Study	19:00	22:00	Self study

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	SAT	12 Apr-25	CO	Coaching - A Peek Into Product Mgt		10:00	13:00	F2F
	SUN	13 Apr-25						
	MON	14 Apr-25	CW	Career Workshop #2 - Stand Out: Building a Powerful Professional Brand		19:00	22:00	Online Zoom
	TUE	15 Apr-25	CO	Coaching for 2.9 and 2.10		19:00	22:00	Online Zoom
	WED	16 Apr-25		Project		19:00	22:00	Self study
	THU	17 Apr-25		Project		19:00	22:00	Self study
	FRI	18 Apr-25	PH	Good Friday				
	SAT	19 Apr-25		Project		19:00	22:00	Self study
	SUN	20 Apr-25						
	MON	21 Apr-25		Project		19:00	22:00	Self study
	TUE	22 Apr-25		Project		19:00	22:00	Self study
	WED	23 Apr-25		Project		19:00	22:00	Self study
	THU	24 Apr-25		Project		19:00	22:00	Self study
	FRI	25 Apr-25		Project		19:00	22:00	Self study
	SAT	26 Apr-25	PP	Project Presentation		10:00	13:00	F2F
	SUN	27 Apr-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	28 Apr-25						
	TUE	29 Apr-25	3.1	Introduction to Java		19:00	22:00	Online Zoom
	WED	30 Apr-25	3.2	Operators & Control Flow		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	F2F
	SUN	4 May-25						
	MON	5 May-25		Assignment + Quiz + Self Study		19:00	22:00	Self study
	TUE	6 May-25	3.3	Arrays & Loops		19:00	22:00	Online Zoom
	WED	7 May-25		Assignment + Quiz + Self Study		19:00	22:00	Self study
	THU	8 May-25	3.4	Methods		19:00	22:00	Online Zoom
	FRI	9 May-25		Assignment + Quiz + Self Study		19:00	22:00	Self study
	SAT	10 May-25	CO	Coaching		10:00	13:00	F2F
	SUN	11 May-25						
	MON	12 May-25	PH	Vesak Day				
	TUE	13 May-25	3.5	Class & Attributes		19:00	22:00	Online Zoom
	WED	14 May-25		Assignment + Quiz + Self Study		19:00	22:00	Self study
	THU	15 May-25	3.6	OOP - Object Oriented Programming		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	F2F
	SUN	18 May-25						
	MON	19 May-25						
	TUE	20 May-25	3.7	Exceptions Handling & Logging		19:00	22:00	Online Zoom
	WED	21 May-25		Assignment + Quiz + Self Study		19:00	22:00	Self study
	THU	22 May-25	3.8	Multi-threading		19:00	22:00	Online Zoom
	FRI	23 May-25		Assignment + Quiz + Self Study		19:00	22:00	Self study
	SAT	24 May-25	CO	Coaching		10:00	13:00	F2F
	SUN	25 May-25						
	MON	26 May-25	CW	Career Workshop #3 - Connecting with Purpose: Networking for Career Transitions		19:00	22:00	Online Zoom
	TUE	27 May-25	3.9	Introduction to Spring Boot		19:00	22:00	Online Zoom
	WED	28 May-25		Assignment + Quiz + Self Study		19:00	22:00	Self study
	THU	29 May-25	3.10	Dependency Manager with Maven		19:00	22:00	Online Zoom

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FRI	30 May-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
SAT	31 May-25	CO	Coaching	10:00	13:00	F2F
SUN	1 Jun-25					
MON	2 Jun-25					
TUE	3 Jun-25	3.11	Components and Annotations	19:00	22:00	Online Zoom
WED	4 Jun-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	5 Jun-25	3.12	REST Controller Annotations	19:00	22:00	Online Zoom
FRI	6 Jun-25	CO	Coaching	19:00	22:00	Online Zoom
SAT	7 Jun-25	PH	Hari Raya Haji			
SUN	8 Jun-25					
MON	9 Jun-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
TUE	10 Jun-25	3.13	Entity & JPA Annotations	19:00	22:00	Online Zoom
WED	11 Jun-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	12 Jun-25	3.14	Unit Testing in Spring	19:00	22:00	Online Zoom
FRI	13 Jun-25		Assignment + Module Quiz + Self Study	19:00	22:00	Online Zoom
SAT	14 Jun-25	CO	Coaching	10:00	13:00	F2F
SUN	15 Jun-25					
MON	16 Jun-25		Project	19:00	22:00	Self study
TUE	17 Jun-25		Project	19:00	22:00	Self study
WED	18 Jun-25		Project	19:00	22:00	Self study
THU	19 Jun-25		Project	19:00	22:00	Self study
FRI	20 Jun-25		Project	19:00	22:00	Self study
SAT	21 Jun-25		Project	10:00	13:00	Self study
SUN	22 Jun-25					
MON	23 Jun-25		Project	19:00	22:00	Self study
TUE	24 Jun-25		Project	19:00	22:00	Self study
WED	25 Jun-25		Project	19:00	22:00	Self study
THU	26 Jun-25		Project	19:00	22:00	Self study
FRI	27 Jun-25		Project	19:00	22:00	Self study
SAT	28 Jun-25	PP	Project Presentation	10:00	13:00	F2F
SUN	29 Jun-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	30 Jun-25	CW	Career Workshop #4 - Crafting the Perfect Resume: Telling Your Unique Story	19:00	22:00	Online Zoom
TUE	1 Jul-25	4.1	Introduction to DevOps	19:00	22:00	Online Zoom
WED	2 Jul-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	3 Jul-25	4.2	Branching Strategies	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	F2F
SUN	6 Jul-25					
MON	7 Jul-25					
TUE	8 Jul-25	4.3	Cloud Native Application - Containerization I	19:00	22:00	Online Zoom
WED	9 Jul-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	10 Jul-25	4.4	Cloud Native Application - Containerization II	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	F2F
SUN	13 Jul-25					
MON	14 Jul-25					
TUE	15 Jul-25	4.5	Continuous Integration	19:00	22:00	Online Zoom
WED	16 Jul-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	17 Jul-25	4.6	Continuous Deployment - Container	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	10:00	13:00	F2F

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SUN	20 Jul-25					
MON	21 Jul-25					
TUE	22 Jul-25	4.7	Secret Management	19:00	22:00	Online Zoom
WED	23 Jul-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	24 Jul-25	4.8	Case Study & Project Prep	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	F2F
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 Presentation	10:00	13:00	F2F
SUN	3 Aug-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	4 Aug-25					
TUE	5 Aug-25	5.1	Introduction to React Native	19:00	22:00	Online Zoom
WED	6 Aug-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	7 Aug-25	5.2	React Native Components & Layout	19:00	22:00	Online Zoom
FRI	8 Aug-25	CO	Coaching	19:00	22:00	Online Zoom
SAT	9 Aug-25	PH	National Day			
SUN	10 Aug-25					
MON	11 Aug-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
TUE	12 Aug-25	5.3	React Navigation	19:00	22:00	Online Zoom
WED	13 Aug-25		Assignment + Quiz + Self Study	19:00	22:00	Self study
THU	14 Aug-25	5.4	React Native with External Components	19:00	22:00	Online Zoom
FRI	15 Aug-25		Assignment + Module Quiz + Self Study	19:00	22:00	Self study
SAT	16 Aug-25	CO	Coaching	10:00	13:00	F2F
SUN	17 Aug-25					
MON	18 Aug-25	CW	Career Workshop #5 - Ace the Interview and Beyond: From Preparation to Next Steps	19:00	22:00	Online Zoom
TUE	19 Aug-25		Project	19:00	22:00	Self study
WED	20 Aug-25		Project	19:00	22:00	Self study
THU	21 Aug-25		Project	19:00	22:00	Self study
FRI	22 Aug-25		Project	19:00	22:00	Self study
SAT	23 Aug-25	PP	Project Presentation	10:00	13:00	F2F
SUN	24 Aug-25					
<ul style="list-style-type: none"> • 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 						