

Capstone Project -Intelligent Application

Session No#	Session mode	Session Details	Full time Schedule Week-Day	Duration Hrs
1	Adaptive Knowledge KN-Async	<p>IU 1: Introduction to Agile and Project Understanding</p> <p>1. Instructional contents (text)</p> <ul style="list-style-type: none"> • SDLC overview • Agile principles & mindset • Scrum framework • Product Owner • Scrum Master • Development Team • Sprint concept • Capstone project overview <p>2. Instructional contents converted to PPT</p> <p>Video/Podcast</p> <ul style="list-style-type: none"> • Software/project lifecycle • Agile vs Traditional development • Scrum roles and workflow • Capstone project problem <p>3. Instructional contents curation from third party (eLearning videos/articles)</p> <p>Videos</p> <ul style="list-style-type: none"> • Agile Foundations (LinkedIn Learning Course) <ul style="list-style-type: none"> • Learners are required to complete all e-content to develop a strong understanding of the concepts. • If clarification is required, learners should seek assistance from the AI Mentor. • Any unresolved questions related to concepts, case studies, or skills should be posted in the Teams channel for peer or mentor support. • Learners must complete formative assessments (e.g., MCQs, short-answer questions) and achieve minimum 70% score before progressing. • Auto-graded results and feedback will be provided. Learners are required to review the feedback and reattempt the assessments until minimum 70% is achieved. 	Week 1 - Before next Sync session	3
		<p>IU 1: Introduction to Agile and Project Understanding</p> <p>Concept and Demo</p> <ul style="list-style-type: none"> • Capstone project problem 		

2	Adaptive Knowledge KN-Sync	<p>Case Study</p> <p>1. Student Study Planner App</p> <p>Project Task 1</p> <ul style="list-style-type: none"> Requirements Gathering & Product Vision This session will be delivered either as a live synchronous session conducted by the instructor or through a recorded instructor-led flipped class, which learners are required to attend. During this session, the instructor will explain the case study to reinforce learners' understanding of the concepts. An overview of the assignment will be provided, outlining the requirements that learners are expected to complete. This is a mandatory session, and attendance is required to meet the 75% attendance criteria. 	1-1	3
3	Adaptive Skills Practice SK-Async	<ul style="list-style-type: none"> Upon completing the adaptive knowledge (synchronous and asynchronous) sessions, learners will be able to work on the Projects Project Task 1: Requirements Gathering & Product Vision <p>Activities</p> <ul style="list-style-type: none"> Identify user personas (student, mentor) Define problem statement Create Product Vision Board Write User Stories Create Product Backlog Prioritize features (MoSCoW) <p>Deliverables</p> <ul style="list-style-type: none"> Product Vision User Story List Initial Backlog Wireframe sketches <ul style="list-style-type: none"> If clarification is required, learners should seek assistance from the AI Mentor. If further support is needed, they may post queries in the Teams channel for peer or mentor support. After submission, learners are required to review the auto-grading results and feedback provided by the AI Mentor and iteratively refine their work until competency is achieved. 	Week 1 - 3 Before next Sync session	3

4	Adaptive Mentoring Support MS-Sync (M)	<ul style="list-style-type: none"> This is a live synchronous session conducted by the mentor to support learner queries across all modules of the qualification. <p>During this session:</p> <ul style="list-style-type: none"> The mentor will review questions posted by learners and the corresponding responses from peers related to their deliverables The mentor will address queries from attending learners across all subjects within the qualification. The objective of this session is to ensure that learners complete all pending tasks within the stipulated deadlines and score minimum 70% in each task <p>Attendance at this session is mandatory to meet the minimum 75% attendance requirement.</p>	1-2	3
5	Adaptive Mentoring Support MS-Sync (M)	<ul style="list-style-type: none"> This is a live synchronous session conducted by the mentor to support learner queries across all modules of the qualification. <p>During this session:</p> <ul style="list-style-type: none"> The mentor will review questions posted by learners and the corresponding responses from peers related to their deliverables The mentor will address queries from attending learners across all subjects within the qualification. The objective of this session is to ensure that learners complete all pending tasks within the stipulated deadlines and score minimum 70% in each task <p>Attendance at this session is mandatory to meet the minimum 75% attendance requirement.</p>	1-3	3
6	Adaptive Knowledge KN-Async	<p>IU2: Requirements Engineering & User Stories</p> <p>1. Instructional contents (text)</p> <ul style="list-style-type: none"> Functional vs Non-functional requirements Stakeholder analysis User Persona creation User Story format As a __, I want __, so that __ Acceptance criteria Product Backlog basics Sprint planning fundamentals Definition of done <p>2. Instructional contents converted to PPT video/Podcast</p> <ul style="list-style-type: none"> Requirements Gathering Convert ideas into user stories 	Week 1 - Before next Sync session	3

		<ul style="list-style-type: none"> Backlog creation <p>3. Instructional contents curation from third party (eLearning videos/articles)</p> <p>Videos</p> <ul style="list-style-type: none"> Agile Foundations (LinkedIn Learning Course) <ul style="list-style-type: none"> Learners are required to complete all e-content to develop a strong understanding of the concepts. If clarification is required, learners should seek assistance from the AI Mentor. Any unresolved questions related to concepts, case studies, or skills should be posted in the Teams channel for peer or mentor support. Learners must complete formative assessments (e.g., MCQs, short-answer questions) and achieve minimum 70% score before progressing. Auto-graded results and feedback will be provided. Learners are required to review the feedback and reattempt the assessments until minimum 70% is achieved. 		
7	Adaptive Knowledge KN-Sync	<p>IU2: Requirements Engineering & User Stories</p> <p>Concept and Demo</p> <ul style="list-style-type: none"> Requirements specification Backlog creation based on user stories <p>Case Study</p> <ol style="list-style-type: none"> Student Study Planner App <p>Project Task 2</p> <ul style="list-style-type: none"> Design & Sprint Planning <ul style="list-style-type: none"> This session will be delivered either as a live synchronous session conducted by the instructor or through a recorded instructor-led flipped class, which learners are required to attend. During this session, the instructor will explain the case study to reinforce learners' understanding of the concepts. An overview of the assignment will be provided, outlining the requirements that learners are expected to complete. This is a mandatory session, and attendance is required to meet the 75% attendance criteria. 	1-4	3
	Adaptive Skills Practice SK-Async	<ul style="list-style-type: none"> Upon completing the adaptive knowledge (synchronous and asynchronous) sessions, learners will be able to work on the Projects 	Before Sync Session	3

8		<p align="center">Project Task 2: Design & Sprint Planning</p> <p>Activities Low-fidelity UI design Define system workflow Database/data structure planning Sprint planning meeting Task breakdown</p> <p>Deliverables UI mockups Architecture diagram Sprint Backlog Definition of Done</p> <ul style="list-style-type: none"> • If clarification is required, learners should seek assistance from the AI Mentor. If further support is needed, they may post queries in the Teams channel for peer or mentor support. • After submission, learners are required to review the auto-grading results and feedback provided by the AI Mentor and iteratively refine their work until competency is achieved. 		
9	<p>Adaptive Mentoring Support MS -Sync (M)</p>	<ul style="list-style-type: none"> • This is a live synchronous session conducted by the mentor to support learner queries across all modules of the qualification. <p>During this session:</p> <ul style="list-style-type: none"> • The mentor will review questions posted by learners and the corresponding responses from peers related to their deliverables • The mentor will address queries from attending learners across all subjects within the qualification. • The objective of this session is to ensure that learners complete all pending tasks within the stipulated deadlines and score minimum 70% in each task <p>Attendance at this session is mandatory to meet the minimum 75% attendance requirement.</p>	1-5	3
10	<p>Adaptive Mentoring Support MS -Sync (M)</p>	<ul style="list-style-type: none"> • This is a live synchronous session conducted by the mentor to support learner queries across all modules of the qualification. <p>During this session:</p> <ul style="list-style-type: none"> • The mentor will review questions posted by learners and the corresponding responses from peers related to their deliverables 	2-6	3

		<ul style="list-style-type: none"> The mentor will address queries from attending learners across all subjects within the qualification. The objective of this session is to ensure that learners complete all pending tasks within the stipulated deadlines and score minimum 70% in each task <p>Attendance at this session is mandatory to meet the minimum 75% attendance requirement.</p>		
11	Adaptive Knowledge KN-Async	<p>IU3: Solution Design & Agile Planning Concepts</p> <p>IU4: Solution Testing</p> <p>1. Instructional contents (text)</p> <ul style="list-style-type: none"> Design thinking overview Wireframing concepts Basic system architecture Data flow & workflow design Test Planning <p>2. Instructional contents converted to PPT video/Podcast</p> <ul style="list-style-type: none"> Sketch UI screens Break backlog into Sprint tasks Effort estimation exercise <ul style="list-style-type: none"> Learners are required to complete all e-content to develop a strong understanding of the concepts. If clarification is required, learners should seek assistance from the AI Mentor. Any unresolved questions related to concepts, case studies, or skills should be posted in the Teams channel for peer or mentor support. Learners must complete formative assessments (e.g., MCQs, short-answer questions) and achieve minimum 70% score before progressing. Auto-graded results and feedback will be provided. Learners are required to review the feedback and reattempt the assessments until minimum 70% is achieved. 	Week 2 - Before next Sync session	3
12	Adaptive Knowledge KN-Sync	<p>IU3: Solution Design & Agile Planning Concepts</p> <p>Concept and Demo</p> <ul style="list-style-type: none"> Solution planning before development Prepare for Sprint execution <p>Case Study</p> <ol style="list-style-type: none"> Student Study Planner App <p>Project Task 3</p> <p>Core Feature Development</p>	2-7	3

		<ul style="list-style-type: none"> This session will be delivered either as a live synchronous session conducted by the instructor or through a recorded instructor-led flipped class, which learners are required to attend. During this session, the instructor will explain the case study to reinforce learners' understanding of the concepts. An overview of the assignment will be provided, outlining the requirements that learners are expected to complete. This is a mandatory session, and attendance is required to meet the 75% attendance criteria. 		
13	Adaptive Skills Practice SK-Async	<ul style="list-style-type: none"> Upon completing the adaptive knowledge (synchronous and asynchronous) sessions, learners will be able to work on the Projects <ul style="list-style-type: none"> Project Task 4: Core Feature Development <p>Activities Coding implementation Daily standups Version control usage Peer collaboration</p> <p>Deliverables Working MVP Git repository commits Sprint Review demo</p> <ul style="list-style-type: none"> If clarification is required, learners should seek assistance from the AI Mentor. If further support is needed, they may post queries in the Teams channel for peer or mentor support. After submission, learners are required to review the auto-grading results and feedback provided by the AI Mentor and iteratively refine their work until competency is achieved. 	Week 2-3 Before next Sync Session	
14	Adaptive Mentoring Support MS-Sync (M)	<ul style="list-style-type: none"> This is a live synchronous session conducted by the mentor to support learner queries across all modules of the qualification. <p>During this session:</p> <ul style="list-style-type: none"> The mentor will review questions posted by learners and the corresponding responses from peers related to their deliverables The mentor will address queries from attending learners across all subjects within the qualification. The objective of this session is to ensure that learners complete all pending tasks within the 	2-8	3

		<p>stipulated deadlines and score minimum 70% in each task</p> <p>Attendance at this session is mandatory to meet the minimum 75% attendance requirement.</p>		
15	Adaptive Mentoring Support MS -Sync (M)	<ul style="list-style-type: none"> This is a live synchronous session conducted by the mentor to support learner queries across all modules of the qualification. <p>During this session:</p> <ul style="list-style-type: none"> The mentor will review questions posted by learners and the corresponding responses from peers related to their deliverables The mentor will address queries from attending learners across all subjects within the qualification. The objective of this session is to ensure that learners complete all pending tasks within the stipulated deadlines and score minimum 70% in each task <p>Attendance at this session is mandatory to meet the minimum 75% attendance requirement.</p>	2-9	3
16	Adaptive Knowledge KN-Sync	<p>IU4: Solution Testing Concept and Demo</p> <ul style="list-style-type: none"> Development and Testing of working solution <p>Case Study</p> <ul style="list-style-type: none"> Student Study Planner App <p>Project Task 4</p> <ul style="list-style-type: none"> Enhancement & Testing <ul style="list-style-type: none"> This session will be delivered either as a live synchronous session conducted by the instructor or through a recorded instructor-led flipped class, which learners are required to attend. During this session, the instructor will explain the case study to reinforce learners' understanding of the concepts. An overview of the assignment will be provided, outlining the requirements that learners are expected to complete. <p>This is a mandatory session, and attendance is required to meet the 75% attendance criteria</p>	2-10	3
17		<ul style="list-style-type: none"> Upon completing the adaptive knowledge (synchronous and asynchronous) sessions, learners will be able to work on the Projects <p>Project Task 4 - Enhancement & Testing</p> <p>Project Task 5 - Deployment</p>		3

	Adaptive Skills Practice SK-Async	<p>Activities Functional testing User acceptance testing Bug tracking Retrospective improvements</p> <p>Deliverables Tested application Bug log Test cases Updated release version</p> <ul style="list-style-type: none"> • If clarification is required, learners should seek assistance from the AI Mentor. If further support is needed, they may post queries in the Teams channel for peer or mentor support. • After submission, learners are required to review the auto-grading results and feedback provided by the AI Mentor and iteratively refine their work until competency is achieved. 	Before Sync Session	
18	Adaptive Mentoring Support MS -Sync (M)	<ul style="list-style-type: none"> • This is a live synchronous session conducted by the mentor to support learner queries across all modules of the qualification. <p>During this session:</p> <ul style="list-style-type: none"> • The mentor will review questions posted by learners and the corresponding responses from peers related to their deliverables • The mentor will address queries from attending learners across all subjects within the qualification. • The objective of this session is to ensure that learners complete all pending tasks within the stipulated deadlines and score minimum 70% in each task <p>Attendance at this session is mandatory to meet the minimum 75% attendance requirement.</p>	3-11	3
19	Adaptive Skills Practice SK-Async	<ul style="list-style-type: none"> • Upon completing the adaptive knowledge (synchronous and asynchronous) sessions, learners will be able to work on the Projects • Project Task 5 - Deployment <p>Activities Final integration Deployment (local/cloud) Documentation Demo presentation Sprint retrospective</p>	Before Sync Session	3

		<p>Deliverables Deployed app User guide Final presentation Project reflection</p> <p>After submission, learners should refer to the auto-grading results and feedback provided by the AI Mentor and continue refining their work until they achieve competency.</p>		
20	<p>Adaptive Mentoring Support MS -Sync (M)</p>	<ul style="list-style-type: none"> This is a live synchronous session conducted by the mentor to support learner queries across all modules of the qualification. <p>During this session:</p> <ul style="list-style-type: none"> The mentor will review questions posted by learners and the corresponding responses from peers related to their deliverables The mentor will address queries from attending learners across all subjects within the qualification. The objective of this session is to ensure that learners complete all pending tasks within the stipulated deadlines and score minimum 70% in each task <p>Attendance at this session is mandatory to meet the minimum 75% attendance requirement.</p>	3-12	3
21	<p>SA-Sync</p>	<p>All the learners whoever is completed the assignments and projects will be scheduled for this summative assessment session</p> <p>Summative Assessment (Each learner)</p> <ul style="list-style-type: none"> Presentation Oral Questioning 	3-13	30 min

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