

# Develop Enterprise Applications

## Part Time

Session No#	Session mode	Session Details	Week-Day	Duration Hrs
1	EL-Async	IU 1: Introduction to Enterprise Software Development <ul style="list-style-type: none"> <li>Overview of enterprise applications</li> <li>Importance of enterprise applications in business</li> </ul> Complete MCQ	Before Sync session	3
2	FC -Sync	IU 1: Introduction to Enterprise Software Development Familiarization of software development process and technical design Explain assignment 1	1-1	3
3	AS -Sync	Complete the assignment and submit Assignment 1 - Application Design: Develop system block diagram and UML diagrams	1-2	3
	EL-Async	IU 2: Designing Enterprise Software Architecture <ul style="list-style-type: none"> <li>Key technologies and frameworks - DB Design, Spring JPA, Rest API</li> </ul> Complete MCQ	Before Sync session	3
4	FC -Sync	IU 2: Designing Enterprise Software Architecture Designing a database for the enterprise application Implementing entities and repositories using Spring Data JPA Explain assignment 2	2-3	3
5	AS -Sync	Complete the assignment and submit Assignment 2 - Application Design: Develop Backend components and API	2-4	3
6	EL-Async	IU 3: Implementing Business Logic and Integration <ul style="list-style-type: none"> <li>Components, state, and props in React</li> <li>Handling user input and events</li> <li>Introduction to React Router for navigation</li> </ul> Complete MCQ	Before Sync session	3
7	FC- Sync	IU 3: Implementing Business Logic and Integration Developing react components and webhooks Explain assignment 3	3-5	3
8	AS- Sync	Complete the assignment and submit	3-6	3

		Assignment 3 - Application Development: Create the application components and web pages based on the functionality		
9	EL-Async	IU 4: User Interface Development IU 5: Testing, Deployment, and Maintenance of Enterprise Software <ul style="list-style-type: none"> <li>Integrating Spring Boot backend with React frontend</li> <li>Consuming RESTful APIs in React</li> </ul> Complete MCQ	Before Sync session	3
10	FC-Sync	IU 4: User Interface Development IU 5: Testing, Deployment, and Maintenance of Enterprise Software Integrating front-end and back-end components and testing Explain assignment 4 & 5	4-7	3
11	AS -Sync	Complete the assignment and submit Assignment 4 - Application Development: Implement business logics and integrate the components	4-8	3
12	AS-Sync	Complete the assignment and submit Assignment 5 - Application Testing: Review the application by executing the suitable tests	5-9	3
13	PM-Sync	Explain project and project tasks <ol style="list-style-type: none"> <li>Analyze business needs to identify key features and functionalities for the enterprise application.</li> <li>Design a scalable, high-performing, and secure application architecture.</li> <li>Develop a user-friendly, visually appealing interface focused on usability and accessibility.</li> <li>Test thoroughly to ensure the application's functionality, performance, and reliability.</li> <li>Maintain the application through monitoring, troubleshooting, and continuous improvements.</li> </ol>	5-10	3
14	PI-Async	Complete task 1	Before Sync session	3
15	PI-Async	Complete task 2	Before Sync session	3
16	PI -Async	Complete task 3	Before Sync session	3
17	PM-Sync	Project Mentoring - Review the completed task and provide support for the balance tasks	6-11	3

18	PI-Async	Complete task 4	Before Assessment	3
19	PI-Async	Complete task 5. Submit project report	Before Assessment	3
21	AS-Sync	Summative Assessment (Each learner)	6-12	30 min

## Full Time

Session No#	Session mode	Session Details	Week-Day	Duration Hrs
1	EL-Async	IU 1: Introduction to Enterprise Software Development <ul style="list-style-type: none"> <li>Overview of enterprise applications</li> <li>Importance of enterprise applications in business</li> </ul> Complete MCQ	1-1	3
2	FC -Sync	IU 1: Introduction to Enterprise Software Development Familiarization of software development process and technical design Explain assignment 1	1-2	3
3	AS -Sync	Complete the assignment and submit Assignment 1 - Application Design: Develop system block diagram and UML diagrams	1-3	3
	EL-Async	IU 2: Designing Enterprise Software Architecture <ul style="list-style-type: none"> <li>Key technologies and frameworks - DB Design, Spring JPA, Rest API</li> </ul> Complete MCQ	1-4	3
4	FC -Sync	IU 2: Designing Enterprise Software Architecture Designing a database for the enterprise application Implementing entities and repositories using Spring Data JPA Explain assignment 2	1-5	3
5	AS -Sync	Complete the assignment and submit Assignment 2 - Application Design: Develop Backend components and API	2-6	3
6	EL-Async	IU 3: Implementing Business Logic and Integration <ul style="list-style-type: none"> <li>Components, state, and props in React</li> <li>Handling user input and events</li> </ul>	2-7	3

		<ul style="list-style-type: none"> <li>Introduction to React Router for navigation</li> </ul> Complete MCQ		
7	FC- Sync	IU 3: Implementing Business Logic and Integration Developing react components and webhooks Explain assignment 3	2-8	3
8	AS- Sync	Complete the assignment and submit Assignment 3 - Application Development: Create the application components and web pages based on the functionality	2-9	3
9	EL-Async	IU 4: User Interface Development IU 5: Testing, Deployment, and Maintenance of Enterprise Software <ul style="list-style-type: none"> <li>Integrating Spring Boot backend with React frontend</li> <li>Consuming RESTful APIs in React</li> </ul> Complete MCQ	2-10	3
10	FC-Sync	IU 4: User Interface Development IU 5: Testing, Deployment, and Maintenance of Enterprise Software Integrating front-end and back-end components and testing Explain assignment 4 & 5	3-11	3
11	AS -Sync	Complete the assignment and submit Assignment 4 - Application Development: Implement business logics and integrate the components	3-12	3
12	AS-Sync	Complete the assignment and submit Assignment 5 - Application Testing: Review the application by executing the suitable tests	3-13	3
13	PM-Sync	Explain project and project tasks <ol style="list-style-type: none"> <li>Analyze business needs to identify key features and functionalities for the enterprise application.</li> <li>Design a scalable, high-performing, and secure application architecture.</li> <li>Develop a user-friendly, visually appealing interface focused on usability and accessibility.</li> <li>Test thoroughly to ensure the application's functionality, performance, and reliability.</li> <li>Maintain the application through monitoring, troubleshooting, and continuous improvements.</li> </ol>	3-14	3
14	PI-Async	Complete task 1	3-15	3

15	PI-Async	Complete task 2	4-16	3
16	PI -Async	Complete task 3	4-17	3
17	PM-Sync	Project Mentoring - Review the completed task and provide support for the balance tasks	4-18	3
18	PI-Async	Complete task 4	4-19	3
19	PI-Async	Complete task 5. Submit project report	4-20	3
21	SA-Sync	Summative Assessment (Each learner)	5-21	30 min

*EL-E-Learning*

*FC-Flipped Class*

*AS-Assignment*

*PM-Project Mentoring*

*PI-Project Implementation*

*AP-Additional Practice*

*SA-Summative Assessment*

*Sync- Synchronous Session*

*Async- Asynchronous Session*