Data & AI (T5)					
Topic/Module	**Sub Topics**		**Session Day**	**Session Date**		**Remarks**
Python Fullstack	Intro to Python, scripting basics, setup, syntax, variables, and data types hands-on exercises + mini project	0.9	Day 21	19-Jan-2026	Monday	
	Connect with participants	0.1	Day 21	19-Jan-2026	Monday	
	Operators, conditional statements, and loops hands-on exercises + mini project	0.9	Day 22	20-Jan-2026	Tuesday	
	Connect with trainers	0.1	Day 22	20-Jan-2026	Tuesday	
	Functions, recursion, lambda, and modular programming hands-on exercises + mini project	1	Day 23	21-Jan-2026	Wednesday	
	Regex, file handling, and exception management hands-on exercises + mini project	1	Day 24	22-Jan-2026	Thursday	
	Mini project: File parser and automation script hands-on exercises + mini project	0.8	Day 25	23-Jan-2026	Friday	
	Internal Assessment/BU (Client) Connect Session/Virtual Batch Connect/Skill Check Gamification	0.2	Day 25	23-Jan-2026	Friday	
	Learning Activities			24-Jan-2026	Saturday	
Holiday				25-Jan-2026	Sunday	
Holiday				26-Jan-2026	Monday	Republic Day
Python Fullstack	Classes, objects, inheritance, encapsulation, and polymorphism hands-on exercises + mini project	0.9	Day 26	27-Jan-2026	Tuesday	
	Connect with participants	0.1	Day 26	27-Jan-2026	Tuesday	
	Modules, packages, decorators, and iterators hands-on exercises + mini project	0.9	Day 27	28-Jan-2026	Wednesday	
	Connect with trainers	0.1	Day 27	28-Jan-2026	Wednesday	
	Threading, multiprocessing, and performance optimization hands-on exercises + mini project	1	Day 28	29-Jan-2026	Thursday	
	NumPy and Pandas essentials with data manipulation hands-on exercises + mini project	0.8	Day 29	30-Jan-2026	Friday	
	Internal Assessment/BU (Client) Connect Session/Virtual Batch Connect/Skill Check Gamification	0.2	Day 29	30-Jan-2026	Friday	
	Learning Activities			31-Jan-2026	Saturday	
Holiday				1-Feb-2026	Sunday	
Python Fullstack	Flask basics, routing, and templates hands-on exercises + mini project	0.9	Day 30	2-Feb-2026	Monday	
	Connect with participants	0.1	Day 30	2-Feb-2026	Monday	
	FastAPI introduction and RESTful endpoints hands-on exercises + mini project	0.9	Day 31	3-Feb-2026	Tuesday	
	Connect with trainers	0.1	Day 31	3-Feb-2026	Tuesday	
	API testing with Postman and Git version control hands-on exercises + mini project	0.5	Day 32	4-Feb-2026	Wednesday	
	BU Campus Connect	0.5	Day 32	4-Feb-2026	Wednesday	
	Deployment basics and error handling in APIs hands-on exercises + mini project	1	Day 33	5-Feb-2026	Thursday	
	Unit testing with Pytest and CI/CD pipelines hands-on exercises + mini project	0.8	Day 34	6-Feb-2026	Friday	
	Internal Assessment/BU (Client) Connect Session/Virtual Batch Connect/Skill Check Gamification	0.2	Day 34	6-Feb-2026	Friday	
	Learning Activities			7-Feb-2026	Saturday	
Holiday				8-Feb-2026	Sunday	
Python Fullstack	GitHub Actions and automation hands-on exercises + mini project	0.9	Day 35	9-Feb-2026	Monday	
	Connect with participants	0.1	Day 35	9-Feb-2026	Monday	
	Docker basics and containerization hands-on exercises + mini project	0.9	Day 36	10-Feb-2026	Tuesday	
	Connect with trainers	0.1	Day 36	10-Feb-2026	Tuesday	
	SQL databases and CRUD operations hands-on exercises + mini project	1	Day 37	11-Feb-2026	Wednesday	
	NoSQL (MongoDB), ORM, and JSON parsing hands-on exercises + mini project	1	Day 38	12-Feb-2026	Thursday	
	Database testing and integration exercises hands-on exercises + mini project	0.8	Day 39	13-Feb-2026	Friday	
	Internal Assessment/BU (Client) Connect Session/Virtual Batch Connect/Skill Check Gamification	0.2	Day 39	13-Feb-2026	Friday	
	Learning Activities			14-Feb-2026	Saturday	
Holiday				15-Feb-2026	Sunday	
Python Fullstack	Capstone: Build and deploy Python web API project hands-on exercises + mini project	0.9	Day 40	16-Feb-2026	Monday	
	Connect with participants	0.1	Day 40	16-Feb-2026	Monday	
	Intro to Data Science, Pandas, NumPy, and Matplotlib guided labs	0.9	Day 41	17-Feb-2026	Tuesday	
	Connect with trainers	0.1	Day 41	17-Feb-2026	Tuesday	
	Descriptive statistics and probability basics guided labs	1	Day 42	18-Feb-2026	Wednesday	

Category	Topic	Value	Day	Date	Weekday	Notes
Python ML / DL	Exploratory Data Analysis with Python guided labs	1	Day 43	19-Feb-2026	Thursday	
	Regression models – Linear & Multiple regression guided labs	0.8	Day 44	20-Feb-2026	Friday	
	Internal Assessment/BU (Client) Connect Session/Virtual Batch Connect/Skill Check Gamification	0.2	Day 44	20-Feb-2026	Friday	
	Learning Activities			21-Feb-2026	Saturday	
	Holiday			**22-Feb-2026**	**Sunday**	
Python ML / DL	Classification models – Logistic regression, KNN, Decision Trees guided labs	1	Day 45	23-Feb-2026	Monday	
	Connect with participants	1	Day 45	23-Feb-2026	Monday	
	Clustering techniques – KMeans, DBSCAN, Hierarchical clustering guided labs	1	Day 46	24-Feb-2026	Tuesday	
	Connect with trainers		Day 46	24-Feb-2026	Tuesday	
	Python Fullstack + Python ML / DL + GenAI / Agentic Module Assessment (M1)	**0.5**	**Day 47**	**25-Feb-2026**	**Wednesday**	
	Model evaluation and pipelines using scikit-learn guided labs	0.5	Day 47	25-Feb-2026	Wednesday	
	Intro to Neural Networks and Deep Learning guided labs	1	Day 48	26-Feb-2026	Thursday	
	CNN fundamentals with TensorFlow/Keras guided labs	1	Day 49	27-Feb-2026	Friday	
	Internal Assessment/BU (Client) Connect Session/Virtual Batch Connect/Skill Check Gamification	1	Day 49	27-Feb-2026	Friday	
	Learning Activities			28-Feb-2026	Saturday	
	Holiday			**1-Mar-2026**	**Sunday**	
Python ML / DL	Image classification mini-project with OpenCV guided labs	0.9	Day 50	2-Mar-2026	Monday	
	Connect with participants	0.1	Day 50	2-Mar-2026	Monday	
GenAI / Agentic	Generative AI basics, prompt engineering, and embeddings use-case development	0.9	Day 51	3-Mar-2026	Tuesday	
	Connect with trainers	0.1	Day 51	3-Mar-2026	Tuesday	
	Holiday			**4-Mar-2026**	**Wednesday**	Holi
GenAI / Agentic	Vector databases and retrieval-augmented generation (RAG) use-case development	0.5	Day 52	5-Mar-2026	Thursday	
	BU Campus Connect	**0.5**	**Day 52**	**5-Mar-2026**	**Thursday**	
	Transformers and model fine-tuning introduction use-case development	0.8	Day 53	6-Mar-2026	Friday	
	Internal Assessment/BU (Client) Connect Session/Virtual Batch Connect/Skill Check Gamification	0.2	Day 53	6-Mar-2026	Friday	
	Learning Activities/Module Improvement Assessment			**7-Mar-2026**	**Saturday**	
	Holiday			**8-Mar-2026**	**Sunday**	
GenAI / Agentic	LangGraph, CrewAI, and Autogen orchestration use-case development	0.9	Day 54	9-Mar-2026	Monday	
	Connect with participants	0.1	Day 54	9-Mar-2026	Monday	
	Building agents in Copilot Studio with GPT-powered flows use-case development	0.9	Day 55	10-Mar-2026	Tuesday	
	Connect with trainers	0.1	Day 55	10-Mar-2026	Tuesday	
	Model Context Protocol (MCP), SDKs, and connectors use-case development	1	Day 56	11-Mar-2026	Wednesday	
Azure AI	Azure AI & Cloud overview, AI Studio setup, and compliance Azure portal practice	1	Day 57	12-Mar-2026	Thursday	
	Azure OpenAI API and custom model deployment Azure portal practice	0.8	Day 58	13-Mar-2026	Friday	
	Internal Assessment/BU (Client) Connect Session/Virtual Batch Connect/Skill Check Gamification	0.2	Day 58	13-Mar-2026	Friday	
	Learning Activities			14-Mar-2026	Saturday	
	Holiday			**15-Mar-2026**	**Sunday**	
Azure AI	Cognitive Services – Azure Bot and Document Intelligence Azure portal practice	0.9	Day 59	16-Mar-2026	Monday	
	Connect with participants	0.1	Day 59	16-Mar-2026	Monday	
	MLOps lifecycle and monitoring with Azure ML Azure portal practice	0.9	Day 60	17-Mar-2026	Tuesday	
	Connect with trainers	0.1	Day 60	17-Mar-2026	Tuesday	
	Enterprise deployment with Azure AI Foundry Azure portal practice	1	Day 61	18-Mar-2026	Wednesday	
	Holiday			**19-Mar-2026**	**Thursday**	
Azure Data Engineering & Analytics	Azure Data Factory – pipelines, triggers, and monitoring data visualization tasks	1	Day 62	20-Mar-2026	Friday	
	Internal Assessment/BU (Client) Connect Session/Virtual Batch Connect/Skill Check Gamification	0.2	Day 63	20-Mar-2026	Friday	
	Holiday			**21-Mar-2026**	**Saturday**	
	Holiday			**22-Mar-2026**	**Sunday**	
	PySpark basics – RDDs, DataFrames, and Spark SQL data visualization tasks	0.8	Day 63	23-Mar-2026	Monday	
	Connect with participants	0.1	Day 64	23-Mar-2026	Monday	

Azure Data Engineering & Analytics	Microsoft Fabric – Lakehouse, OneLake, and real-time analytics data visualization tasks	0.9	Day 64	24-Mar-2026	Tuesday	
	Connect with trainers	0.1	Day 65	24-Mar-2026	Tuesday	
	Power BI – Data modelling, DAX, and dashboards data visualization tasks	0.9	Day 65	25-Mar-2026	Wednesday	
Holiday				26-Mar-2026	Thursday	
Capstone & Assessment	Project kickoff – problem statement and team setup Mentored project + evaluation + feedback session	1	Day 66	27-Mar-2026	Friday	
	Internal Assessment/BU (Client) Connect Session/Virtual Batch Connect/Skill Check Gamification	0.2	Day 68	27-Mar-2026	Friday	
	Learning Activities			28-Mar-2026	Saturday	
Holiday				29-Mar-2026	Sunday	
Capstone & Assessment	Build AI-powered chatbot using GenAI APIs Mentored project + evaluation + feedback session	1	Day 67	30-Mar-2026	Monday	
	Connect with participants	0.1	Day 69	30-Mar-2026	Monday	
	Integrate analytics and reporting via Power BI Mentored project + evaluation + feedback session	0.8	Day 69	31-Mar-2026	Tuesday	
	Connect with trainers	0.1	Day 70	31-Mar-2026	Tuesday	
	Deploy solution on Azure with CI/CD pipeline Mentored project + evaluation + feedback session	0.9	Day 70	1-Apr-2026	Wednesday	
	Final project review and Python/AI assessment test Mentored project + evaluation + feedback session	0.9	Day 70	2-Apr-2026	Thursday	
L1	L1 Preparation	1	Day 71	3-Apr-2026	Friday	
	Learning Activities			4-Apr-2026	Saturday	
Holiday				5-Apr-2026	Sunday	
L1	L1 Assessment	1	Day 72	6-Apr-2026	Monday	
Revision	Revision + Sprint Implementation	0.9	Day 73	7-Apr-2026	Tuesday	1st April to 9th April
	Connect with participants	0.1	Day 73	7-Apr-2026	Tuesday	
	Revision + Sprint Implementation	0.9	Day 74	8-Apr-2026	Wednesday	
	Connect with trainers	0.1	Day 74	8-Apr-2026	Wednesday	
	Revision + Sprint Implementation	0.5	Day 75	9-Apr-2026	Thursday	
	BU Campus Connect	0.5	Day 75	9-Apr-2026	Thursday	
	Revision + Sprint Implementation	1	Day 76	10-Apr-2026	Friday	
	Learning Activities			11-Apr-2026	Saturday	
Holiday				12-Apr-2026	Sunday	
Revision	Revision + Sprint Implementation	0.9	Day 77	13-Apr-2026	Monday	
	Connect with participants	0.1	Day 77	13-Apr-2026	Monday	
Holiday				14-Apr-2026	Tuesday	
Revision	Revision + Sprint Implementation	0.9	Day 78	15-Apr-2026	Wednesday	
	Connect with trainers	0.1	Day 78	15-Apr-2026	Wednesday	
	Revision + Sprint Implementation	1	Day 79	16-Apr-2026	Thursday	
Sprint	Sprint Evaluation	1	Day 80	17-Apr-2026	Friday	