Course Structure and Synopsis of Proposed Modules for Work-Study Diploma in AI & Data Intelligence (AI Specialisation)

S/N	Module	Hours
1	Programming for Data & Al	100
	On completion of the module, trainees should be able to develop program codes by creating program logic, writing program codes and debugging program.	
2	AI Governance	100
	On completion of the module, trainees should be able to manage compliance to data and AI governance processes, as well as mitigate non-compliance incidents.	
3	Advanced Data Insights On completion of the module, trainees should be able to perform data processing, analysis and visualisation using data analytics tools.	100
4	Data Preparation & Feature EngineeringOn completion of the module, trainees should be able to inspectdata quality and perform feature extraction, as well as preparetrain-test-validate subsets for model building.	100
5	Al Model Design & Development	100
	On completion of the module, trainees should be able to build and fine-tune AI models according to AI model requirements.	
6	Machine Learning PipelineOn completion of the module, trainees should be able to developML pipeline workflow by designing and automating pipeline	100
	workflow, as well as debugging workflow issues.	
7	Al Operations On completion of the module, trainees should be able to design and deploy Al operation, as well as evaluate performance metrics.	100
8	Al Solution Design & Development On completion of the module, trainees should be able to address a problem statement through Al solution development. They should also be able to deploy Al model or pipeline workflow and implement ML system.	100
9	Company Project	100
	On completion of the module, trainees should have applied their acquired competencies in an authentic project that would value-add to the company.	
10	On-the-Job Training On completion of the module, trainees should be able to apply the skills and knowledge acquired at ITE College and workplace to take on the full job scope, including supervisory function where appropriate, at the company.	3100