

**Advanced Certificate Course – HPC (AI), August 2025 Batch**
**EVALUATION SCHEME**

Module Code	Module Name	Hours			No. of questions in Theory Exams	Marks			
		Theory	Lab	Total		Theory	Lab	IA	Marks
B2001C	Linux & Operating System	24	24	48	Linux=20 OS=20	40	40	20	100
T1001C	HPC Architecture	24	24	48	HPC=40	40	40	20	100
B1001C	Software Programming Concepts	120	90	210	C++ & Parallel Programming =20 Python & Parallel Programming =20 C & Data Structure=20	60	60	20	140
B2002C	Computer Networks & Interconnects	24	24	48	CN=35 GPFS=5	40	40	20	100
B2003C	Cloud Computing & Operational Deployment Strategies	24	24	48	Cloud Computing=40	40	40	20	100
B1002C	Advanced HPC Programming	36	36	72	OpenACC=10 OpenCL=10 CUDA =10 Profiling & Debugging=10	40	40	20	100
B1003C	Introduction to ML, DL, and OpenVino	24	24	48	ML, DL=40	40	40	20	100
B1004C	Statistical analysis and data handling using Python	24	24	48	Statistical Analysis & Data handling =40	40	40	20	100
	Employability Skills: (Aptitude & Effective Communication)	50		50				50 (grade)	Grade
	Project	--	100	100	--		--	(100)	Grade
	<b>Total</b>	<b>350</b>	<b>370</b>	<b>720</b>		<b>340</b>	<b>340</b>	<b>160</b>	<b>840</b>