SCHEME OF CURRICULUM AND EVALUATION

B.Sc. Hons. CS (AIDA) ONLINE DEGREE PROGRAM

FIRST SEMESTER

Course No	Course Code	Category	Course Titles	Credits	Total Hours	Lecture	Practical	Continuous Internal Assessment Max (min)	End Semester Assessment Max (min)	Grand Total Max (Min)
1.	MTH24OCT01	CT	Mathematics	3	90	90	0	30	70(35)	100(50)
2.	CDS24OCT01	CT	Fundamentals of Computer Science	3	90	90	0	30	70(35)	100(50)
3.	CDS24OCT02	CT	C Programming	4	120	90	30	30	70(35)	100(50)
4.	CDS24OCT13	CT	Web Programming	4	120	90	30	30	70(35)	100(50)
5.	ENG24OCT01	CT	Communicative English	3	90	90	0	30	70(35)	100(50)
6.	CDS24OAE01	AE	Professional Competency Development – I	1	30	30	0	100(50)	-	100(50)
7.	ENV24OAE01	AE	Environmental Science	2	60	60	0	100(50)	-	100(50)
			TOTAL	20	600	540	60			

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SECOND SEMESTER

Course No	Course Code	Category	Course Titles	Credits	Total Hours	Lecture	Practical	CIA Max (min)	EST Max (min)	Grand Total Max (Min)
8	MTH24OCT02	CT	Statistics	3	90	90	0	30	70(35)	100(50)
9	CDS24OCT03	CT	Data Structures and Algorithms	4	120	90	30	30	70(35)	100(50)
10	CDS24OCT04	CT	Python Programming	4	120	90	30	30	70(35)	100(50)
11	CDS24OCT10	CT	Software Engineering	4	120	90	30	30	70(35)	100(50)
12	CDS24OAE02	AE	Universal Human Values and Professional Ethics	2	60	60	0	100(50)	-	100(50)
13	CDS24OAE03	AE	Professional Competency Development – II	1	30	30	0	100(50)	-	100(50)
14	CDS24OAE04	AE	Professional Coding Practice – I	1	30	-	30	100(50)	-	100(50)
15	O0725OSE01	SL	To be Chosen	1	30	-	30	100(50)	-	100(50)
			TOTAL	**20**	**600**	**450**	**150**			

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THIRD SEMESTER

Course No	Course Code	Category	Course Titles	Credits	Total Hours	Lecture	Practical	Continuous Internal assessment Max (min)	End Semester Assessment Max (min)	Grand Total Max (Min)
16	MTH24OCT03	CT	Discrete Mathematics	3	90	90	0	30	70(35)	100(50)
17	CDS24OCT06	CT	Computer Systems	3	90	90	0	30	70(35)	100(50)
18	CDS24OCT08	CT	Data Visualization Tools and Techniques	4	120	90	30	30	70(35)	100(50)
19	CAD25OCT01	CT	Artificial Intelligence	4	120	90	30	30	70(35)	100(50)
20	CDS24OAE05	AE	Professional Competency Development – III	1	30	30	0	100(50)	-	100(50)
21	CDS24OAE06	AE	Professional coding Practice – II	1	30	-	30	100(50)	-	100(50)
22	O0725OSE02	SL	To be Chosen	1	30	-	30	100(50)	-	100(50)
23	CAD25ORP01	RP	Mini Project – I *	3	90	-	90	100(50)	-	100(50)
			TOTAL	20	600	390	210	520	280	800

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FOURTH SEMESTER

Course No	Course Code	Category	Course Titles	Credits	Total Hours	Lecture	Practical	Continuous Internal assessment Max (min)	End Semester Assessment Max (min)	Grand Total Max (Min)
24	CDS24OCT09	CT	Machine Learning	4	120	90	30	30	70(35)	100(50)
25	CDS24OCT11	CT	Database Systems	4	120	90	30	30	70(35)	100(50)
26	CAD25OCT02	CT	Data Analytics	4	120	90	30	30	70(35)	100(50)
27	CDS24OAE07	AE	Professional Competency Development – IV	1	30	30	0	100(50)	-	100(50)
28	CDS24OAE08	AE	Professional Coding Practice - III	1	30	-	30	100(50)	-	100(50)
29	CDS24OCL01	CL	Hands on C++ Laboratory	2	60	-	60	100(50)	-	100(50)
30	CAD25OCL01	CL	R Programming Laboratory	3	90	-	90	100(50)	-	100(50)
31	O0725OSE03	SL	To be Chosen	1	30	-	30	100(50)	-	100(50)
			TOTAL	**20**	**600**	**300**	**300**	**590**	**210**	**800**

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FIFTH SEMESTER

Course No	Course Code	Category	Course Titles	Credits	Total Hours	Lecture	Practical	Continuous Internal assessment Max (min)	End Semester Assessment Max (min)	Grand Total Max (Min)
32	CDS24OCT14	CT	Artificial Neural Networks and Deep Learning	4	120	90	30	30	70(35)	100(50)
33	CDS24OCT15	CT	Data Storage and Organization	4	120	90	30	30	70(35)	100(50)
34	O0725ODE01	DE	Specialization Elective Course 1– To be Chosen	4	120	90	30	30	70(35)	100(50)
35	O0725ODE02	DE	Specialization Elective Course 2 – To be Chosen	4	120	90	30	30	70(35)	100(50)
36	O0725OSE04	SL	To be Chosen	1	30	-	30	100(50)	-	100(50)
37	CAD25ORP02	RP	Mini Project – II*	3	90	-	90	100(50)	-	100(50)
			Total	20	600	360	240	320	280	600

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SIXTH SEMESTER

Course No	Course Code	Category	Course Titles	Credits	Total Hours	Lecture	Tutorial	Practical	Continuous Internal assessment Max (min)	End Semester Assessment Max (min)	Grand Total Max (Min)
38.	CDS24OCT16	CT	Business Analytics	3	90	90	-	0	30	70(35)	100(50)
39.	CAD25OCT03	CT	Deep Learning Applications	4	120	90	-	30	30	70(35)	100(50)
40.	O0725ODE03	DE	Specialization Elective Course 3–To be Chosen	3	90	60	-	30	30	70(35)	100(50)
41.	O0725ODE04	DE	Specialization Elective Course 4–To be Chosen	4	120	90	-	30	30	70(35)	100(50)
42.	CAD25ORP03	RP	Major Project	6	180	-	-	180	100(50)	-	100(50)
			Total	20	600	330		270(35)	220	280	500
								Total Credit after 3 years			120

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SEVENTH SEMESTER

Course No	Course Code	Category	Course Titles	Credits	Total Hours	Lecture	Tutorial	Practical	Continuous Internal assessment Max (min)	End Semester Assessment Max (min)	Grand Total Max (Min)
43	O0725ODE05	DE	Specialization Elective Course – To be Chosen	4	120	90	-	30	30	70(35)	100(50)
44	O0725ODE06	DE	Specialization Elective Course – To be Chosen	4	120	90	-	30	30	70(35)	100(50)
45	CAD25ORP04	RP	Research Project I	12	360		-	360	100(50)		100(50)
			Total	20	600	180		420	160	140	300

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EIGHTH SEMESTER

Course No	Course Code	Category	Course Titles	Credits	Total Hours	Lecture	Tutorial	Practical	Continuous Internal assessment Max (min)	End Semester Assessment Max (min)	Grand Total Max (Min)
47	O0725ODE07	DE	Specialization Elective Course –To be Chosen	4	120	90	-	30	30	70(35)	100(50)
48	O0725ODE08	DE	Specialization Elective Course –To be Chosen	4	120	90	-	30	30	70(35)	100(50)
49	CAD25ORP05	RP	Research Project II	12	360		-	360	100(50)		100(50)
			Total	20	600	180		420	160	140	300

S.No.	SPECIALISATION ELECTIVE COURSES (DE)		SKILL ENHANCEMENT COURSES (SL)	
1	Big Data Analytics	CAD25ODE01	Advanced Excel	CDS24OSL01
2	Predictive Analytics	CDS24ODE02	Deep Learning Models using Tensor flow	CAD25OSL01
3	Time series Analysis	CDS24ODE03	DevOps for Software Development	CDS24OSL03
4	Computer Vision	CDS24ODE04	Flutter tool for web development	CDS24OSL04
5	Generative AI	CDS24ODE05	Tableau for Data Visualization	CDS24OSL05
6	Clinical Decision Support Systems	CDS24ODE06	Shell Scripting	CDS24OSL06
7	Natural Language Processing	CDS24ODE07	Agile project management	CDS24OSL07
8	Machine Learning App Development	CAD25ODE02	Advanced SQL	CDS24OSL08
9	Reinforcement Learning	CDS24ODE09	Jamovi for Statistical Analysis	CDS24OSL09
10	Cryptography	CDS24ODE10	Web Scraping Tool	CDS24OSL10
11	Internet of Things	CAD25ODE03	PySpark for Data Analysis	CDS24OSL11
12	Object Oriented Programming with Java	CDS24ODE12	Microsoft Azure AI Platform for AI based application development	CDS24OSL12
			Power BI	CDS24OSL13