

SAMRAT ASHOK TECHNOLOGICAL INSTITUTE VIDISHA (M.P.)
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV
Bhopal)

Department Of Information Technology
Programme AIADS
Scheme-2023-24

Abbreviations: ES -End Semester, MS- Mid Semester, LW- Laboratory Work/Assignment. (L: Lecture, T: Tutorial, P: Practical)
BSC- Basic Science Course, ESC- Engineering Science Course, HSMC- Humanities Science and Management Course, MAC- Mandatory, Audit Course, AC- Audit Course,
HEC- Holistic Education Courses: NSS/NCC/NSO, ITC- Information Technology Course, ILC-Institute Level Course, DC- Department Course, DE-Department Elective, OC-
Open Course, DLC- Department Laboratory, PROJ- Project Work, VA-Value Added Course

Department Of Information Technology

Structure of Undergraduate Engineering Program					
S.No.	Category	Subject Category	Suggested Breakup of Credits (Total 160)	Possible list of subjects	Approx. Credits (Total 160)
1	Humanities and Social Sciences including Management courses	HSMC	12*	English, Environmental Science, Management Concepts and Principles, Organisation behaviors, Project Management, Ethics, Stress Management, Human resource Management, Financial Management, Marketing Management, Project Management, IPR.	10-12
2	Basic Science courses	BSC	25*	Applied Physics, Applied Chemistry, Engineering Mathematics (M-1, M-2, M-3)	20-22
3	Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc.	ESC	24*	Basic Electrical Engineering, Engineering Graphics & Design, Engineering materials, Manufacturing Practices, Strength of Materials / Mechanics of Materials. Introduction to Computer Science, Basic of Information Technology. Engineering Electronics, Digital Design, Programming for Problem Solving,	20-24
4	Professional core courses	PCC	48*	Specific to Departments	48-50
5	Professional Elective courses relevant to chosen specialization/branch	PEC	18*	Specific to Departments	18-20
6	Open subjects – Electives from other technical and /or emerging subjects	OEC	18*	Specific to Departments	18-20
7	Project work, seminar and internship in industry or elsewhere	PROJ	15*	Specific to Departments	15-20
8	Mandatory Courses [Environmental Sciences, Induction training, Indian Constitution, Essence of Indian Traditional Knowledge]	MC	[Non-Credit]		
Total Credits			160*		
NPTEL/SWAYAM Courses Certification			20* (Max.)		


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Department Of Information Technology

Mandatory Induction Program for first year students (Three Weeks duration)	<ul style="list-style-type: none">• Physical activity• Creative Arts• Universal Human Values• Literary• Proficiency Modules• Lectures by Eminent People• Visits to local Areas• Familiarization to Dept./Branch & Innovations	
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Department Of Information Technology

		SAMRAT ASHOK TECHNOLOGICAL INSTITUTE VIDISHA (M.P.) (A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV Bhopal)												
		Scheme of Examination (Semester-I)												
		for Batch Admitted in session - 2022-23												
		Bachelor of Technology (B. Tech.) – Artificial Intelligence and Data Science												
Subject Code	Subject Category	Subject Name	Maximum Marks Allotted								Contact Hrs.			Total Credits
			Theory				Practical			Total Marks	L	T	P	
			ES	MS	Assignment	Quiz	ES	LW	Quiz					
CHB101	BSC	Applied Chemistry	60	20	10	10	30	10	10	150	3	0	2	4
CSA101	ESC	Introduction to Computer Science Engineering	60	20	10	10	30	10	10	150	3	0	2	4
HUB102	HSMC	Communication and Report Writing	60	20	10	10	30	10	10	150	3	0	2	4
CSA102	ESC	Digital Electronics	60	20	10	10	—	—	—	100	3	0	0	3
MAB101	BSC	Linear Algebra and Calculus	60	20	10	10	—	—	—	100	3	1	0	4
MAC101	MAC*	Universal Human Values and Professional Ethics	—	—		—	60	20	20	100	0	0	2	Grade
ILC100	ILC	Extracurricular Activities	It is a one credit per year activity endorse in eight semester marksheet											
Total			300	100	50	50	150	50	50	750	15	1	6	19
MST: Minimum two mid semester tests to be conducted during Semester, MAC: Mandatory courses classes will be conducted in off hours (Weekends)														


MAC	Induction Program	Non-Credit
HEC	NSS/NCC/NSO	Non-Credit



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 Department Laboratory, PROJ- Project Work

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		Scheme of Examination (Semester-II)												
		for Batch Admitted in session - 2022-23												
		Bachelor of Technology (B. Tech.) – Artificial Intelligence and Data Science												
Subject Code	Subject Category	Subject Name	Maximum Marks Allotted								Contact Hrs.			Total Credits
			Theory				Practical			Total Marks	L	T	P	
			ES	MS	Assignm ent	Quiz	ES	LW	Quiz					
PYB101	BSC	Applied Physics	60	20	10	10	30	10	10	150	3	0	2	4
CSA103	ESC	Problem Solving and Data Structure	60	20	10	10	30	10	10	150	3	0	2	4
ITC101	ITC	Python Programming	60	20	10	10	30	10	10	150	3	0	2	4
CSA104	ESC	Principles of Software System	60	20	10	10				100	3	0	0	3
MAB102	BSC	Statistics: Probability Distribution and Differential Equations	60	20	10	10	–		–	100	3	1	0	4
CSL110	ESC	Computer Workshop (Linux Lab)					30	10	10	50	1	0	2	2
MAC102	MAC*	Disaster Management	–	–		–	30	10	10	50	0	0	2	Grade
ILC100	ILC	Extracurricular Activities	It is a one credit per year activity endorse in eight semester marksheet											
Total			300	100	50	50	150	50	50	750	16	1	8	21
MST: Minimum two mid semester tests to be conducted during Semester, MAC: Mandatory courses classes will be conducted in off hours (Weekends)														


ILC	Internship-I (60 Hrs) Institute Level	Non-Credit
HEC	NSS/NCC/NSO	Non-Credit



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		SAMRAT ASHOK TECHNOLOGICAL INSTITUTE VIDISHA (M.P.)												
		(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV Bhopal)												
		Scheme of Examination (Semester-III) Bachelor of Technology (B. Tech. –AIADS)												
		for Batch Admitted in session - 2023-24												
Subject Code	Subject Category	Subject Name	Maximum Marks Allotted								Contact Hrs.			Total Credits
			Theory				Practical			Total Marks				
			ES	MS	Assignment	Quiz	ES	LW	Quiz					
MAB-301	BSC	Discrete Mathematics	60	20	10	10	--	--	--	100	3	1	0	4
AI-302	DC	Artificial Intelligence	60	20	10	10	30	10	10	150	3	0	2	4
AI-303	DC	OOPs with JAVA	60	20	10	10	30	10	10	150	3	0	2	4
AI-304	DC	Operating System	60	20	10	10	30	10	10	150	3	0	2	4
AI-305	DC	Computer System Organization	60	20	10	10	--	--	--	100	3	0	0	3
AI-306	DL	Web Application Development	--	--	--	--	30	10	10	50	0	0	4	2
AI-307	ILC	Internship-I (60 Hrs) Institute Level (Evaluation)	--	--	--	--	-	50	--	50	-	-	4	2
	ILC	Extracurricular Activities	It is a one credit per year activity to be endorsed in eight semester mark sheet.											
Total			300	100	50	50	120	90	40	750	15	1	14	23
MAC-308	MAC	Energy, Ecology, Environment & Society		20	20	10								Grade

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HUM-309	HEC* optional	Holistic Education Course		20	20	10								Grade
MST: Minimum two mid semester tests to be conducted during Semester, MAC: Mandatory courses classes will be conducted in off hours (Weekends)														

HEC* classes to be conducted in online mode.

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		SAMRAT ASHOK TECHNOLOGICAL INSTITUTE VIDISHA (M.P.) (A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV Bhopal)												
		Scheme of Examination (Semester-IV) Bachelor of Technology (B. Tech. –AIADS)												
		for Batch Admitted in session - 2023-24												
Subject Code	Subject Category	Subject Name	Maximum Marks Allotted								Contact Hrs.			Total Credits
			Theory				Practical			Total Marks	L	T	P	
			ES	MS	Assignment	Quiz	ES	LW	Quiz					
AI-401	DC	Computer Networks	60	20	10	10	30	10	10	150	3	0	2	4
AI-402	DC	Data Base Management System	60	20	10	10	30	10	10	150	3	0	2	4
AI-403	DC	Foundation of Data Science	60	20	10	10	30	10	10	150	3	0	2	4
AI-404	DC	Software Engineering	60	20	10	10				100	3	0	0	3
AI-405	DC	Analysis and Design of Algorithms	60	20	10	10				100	3	1	0	4
AI-406	DL	Advance Java Programming					60	20	20	100	0	0	4	2
	ILC	Extracurricular Activities	It is a one credit per year activity to be endorsed in eight semester mark sheet.											
Total			300	100	50	50	150	50	50	750	15	1	10	21

Internship-II (90 Hrs) External /Institute Level:- **To be evaluated in V semester.**

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		SAMRAT ASHOK TECHNOLOGICAL INSTITUTE VIDISHA (M.P.) (A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV Bhopal)												
		Scheme of Examination (Semester-V) Bachelor of Technology (B. Tech. –AIADS)												
		for Batch Admitted in session - 2023-24												
Subject Code	Subject Category	Subject Name	Maximum Marks Allotted								Contact Hrs.			Total Credits
			Theory				Practical			Total Marks				
			ES	MS	Assign ment	Quiz	ES	LW	Quiz					
AI-501	DC	Fuzzy logic	60	20	10	10	30	10	10	150	3	0	2	4
AI-502	DC	Data Science Analytics	60	20	10	10	30	10	10	150	3	0	2	4
AI-503	DC	Cloud Computing	60	20	10	10	30	10	10	150	3	0	2	4
AI-504	DE	DE-I	60	20	10	10	--	--	--	100	3	0	0	3
OE-505	OE	OE-I	60	20	10	10	--	--	--	100	3	0	0	3
AI-506	DLC	Advanced Data Science Lab-I	--	--	--	--	30	10	10	50	0	0	4	2
AI-507	ILC	Internship-II (60 Hrs) Institute Level (Evaluation)	--	--	--	--	--	50	--	50	-	-	4	2
	ILC	Extracurricular Activities	It is a one credit per year activity to be endorsed in eight semester mark sheet											
Total			300	100	50	50	120	90	40	750	15	0	14	22
List of Courses for Honours Degree (MOOCs)														Credits

Abbreviations: ES -End Semester, MS- Mid Semester, LW- Laboratory Work/Assignment. (L: Lecture, T: Tutorial, P: Practical)
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Department Of Information Technology

List of Courses for Minor Degree (MOOCs)												Credits

	DE -I	OE-I
A	Human Computer Interaction	Fuzzy logic
B	Image processing	Computer Graphics & multimedia
C	Information retrieval	Software Engineering


Total 20 credits required for Honours / Minor degree

Note: 1.Open Courses launched by respective Programmes are not applicable for students of parental programmes.

2. Subject which is being opted by IT/IOT/Others in OC-3 should not be opted as DE/DC in parent department.

Abbreviations: ES -End Semester, MS- Mid Semester, LW- Laboratory Work/Assignment. (L: Lecture, T: Tutorial, P: Practical)
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		Scheme of Examination (Semester-VI)												
		for Batch Admitted in session - 2023-24												
		Bachelor of Technology (B. Tech.) – Artificial Intelligence and Data Science												
Subject Code	Subject Category	Subject Name	Maximum Marks Allotted								Contact Hrs. per week			Total Credits
			Theory				Practical			Total Marks	L	T	P	
			ES	MS	Assignment	Quiz	ES	LW	Quiz					
AI-601	DC	Machine Learning	60	20	10	10	30	10	10	150	3	0	2	4
AI-602	DC	Data Mining & Data Warehousing	60	20	10	10	30	10	10	150	3	0	2	4
AI-603	DE	DE-II	60	20	10	10				100	3	0	0	3
AI-604	DE	DE-III	60	20	10	10				100	3	1	0	4
AI-605	OE	OE-II	60	20	10	10				100	3	0	0	3
AI-606	DLC	Advanced Data Science Lab-II					30	10	10	50	0	0	2	1
AI-607		Minor Project					50	50		100			4	2
			300	100	50	50	140	80	30	750	15	1	10	21
	ILC	Extracurricular Activities	It is a one credit per year activity endorse in eight semester mark sheet											
MST: Minimum two mid semester tests to be conducted during Semester														

Note: 1.Open Courses launched by respective Programmes are not applicable for students of parental programmes.

2. Subject which is being opted by IT/IOT/Others in OC-4 should not be opted as DE/DC in parent department.

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Internship-III (120 Hrs) External /Institute Level

	DE -II	DE -III	OE – II
A	Optimization Techniques	Cryptography & Network Security	Cloud Computing
B	Knowledge Representation	Introduction to IOT	Data Science Analytics
C	Computer Vision	Robotics and process automation	Artificial Intelligence

Total 20 credits required for Honours / Minor degree

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		Scheme of Examination (Semester-VII) Bachelor of Technology (B. Tech.) –												
		for Batch Admitted in session - 2023-24												
Subject Code	Subject Category	Subject Name	Maximum Marks Allotted								Contact Hrs.			Total Credits
			Theory				Practical			Total Marks				
			ES	MS	Assign ment	Quiz	ES	LW	Quiz		L	T	P	
AI-701	DC	Deep Learning	60	20	10	10	30	10	10	150	3	0	2	04
AI-702	DE	DE-IV	60	20	10	10	--	--		100	3	1	0	04
AI-703	DE	DE-V	60	20	10	10	--	--		100	3	1	0	04
AI-704	PROJ	Major Project (Phase-I)	--	--	--		60	20	20	100	0	0	8	04
AI-705	ILC	Internship-III (Completed in Third Year)	--	--	--		30	10	10	50	0	0	4	02
	ILC	Extracurricular Activities	It is a one credit per year activity to be endorsed in eight semester marksheet.											
Total			180	60	30	30	120	40	40	500	9	2	14	18
List of Courses for Honours Degree (MOOCs)														Credits
List of Courses to be floated from NPTEL/SWAYAM During Academic Years 2025-to-2027.														
List of Courses for Minor Degree (MOOCs)														Credits

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List of Courses to be floated from NPTEL/SWAYAM During Academic Years 2025-to-2027.												

Total 20 credits required for Honours / Minor degree

	DE -IV	DE-V
A	Introduction to Logics	Big Data Analytics
B	Natural Language Processing	Data Handling & Visualization
C	Business Intelligence	Software Testing & Quality Assurance

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		Scheme of Examination (Semester-VIII) Bachelor of Technology (B. Tech.) –												
		for Batch Admitted in session - 2023-24												
Subject Code	Subject Category	Subject Name	Maximum Marks Allotted								Contact Hrs.			Total Credits
			Theory				Practical			Total Marks				
			ES	MS	Assign ment	Quiz	ES	LW	Quiz		L	T	P	
AI 801	Major Project / MOOCS	Major Project (Phase-II)					300	200		500	0	0	20	10
	ILC	Extracurricular Activities												4
Total							300	200		500				14
List of Courses for Honors Degree (MOOCs)														Credits
List of Courses to be floated from NPTEL/SWAYAM During Academic Years 2025-to-2027.														
List of Courses for Minor Degree (MOOCs)														Credits
List of Courses to be floated from NPTEL/SWAYAM During Academic Years 2025-to-2027.														

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