



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 - 2023-24

Bachelor of Technology (B. Tech.) – Information Technology

Subject Code	Subject Category	Subject Name	Maximum Marks Allotted										Contact Hrs.			Total Credits	
			Theory					Practical					Total Marks	L	T		P
			ES	MS	Assign ment	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	--	--	--	100	3	1	0	4			
CSA102	ESC	Digital Electronics	60	20	10	10	30	10	10	150	2	0	2	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)

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

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 Course, ITC- Information Technology Course, ILC-Institute Level Course, DC- Department Course, DE-Department Elective, OC- Open Course, DLC-
Department Laboratory, PROJ- Project Work

W 100% of the marks are to be secured in the first semester

Signature of the Head of the Institution

28/10/24



SAMRAT ASHOK TECHNOLOGICAL INSTITUTE VIDISHA (M.P.)
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Scheme of Examination (Semester-II)

for Batch Admitted in session - 2023-24

Bachelor of Technology (B. Tech.) – Information Technology

Bachelor of Technology (B. Tech.) – Information Technology																
Subject Code	Subject Category	Subject Name	Maximum Marks Allotted										Contact Hrs.			Total Credits
			Theory				Practical			Total Marks	Contact Hrs.					
			ES	MS	Assign ment	Quiz	ES	LW	Quiz		L	T	P			
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			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		2	
ILC100	ILC	Extracurricular Activities													Grade	
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)																

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

Abbreviations:

ES -End Semester, MS- Mid Semester, LW- Laboratory Work/Assignment (L: Lecture, T: Tutorial, P: Practical)
Abbreviations: ES-End Semester, MS-Mid Semester, LW-Laboratory Work, Assignment (L:Lecture, T:Tutorial, P:Practical), BFC-Basic Science Course, ESC-Engineering Science Course, HSMC-Humanities Science & Management Course, MAC-Mandatory Audit Course, HEC-Holistic Education Course, ILC-Institute Level Course, DC Department Course, DE-Department Elective, OE-Open Elective, DLC-Departmental Laboratory Course



SAMRAT ASHOK TECHNOLOGICAL INSTITUTE VIDISHA (M.P.)
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Scheme of Examination (Semester-III)

for Batch Admitted in session - 2023-24

Bachelor of Technology (B. Tech.) – Information Technology (Dept. of IT)

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							
MAB 301	BSC	Discrete mathematics	60	20	10	10	--	--	--	100	3	0	0	4		
IT- 302	DC	Communication system	60	20	10	10	30	10	10	150	3	0	2	4		
IT- 303	DC	Object Oriented Programming	60	20	10	10	30	10	10	150	3	0	2	4		
IT-304	DC	Analysis and Design of Algorithms	60	20	10	10	30	10	10	150	3	0	2	4		
IT-305	DC	Computer System Organisation	60	20	10	10	--	--	--	100	3	0	0	3		
IT-306	DLC	Internet Programming	--	--	--	--	30	10	10	50	0	0	4	2		
IT- 307	ILC	Internship-I (60 Hrs) Institute Level (Evaluation)	--	--	--	--	50	-	-	50	-	-	2	1		
Total			300	100	50	50	170	40	40	750	15	1	12	22		
ILC			It is a one credit per year activity to be endorsed in eight semester marks sheet.													
MAC- 308	MAC*	Energy, Ecology, Environment & Society	Grade													
HUM- 309	HEC*	Holistic Education Course	Grade													

MS: Minimum two mid semester tests are to be conducted during Semester, (L-Lecture, T-Tutorial, P-Practical)
MST: Minimum two mid semester tests to be conducted during Semester* MAC and HEC courses classes will be conducted in off hours (Weekends)
Abbreviations: ES-End Semester, MS-Mid Semester, LW-Laboratory Work, Assignment (L:Lecture, T:Tutorial, P:Practical), BFC-Basic Science Course, ESC-Engineering Science Course, HSMC-Humanities Science & Management Course, MAC-Mandatory Audit Course, HEC-Holistic Education Course, ILC-Institute Level Course, DC Department Course, DE-Department Elective, OE-Open Elective, DLC-Departmental Laboratory Course

Handwritten signatures and dates:
28/10/2023
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SAMRAT ASHOK TECHNOLOGICAL INSTITUTE VIDISHA (M.P.)
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Scheme of Examination (Semester-IV)
for Batch Admitted in session - 2023-24

Bachelor of Technology (B. Tech.) – Information Technology (Dept. of IT)

Maximum Marks Allotted																			
Subject Code	Subject Category	Subject Name	Theory				Practical			Total Marks	Contact Hrs. per week				Total Credits				
			ES	MS	Assignment	Quiz	ES	LW	Quiz		L	T	P						
IT-401	DC	Computer Network	60	20	10	10	30	10	10	150	3	0	2	4					
IT-402	DC	Database Management System	60	20	10	10	30	10	10	150	3	0	2	4					
IT-403	DC	Automata and Compiler Design	60	20	10	10	30	10	10	150	3	0	2	4					
IT-404	DC	Software Engineering	60	20	10	10	--	--	--	100	3	1	0	4					
IT-405	DC	Information Theory and Coding	60	20	10	10	--	--	--	100	3	1	0	4					
IT-406	DL	Advance Java Programming	--	--	--	--	30	10	10	50	0	0	4	2					
Total			300	100	50	50	180	60	60	750	15	2	10	22					
ILC	Extracurricular Activities	Based on participation in extra curriculum activities, one credit per year to be endorsed in the eight semester mark sheet.																	
MS: Minimum two mid semester tests are to be conducted during Semester ,(L-Lecture, T-Tutorial, P- Practical)																			
MST: Minimum two mid semester tests to be conducted during Semester* MAC and HEC courses classes will be conducted in off hours (Weekends)																			

MS: Minimum two mid semester tests are to be conducted during Semester, (L-Lecture, T-Tutorial, P-Practical)
MST: Minimum two mid semester tests to be conducted during Semester* MAC and HEC courses classes will be conducted in off hours (Weekends)

Internship-II (90 Hrs) External /Institute Level

Abbreviations: ES-End Semester, MS-Mid Semester, LW-Laboratory Work, Assignment (L-Lecture, T-Tutorial, P-Practical), BFC-Basic Science Course, ESC-Engineering Science Course, HSMC-Humanities Science & Management Course, MAC-Mandatory Audit Course, HEC-Holistic Education Course, ILC-Institute Level Course, DC Department Course, DE-Department Elective, OE-Open Elective, DLC-Departmental Laboratory Course







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Scheme of Examination (Semester-V)

for Batch Admitted in session - 2023-24

Bachelor of Technology (B. Tech.) - Information Technology (Dept. of IT)

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							
IT-501	DC	Mobile Application Development	60	20	10	10	30	10	10	150	3	0	2	4		
IT-502	DC	Wireless & Mobile Computing	60	20	10	10	30	10	10	150	3	0	2	4		
IT-503	DC	Artificial Intelligence	60	20	10	10	30	10	10	150	3	0	2	4		
IT-504	DE	DE-I	60	20	10	10	30	10	10	150	3	0	2	4		
IT-505	OE	OE-I	60	20	10	10	--	--	--	100	3	0	0	3		
IT-506	DLC	IT Workshop (Matlab/Scilab)	--	--	--	--	30	10	10	50	0	0	4	2		
IT-507	ILC	Internship-II (60 Hrs) Institute Level (Evaluation)	--	--	--	--	50	--	--	50	-	-	4	2		
Total			300	100	50	50	170	40	40	750	15	0	14	22		
IT-508	ILC	Extracurricular Activities	It is a one credit per year activity to be endorsed in eight semester marks sheet.													

	DE-1	OE-1
A	Blockchain Technology	Mobile Application Development
B	Digital Image Processing	Analog and Digital Communication
C	Natural Language Processing	Communication System

Abbreviations: ES-End Semester, MS-Mid Semester, LW-Laboratory Work, Assignment (L:Lecture, T:Tutorial, P:Practical), BFC-Basic Science Course, ESC-Engineering Science Course, HSMC-Humanities Science & Management Course, MAC-Mandatory Audit Course, HEC-Holistic Education Course, ILC-Institute Level Course, DC Department Course, DE-Department Elective, OE-Open Elective, DLC-Departmental Laboratory Course

[Handwritten signatures and dates]
28/05/2023



SAMRAT ASHOK TECHNOLOGICAL INSTITUTE VIDISHA (M.P.)
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Scheme of Examination (Semester-VI)

for Batch Admitted in session - 2023-24

Bachelor of Technology (B. Tech.) – Information Technology (Dept. of IT)

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							
IT-601	DC	Data Mining and Warehousing	60	20	10	10	30	10	10	150	3	0	2	4		
IT-602	DC	Web Application Development	60	20	10	10	30	10	10	150	3	0	2	4		
IT-603	DE	DE-2	60	20	10	10				100	3	1	0	4		
IT-604	DE	DE-3	60	20	10	10				100	3	1	0	4		
IT-605	OE	OE-2	60	20	10	10				100	3	0	0	3		
IT-606	DLC	Android Programming					30	10	10	50	0	0	2	1		
IT-607		Minor Project					50	50		100	0	0	4	2		
Total			300	100	50	50	150	50	50	750	15	2	10	22		
IT-608	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																
		DE -2	DE -3				OE -2									
A		Cloud Computing	Information Security				Web Application Development									
B		Sensor Network	Data Science Analytics				Big Data Analytics									
C		Soft Computing	Robotics Process Automation				Deep Learning									

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Scheme of Examination (Semester-VII)

for Batch Admitted in session - 2023-24

Bachelor of Technology (B. Tech.) – Information Technology

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					
IT-701	DC	Software Testing and Quality	60	20	10	10	--	--	--	100	3	0	0	03
IT-702	DE-4	DE-IV	60	20	10	10	--	--	--	100	3	0	0	03
IT-703	DE-5	DE-V	60	20	10	10	--	--	--	100	3	0	0	03
IT-704	DE-6	DE-VI	60	20	10	10	--	--	--	100	3	0	0	03
IT-705	PROJ	Major Project Prelim	--	--	--	--	100	50	--	150	0	0	8	04
IT-706	ILC	Internship-III (Completed in Third Year)	--	--	--	--	--	100	--	100	0	0	4	02
Total			240	80	40	40	100	150	--	650	12	0	12	18
IT-707	ILC	Extracurricular Activities												
MST: Minimum two mid semester tests to be conducted during Semester														
It is a one credit per year activity endorse in eight semester mark sheet														

	DE-4	DE-5	DE-6
A	Distributed System	Information and Storage Retrieval	Object Oriented System Development using UML, Java and Patterns
B	Internet Technology	Optimization Techniques	Business Intelligence & Analytics
C	Computer Vision	Pattern Recognition	Systems and Usable Security

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22/05/2024



SAMRAT ASHOK TECHNOLOGICAL INSTITUTE VIDISHA (M.P.)
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Scheme of Examination (Semester-VIII)
for Batch Admitted in session - 2023-24

Bachelor of Technology (B. Tech.) - Information Technology													
		Maximum Marks Allotted						Contact Hrs. per week					Total Credits
Subject Code	Subject Category	Subject Name	Theory			Practical		Total Marks	Contact Hrs.				
			ES	MS	Assignment/ Quiz	ES	LW/ Quiz		L	T	P		
IT-801	PROJ	Major Project https://archive.nptel.ac.in				250	150		400	0	0	20	10
IT-802	ILC	Extracurricular Activities	It is a one credit per year activity endorsed in eight semester mark sheet					100	--	--	--		04
Total						350	150	500	0	0	20	14	

*List of Course suggested by department (Min. of 8 weeks)

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