



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 - 2024-25

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	
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
HUB101	HSMC	Communication and Report Writing	60	20	10	10	--	--	--	100	3	0	0	3
CSA102	ESC	Digital Electronics	60	20	10	10	30	10	10	150	3	0	2	4
MAB101	BSC	Linear Algebra and Calculus	60	20	10	10	--	--	--	100	3	1	0	4
ILC100	ILC	Extracurricular Activities	It is a one credit per year activity endorse in eight semester marksheet											
Total			300	100	50	90	90	30	30	650	15	1	6	19
MAC101	MAC*	Universal Human Values and Professional Ethics	--	--	--	--	60	20	20	100	0	0	2	Grade

MST: Minimum two mid semester tests to be conducted during Semester, MAC: Mandatory courses classes will be conducted in off hours (Weekends)

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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



SAMRAT ASHOK TECHNOLOGICAL INSTITUTE VIDISHA (M.P.)
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Scheme of Examination (Semester-II)
for Batch Admitted in session - 2024-25

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				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		
ILC100	ILC	Extracurricular Activities														
Total			300	100	50	50	120	40	40	700	16	1	8	21		
MAC102	MAC*	Professional ethics and social responsibility	--	--		--	30	10	10	50	0	0	2	Grade		

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MST: Minimum two mid semester tests to be conducted during Semester, MAC: Mandatory courses classes will be conducted in off hours (Weekends)

It is a one credit per year activity endorse in eight semester marksheet

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, AEC-Holistic Education Course, ILC-Institute Level Course, DC Department Course, DE-Department Elective, OE-Open Elective, DLC-Departmental Laboratory Course

Handwritten signatures and dates:
10/05/2025
10/05/2025
10/05/2025



SAMRATASHOKTECHNOLOGICALINSTITUTEVIDISHA(M.P.)
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Scheme of Examination (Semester-III)
for Batch Admitted in session-2024-25

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								
MAB301	BSC	Discrete mathematics	60	20	10	10	--	--	--	100	3	0	0	4			
IT-302	DC	Communications system	60	20	10	10	30	10	10	150	3	0	2	4			
IT-303	DC	Object Oriented Programming with Java	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 (60Hrs) Institutional level (Evaluation)	--	--	--	--	-	50	-	50	-	-	2	1			
Total			300	100	50	50	170	40	40	750	15	1	12	22			
	ILC	Extracurricular Activities	It is a one credit per year activity to be endorsed in eight semester mark sheet.														
MAC-308	MAC*	Energy, Ecology, Environment & Society															
HUM-309	HEC*	Holistic Education Course															
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, DCD-Department Course, DE-Department Elective, DLC-Departmental Laboratory Course																	
Department																	
Elective, OE-Open Elective, DLC-Departmental Laboratory Course																	



SAMRATASHOKTECHNOLOGICALINSTITUTEVIDISHA(M.P.)
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Scheme of Examination (Semester-IV)

for Batch Admitted in session-2024-25

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-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	Advanced 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 extracurricular activities, one credit per year to be endorsed in the eighth semester mark sheet.														
MS: Minimum two midsemester tests are to be conducted during Semester (L-Lecture, T-Tutorial, P-Practical)																
MST: Minimum two midsemester tests to be conducted during Semester *MA Cand HEC courses classes will be conducted in 60 hours (Weekends)																

MS: Minimum two midsemester tests are to be conducted during Semester (L-Lecture, T-Tutorial, P-Practical)

MST: Minimum two midsemester tests to be conducted during Semester *MA and HEC courses classes will be conducted in off hours (Weekends)

Internship-II (90 Hrs) External/Institute Level



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Scheme of Examination (Semester-V)

for Batch Admitted in session - 2024-25

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	--	--	--	100	3	0	0	3		
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

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Signature 12/05/2024 *Signature* *Signature*



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

for Batch Admitted in session - 2024-25

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									

Internship-III (120 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

[Signatures]



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

for Batch Admitted in session - 2024-25

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	--	--	--	10	--	--	--	100	3	0	0	03	
IT-706	ILC	Internship-III (Completed in Third Year)	--	--	--		--	100	50	--	150	0	0	8	04
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

A	DE-4	Distributed System	DE-5	Information and Storage Retrieval	DE-6	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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28/05/2023



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

for Batch Admitted in session - 2024-25

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-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	--	100	--	--	--	04
Total						350	150	500	0	0	20	14	

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

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Dr. S. S. S.

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26/05/2025

Abbreviations: ES-End Semester, MS-Mid Semester, LW-Laboratory Work, Assignment (L:lectre, 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