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

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							Total Marks	Contact Hrs. per week			Total Credits
			Theory				Practical							
			ES	MS	Assignment	Quiz	ES	LW	Quiz		L	T	P	
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-1	DE-I	60	20	10	10	--	--	--	100	3	0	0	3
IT-505	OE-1	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) (Completed in Second Year)	--	--	--	--	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 -I	OE-I
A	Blockchain Technology	Mobile Application Development
B	Digital Image Processing	Analog and DigitalCommunication
C	Natural Language Processing	Communication System

Internship-III (90Hrs) I to be evaluated in Seventh semester

Minor Degree and Honour Degree:

Students can opt any number of subjects depending on the number of credits he/she wants to earn in a particular semester for Honours/Minor Degree. Total 20 credits required for Honours/Minor Degree (From V to VIII Semester – Refer pool of attached subjects for Honours/Minor Degree)

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&ManagementCourse,MAC-MandatoryAuditCourse,HEC-HolisticEducationCourse,ILC-Institute Level Course, DC Department Course, DE-Department Elective, OE-Open Elective, DLC-Departmental Laboratory Course

Prof. Abhishek Mathur

Prof. Ramratan Ahirwal   23/12/25

Dr. Shailendra Kumar Shrivastava

Department of Information Technology

Date of BOS 23-12-2025

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							Total Marks	Contact Hrs. per week			Total Credits
			Theory				Practical							
			ES	MS	Assignment	Quiz	ES	LW	Quiz		L	T	P	
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-2	DE-II	60	20	10	10	-	-	-	100	3	1	0	4
IT-604	DE-3	DE-III	60	20	10	10	-	-	-	100	3	1	0	4
IT-605	OE-2	OE-II	60	20	10	10	-	-	-	100	3	0	0	3
IT-606	DLC	Android Programming	-	-	-	-	30	10	10	50	0	0	2	1
IT-607	PROJ	Minor Project	-	-	-	-	50	50	-	100	0	0	4	2
Total			300	100	50	50	140	80	30	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

Internship-III (90Hrs) l to be evaluated in Seventh semester

	DE -II	DE -III	OE – II
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

Minor Degree and Honour Degree:

Students can opt any number of subjects depending on the number of credits he/she wants to earn in a particular semester for Honours/Minor Degree. Total 20 credits required for Honours/Minor Degree (From V to VIII Semester – Refer pool of attached subjects for Honours/Minor Degree)

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&ManagementCourse,MAC-MandatoryAuditCourse,HEC-HolisticEducationCourse,ILC-Institute Level Course, DC Department Course, DE-Department Elective, OE-Open Elective, DLC-Departmental Laboratory Course

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Prof. Ramratan Ahirwal 23.12.25

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Date of BOS 23-12-2025

Tentative Pool of subjects for Hon-ours and Minor Degree SWAYAM/NP TEL/MOOC's Courses

Tentative Pool of subjects for Honours and Minor Degree SWAYAM/NPTEL MOOC's Courses

Honours Degree for students of Parent Department

Sr. No.	Credit Points	Course/Subject Name	Equivalent Course in NPTEL	Course Duration(Week)	Link
1	3	Computer Vision And Image Processing - Fundamentals And Applications	https://onlinecourses.nptel.ac.in/noc26_ee31/preview	Jan-April (12 weeks)	
2	3	Neural Networks for Computer Vision and Natural Language Processing	https://onlinecourses.nptel.ac.in/noc26_cs04/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/108103174
3	3	Introduction To Industry 4.0 And Industrial Internet Of Things	https://onlinecourses.nptel.ac.in/noc26_cs38/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/106103843
4	3	Parallel Computer Architecture	https://onlinecourses.nptel.ac.in/noc26_cs25/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/106105195
5	3	Deep Learning for Natural Language Processing	https://onlinecourses.nptel.ac.in/noc26_cs33/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/106105163
6	3	Cryptography and Network Security	https://onlinecourses.nptel.ac.in/noc26_cs57/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/108105572
7	3	Foundations of Cyber Physical Systems	https://onlinecourses.nptel.ac.in/noc26_cs41/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/106105162
8	3	Machine Learning for Engineering and science applications	https://onlinecourses.nptel.ac.in/noc26_cs76/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/106105241
9	3	Business Intelligence & Analytics	https://onlinecourses.nptel.ac.in/noc26_cs64/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/106106198
10	3	Introduction to Information Retrieval	https://onlinecourses.nptel.ac.in/noc26_cs13/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/106106361

Minor Degree for students of other department

Sr. No.	Credit Points	Course/Subject Name	Equivalent Course in NPTEL	Course Duration(Week)	Link
1	3	Cloud Computing	https://onlinecourses.nptel.ac.in/noc26_cs55/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/106106852
2	2	Introduction To Soft Computing	https://onlinecourses.nptel.ac.in/noc26_cs44/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/106105167
3	2	Information Security - 5 - Secure Systems Engineering	https://onlinecourses.nptel.ac.in/noc26_cs71/preview	Jan-March (8 weeks)	https://nptel.ac.in/courses/106105173
4	3	Data Analytics with Python	https://onlinecourses.nptel.ac.in/noc26_cs86/preview	Jan-March (8 weeks)	https://nptel.ac.in/courses/106106199
5	3	Deep Learning	https://onlinecourses.nptel.ac.in/noc26_cs66/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/106107220
6	2	Design and Analysis of Algorithms	https://onlinecourses.nptel.ac.in/noc26_cs67/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/106106184
7	3	Programming in Modern C++	https://onlinecourses.nptel.ac.in/noc26_cs52/preview	Jan-March (8 weeks)	https://nptel.ac.in/courses/106106131
8	3	Artificial Intelligence: Knowledge Representation And Reasoning	https://onlinecourses.nptel.ac.in/noc26_cs63/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/106105234
9	3	Programming In Java	https://onlinecourses.nptel.ac.in/noc26_cs36/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/106106140
10	2	Data Base Management System	https://onlinecourses.nptel.ac.in/noc26_cs39/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/106105191
				Jan-March (8 weeks)	https://nptel.ac.in/courses/106105175

*Note: Those subjects which are already studied in the core scheme from I to VIII semester cannot be opted.
20 additionally to be earned between V to VIII semester Maximum 6 credits per semester from V semester onwards will be permitted.

Department of Information Technology

Date of BOS 23-12-2025