



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

Scheme of Examination (Semester-VII)

For Batch Admitted in session-2022-23

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	2	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 [90 Hrs] (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			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 -IV		DE-V			DE-VI								
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								

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

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

Department of Information Technology

Date of BOS 23-12-2025



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Scheme of Examination (Semester-VIII)

For Batch Admitted in session-2022-23

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				
			ES	MS	Assignment/ Quiz	ES	LW/Quiz		L	T	P	
IT-801	PROJ	Major Project				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

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**Tentative Pool of subjects for Hon-ours and Minor Degree
SWAYAM/NPTEL/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)	https://nptel.ac.in/courses/108103174
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/106103843
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/106105195
4	3	Parallel Computer Architecture	https://onlinecourses.nptel.ac.in/noc26_cs25/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/106105163
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/108105572
6	3	Cryptography and Network Security	https://onlinecourses.nptel.ac.in/noc26_cs57/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/106105162
7	3	Foundations of Cyber Physical Systems	https://onlinecourses.nptel.ac.in/noc26_cs41/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/106105241
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/106106198
9	3	Business Intelligence & Analytics	https://onlinecourses.nptel.ac.in/noc26_cs64/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/106106361
10	3	Introduction to Information Retrieval	https://onlinecourses.nptel.ac.in/noc26_cs13/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/106106852
Minor Degree for students of other department					
1	3	Cloud Computing	https://onlinecourses.nptel.ac.in/noc26_cs55/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/106105167
2	2	Introduction To Soft Computing	https://onlinecourses.nptel.ac.in/noc26_cs44/preview	Jan-March (8 weeks)	https://nptel.ac.in/courses/106105173
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/106106199
4	3	Data Analytics with Python	https://onlinecourses.nptel.ac.in/noc26_cs86/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/106107220
5	3	Deep Learning	https://onlinecourses.nptel.ac.in/noc26_cs66/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/106106184
6	2	Design and Analysis of Algorithms	https://onlinecourses.nptel.ac.in/noc26_cs67/preview	Jan-March (8 weeks)	https://nptel.ac.in/courses/106106131
7	3	Programming in Modern C++	https://onlinecourses.nptel.ac.in/noc26_cs52/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/106105234
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/106106140
9	3	Programming In Java	https://onlinecourses.nptel.ac.in/noc26_cs36/preview	Jan-April (12 weeks)	https://nptel.ac.in/courses/106105191
10	2	Data Base Management System	https://onlinecourses.nptel.ac.in/noc26_cs39/preview	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.

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