



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 - 2025-26

Bachelor of Technology (B. Tech.) – Civil Engineering

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	
CHB102	BSC	Chemistry	60	20	10	10	30	10	10	150	3	0	2	4
MEA101	ESC	Basic Mechanical Engineering	60	20	10	10	30	10	10	150	3	0	2	4
CEA103	ESC	Engineering Mechanics	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
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	50	90	30	30	650	15	1	6	19
MAC101	MAC*	Universal Human Values	--	--		--	60	20	20	100	-	-	2	Grade
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



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

for Batch Admitted in session - 2025-26

Bachelor of Technology (B. Tech.) – Civil Engineering

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					
PYB101	BSC	Applied Physics	60	20	10	10	30	10	10	150	3	0	2	4
MEA102	ESC	Engineering Graphics	60	20	10	10	30	10	10	150	3	0	2	4
CEA101	ESC	Basic Civil Engineering	60	20	10	10	30	10	10	150	3	0	2	4
ITC101	ITC	Python Programming	60	20	10	10	--	--	--	100	2	0	2	3
MAB102	BSC	Statistics: Probability Distribution and Differential Equations	60	20	10	10	--	--	--	100	3	1	0	4
MEL110	ESC	Workshop Practice	--	--	--	--	30	10	10	50	1	0	2	2
ILC100	ILC	Extracurricular Activities	It is a one credit per year activity endorse in eight semester marksheet											
Total			300	100	50	50	120	40	40	700	15	1	10	21
MAC102	MAC*	Professional Ethics and Social Responsibility	--	20	20	10	--	--	--	50	-	-	2	Grade
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	To be completed anytime during Second Semester. Its evaluation/credit to be added in Third Semester
HEC	NSS/NCC/NSO	Non-Credit

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SAMRAT ASHOK TECHNOLOGICAL INSTITUTE VIDISHA (M.P.)
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Scheme of Examination (Semester-III) Bachelor of Technology (B. Tech.) – Civil Engineering
for Batch Admitted in session - 2024-25

Subject Code	Subject Category	Subject Name	Maximum Marks Allotted								Contact Hrs.			Total Credits
			Theory				Practical			Total Marks				
			ES	MS	Assignment	Quiz	ES	LW	Quiz		L	T	P	
MAB-401	BSC	Numerical Methods & Integral Transforms	60	20	10	10	--	--	--	100	3	0	0	3
CE-301	DC	Building Material & Construction	60	20	10	10	30	10	10	150	3	0	2	4
CE-302	DC	Strength of Material	60	20	10	10	30	10	10	150	3	0	2	4
CE-303	DC	Building Planning & Architecture	60	20	10	10	--	--	--	100	3	0	0	3
CE-304	DC	Surveying -I	60	20	10	10	30	10	10	150	3	0	2	4
CE-305	DLC-I	Computer Aided Drafting (CAD)	--	--	--	--	30	10	10	50	0	0	4	2
CE-306	ILC	Internship (60 hrs) Evaluation (Completed in First year)	--	--	--	--	--	50	--	50	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	120	90	40	750	15	0	14	22
MAC307	MAC	Energy, Ecology, Environment & Society		20	20	10								Grade
HUM 308	HEC* optional			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)														

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SAMRAT ASHOK TECHNOLOGICAL INSTITUTE VIDISHA (M.P.)
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Scheme of Examination (Semester-IV) Bachelor of Technology (B. Tech.) – Civil Engineering
for Batch Admitted in session - 2024-25

Subject Code	Subject Category	Subject Name	Maximum Marks Allotted								Contact Hrs.			Total Credits
			Theory				Practical			Total Marks				
			ES	MS	Assignment	Quiz	ES	LW	Quiz					
CE-401	DC	Fluid Mechanics -I	60	20	10	10	30	10	10	150	3	0	2	4
CE-402	DC	Transportation Engg -I	60	20	10	10	30	10	10	150	3	0	2	4
CE-403	DC	Concrete Technology	60	20	10	10	30	10	10	150	3	0	2	4
CE-404	DC	Quantity Surveying & Costing	60	20	10	10	--	--	--	100	3	1	0	4
CE-405	DC	Construction Planning and Management	60	20	10	10	--	--	--	100	3	1	0	4
CE-406	DLC-II	Engineering Geology Lab	--	--	--	--	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	2	10	22

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

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-V) Bachelor of Technology (B. Tech.) – Civil Engineering
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					
CE-501	DC	Advance Surveying	60	20	10	10	30	10	10	150	3	0	2	4
CE-502	DC	Fluid Mechanics -II	60	20	10	10	30	10	10	150	3	0	2	4
CE-503	DC	Structural Design & Drawing-I (RCC)	60	20	10	10	30	10	10	150	3	0	2	4
CE-504	DC	Structural Analysis-I	60	20	10	10	--	--	--	100	3	0	0	3
OE-505	OE	OC-III	60	20	10	10	--	--	--	100	3	0	0	3
CE-506	DE	Elective-II	60	20	10	10	--	--	--	100	3	0	0	3
CE-507	ILC	Internship (60 hrs) Evaluation (Completed in Second year)	--	--	--	--	--	50	--	50	0	0	4	2
	ILC	Extracurricular Activities	It is a one credit per year activity to be endorsed in eight semester mark sheet											
Total			360	120	60	60	90	80	30	800	18	0	10	23
List of Courses for Honors Degree (MOOCs)														Credits
List of Courses for Minor Degree (MOOCs)														Credits

DE-II	Category	Name	OC-III	Category	Name
CE-506	A	Transportation Engg - II	OE-505	A	Cost Effective & Eco-Friendly Structures
	B	Urban and town planning		B	Road Safety Engineering
	C	Entrepreneurship development and management			

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Scheme of Examination (Semester-VI) Bachelor of Technology (B. Tech.) – Civil Engineering
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	Assign ment	Quiz	ES	LW	Quiz					
CE-601	DC	Structural Design & Drawing-II (Steel)	60	20	10	10	30	10	10	150	3	0	2	4
CE-602	DC	Geotechnical Engineering-I	60	20	10	10	30	10	10	150	3	0	2	4
CE-603	DC	Environmental Engineering-I	60	20	10	10	30	10	10	150	3	0	2	4
CE-604	DC	Hydrology & Water Resources Engineering	60	20	10	10	--	--	--	100	3	0	0	3
OE-605	OE	OC-IV	60	20	10	10	--	--	--	100	3	0	0	3
CE-606	DE	Elective -III	60	20	10	10	--	--	--	100	3	0	0	3
	ILC	Extracurricular Activities	It is a one credit per year activity to be endorsed in eight semester mark sheet.											
Total			360	120	60	60	90	30	30	750	18	0	6	21
List of Courses for Honors Degree (MOOCs)														Credits
List of Courses for Minor Degree (MOOCs)														Credits

Internship-III (120 Hrs) External /Institute Level to be evaluated in VII sem

DE-III	Category	Name	OC-IV	Category	Name
CE-606	A	Structural Analysis-II	OE-605	A	Environmental Impact Assessment
	B	Structural Dynamics		B	Remote Sensing and GIS
	C	Precast and modular construction			

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Scheme of Examination (Semester-VII) Bachelor of Technology (B. Tech.) – Civil Engineering
for Batch Admitted in session - 2022-23

Subject Code	Subject Category	Subject Name	Maximum Marks Allotted								Contact Hrs.			Total Credits
			Theory				Practical			Total Marks				
			ES	MS	Assignment	Quiz	ES	LW	Quiz					
DE-701	DE	Elective –IV	60	20	10	10	30	10	10	150	3	0	2	4
DE-702	DE	Elective -V	60	20	10	10	-	-	-	100	3	0	0	3
DE-703	DE	Elective –VI	60	20	10	10	30	10	10	150	3	0	2	4
DE-704	DE	Elective -VII	60	20	10	10	-	-	-	100	3	0	0	3
CE-705	ILC	Internship (120 hrs) Evaluation (Completed in Third year)						50		50			4	2
CE-706	Minor Project/ MOOCS						60	20	20	100			8	4
	ILC	Extracurricular Activities	It is a one credit per year activity to be endorsed in eight semester mark sheet.											
Total			240	80	40	40	120	90	40	650	12	-	16	20
List of Courses for Honors Degree (MOOCs)														Credits
List of Courses for Minor Degree (MOOCs)														Credits

List of Elective and Open Courses				
	DE-IV	DE-V	DE-VI	DE-VII
A	Geotechnical Engineering-II	Irrigation & Hydraulic Structure	Advanced Structural Design	Environmental Engineering-II
B	Pavement Design	Open Channel Hydraulics	Computational Methods in Structural Engineering	Air Pollution
C	Earth Retaining Structure	Marine construction	Design of Prestress Concrete Structure	Renewable energy resources

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Scheme of Examination (Semester-VIII) Bachelor of Technology (B. Tech.) – Civil Engineering for Batch Admitted in session - 2022-23

Subject Code	Subject Category	Subject Name	Maximum Marks Allotted								Contact Hrs.			Total Credits
			Theory				Practical			Total Marks				
			ES	MS	Assignment	Quiz	ES	LW	Quiz		L	T	P	
CE-801	Major Project / MOOCS						150	50	50	250			16	8
	ILC	Extracurricular Activities												4
Total							150	50	50	250			16	12
List of Courses for Honors Degree (MOOCs)														Credits
List of Courses for Minor Degree (MOOCs)														Credits

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 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