

# 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 - 2022-23

## Bachelor of Technology (B. Tech.) - Electrical Engineering

	bachelor of reclinology (B. rech.) – Electrical Engineering													
			Maximum Marks Allotted							Contact Hrs.				
Subject Subject Code Category	Subject	Subject Name	Theory				Practical			Col	maci 1	115.	Total	
	Subject Fulfic	ES	MS	Assign ment	Quiz	ES	LW	Quiz	Total Marks	L	Т	P	Credits	
EE- 501	DC	Control System	60	20	10	10	30	10	10	150	3	-	2	4
EE-502	DC	Power Electronics	60	20	10	10	30	10	10	150	3	-	2	4
EE-503	DC	Microprocessor & Micro Controller	60	20	10	10	30	10	10	150	3	-	2	4
EE-504	DC	Power System - II	60	20	10	10	-	-	-	100	3	-	-	3
OE-505	OE	OE-III	60	20	10	10	-	-	-	100	3	-	-	3
EE-506	DL	Lab- Machine Design	-	-	-	-	30	10	10	50	-	-	4	2
EE-507	ILC	Internship-II (90 Hrs) Institute level (evaluation )	-		-	-	-	50	-	50	ı	-	4	2
	Total		300	100	50	50	120	90	40	750	15	0	14	22

	ILC	Extracurricular Activities	It is a one credit per year activity to be endorsed in eight semester marksheet
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<b>List of Courses for Honors Degree</b> (1											Credits
*NPTEL Session July-Aug, Minimum 5 Credits to be earn (Except the subjects which are in the scheme)								Credits			
											*5
				I.	l .			1			
<b>List of Courses for Minor Degree (M</b>	(OOCs)										
**NPTEL Session July-Aug, Minimu		be earr	n from El	ectrical Do	main						Credits
		be earn	from El	ectrical Do	main						Credits
		be earr	from El	ectrical Do	omain						Credits **5

### Total 20 credits required for Honors / Minor degree

OE-505	OE-III	Control System												
		Power Generation     Technologies	60	20	10	10	-	-	-	100	3	-	-	3

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S.no.	Honors Degree (For Electrical Students)
1	Design of Photovoltaic Systems
2	Enclosure Design of Electronics Equipment
3	Phase-Locked Loops
	Machine Learning and Deep Learning -
4	Fundamentals and Applications
5	Smart Grid: Basics to Advanced Technologies
6	Advances in UHV Transmission and Distribution
7	De Microgrid and Control System
8	Advance Power Electronics and Control
9	Electrical Distribution System Analysis
	Electrical Equipment and Machines: Finite Element
10	Analysis
	Modeling, Analysis and Estimation of Three Phase
11	Unbalanced Power Network
12	Optimization Theory and Algorithms
12	
13	Power Electronics with Wide Band Gap Devices
	Electronic Systems Design: Hands-on Circuits and
14	PCB Design with CAD Software
15	Power Electronics Applications in Power Systems

S.no.	Minor Degree (For other Dept. Students)
1	Basic Electrical Circuits
2	Power System Protection
3	Electrical Measurement and Electronic Instruments
4	Power System Protection
5	Electrical Machines - I
6	Electrical Distribution System Analysis
7	Analog Electronic Circuits
8	Optimization Theory and Algorithms
9	A Basic Course on Electric and Magnetic Circuits
10	Power Electronics with Wide Band Gap Devices
11	Power Electronics Applications in Power Systems
12	Electronic Systems Design: Hands-on Circuits and PCB Design with CAD Software