THEOR TECHNOL	Descri Ha	(A Govt. Ai			ASHOK TECHN Itonomous & N						GPV Bh	opal)		
No and a second s	all				Scheme of	Examina	ation (Semes	ster-l)					
VIDISHA ober mole at	M.P.				for Batch Ad	mitted i	n sess	sion - 2	023-24					
		Ba	chelo	r of Te	chnology (B. Te	ech.) – I	nterne	et of Th	nings (D	epartment o	of IT)			
					Maxim	num Ma	rks Al	lotted			Con	tact Hr	s. per	
Subject	Subject	Subject Name			Theory			Practic	al	Total		week		Tota
Code	Category		ES	MS	Assignment	Quiz	ES	LW	Quiz	Marks	L	т	Р	Credi
PYB 101	BSC	Applied Physics	60	20	10	10	30	10	10	150	3	0	2	4
CSA 101	ESC	Introduction to Computer Science Engineering	60	20	10	10	30	10	10	150	3	0	2	4
IOA 103	ESC	Basic Electrical Engineering	60	20	10	10	30	10	10	150	3	0	2	4
CSA 102	ESC	Digital Electronics	60	20	10	10				100	3	0	0	3
MAB 101	BSC	Linear Algebra and Calculus	60	20	10	10				100	3	1	0	4
MAC 101	MAC*	Universal Human Values					60	20	20	100	0	0	2	Grad
ILC 100	ILC	Extracurricular Activities	It is a	a one c	redit per year ac	tivity en	dorse	in eight	semes	ter marks	1			1
Total			300	100	50	50	150	50	50	750	15	1	8	19
MST: Minimu	m two mid seme	ester tests are to be conducted during	Seme	ster, N	AC* -Mandatory	course	s class	ses will	be cond	ducted in off I	nours (W	/eeken	ds)	

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-Engineer Science Course, HSMC-Humanities Science and Management Course, MAC-Mandatory Audit Course, AC- Audit Course, HEC- Holistic Education Course, ITC- Informat Technology Course, ILC- Institute Level Course, DC- Departmental Course, DE- Departmental Elective, OC- Open Course, DLC- Departmental Laboratory, ORPJ-Project Wor

State of the second sec	and the second sec				Scheme of E	xamina	tion (S	Semes	ter-II)					
VIDISHA Volar mala att	AL P.				for Batch Adr	nitted ir	ı sessi	ion - 2	023-24					
		Ba	achelo	r of Tee	chnology (B. Te				ings (D	epartment o	of IT)			Т
	• • • •					um Mar					Cont		s. per	_
Subject Code	Subject Category	Subject Name			Theory		F	Practic	al	Total		week		Total
Code	Category		ES	MS	Assignment	Quiz	ES	LW	Quiz	Marks	L	Т	Р	Clean
CHB 101	BSC	Applied Chemistry	60	20	10	10	30	10	10	150	3	0	2	4
CSA 103	ESC	Problem Solving Using Data Structure	60	20	10	10	30	10	10	150	3	0	2	4
ITC 101	ITC	Python Programming	60	20	10	10	30	10	10	150	3	0	2	4
HUB 101	HSMC	Language and Writing Skill	60	20	10	10				100	3	0	0	3
MAB 102	BSC	Probability Distribution and Differential Equation	60	20	10	10				100	3	1	0	4
CSL 110	ESC	Computer Workshop (Linux Lab)					30	10	10	50	1	0	2	2
MAC 102	MAC	Professional Ethics and Social Responsibility					30	10	10	50	0	0	2	Grade
ILC 100	ILC	Extracurricular Activities			articipation in ext ark sheet.	ra currio	culum a	activitie	es, one c	redit per yea	ar to be e	endors	ed in the	eight
Total			300	100	50	50	150	50	50	750	15	1	10	21

ILC	Internship-I (60 Hr) Institute Level	Non Credit
HEC	NSS/NCC/NSO	Non Credit

Strate in the second	and the second sec			ę	Scheme of Exar	ninatio	n (Sen	nester	-III)					
VIDISHD Vidar mulig	M.P.		for		Admitted in se		•		•	2024				
		Bach	elor of	Techn	ology (B. Tech.	.) – Inte	rnet of	Thing	gs (Depa	artment of I	T)			
					Maxim	um Mar	ks All	otted			Cont	act Hr	s. per	
Subject	Subject	Subject Name			Theory		F	Practio	cal	Total		week		Tota
Code	Category		ES	MS	Assignment	Quiz	ES	LW	Quiz	Marks	L	т	Р	Credit
MAB-301	BSC	Discrete Mathematics	60	20	10	10				100	3	1	-	4
IO-302	DC	Electronic Devices & Circuits	60	20	10	10	30	10	10	150	3	-	2	4
IO-303	DC	Object Oriented Programming with Java	60	20	10	10	30	10	10	150	3	-	2	4
IO-304	DC	Analysis and Design of Algorithms	60	20	10	10	30	10	10	150	3	-	2	4
IO-305	DC	Computer System Organization	60	20	10	10				100	3	-	-	3
IO-306	DL	Web Application Development					30	10	10	50	-	-	4	2
IO-307	ILC	Internship-I (60 Hrs) Institute Level (Evaluation)					-	50		50	-	-	4	2
		Total	300	100	50	50	120	90	40	750	15	1	14	23
	ILC	Extracurricular Activities			articipation in ex ark sheet.	tra curri	culum	activiti	es, one	credit per ye	ear to be	endo	rsed in th	ne eight
MAC-308	MAC*	Energy, Ecology, Environment & Society	-	20	20	10	-	-	-	-	-	-	-	Grad
HUM-309	HEC* (Optional)	Holistic Education Course (Indian Classic music Instrumental)	-	20	20	10	-	-	-	-	-	-		Grad

S SHOT TECHNOLOGICA	4	(A G								E VIDISHA (M. e Affiliated to R		opal)		
					Schem	e of Exa	minati	on (Sen	nester-IV	7)				
	and the second se			fo	r Batch Admitt	ted in se	ession	- 2023	-24 w.e	.f. July 2024				
VIDISHA M.R.			Ba	chelor	of Technology (B. Tech.) — Inte	ernet of	Things	(Department o	f IT)			
					Max	imum M	arks A	llotted			Cart	4 11		Tetal Cours
Subject	Subject	Subject Name			Theory			Practic	al		Contac	et Hrs. p	er week	Total Crec
Code	Category		ES	MS	Assignment	Quiz	ES	LW	Quiz	Total Marks	L	Т	Р	
IO-401	DC	Microprocessors and Microcontrollers	60	20	10	10	30	10	10	150	3	0	2	4
IO-402	DC	Database Management System	60	20	10	10	30	10	10	150	3	0	2	4
IO-403	DC	Signals and Systems	60	20	10	10	30	10	10	150	3	0	2	4
IO-404	DC	Foundation of IoT	60	20	10	10	-	-	-	100	3	1	0	4
IO-405	DC	Communication System	60	20	10	10	-	-	-	100	3	0	0	3
IO-406	DLC	Advance Java Programming	-	-	-	-	60	20	20	100	0	0	4	2
		Total	300	100	50	50	150	50	50	750	15	1	10	21
	ILC	Extracurricular Activities		d on pa sheet.	articipation in ex	xtra curri	iculum	activiti	es, one	credit per year	to be en	dorsed	in the eig	jht semeste
MS: Minimun		Extracurricular Activities ster tests are to be conducted dur	mark	sheet.	•									

State Stat		(SAMRAT ASHOK TECHNOLOGICAL INSTITUTE VIDISHA (M.P.) (A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV Bhopal) Scheme of Examination (Semester-V)												
Sugar Contraction	and a second second		for	Patab		e of Examination ed in session			/	2024					
VIDIS	HA M.P.					B. Tech.) – Inte					of IT)				
				1		Iarks Allotted		8.	·			Con	tact	Hrs.	Total
Subject Code	Subject	Subject Name			1	Theory	1	Prace	tical	1	Total Marks	per	weel	ζ	Credi
Code	Category			ES	MS	Assignment	Quiz	ES	LW	Quiz	Total Marks	L	Т	Р	
IO 501	DC	Artificial Intelligence & Mac	chine Learning	60	20	10	10	30	10	10	150	3	0	2	4
IO 502	DC	Operating Systems for IoT		60	20	10	10	30	10	10	150	3	0	2	4
IO 503	DC	Ad-hoc & Sensor Networks	for IoT	60	20	10	10	30	10	10	150	3	0	2	4
IO 504	DE	DE – I		60	20	10	10				100	3	0	0	3
OE 505	OE	OE - I		60	20	10	10				100	3	0	0	3
IO 506	DLC	IoT Lab						30	10	10	50	0	0	4	2
IO 507	ILC	Internship-II (60 Hrs) Institute Level (E	valuation)						50		50	-	-	2	2
Total				300	100	50	50	120	90	40	750	15	0	12	22
	ILC	Extracurricular Activities		It is a	a one c	redit per year	activit	y to be	e endo	rsed in	eight semester	r marl	ks sł	ieet.	
	•			•	DE -	1					OC-1	1			
		А	IoT Communicati	on Proto	cols			I	oT Con	municat	tion Protocols				
		В	5G and IoT Te	chnolo	gies			(Operatin	g Syster	ns for IoT				
		С	Wireless netwo	ork				I	Ad-hoc	& Senso	r Networks for Ic	T			

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)

HURT TECHNOLOGICA			SAMF (A Govt. Aided U			ECHNOLOGI us & NAAC A						hopal)			
	all				Sche	me of Examina	ntion (Se	emeste	r-VI)						
VIDISHA M.P.			f	or Batch	Adm	itted in sessio	on - 202	23-24 v	w.e.f. 、	July 202	:4				
			Bachelor	of Tech	nology	(B. Tech.) – In	ternet o	of Thir	ngs (D	epartme	ent of IT)				
						Maxin	num Ma	arks Al	lotted			Cont	act Hr	s. per	Tota
Subject Code	Subject		Subject Name	e Theory Practical Total									week		Credi
Subject Sout	Category		Subject Nume	ES	MS	Assignment	Quiz	ES	LW	Quiz	Marks	L	Т	Р	
IO 601	DC	IoT Cloud	Processing and Analytics	60	20	10	10	30	10	10	150	3	0	2	4
IO 602	DC	Programm	ing Languages for IoT	60	20	10	10	30	10	10	150	3	0	2	4
IO 603	DE	DE-II		60	20	10	10				100	3	0	0	3
IO 604	DE	DE –III		60	20	10	10				100	3	1	0	4
OE 605	OE	OE – II		60	20	10	10				100	3	0	0	3
IO 606	DLC	Lab View						30	10	10	50	0	0	4	2
IO 607	DLC	Minor Proj	ect					50	50		100	0	0	4	2
				300	100	50	50	140	80	30	750	15	`1	12	22
	ILC	Extracurric	cular Activities		I	t is a one cree	dit per	year a	ctivity	endors	se in eight	semest	er ma	rk shee	:t
MST: Minim	um two mid	semester test	s to be conducted during Sem	nester											
			DE -2			DE -3					OC – 2				
А			IoT Security			Mobile Applic	ation D	Develop	oment	for IoT	IoT Clou	d Proce	ssing a	ind Ana	lytics
В			Cryptography			Web Technolo	ogy				Program	U	nguag	es for Io	ъT
С			Information Theory and Codin	ng		UI/UX					IoT Secu	rity			

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)

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1	VIDISHA M.P.

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 - 2023-24 w.e.f. July 2024

Bachelor of Technology (B. Tech.) – Internet of Things (Department of IT)

			Maxi	mum Marks Al	lotted						Con	tact Hr	·s. per	Total
Subject	Subject	Subject Name	Theor	ry			Practi	cal		– Total	weel	k		Credit
Code	Category		ES	MS	Assignment	Quiz	ES	LW	Quiz	Marks	L	Т	Р	
IO 701	DC	Data Analytics for IoT	60	20	10	10	30	10	10	150	3	0	2	04
IO 702	DE	DE-IV	60	20	10	10				100	3	1	0	04
IO 703	DE	DE-V	60	20	10	10				100	3	1	0	04
IO 704	PROJ	Major Project Prelim					60	40		100	0	0	8	04
IO 705	ILC	Internship-III (Completed in Third Year)						50		50	0	0	4	02
Total			180	60	30	30	90	100	10	500	9	2	14	18
	ILC	Extracurricular Activities			It is a one c	redit per	year act	ivity end	orse in e	ight seme	ester r	nark s	heet	
MST: Min	imum two mie	d semester tests to be conducted d	uring Se	emester	I									
					DE -4						DE-5			
		Α	Ic	T System Archi	itectures			Indust	rial IoT					
		В	E	mbedded Syste	ems Design			AR ar	nd VR					
		С	R	eal time System	S			Edge	Computir	ıg				

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)

SUN TECH	NOLOGICE AN	(A Gov			CHNOLOGICAL I 5 & NAAC Accredit			· · ·	Bhopa	ıl)		
and the	ever			Scheme	of Examination (S	emester-VI	II)					
VIDISH star est	HA M.P.			for Batch Adm	itted in session - 202	23-24 w.e.f. J	uly 2024					
			Bachelo	r of Technolog	gy (B. Tech.) -Intern	et of Things	(Department	of IT)				
					Maximum Marks All	otted			Co	ntact I	Irs.	Tota
Subject	Subject	Subject Name		Theory		P	ractical	T ()	р	er wee	ek	Credi
Code	Category	Subject Maine	ES	MS	Assignment/ Quiz	ES	LW	Total Marks	L	Т	Р	
IO 801	PROJ	Major Project				300	200	500	0	0	20	10
IO 802	ILC	Extracurricular Activities		It is a one cre	edit per year activity end	orsed in eight s	semester mark	sheet		1	1	04
Total	1					300	200	500				14

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)

S. No.	Honours Degree for students of parent department	Minor Degree for students of other department	Remark
1.	Cloud Computing and Distributed Systems	Analog and Digital Electronics	8-12 Weeks
2.	Switching Circuits and Logic Design	Computer Networks And Internet Protocol	8-12 Weeks
3.	Advanced Computer Networks	Microprocessor and Microcontroller	8-12 Weeks
4.	Embedded System Design with ARM	Foundation of Cloud IoT Edge ML	8-12 Weeks
5.	Embedded Sensing, Actuation and Interfacing Systems	Foundations of Cyber Physical Systems	8-12 Weeks
6.	Digital System Design	Introduction to Embedded System Design	8-12 Weeks
7.	An Introduction to Information Theory	Introduction To Industry 4.0 And Industrial Internet Of Things	8-12 Weeks
8.	Industrial Automation And Control	Introduction To Internet Of Things	8-12 Weeks

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

*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.