San Lunor TECHNOL	Gict at the second second	(A Govt. Ai			ASHOK TECHN tonomous & N/						GPV Bh	opal)		
ALL REFERENCE	and the second se				Scheme of	Examina	ation (Semes	ster-l)					
VIDISHA obs show sho	A.P.				for Batch Adı	mitted i	n sess	ion - 2	023-24					
		Ba	chelo	r of Te	chnology (B. Te	ech.) – I	nterne	t of Th	nings (D	epartment o	of IT)			
			Maximum Marks Allotted									tact Hr		
Subject	Subject	Subject Name			Theory		F	Practic	al	Total		week		Total
Code	Category		ES	MS	Assignment	Quiz	ES	LW	Quiz	Marks	L	т	Р	Credits
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	Grade
ILC 100	ILC	Extracurricular Activities	It is a	one c	redit per year ac	tivity end	dorse i	n eight	semes	ter marks	·			
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	es will	be cond	ducted in off h	iours (W	eeken	ds)	1

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- Departmental Course, DE- Departmental Elective, OC- Open Course, DLC- Departmental Laboratory, ORPJ-Project Work

ST LEAD		(A Govt. A			ASHOK TECHN tonomous & NA						GPV Bh	opal)			
all and	and the second se				Scheme of E	xamina	tion (S	Semes	ter-II)						
VIDISHA The price and	M.P.				for Batch Adr	nitted in	ı sessi	on - 2	023-24						
		Ba	chelo												
			Maximum Marks Allotted									Contact Hrs. per			
Subject Code	Subject	Subject Name		1	Theory		F	Practic	al	Total		week	<u> </u>	Total Credits	
Code	Category		ES	MS	Assignment	Quiz	ES	LW	Quiz	Marks	L	Т	Р	Credits	
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 curric	ulum a	ctivitie	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

1 CA		(A Govt. Aide	dUGC	Auton	omous & NAAC	Accre	dited I	nstitu	te Affilia	ated to RGP	v Bnop	al)			
A CLEAR	and the second second			S	Scheme of Exar	ninatio	n (Sem	nester	-111)						
VIDISHA Abar mada	M.P.		for	Batch	Admitted in se	ssion -	2023-2	24 w.e	.f. July 2	2024					
		Bach	chelor of Technology (B. Tech.) – Internet of Things (Department of IT)												
					Maxim	um Mar	ks Alle	otted			Contact Hrs. per				
Subject	Subject	Subject Name			Theory		F	Practio	al	Tatal		week	• •	Total	
Code	Category	Subject Name	ES	MS	Assignment	Quiz	ES	LW	Quiz	Total Marks	L	Т	Р	Credits	
MAB-301	BSC	Discrete Mathematics	60	20	10	10				100	3	-	-	3	
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	-	14	22	
	ILC	Extracurricular Activities		•	articipation in ex ark sheet.	tra curri	culum	activiti	es, one	credit per ye	ear to be	endo	rsed in t	he eight	
MAC-308	MAC*	Energy, Ecology, Environment & Society	-	20	20	10	-	-	-	-	-	-	-	Grade	
HUM-309	HEC* (Optional)	Holistic Education Course (Indian Classic music Instrumental)	-	20	20	10	-	-	-	-	-	-		Grade	

S SHOR TECHNOLOGICA	*	(A G			AT ASHOK TE GC Autonomous							opal)					
ATA					Schem	e of Exa	minati	on (Sen	nester-IV)							
No none	and the second s		for Batch Admitted in session - 2023-24 w.e.f. July 2024														
VIDISHA M.P.			Bachelor of Technology (B. Tech.) – Internet of Things (Department of IT)														
					Max												
Subject	Subject	Subject Name	Theory					Practic	al		Contac	t Hrs. p	er week	Total Credits			
Code	Category	Subject Rune	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	1	0	4			
IO-406	DLC	Advance Java Programming	-	-	-	-	60	20	20	100	0	0	4	2			
		Total	300	100	50	50	150	50	50	750	15	2	10	22			
	ILC	Extracurricular Activities		d on pa sheet.	articipation in ex	ktra curr	iculum	activiti	es, one	credit per year	to be en	dorsed	in the eig	ht semester			
IS: Minimum	n two mid seme	ster tests are to be conducted dur	ing Se	mester	, (L-Lecture, T-	Tutorial	, P-Pra	actical)									

Sent such the	NOLDOICH HA	(SAMRA A Govt. Aided UG		nomous		edited I	nstitute	Affilia								
L'ERE	a share a shar		for	Batch		e of Examination	<u>`</u>		/	2024							
VIDIS VIDIS	HA M.P.		for Batch Admitted in session - 2023-24 w.e.f. July 2024 Bachelor of Technology (B. Tech.) – Internet of Things (Department of IT)														
				Maximum Marks Allotted								Contact Hrs.			Total		
Subject Code	Subject Category	Subject Name			1	Theory	1	Pract	1	1	Total Marks	per	1		Credits		
Cour	Category			ES	MS	Assignment	Quiz	ES	LW	Quiz		L	Т	Р			
IO 501	DC	Artificial Intelligence & Mac	hine 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 -1		60	20	10	10				100	3	0	0	3		
OE 505	OC	OC-1		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	endor	sed in	eight semester	mark	ks sh	leet.	1		
				DE -1						OC-1							
		А	IoT Communicat	ion Proto	cols			I	oT Con	municat	ion Protocols						
		В	5G and IoT Te	echnolo	gies			0	peratin	g Syster	ns for IoT						
		С	Wireless netwo	ork				A	d-hoc	& Senso	r Networks for Io	Т					

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)

the second second		SAMF (A Govt. Aided U			ECHNOLOGI us & NAAC A						iopal)			
and the second s	and the second s			Sche	me of Examina	ation (S	emester	:-VI)						
VIDISHA M.P		fe	or Batch	Admi	tted in session	on - 202	23-24 v	v.e.f. J	uly 202	4				
		Bachelor	of Tech	nology	(B. Tech.) – In	ternet	of Thir	ngs (De	epartme	ent of IT)				
					Maxin	num Ma	arks Al	lotted			Cont	act Hr	s. per	Total
Subject Code	Subject	Subject Name			Theory		1	Practic	al	T (1		week	F	Credits
Subject Code	Category	Subject Manie	ES	MS	Assignment	Quiz	ES	LW	Quiz	Total 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	Programming Languages for IoT	60	20	10	10	30	10	10	150	3	0	2	4
IO 603	DE	DE-2	60	20	10	10				100	3	0	0	3
IO 604	DE	DE -3	60	20	10	10				100	3	1	0	4
OE 605	OC	OC - 2	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 Project					50	50		100	0	0	4	2
			300	100	50	50	140	80	30	750	15	`1	12	22
	ILC	Extracurricular Activities		It	t is a one cree	dit per	year a	ctivity	endors	se in eight	semest	er ma	rk shee	et
MST: Minim	um two mid	semester tests to be conducted during Sem	ster tests to be conducted during Semester											
		DE -2]	DE -3					OC-2				
А		IoT Security			Mobile Applic)evelop	ment f	for IoT	IoT Cloue				
B		Cryptography			Web Technolo	ogy				-	<u> </u>	nguag	es for I	оT
С		Information Theory and Codi	Cryptography Web Technology Programming Languages for IoT Information Theory and Coding UI/UX IoT Security											

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)

BUR TEO	HNOLOGICAL HTT		ASHOK TECHNOL Autonomous & NAA						ıl)								
L'ERE	and a server				Scheme of Exar	nination (Semester	-VII)									
VIDIS otor an	HA M.P.			for B	for Batch Admitted in session - 2023-24 w.e.f. July 2024												
				Bachelor of 7	Fechnology (B. Tech.)	– Interne	t of Thin	igs (Depa	rtment of	FIT)							
			Maxin	um Marks Al	lotted						Con	tact Hr	s. per	Total			
Subject	Subject	Subject Name	Theory	leory			Practi	cal		T- 4-1	weel		•	Credits			
Code	Category	Subject Maine	ES	MS	Assignment	Quiz	ES	LW	Quiz	– Total 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-4	60	20	10	10				100	3	1	0	04			
IO 703	DE	DE-5	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 ei	ght seme	ster r	nark sl	neet	<u> </u>			
MST: Min	imum two mie	d semester tests to be conducted du	uring Ser	nester													
					DE -4						DE-5						
		Α	Io	Γ System Arch	itectures			Indust	rial IoT								
		В	Er	nbedded Syst	ems Design			AR ar	nd VR								
		С	Re	al time System	IS			Edge	Computin	g							

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)

AND TECH	NOLOGICH HI	(A Gov			CHNOLOGICAL I s & NAAC Accredit				Bhopa	ıl)		
ALL REPORT	- entre			Scheme	e of Examination (Se	emester-V	III)					
VIDISH dur. auf	HA M.P.			for Batch Adn	nitted in session - 202	23-24 w.e.f.	July 2024					
			Bachelo	r of Technolog	gy (B. Tech.) -Interne	et of Things	s (Department	of IT)				
					Maximum Marks All	otted			Co	ntact]	Hrs.	Total
Subject	Subject	Subject Name		Theory	,	-	Practical	Tatal	р	er wee	ek	Credits
Code	Category	Subject Nume	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 cr	edit per year activity endo	orsed in eigh	t semester mark	sheet		1		04
Total	·					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.