

Scheme of Examination (Semester-I)

for Batch Admitted in session - 2024-25 w.e.f July 2024

Bachelor of Technology (B. Tech.) - CSE (IOT)

		Maximum Marks Allotted								Cont	s. per		
Subject	Subject Name			Theory	_	F	Practic	al	Total		week		Total
Category	,	ES	MS	Assignment	Quiz	ES	LW	Quiz	Marks	L	T	Р	Credits
BSC	Applied Physics	60	20	10	10	30	10	10	150	3	0	2	4
ESC	Introduction to Computer Science Engineering	60	20	10	10	30	10	10	150	3	0	2	4
ESC	Basic Electrical Engineering	60	20	10	10	30	10	10	150	3	0	2	4
ESC	Digital Electronics	60	20	10	10				100	3	0	0	3
BSC	Linear Algebra and Calculus	60	20	10	10				100	3	1	0	4
ILC	Extracurricular Activities	It is a	one c	redit per year ac	tivity end	dorse ii	n eight	semest	er marks				
		300 100 50 50 90 30 30 650 15 1 6 19											
MAC*	Universal Human Values					60	20	20	100	0	0	2	Grade
	BSC ESC ESC BSC ILC	BSC Applied Physics ESC Introduction to Computer Science Engineering ESC Basic Electrical Engineering ESC Digital Electronics BSC Linear Algebra and Calculus ILC Extracurricular Activities	BSC Applied Physics 60 ESC Introduction to Computer Science Engineering 60 ESC Basic Electrical Engineering 60 ESC Digital Electronics 60 BSC Linear Algebra and Calculus 60 ILC Extracurricular Activities It is a 300	BSC Applied Physics 60 20 ESC Introduction to Computer Science Engineering 60 20 ESC Basic Electrical Engineering 60 20 ESC Digital Electronics 60 20 BSC Linear Algebra and Calculus 60 20 ILC Extracurricular Activities It is a one computer Science 60 20	Subject Name Theory ES MS Assignment BSC Applied Physics 60 20 10 ESC Introduction to Computer Science Engineering 60 20 10 ESC Basic Electrical Engineering 60 20 10 ESC Digital Electronics 60 20 10 BSC Linear Algebra and Calculus 60 20 10 ILC Extracurricular Activities It is a one credit per year activity per ye	Subject Name Theory ES MS Assignment Quiz BSC Applied Physics 60 20 10 10 ESC Introduction to Computer Science Engineering 60 20 10 10 ESC Basic Electrical Engineering 60 20 10 10 ESC Digital Electronics 60 20 10 10 BSC Linear Algebra and Calculus 60 20 10 10 ILC Extracurricular Activities It is a one credit per year activity end 300 100 50 50	Subject Name Theory F ES MS Assignment Quiz ES BSC Applied Physics 60 20 10 10 30 ESC Introduction to Computer Science Engineering 60 20 10 10 30 ESC Basic Electrical Engineering 60 20 10 10 30 ESC Digital Electronics 60 20 10 10 BSC Linear Algebra and Calculus 60 20 10 10 ILC Extracurricular Activities It is a one credit per year activity endorse in the second content of the property of the second content of the property of the property of the second content of the property of the prop	Subject Name Theory Practice ES MS Assignment Quiz ES LW BSC Applied Physics 60 20 10 10 30 10 ESC Introduction to Computer Science Engineering 60 20 10 10 30 10 ESC Basic Electrical Engineering 60 20 10 10 30 10 ESC Digital Electronics 60 20 10 10 BSC Linear Algebra and Calculus 60 20 10 10 ILC Extracurricular Activities It is a one credit per year activity endorse in eight	Subject Name Theory Practical ES MS Assignment Quiz ES LW Quiz BSC Applied Physics 60 20 10 10 30 10 10 ESC Introduction to Computer Science Engineering 60 20 10 10 30 10 10 ESC Basic Electrical Engineering 60 20 10 10 30 10 10 ESC Digital Electronics 60 20 10 10 BSC Linear Algebra and Calculus 60 20 10 10 ILC Extracurricular Activities It is a one credit per year activity endorse in eight semest	Subject Name Theory Practical Total Marks BSC Applied Physics 60 20 10 10 30 10 10 150 ESC Introduction to Computer Science Engineering 60 20 10 10 30 10 10 150 ESC Basic Electrical Engineering 60 20 10 10 30 10 10 150 ESC Digital Electronics 60 20 10 10 100 BSC Linear Algebra and Calculus 60 20 10 10 100 ILC Extracurricular Activities It is a one credit per year activity endorse in eight semester marks	Subject Name Theory Practical Total Marks BSC Applied Physics 60 20 10 10 30 10 10 150 3 ESC Introduction to Computer Science Engineering 60 20 10 10 30 10 10 150 3 ESC Basic Electrical Engineering 60 20 10 10 30 10 10 150 3 ESC Digital Electronics 60 20 10 10 100 3 BSC Linear Algebra and Calculus 60 20 10 10 100 3 ILC Extracurricular Activities It is a one credit per year activity endorse in eight semester marks	Subject Category Theory Practical Total Marks Week ES MS Assignment Quiz ES LW Quiz Marks L T BSC Applied Physics 60 20 10 10 30 10 10 150 3 0 ESC Introduction to Computer Science Engineering 60 20 10 10 30 10 10 150 3 0 ESC Basic Electrical Engineering 60 20 10 10 30 10 10 150 3 0 ESC Digital Electronics 60 20 10 10 100 3 0 BSC Linear Algebra and Calculus 60 20 10 10 100 3 1 ILC Extracurricular Activities It is a one credit per year activity endorse in eight semester marks	Subject Category Subject Name ES MS Assignment Quiz ES LW Quiz Marks L T P

INST: Minimum two mid semester tests are 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- Departmental Course, DE- Departmental Elective, OC- Open Course, DLC- Departmental Laboratory, ORPJ-Project Work



Scheme of Examination (Semester-II)

for Batch Admitted in session - 2024-25 w.e.f July 2024

Bachelor of Technology (B. Tech.) - CSE (IOT)

			Maximum Marks Allotted								Cont	act Hr	s. per	
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
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	Communication and Report Writing	60	20	10	10				100	3	0	0	3
MAB 102	BSC	Statistics: 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
ILC 100	ILC	Extracurricular Activities	Based on participation in extra curriculum activities, one credit per year to be endorsed in the eight semester mark sheet.							eight				
Total			300	100	50	50	120	40	40	700	16	1	8	21
MAC 102	MAC	Professional Ethics and Social Responsibility		20	20	10				50	0	0	2	Grade

MST: Minimum two mid semester tests are to be conducted during Semester, MAC* -Mandatory courses classes will be conducted in off hours (Weekends)

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



Scheme of Examination (Semester-III)

for Batch Admitted in session - 2024-25 w.e.f July 2024

Bachelor of Technology (B. Tech.) - CSE (IOT)

			Maximum Marks Allotted								Cont	s. per		
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
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	Based on participation in extra curriculum activities, one credit per year to be endorsed in the eight semester mark sheet.						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

MS: Minimum two mid semester tests are to be conducted during Semester, (L-Lecture, T- Tutorial, P-Practical)

MAC*-Mandatory audit course & & HEC*- Holistic education courses classes will be conducted in off hours (Weekends)



Scheme of Examination (Semester-IV)

for Batch Admitted in session - 2024-25 w.e.f July 2024

Bachelor of Technology (B. Tech.) - CSE (IOT)

					Max	imum M	arks A	llotted			Comtoo	4 TT		Total Cuadite
Subject	Subject	Subject Name			Theory			Practic	al		Contac	ı Hrs. p	er week	Total Credits
Code	Category	Sangeor (and	ES	MS	Assignment	Quiz	ES	LW	Quiz	Total Marks	L	Т	P	
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	Based on participation in extra curriculum activities, one credit per year to be endorsed in the eight semester mark sheet.							ht semester				

MS: Minimum two mid semester tests are to be conducted during Semester, (L-Lecture, T- Tutorial, P-Practical)



Scheme of Examination (Semester-V)

for Batch Admitted in session - 2024-25 w.e.f July 2024

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Subject	Subject		Maxi	mum N	Iarks Allotted		Pract			I	Con	_		Total
		Subject Name			Theory	ieory			1	T-4-1 M1	per	week	<u> </u>	Credits
Code	Category		ES	MS	Assignment	Quiz	ES	LW	Quiz	Total Marks	L	T	P	
IO 501	DC	Artificial Intelligence & Machine 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 (Evaluation)						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	endo	rsed in	eight semester	mark	ks sh	neet.	<u>- </u>

	DE -I	OC-I
A	IoT Communication Protocols	IoT Communication Protocols
В	5G and IoT Technologies	Operating Systems for IoT
С	Wireless network	Ad-hoc & Sensor Networks for IoT

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/wimor Degree. Total 20 credits required for Honours/Minor Degree (From V to VIII Semester – Refer pool of attached subjects for Honours/Minor Degree)



Scheme of Examination (Semester-VI)

for Batch Admitted in session - 2024-25 w.e.f July 2024

Bachelor of Technology (B. Tech.) – CSE (IOT)

					Maxin	num Ma	arks Al	lotted			Contact Hrs. per			
Subject Code	Subject	Subject Name			Theory		1	Practic	al	Total		week		Credits
a and good or and	Category	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ES	MS	Assignment	Quiz	ES	LW	Quiz	Marks	L	Т	P	
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-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 Project					50	50		100	0	0	4	2
			300	100	50	50	140	80	30	750	15	`1	12	22
	ILC	Extracurricular Activities		It	is a one cred	dit per	year a	ctivity	endors	se in eight	semest	er ma	rk shee	et

MST: Minimum two mid semester tests to be conducted during Semester

	DE -II	DE -III	OC – II
A	IoT Security	Mobile Application Development for IoT	IoT Cloud Processing and Analytics
В	Cryptography	Web Technology	Programming Languages for IoT
С	Information Theory and Coding	UII/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)



Scheme of Examination (Semester-VII)

for Batch Admitted in session - 2024-25 w.e.f July 2024

Bachelor of Technology (B. Tech.) – CSE (IOT)

			Maximu	um Marks Allotted							Contact Hrs. per			Total	
Subject	Subject	Subject Name	Theory			_	Practica	l		Total	week			Credits	
Code	Category		ES	MS	Assignment	Quiz	ES	LW	Quiz	Marks	L	T	P		
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 credit per year activity endorse in eight semester mark					ark sh	eet					

MST: Minimum two mid semester tests to be conducted during Semester

	DE -IV	DE-V
A	IoT System Architectures	Industrial IoT
В	Embedded Systems Design	AR and VR
С	Real time Systems	Edge Computing

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)



Scheme of Examination (Semester-VIII)

for Batch Admitted in session - 2024-25 w.e.f July 2024

Bachelor of Technology (B. Tech.) - CSE (IOT)

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Subject Code	Subject Category	Subject Name	Maximum Marks Allotted						Co	ntact I	Total	
			Theory			Practical		Tatal	per week			Credits
			ES	MS	Assignment/ Quiz	ES	LW	Total Marks	L	Т	P	
IO 801	PROJ	Major Project				300	200	500	0	0	20	10
IO 802	ILC	Extracurricular Activities		It is a one credit per year activity endorsed in eight semester mark sheet							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)

Tentative Pool of subjects for Honours and Minor Degree

SWAYAM/NPTEL/MOOC's Courses

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

^{*}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.