

**DEPARTMENT OF INFORMATION TECHNOLOGY**  
**SCHEME 2023 B.TECH.(INFORMATION TECHNOLOGY)**  
**II B.TECH.(4YDC) INFORMATION TECHNOLOGY**

**Semester : III**

S.No.	Subject Category	Subject Code	Subject	Periods per Week*			Th. Credit	Pr. Credit	Maximum Marks				Total
				L	T	P			Th.	CW	SW	Pr.	
1		IT28001	Object Oriented Programming	4	-	2	3	1	70	30	40	60	200
2	ESC	EC28006	Analog Electronics	4	-	2	3	1	70	30	40	60	200
3	ESC	IT28007	Digital Systems	4	-	2	3	1	70	30	40	60	200
4	BSC	MA28005	Mathematics - III	4	1	-	4	-	70	30	-	-	100
5	PCC	IT28008	Data Structures	4	-	2	3	1	70	30	40	60	200
6	PCC	IT28498	System Software Laboratory-I	-	-	2	-	1	-	-	40	60	100
7	HSMC	HU28481	Values, Humanity and Professional Ethics	-	3	-	2	-	-	100	-	-	100
8	MC	ITM2002	Environmental Science*	2	-	-	-	-	-	50	-	-	50
<b>Total</b>				22	4	10	18	5	350	300	200	300	1150

**Semester : IV**

S.No.	Subject Category	Subject Code	Subject	Periods per Week*			Th. Credit	Pr. Credit	Maximum Marks				Total
				L	T	P			Th.	CW	SW	Pr.	
1	PCC	IT28501	Discrete Structures	4	-	-	3	-	70	30	-	-	100
2	PCC	IT28506	Computer Organization & Architecture	4	-	2	3	1	70	30	40	60	200
3	PCC	IT28503	Software Engineering	4	-	2	3	1	70	30	40	60	200
4	ESC	EC28553	Communication Engineering	4	-	-	3	-	70	30	-	-	100
5		HU28507	Economics for Engineers	4	-	-	3	-	70	30	-	-	100
6		IT28841	Systems Programming	-	2	2	-	3	-	-	40	60	100
7	PCC	IT28998	System Software Laboratory – II	-	-	2	-	1	-	-	40	60	100
8		IT28999	Scientific Computing	-	-	2	-	1	-	-	40	60	100
9	MC	HUM205 2	Essence of Indian Knowledge Tradition*	2	-	-	-	-	-	50	-	-	50

<b>Total</b>	22	2	10	15	7	350	200	200	300	1050
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\* Non credit mandatory subject  
 Two weeks training during semester break after semester IV is mandatory.

### III B.Tech.(4YDC) INFORMATION TECHNOLOGY

<b>SEMESTER - V</b>													
S.No.	Subject Category	Subject Code	Subject	Periods per Week*			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1		IT38001	Computer Networks	4	-	2	3	1	70	30	40	60	200
2		IT38002	Theory of Computation	4	1	-	4	-	70	30	-	-	100
3		IT38003	Operating Systems	4	-	2	3	1	70	30	40	60	200
4		IT38007	Design and Analysis of Algorithms	4	-	2	3	1	70	30	40	60	200
5		IT38005	Artificial Intelligence	4	-	-	3	-	70	30	-	-	100
6		IT38452	System Software Laboratory-III	-	-	2	-	1	-	-	40	60	100
7		IT38481	Industrial Training	-	-	-	-	2	-	-	100	-	100
8		HUM2001	Constitution of India	-	2	-	-	-	-	50	-	-	50
<b>Total</b>				20	3	8	16	6	350	200	260	240	1050
<b>SEMESTER - VI</b>													
S.No.	Subject Category	Subject Code	Subject	Periods per Week*			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1		IT38501	Distributed Computing	4	-	2	3	1	70	30	40	60	200
2		IT38513	DataBase Management Systems	4		2	3	1	70	30	40	60	200
3		IT38504	Web Engineering	4	-	2	3	1	70	30	40	60	200
4		IT38506	Compiler Design	4	-	2	3	1	70	30	40	60	200
5		IT38509	Advanced Computer Networks	4	-	2	3	1	70	30	40	60	200
6		IT38951	System Software Laboratory-IV	-	-	2	-	1	-	-	40	60	100
<b>Total</b>				20	0	12	15	6	350	150	240	360	1100

Two weeks training during semester break after semester VI is mandatory.

**IV B.Tech.(4YDC) INFORMATION TECHNOLOGY**

<b>SEMESTER - VII</b>													
S.No.	Subject Category	Subject Code	Subject	Periods per Week			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1		IT48052	Information Security	4	-	2	3	1	70	30	40	60	200
2		IT48051	Data Mining & Data Warehousing	4	-	2	3	1	70	30	40	60	200
3			<b>Elective-I</b>	<b>4</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>70</b>	<b>30</b>	<b>-</b>	<b>-</b>	<b>100</b>
4			Elective-II	4	-	2	3	1	70	30	40	60	200
5		<b>IT48482</b>	<b>Industrial Training</b>	-	-	-	-	<b>2</b>	-	-	<b>100</b>	-	<b>100</b>
6		<b>IT48498</b>	<b>Major Project Phase-I ( AB group)</b>	-	-	8	-	4	-	-	40	60	100
7		<b>IT48998</b>	<b>Major Project Phase-II ( BA group)</b>	-	-	8	-	4					
<b>Total</b>			For AB Group	16	0	14	12	9	280	120	260	240	900
			For BA Group	16	0	14	12	9	280	120	260	240	900
<b>SEMESTER - VIII</b>													
S.No.	Subject Category	Subject Code	Subject	Periods per Week			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1			Elective-III	4	-	2	3	1	70	30	40	60	200
2			Elective-IV	4	-	2	3	1	70	30	40	60	200
3		<b>IT48882</b>	<b>Industrial Training/Internship</b>	-	-	<b>8</b>	-	<b>4</b>	-	-	<b>100</b>	-	<b>100</b>
4		<b>IT48998</b>	<b>Major Project Phase-II ( AB group)</b>	-	-	<b>8</b>	-	<b>4</b>	-	-	<b>40</b>	<b>60</b>	<b>100</b>
5		<b>IT48498</b>	<b>Major Project Phase-I ( BA group)</b>	-	-	<b>8</b>	-	<b>4</b>	-	-			
<b>Total</b>			For AB Group	8	0	20	6	10	140	60	220	180	600
			For BA Group	8	0	20	6	10	140	60	220	180	600

Student require to complete \_\_\_\_\_ weeks of industrial training/internship during the semester break.

**IV B.Tech.(4YDC) INFORMATION TECHNOLOGY**

## List of Electives

Elective I			SEMESTER - VII
S.No.	Subject Category	Subject Code	Subject
1		IT48203	Wireless Network Systems
2		IT48216	Computer Graphics & Multimedia Systems
3		IT48211	Advanced Computer Architecture
4		IT48212	Parallel Distributed Algorithms
5		IT48204	Object Oriented Analysis And Design
Elective II			SEMESTER - VII
S.No.	Subject Category	Subject Code	Subject
1		IT48330	Cloud Computing
2		IT48301	Soft Computing
3		IT48302	Internet of Things
4		IT48303	Advanced Operating Systems

**IV B.Tech.(4YDC) INFORMATION TECHNOLOGY**

## List of Electives

Elective III			SEMESTER - VIII
S.No.	Subject Category	Subject Code	Subject
1		IT48601	Big Data Analytics
2		IT48603	Image Processing
3		IT48602	Cyber Securities and IT Laws
4		<b>IT</b>	<b>Mobile Computing</b>
5		IT48605	Information Retrieval
Elective IV			SEMESTER - VIII
S.No.	Subject Category	Subject Code	Subject
1		IT48702	Management Information Systems
2		IT48776	Software Project Management(IT4876)
3		IT48703	Simulation & Modeling
4		IT48704	Information Theory & Coding
5		IT48701	Machine Learning