

I YEAR B.Tech. (4YDC)
Common To All Branches (Admission year 2018 and Onwards)

Semester - A

S. No.	Subject Category	Subject Code	Subject Name	Periods per Week			Credits		Max Marks				
				L	T	P	Th	Pr	Theory		Practical		Total
									Th.	CW	SW	Pr.	
1	BSC	MA10001	Mathematics - I	4	1	0	4	0	70	30	0	0	100
2	BSC	PH 10006	Physics	4	1	2	4	1	70	30	20	30	150
3	ESC	CE10003	Fundamentals of Civil Engineering & Applied Mechanics	4	0	2	3	1	70	30	20	30	150
4	ESC	ME10149	Engineering Graphics	3	0	4	2	2	70	30	40	60	200
5	ESC	EE10005	Fundamentals of Electrical Engineering	4	0	2	3	1	70	30	20	30	150
6	MC	CH10200*	Environmental Science	0	1	2	-	-	0	0	100	0	100
TOTAL				19	3	12	16	5	350	150	200	150	850

Induction program of 3 week duration in July-Aug 2018

Semester - B

S. No.	Subject Category	Subject Code	Subject Name	Periods per Week			Credits		Max Marks				
				L	T	P	Th	Pr	Theory		Practical		Total
									Th.	CW	SW	Pr.	
1	BSC	MA10501	Mathematics – II	4	1	0	4	0	70	30	0	0	100
2	BSC	CH10506	Chemistry	4	1	2	4	1	70	30	20	30	150
3	HSMC	HU10651	Technical English	4	0	2	3	1	70	30	20	30	150
4	ESC	CO10504	Computer Programming	4	0	2	3	1	70	30	20	30	150
5	ESC	ME10650	Fundamentals of Mechanical Engineering	4	0	2	3	1	70	30	20	30	150
6	ESC	IP10581	Manufacturing Practices	0	1	4	0	3	0	0	40	60	100
7	MC	HU10699	Universal Human Values	2 Hrs per week working Saturday					0	100	0	0	100
TOTAL				20	3	12	17	7	350	250	120	180	900

* Mandatory Non credit course. PASS/FAIL status will appear in Marksheet

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II B.TECH.(4YDC) COMPUTER SCIENCE & ENGINEERING

Scheme 2020-21

Semester: III

S. No.	Subject Category	Subject Code	Subject Name	Periods per Week			Credits		Max Marks				
				L	T	P	Th	Pr	Theory		Practical		Total
									Th.	CW	SW	Pr.	
1	BSC	MA24003	Mathematics-III	4	1	-	4	-	70	30	-	-	100
2	PCC	CO24057	Object Oriented Programming Systems	4	1	2	4	1	70	30	40	60	200
3	PCC	CO24009	Computer Architecture	4	-	2	3	1	70	30	40	60	200
4	ESC	EC24010	Analog & Digital Electronics	4	-	2	3	1	70	30	40	60	200
5	HSMC	HU24005	Economics for Engineers	4	-	-	3	-	70	30	-	-	100
6	LC	CO24497	Programming Practices	-	1	2	-	2	-	-	40	60	100
7	ESC/LC	EC24498	Electronics Workshop	-	-	2	-	1	-	-	40	60	100
Total				20	3	10	17	6	350	150	200	300	1000
Optional Subject(s)													
8		OC-I	Open Category-I (Audit Only)	-	-	-	-	-	-	-	-	-	

Semester: IV

S. No.	Subject Category	Subject Code	Subject Name	Periods per Week			Credits		Max Marks				
				L	T	P	Th	Pr	Theory		Practical		Total
									Th.	CW	SW	Pr.	
1	PCC	CO24553	Discrete Structures	4	-	-	3	-	70	30	-	-	100
2	BSC	MA24554	Mathematics-IV	4	1	-	4	-	70	30	-	-	100
3	PCC	CO24507	Data Structures	4	1	2	4	1	70	30	40	60	200
4	PCC	CO24508	Operating Systems	4	-	2	3	1	70	30	40	60	200
5	OEC	EC24509	Digital Communication	4	-	2	3	1	70	30	40	60	200
6	LC	CO24992	Computer Workshop	-	-	2	-	1	-	-	40	60	100
7	LC	CO24991	Design Thinking Lab-I	-	-	2	-	1	-	-	40	60	100
8	HSBC	HU24881	Values, Humanity and Professional Ethics	0	3	0	2	-	0	100	-	-	100
Total				20	5	10	19	5	350	250	200	300	1100
Optional Subject(s)													
9		OC-II	Open Category-II (Audit Only)	-	-	-	-	-	-	-	-	-	

Internship of minimum 2 weeks to be carried out after semester A or semester B but before commencement of III year semester A.

Evaluation shall be done in III Year semester A.

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SEMESTER - V

S. No.	Subject Category	Sub. Code	Subject	Periods per Week			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1	PCC	CO34002	Theory of Computation	4	1	-	4	0	70	30	-	-	100
2	PCC	CO34005	Data Base Management Systems	4	1	2	4	1	70	30	40	60	200
3	PCC	CO34007	Computer Networks	4	1	2	4	1	70	30	40	60	200
4	PCC	CO34014	Agile Software Methodology	4	-	2	3	1	70	30	40	60	200
5	LC	CO34451	Skilled Development Lab.		-	2	0	1	0	0	20	30	50
6	LC	CO34452	Desing Thinking Lab.- II			2	0	1	0	0	20	30	50
7	OEC		Open Elective Course - I	4	1	0	4	0	70	30	0	0	100
8	SI	CO34481	Evaluation of Industrial Training/Internship-I				0	2	0	0	100	0	100
Total				20	4	10	19	7	350	150	260	240	1000
Optional Subject(s)													
6		OC-III	Open Category-III (Audit Only)	-	-	-	-	-	-	-	-		

SEMESTER - VI

S. No.	Subject Category	Sub. Code	Subject	Periods per Week			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1	PCC	CO34553	Machine Learning	4		2	3	1	70	30	40	60	200
2	PCC	CO34554	foundation of Information Security	4	-		3		70	30	0	0	100
3	PCC	CO34563	Design & Analysis of Algorithms	4	-	2	3	1	70	30	40	60	200
4	PEC		Elective-I	4	-	2	3	1	70	30	40	60	200
5	OEC		Open Elective Course - II	4	1	0	4	0	70	30	0	0	100
6	PCC	CO34881	Internet of Things		1	2	0	2	0	0	40	60	100
7	PROJ	CO34999	Major Project Planning & Seminar	-	-	4	-	2	-	-	40	60	100
Total				20	2	12	16	7	350	150	200	300	1000
Optional Subject(s)													
7		OC-IV	Open Category-IV (Audit Only)	-	-	-	-	-	-	-	-		

Internship/ Training of Minimum 2 weeks to be carried out after sem V/ sem VI, Evaluation shall be done in fourth year sem A.

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Open Elective Course - I		Semester V
S.No.	Sub. Code	Subject
1	CO34298	Artificial Intelligence
2	CO34299	Advance Entrepreneurship course
3		

Elective I		Semester VI
S.No.	Sub. Code	Subject
1	CO34601	Data Science and Engineering
2		Compiler Construction
3		Wireless and Mobile Networks
4	CO34602	Object Oriented Software Engineering
5		Computer Graphics
6		Embedded Systems

Open Elective Course - II		Semester VI
S.No.	Sub. Code	Subject
1	CO34701	Android Application Development
2		Open Source Technologies
3		IT Act

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SEMESTER - VII

S. No.	Sub. Code	Subject	Periods per Week			Th. Credit	Pr. Credit	Maximum Marks				
			L	T	P			Th.	CW	SW	Pr.	Total
1	CO44001	Artificial Intelligence	4	0	-	3	0	70	30	0	0	100
2	CO44003	Computer Interfacing & IoT	4	-	2	3	1	70	30	40	60	200
3	CO44051	Computer Graphics	4		2	3	1	70	30	40	60	200
4		Elective - I	4		-	3	0	70	30	0	0	100
5		Elective - II	4	-	2	3	1	70	30	40	60	200
6	CO44401	System Operations Lab	-	-	2	0	1	0	0	40	60	100
7	CO44499	Major Project Phase-I (AB group)	-	-	8	0	4	0	0	40	60	100
8	CO44999	Major Project Phase-II (BA group)										
Total		For AB Group	20	0	16	15	8	350	150	200	300	1000
		For BA Group	20	0	16	15	8	350	150	200	300	1000
Optional Subject(s)												
9		Open Category-III (Audit Only)	-	-	-	-	-	-	-	-		

SEMESTER - VIII

S. No.	Sub. 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	CO44881	Industrial Training/Internship/Seminar*				0	8			100	-	100
4	CO44999	Major Project Phase-II (AB group)	-	-	8	0	4	-	-	40	60	100
5	CO44499	Major Project Phase-I (BA group)										
Total		For AB Group	8	0	12	6	14	140	60	220	180	600
		For BA Group	8	0	12	6	14	140	60	220	180	600

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Elective I		SEMESTER - VII
S.No.	Sub. Code	Subject
1	CO44201	Soft Computing
2	CO44202	High Performance Computing(CO4423)
3	CO44203	Multimedia Systems(CO4477)
4	EI44204	VLSI Technology(EI4429)
5	CO44253	Distributed Computing(CO4453)
6	CO44205	Digital Image Processing

Elective II		SEMESTER - VII
S.No.	Sub. Code	Subject
1	CO44301	Data Science
2	CO44302	Graph Algorithms
3	MA44303	Simulation and Modeling
4	CO44304	Operation Research
5	CO44305	Advanced Computer Networks
6	CO44306	Computer Performance and Evaluation

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ElectiveIII		SEMESTER - VIII
S.No.	Sub. Code	Subject
1	CO44601	Machine Learning
2	CO44602	Cloud Computing(CO4479)
3	CO44603	Advanced Data Structures
4	CO44604	Software project Management(CO4478)
5	CO44605	Human-Computer Intraction(CO4488)
6	CO44606	Embedded Systems(CO4476)

Elective IV		SEMESTER - VIII
S.No.	Sub. Code	Subject
1	CO44702	Robotics and Vision Intelligence
2	CO44703	Compiler Construction (CO4482)
3	CO44704	Advanced Operating System(CO4481)
4	CO44701	Information and Network Security
5	CO44705	Advanced Databases(CO4490)