SECOND YEAR: INFORMATION TECHNOLOGY

SCHEME OF INSTRUCTION AND EXAMINATION (RC 2019-20)

SEMESTER - III

Course	Nomenclature of	Inst	eme truct s/We	ion		Scl	neme	of Exan	ninatio	on	
Code	the Course	L	Т	Р	Duration			Marks			Credits
		ь	I	Г	(Hrs)	Th	IA	TW**	P	Total	
IT310	Mathematics –III	3	1		3	100	25	25		150	4
IT320	Integrated Electronics	3			3	100	25			125	3
IT330	Computer Networks	3			3	100	25		-	125	3
IT340	Data Structures and Algorithms with C++	3	1		3	100	25	25		150	4
IT350	Software Engineering	3			3	100	25			125	3
IT360	Computer Hardware Lab			4				25	50	75	2
IT370	Computer Software Lab	- 1		4	-			25	50	75	2
HM001	Technical Communication	2						75	-	75	2
AC390	Mathematics I & II (*Bridge Course)	2									0
_	TOTAL	<u>19</u>	<u>2</u>	8		500	125	175	100	900	23

^{*}Applicable to direct second year /lateral entry students

Abbrevi ation	Description
L	Lecture
Т	Tutorial
P	Practical
0	Oral
Th	Theory
TW	Term Work
IA	Internal Assessment

^{**}Term Work marks are to be awarded through continuous evaluation

SECOND YEAR: INFORMATION TECHNOLOGY

SCHEME OF INSTRUCTION AND EXAMINATION (RC 2019-20)

<u>SEMESTER - IV</u>

Course	Nomenclature of	Inst	Scheme of Instruction Hrs/Week		Scheme of Examination								
Code	the Course	T	TÍ I		Duration	uration Marks Cre							
		L	1	P	(Hrs)	Th	IA	TW**	P	Total			
	Computational												
IT410	Techniques	3	1		3	100	25	25		150	4		
IT420	Embedded Systems	3			3	100	25	25		150	3		
	Object Oriented												
	Programming using												
IT430	Java	3			3	100	25			125	3		
IT440	Operating System	3			3	100	25			125	3		
	Design and Analysis of												
IT450	Algorithm	3	1		3	100	25			125	4		
	Algorithms &												
IT460	Programming Lab			4				25	50	75	2		
IT470	Software Systems Lab			4				25	50	75	2		
	Management &												
	Organizational												
HM004	Behaviour	3			3	100	25			125	3		
	TOTAL	<u>18</u>	<u>2</u>	<u>8</u>		600	150	100	100	950	24		

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Abbrevi ation	Description
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THIRD YEAR: INFORMATION TECHNOLOGY

SCHEME OF INSTRUCTION AND EXAMINATION (RC 2019-20)

SEMESTER - V

Course	Nomenclature of	Inst	eme truct s/We	ion		Scl	heme	of Exan	ninatio	on	
Code	the Course	L	Т	P	Duration			Marks	5		Credits
		ы	I	r	(Hrs)	Th	IA	TW*	P	Total	
IT510	Database Management System	3			3	100	25			125	3
IT520	Theory of Computation	3			3	100	25			125	3
IT531	Cloud Computing										
IT532	Software Testing & Quality Assurance										
IT533	Digital Signal Processing	2			2	100	25			125	3
IT534	Internet of Things	3			3	100	25			125	
IT541 IT542	Computer Graphics Statistical Models for Information Science Advanced Computer										
IT543	Architecture										3
IT544	Graph Theory	3			3	100	25			125	3
IT550	Database Application Lab			4				25	50	75	2
IT560	Modelling & Computing Lab			4				25	50	75	2
**	Open Elective	3			3	100	25			125	3
HM002	Technical English & Report Writing	3			3	100	25			125	3
	TOTAL	<u>18</u>	0	8		600	150	50	100	900	22

^{*}Term Work marks are to be awarded through continuous evaluation

L	T	P	0	Th	TW	IA
Lecture	Tutorial	Practical	Oral	Theory	Term Work	Internal Assessment

^{**} Student will have to enter the course code that he/she takes as part of the open elective

THIRD YEAR: INFORMATION TECHNOLOGY

SCHEME OF INSTRUCTION AND EXAMINATION (RC 2019-20)

SEMESTER - VI

Course	Nomenclature of the	Inst	eme truct s/We	ion		Sch	ieme (of Exar	ninati	on	
Code	Course	L	Т	P	Duration			Mark	S		Credits
		L	I	Г	(Hrs)	Th	IA	TW*	P	Total	
IT610	Principles of Compilers	3			3	100	25			125	3
IT620	Web Technology	3			3	100	25			125	3
IT631	Natural Language Processing										
IT632	Artificial Intelligence and Fuzzy Logic										
IT633	Distributed System										
IT634	Queuing theory and modelling	3		- 1	3	100	25			125	3
IT641	Java Programming										
IT642	Open Source s/w development										
IT643	Computer Forensics and Cyber Security										3
IT644	E Commerce	3			3	100	25			125	
IT650	Web Development Lab			4				25	50	75	2
IT660	Software Applications Lab			4				25	50	75	2
**	Open Elective	3			3	100	25			125	3
HM009	Ethics & Entrepreneurship	3		- 1	3	100	25			125	3
	TOTAL	<u>18</u>	<u>0</u>	8		600	150	50	100	900	22

^{*}Term Work marks are to be awarded through continuous evaluation

L	T	P	0	Th	TW	IA
Lecture	Tutorial	Practical	Oral	Theory	Term Work	Internal Assessment

^{**} Student will have to enter the course code that he/she takes as part of the open elective.

FOURTH YEAR: INFORMATION TECHNOLOGY

SCHEME OF INSTRUCTION AND EXAMINATION

(RC 2019-20)

SEMESTER - VII

Course	Nomenclature of	Ins	neme truct s/We	tion		Sch	eme (of Exai	ninati	on	
Code	the Course	L	Т	P	Duration		ı	Mark			Credits
			•	•	(Hrs)	Th	IA	TW*	0	Total	
IT710	Image Processing	3			3	100	25			125	3
	Professional Elective V										
IT721	Data Analytics										
	Wireless Sensor										
IT722	Networks										
IT723	Genetic Algorithms										
	Ad hoc and sensor										
IT724	networks	3			3	100	25			125	3
	Advanced Computing										
IT730	Lab			4				25	50	75	2
**	Open Elective III	3			3	100	25			125	3
IT740	Internship			6				50	50	100	3
IT750	Project Work -I			6				50	75	125	3
	TOTAL	9	<u>0</u>	<u>16</u>		300	75	125	175	675	17

^{*}Term Work marks are to be awarded through continuous evaluation

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FOURTH YEAR: INFORMATION TECHNOLOGY

SCHEME OF INSTRUCTION AND EXAMINATION (RC 2019-20)

SEMESTER - VIII

Course	Nomenclature of the	Ins	nemo truct s/W	tion	Scheme of Examination						
Code	Course	L	Т	P	Duration			Mark	S		Credits
		L	1	P	(Hrs)	Th	IA	TW*	0	Total	
	Cryptography and										
IT810	Network Security	3			3	100	25			125	3
IT821	Computer Vision										
IT822	Mobile Computing										
IT823	Advanced Data Structures										
IT824	Social Networking	3			3	100	25			125	3
	Elect										
	(nptel/mooc/swayam)										
	student can take this on-										
	line course between 6 to 8										
	sem. grades will be										
IT830	awarded in 8th sem.	3						50	50	100	3
IT840	Project Work -II			18				200	200	400	9
	<u>TOTAL</u>	<u>9</u>	0	<u>18</u>		200	50	250	250	750	18

^{*}Term Work marks are to be awarded through continuous evaluation

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0	Oral
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