

THIRD YEAR: INFORMATION TECHNOLOGY
SCHEME OF INSTRUCTION AND EXAMINATION

(RC 2019-20)

SEMESTER – V

Course Code	Nomenclature of the Course	Scheme of Instruction Hrs/Week			Scheme of Examination						
		L	T	P	Duration (Hrs)	Marks					Credits
						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	3	--	--	3	100	25	--	--	125	3
IT532	Software Testing & Quality Assurance										
IT533	Digital Signal Processing										
IT534	Internet of Things										
IT541	Computer Graphics	3	--	--	3	100	25	--	--	125	3
IT542	Statistical Models for Information Science										
IT543	Advanced Computer Architecture										
IT544	Graph Theory										
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

HM009	Ethics & Entrepreneurship	3	--	--	3	100	25	--	--	125	3
	<u>TOTAL</u>	<u>18</u>	<u>0</u>	<u>8</u>	--	600	150	50	100	900	22

*Term Work marks are to be awarded through continuous evaluation

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

LEGEND

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

THIRD YEAR: INFORMATION TECHNOLOGY
SCHEME OF INSTRUCTION AND EXAMINATION
(RC 2019-20)
SEMESTER – VI

Course Code	Nomenclature of the Course	Scheme of Instruction Hrs/Week			Scheme of Examination						
		L	T	P	Duration (Hrs)	Marks					Credits
						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	3	--	--	3	100	25	--	--	125	3
IT632	Artificial Intelligence and Fuzzy Logic										
IT633	Distributed System										
IT634	Queuing theory and modelling										
IT641	Java Programming	3	--	--	3	100	25	--	--	125	3
IT642	Open Source s/w development										
IT643	Computer Forensics and Cyber Security										
IT644	E Commerce										
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
HM002	Technical English & Report Writing	3	--	--	3	100	25	--	--	125	3
	<u>TOTAL</u>	<u>18</u>	<u>0</u>	<u>8</u>	--	600	150	50	100	900	22

*Term Work marks are to be awarded through continuous evaluation

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

LEGEND

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

FOURTH YEAR: INFORMATION TECHNOLOGY
SCHEME OF INSTRUCTION AND EXAMINATION
(RC 2019-20)

SEMESTER – VII

Course Code	Nomenclature of the Course	Scheme of Instruction Hrs/Week			Scheme of Examination						
		L	T	P	Duration (Hrs)	Marks					Credits
						Th	IA	TW*	O	Total	
IT710	Image Processing	3	--	--	3	100	25	--	--	125	3
IT721	Professional Elective V Data Analytics	3	--	--	3	100	25	--	--	125	3
IT722	Wireless Sensor Networks										
IT723	Genetic Algorithms										
IT724	Ad hoc and sensor networks										
IT730	Advanced Computing 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
	<u>TOTAL</u>	<u>9</u>	<u>0</u>	<u>16</u>	--	300	75	125	175	675	17

*Term Work marks are to be awarded through continuous evaluation

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

LEGEND

Abbrevia tion	Description
L	Lecture
T	Tutorial
P	Practical
O	Oral

Th	Theory
TW	Term Work
IA	Internal Assessment

Annexure -I
INFORMATION TECHNOLOGY COURSE
SCHEME OF INSTRUCTION AND EXAMINATION REVISED COURSE 2019-2020
SEMESTER – VIII

Course Code	Nomenclature of the Course	Scheme of Instruction Hrs/Week			Duration (Hrs)	Scheme of Examination						
		L	T	P		Marks						Credits
						Th	IA	TW*	O	OC S	Total	
IT810	Cryptography and Network Security	3	0	0	3	100	25	0	0	--	125	3
IT821	Computer Vision	3	0	0	3	100	25	0	0	--	125	3
IT822	Mobile Computing											
IT823	Advanced Data Structures											
IT824	Social Networking											
IT830	#Elective - NPTEL / MOOC / SWAYAM	3	0	0	--	0	0	25 [#]	0	75 [#]	100	3
IT840	Project Work - Phase II	0	0	18	--	0	0	200	200	--	400	9
	<u>TOTAL</u>	9	0	18	--	200	50	225	200	75	750	18

* Term Work marks are to be awarded through continuous evaluation

Students should mandatory undertake one NPTEL course of only 3 credits from the list of approved online courses of Goa University during their 5th semester to 7th semester.

#Online **Assignments** Score obtained will be considered/scaled accordingly for Term Work (TW) and **Proctored Exam** Score will be considered/scaled accordingly for Online Course Score (OCS) of NPTEL / MOOC / SWAYAM certification course. The score obtained shall be rounded to near higher integer.

LEGEND

Abbrevia tion	Description
L	Lecture
T	Tutorial
P	Practical
O	Oral
Th	Theory
TW	Term Work
IA	Internal Assessment
OCS	Online Course Score

