



UTTARAKHAND BOARD OF TECHNICAL EDUCATION
INSTITUTE OF RESEARCH DEVELOPMENT & TRAINING
(STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME)



BRANCH NAME : CYBER FORENSICS AND INFORMATION SECURITY

SEMESTER – III

BRANCH CODE : 49

Course Code	Course Title	TH	T	P	T O T	EVALUATION SCHEME						Total Marks	Total Credit
						Internal Assessment		External					
		Periods Per Week				Theory	Practical	Theory		Practical			
		Max Marks	Max Marks	Max Marks	Duration in Hrs.	Max Marks	Duration in Hrs.						
433003	Data Structure using 'C'	4	0	4	8	30	20	50	2.5	50	3.0	150	6
493001	Data Communication & Networking	4	0	4	8	30	20	50	2.5	50	3.0	150	6
493002	Introduction to Cyber Security	4	0	4	8	30	20	75	2.5	75	3.0	200	6
433005	Web Technologies	4	0	4	8	30	20	50	2.5	50	3.0	150	6
433001	Discrete Mathematics	4	0	0	4	50	0	50	2.5	0	-	100	4
433002	Computer System Organisation	4	0	4	8	30	20	50	2.5	50	3.0	150	6
013054	General Proficiency	0	0	4	4	0	25	0	-	-	-	25	0
493052	Industrial Exposure	-	-	-	0	0	25	0	-	-	-	25	0
AS301	Summer Internship-I (3-4 Week duration after II Sem)	-	-	-	0	0	25	0	-	25	3.0	50	2
	Total	24	0	24	48	200	175	325	-	300	-	1000	36



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BRANCH NAME : CYBER FORENSICS AND INFORMATION SECURITY

SEMESTER – IV

BRANCH CODE : 49

Course Code	Course Title	TH	T	P	T O T	EVALUATION SCHEME						Total Marks	Total Credit
						Internal Assessment		External					
		Periods Per Week				Theory	Practical	Theory		Practical			
		Max Marks	Max Marks	Max Marks	Duration in Hrs.	Max Marks	Duration in Hrs.						
494001	Fundamental of Python Programming	4	0	2	6	30	20	50	2.5	50	3.0	150	5
434006	Introduction to DBMS	4	0	2	6	30	20	50	2.5	50	3.0	150	5
494002	Cyber Security Laws	4	0	0	4	30	0	50	2.5	0	-	80	4
494003	Design & Analysis of Algorithms	4	0	2	6	30	20	50	2.5	50	3.0	150	5
474005	Object Oriented Programming using 'JAVA'	4	0	2	6	30	20	50	2.5	50	3.0	150	5
434003	Introduction to Operating Systems	4	0	2	6	30	20	50	2.5	50	3.0	150	5
454007 454008	Elective: Artificial Intelligence & Machine Learning or, Soft Computing	4	0	0	4	30	0	50	2.5	0	-	80	4
AS401	Essence of Indian Traditional Knowledge (Audit Course)	2	0	0	2	0	0	50	2.5	0	-	50	0
AS402	Minor Project	0	0	4	4	0	20	0	-	70	3.0	90	2
014054	General Proficiency	0	0	4	4	0	25	0	-	0	-	25	0
494052	Industrial Exposure	0	0	0	0	0	25	0	-	0	-	25	0
	Total	30	0	18	48	210	170	400	-	320	-	1100	35



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SEMESTER – V

BRANCH CODE : 49

Course Code	Course Title	TH	T	P	T O T	EVALUATION SCHEME						Total Marks	Total Credit
						Internal Assessment		External					
						Theory	Practical	Theory		Practical			
						Max Marks	Max Marks	Max Marks	Duration in Hrs.	Max Marks	Duration in Hrs.		
Periods Per Week													
495001	Cyber Forensics	6	0	8	14	30	20	75	2.5	75	3.0	200	10
435005	Data Science: Data Warehousing & Data Mining	6	0	8	14	30	20	75	2.5	75	3.0	200	10
435004	Elective-1: Fundamentals of Cloud Computing or, Renewable Energy Technologies	5	0	0	5	50	0	50	2.5	0	-	100	5
435008													
455005	Elective-2: Total Quality Management or, Multimedia Technologies	5	0	0	5	50	0	50	2.5	0	-	100	5
435006													
435002	Open Elective: Internet of Things or, Smart Systems	4	0	0	4	50	0	50	2.5	0	-	100	4
435007													
AS501	Summer Internship-II (4-6 week duration after IV Sem)	-	-	-	0	0	50	0	-	50	3.0	100	3
AS502	Major Project-I	0	0	2	2	0	50	0	-	100	3.0	150	1
015054	General Proficiency	0	0	4	4	0	25	-	-	-	-	25	0
495052	Industrial Exposure	0	0	0	0	0	25	-	-	-	-	25	0
		26	0	22	48	210	190	300	-	300	-	1000	38



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SEMESTER – VI

BRANCH CODE : 49

Course Code	Course Title	TH	T	P	T O T	EVALUATION SCHEME						Total Marks	Total Credit
						Internal Assessment		External					
						Theory	Practical	Theory		Practical			
						Max Marks	Max Marks	Max Marks	Duration in Hrs.	Max Marks	Duration in Hrs.		
Periods Per Week						Max Marks	Max Marks	Max Marks	Duration in Hrs.	Max Marks	Duration in Hrs.	Total Marks	Total Credit
496001	Ethical Hacking	8	0	4	12	30	20	75	2.5	75	3.0	200	10
496002	Open Elective-1: Web Designing or, Mobile Application Security	6	0	0	6	50	0	50	2.5	0	-	100	6
496003													
456005	"Open Elective - 2 Project Management or, Industrial Engineering & Management	6	0	0	6	50	0	50	2.5	0	-	100	6
456006													
496004	Program Elective-1: Network Forensics or, Data Base Security	6	0	0	6	50	0	50	2.5	0	-	100	6
496005													
AS601	Indian Constitution (Audit Course)	2	0	0	2	0	0	50	2.5	0	-	50	0
AS602	Entrepreneurship and Starts-Ups	4	0	0	4	50	0	100	2.5	0	-	150	4
AS603	Major Project-II	0	0	6	6	0	50	0	-	150	3.0	200	3
AS604	Seminar	2	0	0	2	0	50	0	-	0	-	50	1
016054	General Proficiency	0	0	4	4	-	25	-	-	-	-	25	0
496052	Industrial Exposure	0	0	0	0	-	25	-	-	-	-	25	0
		34	0	14	48	230	170	375	-	225	-	1000	36

General Proficiency : will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, NCC, NSS, cultural activities and discipline etc.

Industrial Exposure : compulsory at minimum 2 Industries or Departments.

Major Project: It is divided in to two parts (Major Project-I & Major Project-II). Major Project will be initiated in V Semester and will get complete in VI Semester.

Note :-

1. Each period will be of 50 minutes.
2. Each session will be of 16 weeks.
3. Effective teaching will be at least 12.5 weeks.