



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



BRANCH NAME: CONSTRUCTION AUTOMATION

SEMESTER – III

BRANCH CODE: 48

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
023006	Fluid Mechanics	4	0	4	8	30	20	50	2.5	50	3.0	150	6
443001	Mechanics of Materials	4	0	4	8	30	20	50	2.5	50	3.0	150	6
023002	Basic Surveying	4	0	4	8	30	20	50	2.5	50	3.0	150	6
023004	Building Material & Construction	4	0	4	8	30	20	50	2.5	50	3.0	150	6
443002	Theory of Structures	4	0	4	8	30	20	50	2.5	50	3.0	150	6
443003	Fundamental of Irrigation Engineering	4	0	0	4	50	0	100	2.5	0	-	150	4
AS301	Summer Internship - I (3-4 Week Duration After II Sem)	-	-	-	-	0	25	-	-	25	3.0	50	2
013054	General Proficiency	0	0	4	4	0	25	-	-	-	-	25	0
483052	Industrial Exposure	-	-	-	-	0	25	-	-	-	-	25	0
	Total	24	0	24	48	200	175	350	-	275	-	1000	36



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BRANCH NAME: CONSTRUCTION AUTOMATION

SEMESTER – IV

BRANCH CODE: 48

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.		
024001	Advanced Surveying	4	0	4	8	30	20	50	2.5	50	3.0	150	6
024002	Concrete Technology	4	0	4	8	30	20	50	2.5	50	3.0	150	6
484001	Construction Equipment & Automation	4	0	2	6	30	20	50	2.5	50	3.0	150	5
444002	Transportation Engineering	4	0	2	6	30	20	50	2.5	50	3.0	150	5
444003	Water Supply & Waste Water Engineering	4	0	2	6	30	20	50	2.5	50	3.0	150	5
444004	Solid Waste Management	4	0	0	4	50	0	50	2.5	0	-	100	4
AS401	Essense 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	-	30	3.0	50	2
014054	General Proficiency	0	0	4	4	0	25	0	-	0	-	25	0
484052	Industrial Exposure	0	0	0	0	0	25	0	-	0	-	25	0
	Total	26	0	22	48	200	170	350	-	280	-	1000	33



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BRANCH NAME: CONSTRUCTION AUTOMATION

SEMESTER – V

BRANCH CODE: 48

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
445001	Design of Steel & RCC Structures	4	0	8	12	30	20	50	2.5	50	3.0	150	8
025002	Geotechnical Engineering	4	0	8	12	30	20	50	2.5	50	3.0	150	8
485001	Elective-1: Quality Control & Safety Measures or,	5	0	0	5	30	0	70	2.5	0	-	100	5
445003	Building Services & Maintenance												
445004	Elective-2: Foundation Engineering or,	5	0	0	5	30	0	70	2.5	0	-	100	5
445005	Environmental Act & Legislation												
445006	Open Elective: Economic Policies in India or,	4	0	0	4	30	0	70	2.5	0	-	100	4
445007	Engineering Economics & Accounting												
445009	Building Information Modelling	4	0	0	4	50	0	50	2.5	0	-	100	4
AS501	Summer Internship-II (4-6 week duration after IV Sem)	-	-	-	-	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	0	-	0	-	25	0
485052	Industrial Exposure	0	0	0	0	0	25	0	-	0	-	25	0
	Total	26	0	22	48	200	190	360	-	250	-	1000	38



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BRANCH NAME: CONSTRUCTION AUTOMATION

SEMESTER – VI

BRANCH CODE: 48

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.						
446001	Estimating Costing & Valuation	8	4	0	12	30	20	100	2.5	50	3.0	200	12
486001 486002	Open Elective-1: Robotics in Construction or, Additive Manufacturing in Construction	6	0	0	6	30	0	70	2.5	0	-	100	6
446004 446005	Open Elective-2: Disaster Management or, Environmental Impact Assessment	6	0	0	6	30	0	70	2.5	0	-	100	6
446006 446007	Program Elective: Precast And Prestressed Concrete or, Renewable Energy Technologies	6	0	0	6	30	0	70	2.5	0	-	100	6
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	0	25	0	-	0	-	25	0
486052	Industrial Exposure	0	0	0	0	0	25	0	-	0	-	25	0
	Total	34	4	10	48	170	170	460	-	200	-	1000	38

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.