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

BRANCH NAME: COMMUNICATION AND COMPUTER NETWORKING **SEMESTER – IV**

BRANCH CODE: 47

Course Code	Course Title	TH	T	P	TOT	Internal Assessment Theory Max Marks	Internal Assessment Practical Max Marks	External Theory Max Marks	External Theory Duration in Hrs.	External Practical Max Marks	External Practical Duration in Hrs.	Total Marks	Total Credit
		Periods Per Week											
474001	Digital Communication Systems	4	0	2	6	30	20	50	2.5	50	3.0	150	5
474002	Advance Networking	4	0	2	6	30	20	50	2.5	50	3.0	150	5
474003	Electronic Measurement & Instrumentation	4	0	0	4	30	0	70	2.5	0	-	100	4
434003	Introduction to Operating System	4	0	2	6	30	20	50	2.5	50	3.0	150	5
474004	Microprocessors and Peripheral Devices	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
454007 454008	**Elective:** Artificial Intelligence & Machine Learning **or,** Soft Computing	4	0	0	4	30	0	70	2.5		-	100	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	-	-	30	3.0	50	2
014054	General Proficiency	0	0	4	4	-	25	-	-	-	-	25	0
474052	Industrial Exposure	0	0	0	0	-	25	-	-	-	-	25	0
	Total	30	0	18	48	210	170	440	-	280	-	1100	35

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.