



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



BRANCH NAME: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

SEMESTER – IV

BRANCH CODE: 43

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													
434001	Algorithms	4	0	2	6	30	20	50	2.5	50	3.0	150	5
434002	Object Oriented Programming using C++	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
434004	Artificial Intelligence	4	0	2	6	30	20	50	2.5	50	3.0	150	5
434005	Mathematical and Statistical Foundations	4	0	0	4	30	0	50	2.5	0	-	80	4
434006	Introduction to DBMS	4	0	2	6	30	20	50	2.5	50	3.0	150	5
434007	Elective: System Software or, Computer Networks	4	0	0	4	30	0	50	2.5	0	-	80	4
434008													
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	-	70	3.0	90	2
014054	General Proficiency	0	0	4	4	0	25	0	-	0	-	25	0
434052	Industrial Exposure	0	0	0	0	0	25	0	-	0	-	25	0
	Total	30	0	18	48	210	170	400	-	320	-	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.