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 – V**

BRANCH CODE: 43

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											
435001	Scripting Languages (Python)	6	0	6	12	30	20	50	2.5	50	3.0	150	9
435002	Internet of Things	6	0	6	12	30	20	50	2.5	50	3.0	150	9
435003 435004	**Elective-1:** Machine Learning **or,** Fundamentals of Cloud Computing	5	0	0	5	50	0	50	2.5	0	-	100	5
435005 435006	**Elective-2:** Data Sciences : Data Ware housing and Data Mining **or,** Multimedia Technologies	5	0	0	5	50	0	50	2.5	0	-	100	5
435007 435008	**Open Elective:** Smart Systems **or,** Renewable Energy Technologies	4	0	0	4	50	0	50	2.5	0	-	100	4
435009	Machine Learning in Python Lab	0	0	4	4	0	30	0	-	70	3.0	100	2
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
435052	Industrial Exposure	0	0	0	0	0	25	0	-	0	-	25	0
	Total	26	0	22	48	210	220	250	-	320	-	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.