



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



**BRANCH NAME – AUTOMATION AND ROBOTICS**

**SEMESTER – III**

**BRANCH CODE - 46**

Course Code	Course Title	TH	T	P	T O T	EVALUATION SCHEME						Total Marks	Total Credit
						Internal Assessment		External					
		Hours Per Week				Theory	Practical	Theory		Practical			
		Max Marks	Max Marks	Max Marks	Duration in Hrs.	Max Marks	Duration in Hrs.						
463001	An Introduction to Robotics	4	0	0	4	50	0	50	2.5	0	-	100	4
453004	Analog Electronics & Devices	4	0	4	8	30	20	50	2.5	50	3.0	150	6
453003	Digital Electronics	4	0	0	4	50	0	50	2.5	0	-	100	4
433004	'C' Programming	4	0	4	8	30	20	50	2.5	50	3.0	150	6
453002	Electrical Machines	4	0	4	8	30	20	50	2.5	50	3.0	150	6
463002	Kinematics & Dynamics of Machines	4	0	4	8	30	20	50	2.5	50	3.0	150	6
463003	Computer Aided Machine Drawing (With Solid Works)	0	0	4	4	0	50	0	-	50	3.0	100	2
AS301	Summer Internship-I (3-4 Week duration After II sem)	-	-	-	-	-	25	-	-	25	3.0	50	2
013054	General Proficiency	0	0	4	4	-	25	-	-	-	-	25	-
463052	Industrial Exposure	-	-	-	-	-	25	-	-	-	-	25	-
	<b>Total</b>	<b>24</b>	<b>0</b>	<b>24</b>	<b>48</b>	<b>220</b>	<b>205</b>	<b>300</b>	<b>-</b>	<b>275</b>	<b>-</b>	<b>1000</b>	<b>36</b>

**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.