

B.Voc. Robotics & Automation

Proposed Syllabus Structure (University Style)

Sem	Subject Code	Subject Title	Credits	Marks
I	BRA101	Engineering Mathematics-I	4	100
I	BRA102	Basics of Robotics	4	100
I	BRA103	Electrical & Electronics Fundamentals	4	100
I	BRA104	Workshop Practice	3	100
I	BRA105	Communication Skills	2	50
II	BRA201	Engineering Mathematics-II	4	100
II	BRA202	Sensors and Actuators	4	100
II	BRA203	Programming for Automation	4	100
II	BRA204	CAD for Robotics	3	100
II	BRA205	Environmental Studies	2	50
III	BRA301	Industrial Automation	4	100
III	BRA302	PLC Programming	4	100
III	BRA303	Microcontrollers	4	100
III	BRA304	Industrial Training-I	3	100
IV	BRA401	Embedded Systems	4	100
IV	BRA402	Hydraulics & Pneumatics	4	100
IV	BRA403	Machine Vision	4	100
IV	BRA404	Industrial Training-II	3	100
V	BRA501	Artificial Intelligence for Robotics	4	100
V	BRA502	IoT & Smart Manufacturing	4	100
V	BRA503	Robot Programming	4	100
V	BRA504	Project-I	4	100
VI	BRA601	Collaborative Robots	4	100
VI	BRA602	Maintenance & Safety	4	100
VI	BRA603	Entrepreneurship Development	3	100
VI	BRA604	Major Project	6	200

Marks Distribution: Theory Subjects: Internal Assessment 30 + End Semester 70 = 100 Marks.
 Practical/Training/Project: Continuous Assessment 50 + Viva/Practical 50 = 100 Marks.