

(Bachelor of Vocation) – Electrician Skills

Duration: 3 Years (6 Semesters)

Program Type: Undergraduate Degree Program

Total Credits: 120 Credits

Note: Subject codes may vary by university. The following is a standard UGC/NSQF-aligned syllabus structure for B.Voc. Electrician Skills.

Semester I

Subject Code	Subject Name	Credits
BES101	Communication Skills	4
BES102	Applied Mathematics	4
BES103	Applied Physics	4
BES104	Fundamentals of Electrical Engineering	6
BES105	Electrical Workshop Practice-I	6
BES106	Computer Fundamentals	4

Total Credits: 28

Semester II

Subject Code	Subject Name	Credits
BES201	Environmental Studies	4
BES202	Engineering Drawing	4
BES203	Electrical Machines-I	6
BES204	Wiring Installation & Maintenance	6
BES205	Electrical Workshop Practice-II	6

Subject Code	Subject Name	Credits
BES206	Employability Skills	2

Total Credits: 28

Semester III

Subject Code	Subject Name	Credits
BES301	Electrical Machines-II	6
BES302	Industrial Electronics	6
BES303	Power Generation Systems	4
BES304	Testing & Commissioning of Electrical Equipment	6
BES305	Practical Training-I	6
BES306	Entrepreneurship Development	2

Total Credits: 30

Semester IV

Subject Code	Subject Name	Credits
BES401	Power Transmission & Distribution	6
BES402	Electrical Measurements & Instruments	4
BES403	Renewable Energy Systems	4
BES404	Industrial Wiring & Automation	6
BES405	Practical Training-II	6

Subject Code	Subject Name	Credits
BES406	Soft Skills Development	2

Total Credits: 28

Semester V

Subject Code	Subject Name	Credits
BES501	PLC & Industrial Automation	6
BES502	Electrical Safety & Regulations	4
BES503	Energy Management & Audit	4
BES504	Maintenance of Electrical Systems	6
BES505	Industrial Internship-I	8
BES506	Project Planning	2

Total Credits: 30

Semester VI

Subject Code	Subject Name	Credits
BES601	Advanced Electrical Systems	6
BES602	Smart Grid Technology	4
BES603	Industrial Project Management	4
BES604	Industrial Internship-II	8
BES605	Major Project & Dissertation	6

Subject Code	Subject Name	Credits
BES606	Viva Voce	2