

SR Corporate Consultant Pvt. Ltd.

In Collaboration With

Tata Institute Of Social Sciences

Bachelor of Vocation (B.Voc)
In
Renewable Energy



About Bachelor in Vocation (B.Voc)

B.Voc. course is introduced with an aim to incorporate requirements of various industries into its curriculum.

B.Voc. is a three year degree program. Here we are offering the Bachelor of Vocation (B. Voc) course with specialization in **Renewable Energy Management**. UGC has given approval for this course to several institutes across the country. The course offers multiple exit points. Students can leave :

- At the end of first year with a **Diploma (In Solar Energy)**,
- At the end of second year with an **Advanced Diploma (In Solar & Alternate Energy)**,
- And at the end of three years with a **Degree (In Renewable Energy Technology)**.

Why B. Voc?

The curriculum offers a unique blend of vocational and business management concepts. Field visits, internships, guest lecturers from industry experts, experimental learning are some of the highlights of this curriculum.

The course helps ensure students have:

Certification with **Experience** and adequate skills to make them **Company ready** or **Work ready**.

Enhance employability of graduates, One can also apply for Govt. Vacancies of relevant field and thus make them part of global workforce.

Eligibility for Admission

The eligibility condition for admission to B.Voc programme in Renewable Energy Technology shall :

For Advance Diploma-2 years Course:

- A. Diploma in relevant trade from AICTE/UGC/Recognized body/ university/ institution.
- B. NSQF level 05 passed AICTE/ Community college system from a recognized university.

For Diploma-1 years Course:

- A. 10+2 Pass preferably Maths & Science with from a recognized board
- B. 10th pass with NSQF Level 4 certification from a recognized university/ SSC with min 02 years of work experience.
- C. ITI from NCVT/SCVT/recognized board.

Semester wise Distribution of Credits

Semester	Vocational Theory Credits	Vocational Theory Hours	Vocational Practical Credits	Vocational Practical Hours	General Education Credits	General Education Hours	Total Hours
Semester 1	6	90	12	360	12	180	630
Semester 2	6	90	12	360	12	180	630
Semester 3	6	90	12	360	12	180	630
Semester 4	6	90	12	360	12	180	630
Semester 5	6	90	12	360	13	195	645
Semester 6	6	90	12	360	13	195	645
Total	36	540	72	2160	74	1110	3810

Syllabus for Renewable Energy Technology

YEAR I			
SEMESTER	SUBJECT CODE	SUBJECT	CREDIT
I	RET 1.01	Fundamentals of Solar Energy	2
	RET 1.02	Solar Radiation and Energy Conversion	2
	RET 1.03	Solar Thermal Engineering and Solar Thermal Engineering & Application	2
	RET VP 1.1	Lab-Photo-Voltaic (Vocational Practical)	12
	GE 1.1	English-I	6
	GE 2.1	Communication Skill-I	6
II	RET 2.01	Solar Photo Voltaic System and Plants	2
	RET 2.02	Site assessment array structural design	2
	RET 2.03	Solar Energy storage and Load Management	2
	RET VP 2.1	Installation of 1 KW Project of Stand Alone PV System (Vocational Practical)	12
	GE 1.2	English-II	6
	GE 2.2	Communication Skills-II	6
YEAR II			
SEMESTER	SUBJECT CODE	SUBJECT	CREDIT
III	RET-3.01	Bio-Gas, Bio-Mass & Bio Fuels	2
	RET 3.02	Environmental Impact Assessment (EIA) Waste to Energy Conversions	2
	RET 3.03	Micro-Hydro Power, Hydrogen Energy and Fuel Cell	2
	RET VP 3.1	Lab-Alternate Energy Generation (Vocational Practical)	12
	GE 2.3	Communication Skills-III	6
	GE 3.1	Basics of Computing Skills-I	6
	RET 4.01	Wind Energy Technology & Systems	2

IV	RET 4.02	Other Renewable Energy Resources	2
	RET 4.03	Solar Architect & Green Concept in building	2
	RET VP 4.1	Minor Project Report Submission (Vocational Practical)	12
	GE 2.4	Communication Skills -IV	6
	GE 3.2	Basics of Computing Skills-II	6
YEAR-III			
SEMESTER	SUBJECT CODE	SUBJECT	CREDIT
V	RET 5.01	Power Plant Engineering	2
	RET 5.02	Energy Management Auditing & Energy Conversion	2
	RET 5.03	Economics & Financing of Renewable Energy Systems	2
	RET VP 5.1	Practical Estimation and Costing of RE projects (Vocational Practical)	12
	GE 4.1	Basics of Accounts-I	4
	GE 5.1	Livelihood-I	6
	GE 6.1	Finishing School-I	3
VI	RET 6.01	Introduction to Energy Financing	2
	RET 6.02	Grid Integration and Distributed Generation of RE	2
	RET 6.03	Operations and Maintenance & plant safety.	2
	RET VP 6.1	Major Project report Submission (Vocational Practical)	12
	GE 4.2	Basics of Account-II	4
	GE 5.2	Livelihood-II	6
	GE 6.2	Finishing School-II	3

Fee Structure

The fee is Rs. **39000 per year** which will be covered by the stipend money provided to the students as The course Designed as “A work-integrated **“Earn as you Learn”** Degree Program, In which student will get **stipend money minimum of Rs. 4000 per month**. Hence it is independent of money also.