

SYLLABUS FOR ENTRANCE EXAM 2024-25
BACHELOR OF VOCATION IN RENEWABLE ENERGY TECHNOLOGY & MANAGEMENT
PT. RAVISHANKAR SHUKLA UNIVERSITY
RAIPUR, CHHATTISGARH

The question paper for entrance test will comprise of 50 questions from General Science, Environment & Climate Change, Current Affairs & General Aptitude, Govt sensitization schemes for Youth as Swacchh Bharat Mission, Digital India, Make in India and other, Proficiency in English, Analytical reasoning, Quantitative ability.

WORK ENERGY AND POWER

Work done by force, energy, power, Elastic collisions, Potential energy, Gravitational potential energy and its angular conversion to kinetic energy, Potential energy of a spring.

CURRENT ELECTRICITY

Electric current, Ohm's law, Kirchoff's laws, resistances in series and parallel, temperature dependence of resistance, wheat stone bridge, and potentiometer. Measurement of voltages and currents.

ELECTROMAGNETIC INDUCTION AND ALTERNATING CURRENT

Magnetic flux, Electromagnetic induction induced emf Faraday's law, Lenz's law, self and mutual inductance, Alternating currents impedance and reactance growth and decay of current in L-R circuit, elementary idea of dynamo and transformer.

SEMICONDUCTOR

Elementary ideas of conductor, semiconductor and insulator, intrinsic and extrinsic semiconductors, Diode, transistor, oscillator, digital circuit and logic gates.

BASICS OF RENEWABLE ENERGY

Introduction to Energy, Types of renewable sources, effect of renewable on environment, Photoelectric effect, PV technologies, Solar Spectrum, History & Basics of the Technologies, Renewable energy in Indian & world Context, Government Plans related to renewable energy sources, Biomass, Green House effect

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COORDINATOR
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