CENTRE FOR ENERGY STUDIES.

Annexure 1

(List of Eligible/ Shortlisted Candidates)

(Specialization wise)

S. No.	Name of Candidate	Father's Name	Category	Specialisation in order o
1	Sagun Kaliya	Chaman Lal	General	Energy Technology
2	Aanchal Sharma	Jagdish Chand Sharma	General	Energy Technology
3	Rohan	Tilk Raj	SC	Energy Technology
4	Rishav Verma	Hem Raj Verma	General	Energy Technology
5	Himanshu Singh*	Charan Singh	SC	Energy Technology

*subject to production of final mark sheet of the Btech degree within stipulated time frame

(List of Non-Eligible Candidates)

S.No.	Name of Candidate	Father's Name	Category	Reason for Non-Eligibility

Dr. Varun
(Nominated by Chairman Senate)
(Member)

Prof. N. S. Thakur 14/08/2023.
Member Secretary

Dr. Arvind Gautam DoCHE
(Member)

Dr. Mamta Awasthi
Chairperson & Head

CES

M.Tech Energy Technology (Self-Sponsored) Entrance Examination Syllabus

Energy Scenario: Global and National Energy Scenario, Indian Energy Policy and Act, Energy Conservation Act, 2001, Energy Fundamentals: Basics of Energy and its Various Forms, Units of Energy. Energy Economics: Basic Concepts of Economics and Costing, Environmental aspects of energy, Global warming, Greenhouse effect, Sustainable Development, Sustainable Development Goals of United Nations. Energy and sustainable development goals,

Renewable Energy Basics: Solar energy technologies, Wind energy technologies, Biomass energy, Hydropower, Geothermal energy

Energy Efficiency & Conservation: Energy Efficiency, Energy conservation, Energy efficient appliances, Energy Management, Demand side management, Energy audit, Power factor improvement, Pyramid of Energy Conservation, Green Buildings

Energy Storage, Electric vehicles, grid to vehicle and vehicle to grid, Fuel cells operation and classification, Biomass energy processes, applications, biogas plants. Hydrogen energy, Green Hydrogen, Energy Storage, Micro and Nanogrids.Green computing, Handling of solar PV waste and e-waste.

Energy Management: Concept of energy management, energy demand and supply, economic analysis; Energy conservation Act. Energy Conservation: Basic concept, energy conservation in Household, Transportation, Agricultural, service and Industrial sectors, Lighting, Heating Ventilation & Air Conditioning. Tariffs and Power factor improvement in power system, Demand Side management concept, Energy Efficient Practices and Technologies.

Ecology, Environment & Climate Change Environment, Natural resource, Greenhouse gas, Global warming, Mountains, Energy resource, Biological processes, Microorganism, Decomposers, Consumers, Food chain, Food web, Microbiology and health: Pathogens and modes of transmission; Indicator organisms; Quantification of coliforms using MPN and membrane filtration techniques. Water conservation and quality, Threats to water resources; Bio Diversity, Environmental degradation

14/8/2023.