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Master of Technology (M.Tech.) in Renewable Energy

[Gandhigram Rural Institute](#)



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Master of Technology (M.Tech.) in Renewable Energy

The **Master of Technology M.Tech. in Renewable Energy** is designed for those with strong analytical skills and a love for math. It can open a number of exciting job opportunities in the renewable energy industry, and graduates have been highly sought after. Among other benefits of this program, it leads to excellent employment prospects. You can also pursue research, development, and teaching in this growing industry. After you graduate from this course, you will be able to apply for a variety of related jobs.

The Master of Technology M.Tech. in the renewable Energy program is a graduate-level course that focuses on the design, operation, and management of renewable energy technologies. The M.Tech. course trains future energy managers. Students can specialize in solar, wind, hydro, and biofuels, among other renewable energy technologies. This advanced degree program can lead to employment in non-technical sectors and can lead to a lucrative career in the renewable-energy industry. In addition, renewable-energy professionals may also work as researchers, regional managers, design engineers, or project developers.

Benefits of Master of Technology M.Tech. in Renewable Energy

A M.Tech in Renewable Energy is designed for aspirant candidates with good analytical skills and a flair for mathematics. Its unique curriculum gives students the opportunity to study renewable energy technologies such as wind, solar, geothermal, biomass, and water. The degree can lead to excellent career opportunities in energy consulting, manufacturing, and the power industry. After graduation, students can choose to pursue a Ph.D. in the field of

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Master of Science (M.Sc.) Computer Science

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Bachelor of Science (B.Sc.) Computer Science

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Bachelor of Education (B.Ed)

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Bachelor of Education (B.Ed)

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Master of Education



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sustainable energy. The **Master of Technology in Renewable Energy** curriculum has an innovative emphasis on sustainable energy and the environment.

The course will teach you the latest technologies and practices for renewable energy. The M.Tech in Renewable Education will equip you with the skills to successfully navigate this field. This program emphasizes sustainable energy generation and transmission, efficient energy use, and regulatory and economic development. In addition to specializing in energy management, you will develop leadership and business skills. You will learn how to manage, and develop teams, as well as developing creative approaches to policy and regulation. And you'll have the opportunity to work on a number of projects in the field. If you're interested in renewable energy, this program is a great choice.

Eligibility for M.Tech. in Renewable Energy

Candidates who are interested in earning an **M.Tech. in Renewable Energy** can apply at accredited colleges and universities. Applicants must have an aggregate score of 55% in their graduation examinations. Candidates having Bachelor’s Degree in Electrical/ Electronics/ EEE/ Mechanical/ Chemical/ Aerospace/ Renewable Energy with a valid GATE score in any of the engineering disciplines are eligible for admission.

Future Scope of M.Tech. in Renewable Energy













A M.Tech in Renewable Energy offers advanced theoretical and practical knowledge in the field of energy production and management. Graduates can pursue a career in academic research, engineering, or business. The course is suitable for students looking for a career in the green energy sector. The **M.Tech. in Renewable Energy** degree program focuses on technological and regulatory knowledge, in sustainable energy systems and energy-efficient buildings.

The curriculum also includes courses on the role of the government in the development of sustainable energy technologies, as well as the environmental and health impacts of the energy industry. The M.Tech. in Renewable Energy is highly versatile. Graduates can pursue research or teaching jobs. Other job opportunities exist in major industrial companies that produce drilling equipment and supplies or in startups that are entering the renewable energy field. Further studies in renewable energy can help one advance their career. If this is not enough, further study can help them earn an [MBA](#). There are several career paths after M.Tech. In the field of renewable energy.

Career Opportunities and Job Prospects of M.Tech. in Renewable Energy

M.Tech. in Renewable Energy is an advanced degree that is geared towards aspirant students with strong analytical skills. It is an ideal course for those who want to pursue a career in energy production and have an aptitude for mathematics. The course is designed to provide excellent job prospects in various areas like the power industry, manufacturing industry, and consulting firms. The course will also prepare the students for future research and development in the field. There is a vast scope of careers in renewable energy. The demand for clean and renewable energy sources has risen substantially in recent years.

According to the International Energy Agency, by 2025, 95% of all new power capacity will come from renewables. These sources of energy include solar PV, onshore wind turbines, geothermal, biomass, and geothermal systems. The sector is growing quickly and provides a range of career opportunities for graduates. In addition to the aforementioned careers, renewable energy has a large demand in the UK. In fact, the Renewables 2020 report estimates that it will account for 95% of the world's power capacity by 2025. This will create




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thousands of new jobs in the country, mainly in manufacturing and engineering. As a result, the ***M.Tech. in Renewable Energy*** will offer a range of exciting career options.

Course duration and fee details of M.Tech. in Renewable Energy

The program consists of four semesters, each lasting six months for two years. The total fees for the completion of the program are 1 lacs to 3 lacs INR or it may vary from college to college.

 Campus	 University	 Delivery Mode
Dindigul	Gandhigram Rural Institute	

Eligibility	 Duration	 Type of Course
BTECH or Equivalent Degree in Relevant Stream	2 Years	Post Graduate

Syllabus of Master of Technology (M.Tech.) in Renewable Energy

S.No	1st Year Syllabus of M.Tech. in Renewable Energy
1	Energy Scenario & Energy Forms
2	Fuels & Combustion
3	Instrumentation, Control, and Automation
4	Project & Financial Management in Energy Sector
5	Green Buildings
6	Waste heat recovery and cogeneration
7	Energy Lab
9	Solar Thermal Technologies
10	Energy conversion – thermal systems
11	Small hydropower system
12	Waste of Energy

S.No	2nd Year Syllabus of M.Tech. in Renewable Energy
1	Solar power generation through the PV route
2	Renewable Energy Policies



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Diploma in Yoga and Naturopathy (DYN)

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MBA (Master of Business Administration)

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MBA (Agriculture & Food Business)

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Master of Education (M.Ed.)

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Bachelor of Education (B.Ed)

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Master of Fine Arts (M.F.A.)

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Master of Indian Classical Vocal

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Bachelor in Fisheries Sciences

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Master in Fisheries Science

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B.Com LLB (Bachelor of Commerce + Bachelor of Laws)

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Master of Law (LLM)

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6	Summer Internship Seminar
7	Project

Gandhigram Rural Institute Highlights

Established in	1976
University Type	Deemed University
Recognized by	UGC , AICTE ,
Courses	33

	<u>Dr. M.G.R. Educational and Research Institute Chennai, Chennai ...</u>
	<u>Mother Teresa Women's University, Madurai ...</u>
	<u>Manonmaniam Sundaranar University, Tirunelveli ...</u>
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