Name of the programme	Name of Course	Duration of Course	Number of seats sanctioned	Eligibility Criteria
M.Tech.	Energy & Environment Engineering	2	18	B.E./ B.Tech. or equivalent degree in Mechanical/ Chemical/ Electrical / Electronics/ Civil/ Environmental/ Agricultural Engineering/ Biotechnology or M.Sc. Environmental Sciences or any allied subject of Life Sciences/ Physical Sciences/ Chemical Sciences/ Earth Sciences with at least 50% marks in aggregate (45% marks for SC/ST candidates of Haryana only). Result awaited (Qualifying Exam.) candidates can apply.

FORMAT or program-Specific Career Options to be uploaded on Council's Website:

1	duration	s to be uploaded on Council's Website: M. Tech Energy & Environmental Engg. (Duration 2	
2	MOU's and Collaboration for	years)	
	this program	The program has been started in December 2020 only.	
		Programs have recently been organized in association	
	•	with ASSOCHAM and MOU's and Collaboration will be	
3	Business Houses/ Companies	approached soon	
	which visits Campus for	 Energy and Environment Consultancies for Small and 	
	recruitment	Micro Sector	
		International Development Agencies	
		 Industry CSR Divisions & Foundations working for 	
		Energy Sector	
		 Voluntary Organizations working in Energy and 	
	Details of Rusiness II	Environment Sectors at Grassroots	
	Details of Business Houses/	 Ministries and Policy Wings of the Central & 	
	Companies offering in-industry	State Governments	
	projects/ training	Energy and Environment Consultancies for Small	
		and Micro Sector	
		International Development Agencies	
	•	Industry CSR Divisions & Foundations working for Energy Sectors	
		for Energy Sector	
		Voluntary Organizations working in Energy and	
		Environment Sectors at Grassroots	
		Industries	
		• Gram Power,	
		• Selco,	
		Reinenergy	
		Urjasamaadhan,	
		Batti ghar foundation	
		Mera Gao Power,	
		Onergy	
		Rural Spark,	
	15	Simpa Networks	
	Projects/ training offered by	The Centre is planning to offer diploma course in	
	University	Industrial health and Safety as well as Energy Auditing	
	Entrepreneurship	Students completing degrees in the centre would be	
	Opportunities	equipped with a set of technological, design and	
		managerial skills which would enable them to make	
		significant contributions to the Energy and	
		Environment Sector. It is expected that some of the	
		entrepreneurially minded ones would develop an	
	· · · · · · · · · · · · · · · · · · ·	innovation mindset and they would launch their own	
		energy enterprises or join start-ups working on	
		issues relevant to energy and environment. Students	
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2		have a challenging and creative career which they would experience, it would also ensure creation of employment and wealth at the grassroots level. Graduates of various programs would be eligible to apply for the position of Environmental Engineers at State and Central Government pollution control boards upon qualifying relevant examinations.
7	Opportunities in Education Sector	Yes
8	Opportunities as Social Worker	& Energy Manager
9	Opportunities in other Nations	Yes, as both the issues are Global in nature hence expertise is also globally applicable
10	Opportunities as an Academician	Yes, can work as an Energy Policy Planner and provide expertise on environmental issues of prime importance
11	Opportunities for Nation Development	Energy Auditor & Environmental Auditor Environmental Impact Assessment
12	Opportunities as Consultant	Yes, in both Energy as well as environment sectors
13	Opportunities for self-	Under CES, research on various fields, such as Clean and
	employment and How	Sustainable Technologies in the areas of
	program leads to livelihood?	biomass, combustion and utilization of fuels, solar
		energy, hydro, clean coal and also prime movers
		like new cycle using supercritical CO2, energy storage,
	•	1 1
		gas turbines, IC engines for alternative fuels,
		smart grids, etc. as well as smart grids shall also be
		taken up. Towards addressing efficient energy
	,	conversion, the centre will also focus on the
		technological aspects of climate change and mitigation
		options on other environmental issues associated with
		Energy.
14	Role/ Details of Specific	Ministries
	Membership for the program	 Ministry of Power (MoP)
	(for eg. CII, AIMA, ISTE, IAA	 Ministry of New and Renewable (MNRE)
	etc.)	 Ministry of Environment, Forest and Climate
		Change (MoEF&CC)
		 Ministry of Housing and Urban Poverty Alleviation
		 Ministry of Human Resource Development
		 Ministry of Rural Development/ Ministry of
		Panchayati Raj
		- Ministry of Science and Technology
		Autonomous institutions
		- Central Electricity Authority of India (MoP)
		- Bureau of Energy Efficiency (MoP)
		- Central Electricity Regulatory Commission (MoP)
1		- Solar Electricity Regulatory Commission (MoP)
		- Solar Energy Corporation of India (MNRE)
		- National Institute of Solar Energy (MNRE)

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		 Pesearch institutions PDPU, DHRE-IITR, CoEs in IITs, IISc, IIITs, NITS, Jadavpur, TERI etc. Energy power trading Indian Energy Exchange (IEX) Power Exchange India Limited (PXIL) Funding organizations National Solar Energy Federation of India (NSEFI) Power Finance Corporation (PFC) Indian Renewable Energy Development Agency (IREDA) Banks Smart Power India (Rockefeller Foundation) Bill & Melindra Gates Foundation CSRs
15	Aptness of the program with future challenges	The Energy sector is undergoing dramatic change. Energy is one of the principal issues facing the globe today, and consequently, the expansion of reasonable and competent energy sources is on the top. Although the National goals on energy and environment are reflected in various programs, the University as a cluster can move forward on the way to meet some of the goals. Through research and development, CES would like to contribute to the burning issues related to the energy scenario in the country. This program may also suggest solution for various burning Energy & Environmental problems
16	Can program contribute in rural development? How?	Yes, may help in solving the problem of rural energy needs and environmental issues
17	Industrial Visits related to the program made by students	Trainings have been arranged in Haryana State Pollution Control Board and IIT Delhi. Industrial visits shall be taken up shortly once the pandemic situation stabilizes.

HOD/ Chairperson Deptt. of_

University Name J.C. Ruse Univerty of Science & Teknology