

# Master of Science in Alternative Energy (KPT/JPS(PA 2730)10/18)



## PROGRAMME DESCRIPTION

Master of Science in Alternative Energy has been designed to provide students with the knowledge regarding the issues related to alternative energy sources as well as sustainable energy sources. The course helps the students to understand the types of alternative energy technologies with in-depth knowledge of the technology for bio-energy and the systems modeling and optimization to provide opportunities to learn about other renewable energy technologies, energy sector economics, supply chain management and sustainable development, to further broaden their career opportunities.

## PROGRAMME AIM

The programme helps the students to acquire an understanding of the need of alternative sources and the importance of energy efficiency. The course offers information in the field of alternative energy by providing them with foundation knowledge and skills required for resolving the challenges of the energy industry and the community in general with respect to energy development, provision and utilization. It is essential to train the manpower development in this upcoming global industrialization age, in the area of alternative energy by providing professional expertise.

## PROGRAMME DURATION Full Time : 18 Months, Part Time: 36 Months.

## INTAKE AND ENTRY REQUIREMENTS

1. January.
  2. May.
  3. September.
- ▶ Bachelor's degree in engineering or physical sciences / pure as Chemistry, Physics, Geology, biotechnology or in a related field with a minimum CGPA 2.50

## LIST OF COURSE/MODULE OFFERED IN THE PROGRAMME

	COURSE NAME	CREDIT HOURS
Year 1 - Semester 1	Natural Forms of Energy: Over Utilization and Under Utilization	4
	Energy Conversion Devices	4
	Science of Renewable Energy	4
	Environmental Impact from Energy Use	4
	Energy Efficiency	3
	Student has to choose Elective I or II or III from ENR ENP and ENB group	
Year 1 - Semester 2	<b>ELECTIVE I: RESEARCH AND DEVELOPMENT</b>	
	Current Global State of Alternative Energy	4
	Advances in Alternative Energy Technologies	4
	Greenhouse Gas Reduction Methodology and Applications	4
	Second Generation Biofuels	4
	Research Methodology	3

	COURSE NAME	CREDIT HOURS
	<b>ELECTIVE II: PUBLIC POLICY AND ADVOCACY</b>	
	Government Role in Alternative Energy	4
	Energy Ethics and Sustainability	4
	Energy Self-Sufficiency	4
	Responsibility of Oil Producing Nations in Developing Alternative Energy	4
	<b>ELECTIVE III: ENTREPRENEURIAL</b>	
Overcoming Barriers of Alternative Energy	4	
Economics of Alternative Energy	4	
Business Plan Development	4	
Positioning for Global Expansion in Alternative Energy	4	

Year 2 - Semester 3	<b>Research Paper</b> (Research & Development / Public Policy and Advocacy / Entrepreneurial)	10
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