

VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF EEE

Centre for Renewable Energy Systems (CRES)

Mission of CRES

“To advance renewable energy technology so as to provide substantial and sustainable energy options for present and future generations and Contributing to the development and implementation of Renewable Energy technologies through high quality research and demonstration”

Areas of expertise:

Solar PV Technology, Wind energy, Power conversion systems and control strategies (Stand alone and grid integrated systems), DC homes, Training

Current focus areas:

Sponsored Projects:

S.No	Title	Funding agency	Amount	Principal Investigator	Status
1	Design and Implementation of MPPT DC Link and Static converter for Smart and Micro grid Application	UGC	2.85 L	Mr. D.S.G. Krishna Assistant Professor	On going
2	Indo UK Joint venture (EPSRC-DST) for Clean Energy- Super Gen Network- PV Powered Battery system integrated to grid (Proposal sent)	DST	8.85 L	Dr. K. Anuradha Mr. D.S.G. Krishna	Proposal submitted
3	Modeling, simulation & Implementation of Integration and control of Renewable energy sources for Power generation	UGC	4.9 L	Dr. K. Anuradha	Proposal submitted

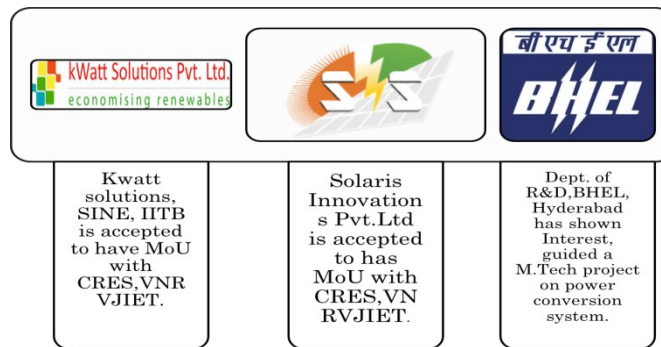
Trainings & Workshops conducted :

S.No	Title	Type of Training	Scope	Attended students	Frequency
1	Solar Clan	Workshop (Two days)	Hands on shouldering sessions on basic electronic & electric circuits powered by solar panels	II B.Tech students of all branches of VNR VJIET & other colleges	Yearly once
2	Solar Photovoltaic technologies and Embedded systems applications	Certificate course (45 hrs)	Solar power plant erection software, PCB design. Arduino	III B.Tech students of EEE	Yearly once

			based Projects complete hands on sessions		
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Industry Interaction:

S. No	Academic Year	No of students got interns	Company
1	2014-15	6	kWatt Solutions, SINE, IIT Bombay
2	2015-16	6	kWatt Solutions, SINE, IIT Bombay



Publications:

S. No	Type of Publication	No of Papers	In communication
1	International journals (PEER Reviewed)	3	1
2	International conferences (IEEE Conference)	1 (ACCEPTED)	2

On going academic Projects:

S. No	Type of Publication	No of Projects going on	Description
1	II B.Tech EEE Students	2	<ul style="list-style-type: none"> Different Solar charging circuits
2	III B.Tech EEE	3	<ul style="list-style-type: none"> Integration of Non conventional methods of

			<p>Energy generation like noise, Pressure</p> <ul style="list-style-type: none"> • Solar powered gate triggering circuits, conversion systems
3	IV B Tech EEE	2	<ul style="list-style-type: none"> • ANN based MPPT controller • DC link for Inverter
4	II M Tech PE	2	<ul style="list-style-type: none"> • Cascaded Mppt tracking based on ANN • Efficient and quick Z- source quadratic inverter for DC Homes