









About NIT-Tiruchirappalli:

National Institute of Technology (formerly-Regional Engineering College) was started as jointly by Indian Govt. and Tamilnadu Govt. in 1964 and registered under societies registration Act XXVII, 1975. NIT bestowed as autonomous in finance and administration, hence granted Deemed University Status by UGC/AICTE and Indian Govt. in 2003. Institute offers 10 UG courses, 21 PG courses in science, Engineering & Technology besides M.S and Ph.D (about 250 Scholars) in all departments. R&D activities funded by consultancies, DST, CSIR, ISRO, DRDO, DEITY, UGC and AICTE reached exponential growth. The faculty is inducted through a process of open advertisement throughout the country. The institute is an example of cultural unity with students drawn from most of the states in the country.

CO-ORDINATORS

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Organized by

DEPARTMENT OF EEE & ICE

NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI-620015.

Scope of the Workshop:	Workshop Deliverables	ONE DAY WORKSHOP ON
India is the second-largest producer of horticultural		RECENT TRENDS IN COLD STORAGE
commodities in the world. However, about Rs.133 bn worth		
of commodilies are wasted due to fack of adequate cold storage facilities. But the major challenges for setting up of	Solar Cooling Technologies for Cold Storage	SYSTEM
cold storages with present technologies are: Cost of running	Systems	18 th December 2019
by grid or gen-set in the absence of grid power. Solar energy	Basic structures, Maintenance and	Pogistration Form
based cold storage system is now becoming technologically	Management of cold storage	Registration Form
and economically sound alternative to grid power and can be	Wanagement of Cold Storage	1.Name :
deployed in far of remote places. Phase Change Material	Study of cold storage of horticultural	2.Qualification :
(PCM) has great potential in energy storage and helps to	commodities and other Perishables	3 Designation &
reduce the mismatch between the energy supply and demand in the cold storage system. By considering the above factors	➤ Technical Session on Innovative Hybrid	
a prototype Solar Photovoltaic powered Cold Storage System	Cold Storage System	Department :
with PCM has been designed, fabricated and tested for its	Cold Storage System	4.Experience :
energy efficiency and cost-effectiveness in NITT with support	Operation of Cold Storage system -	5.Organization :
of IIFPT, Thanjavur. This project is Fully funded by DST,	Experimental demonstration	6.Communication
Govt. of India with Project Number:		
TMD/CERI/BEE/2016/044(G) dt.22-12-2016. Solar energy		Address :
runs the cold storage system as well as charging the PCM during the douting. The charged PCM maintains the		
temperature of the cold room during night-time or in the		
absence of solar energy. This system will be highly useful for		
the farmers and retailers reducing the post-harvesting losses		
and increasing the shelf life of the horticultural commodities		
with minimum operating cost compared to the conventional	<u>Who can apply?</u>	7.Contact Number :
cold storage system.	Industrial People wholesale retailer farmers	
This course is intended to address the design,	faculties research scholars from Cout (Aided	9 Empil
Photovoltaic powered Cold Storage System. The workshop	Jucuities, research scholars from Govi. /Aldea	o.Emaii :
methodology includes classroom lectures as well as lab visit.	Self-Financing Engineering colleges and other	
Resource Persons	institutions.	
1. Dr. V. Mariannan, Associate Professor/MECH / NITT		Signature of the Applicant
2. Dr. S. SenthilKumar, Associate Professor/EEE/NITT		
3. Dr. M. Loganathan, Professor & Head, Department of		
Academic and Human Resource Development, IIFPT,		
Thanjavur.		Signature of sponsoring authority with seal
4. Dr. V. R. Sinija, Professor and Head, Incubation Centre,	*No Degistration Eas	
IIFPT, Thanjavur.	*no kegistration fee	