



THIAGARAJAR COLLEGE OF ENGINEERING - MADURAI 625 015
TCE-III

S.No	One credit course need analysis sheet	
1.	Name of the Course	Solar Power Plant
2.	Name of the Industry	National Instruments
3.	Name of the SIG associated with	
4.	Motivation for offering the course	
4.1	Feedback (If yes, Details of the feedback as per the annexure I)	
	From Recruiter	Y/N ✓
	From Employer	Y/N ✓
	From Alumni	Y/N ✓
	From Academic Council members	Y/N ✓
	From Board of Studies members	Y/N ✓
	From Senior students	Y/N ✓
	From current students	Y/N ✓
	From Performance Assessment Committee	Y/N ✓
	From Department Advisory committee	Y/N ✓
4.2	Faculty participation in Seminar/FDP (If yes, details)	
	At higher learning institutes	
	At Industry	
5.	Outcomes expected	
	Technology transfer	
	Student Internship	
	Placement	
	Organizing FDP/seminar at TCE	
	Collaborative research/consultancy projects	
	Faculty as Trainee/Trainer in the Industry	
	Joint publications	
	Setting up of Lab/Infrastructure	



THIAGARAJAR COLLEGE OF ENGINEERING - MADURAI 625 015

TCE-III

Course Schedule

Name of the Course: Solar Power Plant
 Name of the Industry: National Instruments, Bangalore.
 Name of the Expert: Mr. S. Ananth Kumar.
 Number of Students enrolled: 33
 Name of the Faculty: Dr. B. Ashok Kumar.
 Date/Time/Venue:

List Enclosed

Date	Time	Topics	Remarks
Day1			
Day2			

B. Ashok Kumar

Signature of the Faculty coordinator

Thiagarajar College of Engineering, Madurai-15
 (A Govt. Aided ISO 9001:2008 Certified Autonomous Institution affiliated to Anna
 University)
 Department of Electrical & Electronics Engineering

31.07.16

One credit course
E1N-Solar Power Plant
 Schedule

Date	9 AM -10.30 AM	11.AM-1.00 PM	2.00 PM – 3.30 PM	3.45 PM-5.15 PM
30.07.16	Solar power plant- Solar Panels - Thin film, Csi- Solar Panel characteristics - Types of Inverters- Central, String, Micro-Inverters-	Solar Power Plant - Layout and other equipments- PV Penetration level- Analysis of any power plant layout architecture	Inverters- Inverter Topology-DC Link reference, Switching Topologies, Over modulation strategy- Booster-	Grid Synchronization - PLL, IN-rush current- MPPT Algorithms - P&O, Incremental conductance, Fast sweep- Current controller and Voltage feed forward- Stability Analysis.
31.07.16	Grid Codes - Standards - Protection- Relay self test, PV Insulation Test, Residual current, ARC fault detection-	Remote power-off for fireman's option- Power Quality- Harmonics, Flicker Test- V / F Disconnection for various countries- Anti-islanding	Grid support functionality- Ride-through, Reactive Power – Types, Active power derating with frequency.	Applications- PV Diesel, Island inverters - with external UPS.



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Course Instructor Feedback for One/Two credit course

TCE-III

Name of the Course: Solar Power Plant
Name of the Industry: National Instruments, Bangalore
Name of the Expert: Mr. S. Ananth Kumar.
Date/Time/Venue:

	Comments
Student attendance	33
Level of the students in understanding the concepts	Good
Any suggestions regarding new content to be included as Prerequisites/Special electives	Practical Sessions can be conducted.
Hall/Lab arrangements	Good
Hospitality	Good

S. K. Kumar

Signature of Head of the Department

Thiagarajar College of Engineering, Madurai-15
 (A Govt. Aided ISO 9001:2008 Certified Autonomous Institution affiliated to Anna
 University)
 Department of Electrical & Electronics Engineering

30.07.16

One credit course
 Student Attendance

Semester: VII EEE (A&B)

S.NO	REG NO	NAME OF THE STUDENT	30.07.16(FN)	30.07.16(AN)	31.07.16(FN)	31.07.16(AN)
1.	13E58	MANOBALA P.	P. Manobala	P. Manobala	P. Manobala	P. Manobala
2.	13E64	MUTHU LAKSHMI T.	T. Muthulakshmi	T. Muthulakshmi	T. Muthulakshmi	T. Muthulakshmi
3.	13E68	NAVEEN S.	N. Naveen	N. Naveen	N. Naveen	N. Naveen
4.	13E69	NAVRIN AASHIKA A.	A. Navrin Aashika	A. Navrin Aashika	A. Navrin Aashika	A. Navrin Aashika
5.	13E72	PADMAVATHI K.	K. Padma	K. Padma	K. Padma	K. Padma
6.	13E73	PASUMPONRAJA M.	M. Pasumponraja	M. Pasumponraja	M. Pasumponraja	M. Pasumponraja
7.	13E76	RAGUL M.	M. Ragul	M. Ragul	M. Ragul	M. Ragul
8.	13E77	RAJARAM S.	S. Rajaram	S. Rajaram	S. Rajaram	S. Rajaram
9.	13E78	RAKESH KUMAR	K. Rakesh	K. Rakesh	K. Rakesh	K. Rakesh
10.	13E79	RAKESH S.	S. Rakesh	S. Rakesh	S. Rakesh	S. Rakesh
11.	13E80	RAMESH KUMAR M.	M. Ramesh Kumar	M. Ramesh Kumar	M. Ramesh Kumar	M. Ramesh Kumar
12.	13E84	RISHMA M.	M. Rishma	M. Rishma	M. Rishma	M. Rishma
13.	13E85	SABAREE PRASATH G.H.	H. Sabaree Prasath	H. Sabaree Prasath	H. Sabaree Prasath	H. Sabaree Prasath
14.	13E88	SANTHIYAGU A.	A. Santhiyagu	A. Santhiyagu	A. Santhiyagu	A. Santhiyagu
15.	13E89	SANTHOSH KUMAR V.	V. Santhosh Kumar	V. Santhosh Kumar	V. Santhosh Kumar	V. Santhosh Kumar
16.	13E93	SATHYA E.	E. Sathya	E. Sathya	E. Sathya	E. Sathya
17.	13E94	SELVARAJ S.	S. Selvaraj	S. Selvaraj	S. Selvaraj	S. Selvaraj
18.	13E96	SHEIK MOHAMED A.	A. Sheik Mohamed	A. Sheik Mohamed	A. Sheik Mohamed	A. Sheik Mohamed
19.	13E97	SHIRYANSI S.	S. Shiryansi	S. Shiryansi	S. Shiryansi	S. Shiryansi
20.	13E100	SUJATHA K.	K. Sujatha	K. Sujatha	K. Sujatha	K. Sujatha
21.	13E101	SUNDARA LAKSHMI G.	G. Sundara Lakshmi	G. Sundara Lakshmi	G. Sundara Lakshmi	G. Sundara Lakshmi
22.	13E102	SUSHMITHA SRI N.S.	S. Sushmitha Sri N.S.	S. Sushmitha Sri N.S.	S. Sushmitha Sri N.S.	S. Sushmitha Sri N.S.
23.	13E104	THARUN K.	K. Tharun	K. Tharun	K. Tharun	K. Tharun
24.	13E105	THEYVALAKSHMI S.	S. Theyvalakshmi	S. Theyvalakshmi	S. Theyvalakshmi	S. Theyvalakshmi
25.	13E107	UMA MAHESWARI S.	S. Umamaheswari	S. Umamaheswari	S. Umamaheswari	S. Umamaheswari
26.	13E109	VAISHNAV M.	M. Vaishnav	M. Vaishnav	M. Vaishnav	M. Vaishnav
27.	13E110	VENGALA MOORTHY A.	A. Vengala Moorthy	A. Vengala Moorthy	A. Vengala Moorthy	A. Vengala Moorthy
28.	13E112	VENKATESH M.	M. Venkatesh	M. Venkatesh	M. Venkatesh	M. Venkatesh
29.	13E113	VENKATESH R.	R. Venkatesh	R. Venkatesh	R. Venkatesh	R. Venkatesh
30.	13E117	VISHNU PRIYA R.	R. Vishnu Priya	R. Vishnu Priya	R. Vishnu Priya	R. Vishnu Priya
31.	13E122	GOWRI J.	J. Gowri	J. Gowri	J. Gowri	J. Gowri
32.	13E135	SITHANTH BAGATH SINGH S.P.	P. Sithanth Bagath Singh	P. Sithanth Bagath Singh	P. Sithanth Bagath Singh	P. Sithanth Bagath Singh
33.	13E136	SIVANANDA BALAJI D.	D. Sivananda Balaji	D. Sivananda Balaji	D. Sivananda Balaji	D. Sivananda Balaji

B.18
 (B. Ashok Kumar)