



THIAGARAJAR COLLEGE OF ENGINEERING - MADURAI 625 015
TCE-III

S.No	One credit course need analysis sheet	
1.	Name of the Course	VLSI Implementation Of Communication ^{- Transceivers}
2.	Name of the Industry	Texas Instruments
3.	Name of the SIG associated with	VLSI
4.	Motivation for offering the course	Integrates VLSI Architecture theory and algorithms for the implementation of communication transmitter or receiver.
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	Yes
	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	-



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Attendance sheet for the one/two credit

Name of the Course: VLSI implementation of communication transceivers

Name of the Industry: Texas Instruments

Name of the Expert: Mr. Kasthide Subburaj, Mr. Sundarajan, Mr. Indhu Prabhakaran

Number of Students enrolled: 30

Name of the Faculty: K. Kalpana

Date/Time/Venue: 14.9.13
21.9.13 - 9:30 - 4:30 PM - Electronics Lab, Dept of ECE, TCE
28.9.13

S.No	Reg.No	Name	Department	Signature

K. Kalpana

Signature of the Faculty Coordinator



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TCE-III

Course Schedule

Name of the Course: VLSI Implementation of communication transceivers

Name of the Industry: Texas Instruments, Bangalore.

Name of the Expert: Mr. Karthick Subbaraj, Mr. Sundarajan.R, Mrs. Indu Prathapan

Number of Students enrolled: 20

Name of the Faculty: K. Kalpana

Date/Time/Venue: Electronics LAB., ECE Dept, TCE

Date	Time	Topics	Remarks
Day1 14.9.13	9:30 - 12:30	Communication Transceivers - Intro Course Study, FM transceiver	-
	1:30 - 4:30	Digital Design - RTL, Digital filters, Multivibrator, Implementation	-
Day2 21.9.13.	9:30 - 12:30	PLL Basics: Introduction - Applications in Commu	-
	1:30 - 4:30	- carrier transceiver, Envelope & fractional PLL	-
		Analog Vs Digital PLL, PLL models	-
Day3 28.09.13	9:30 - 12:30	PLL Advanced: Specifications of PLL, Phase Noise	-
	1:30 - 4:30	Building blocks of PLL: VCO, PFD, Digital PLL on FPGA	-

K. Kalpana

Signature of the Faculty coordinator



THIAGARAJAR COLLEGE OF ENGINEERING - MADURAI 625 015

Course Instructor Feedback for One/Two credit course

TCE-III

Name of the Course: VLSI Implementation of communication hardware

Name of the Industry: Texas Instruments, Bangalore.

Name of the Expert: Mr. Kasthuri Subburaj, Mr. Sundar Rajan, Mrs. Indle Prabhakaran

Date/Time/Venue: 14.9.13

21.9.13 - 9:30 - 4:30PM - Electronics Lab, Dept of ECE, TCE

28.9.13

	Comments
Student attendance	100%
Level of the students in understanding the concepts	Excrete (In project works)
Any suggestions regarding new content to be included as Prerequisites/Special electives	-
Hall/Lab arrangements	Good
Hospitality	Good

[Signature]

Signature of the Course Instructor

[Signature]

Signature of Head of the Department

VLSI IMPLEMENTATION OF COMMUNICATION TRANSCEIVERS

(14.9.13, 21.9.13, 28.9.13)

ATTENDANCE: ECE (10th yr)

S.No	Name	Reg.No
1.	BALAMURUGAN.L	11D13
2.	DIVYA.S	11D24
3.	EVANGELINE.M	11D25
4.	FRANCIS FLEMING.Y	11D26
5.	GANESH KUMAR.P	11D27
6.	GAYATHRI.S	11D31
7.	HEMALATHA.S	11D37
8.	JAYAKRISHAN.P	11D40
9.	MAKESH KANNA,P.G	11D56
10.	MANIRAJAN.G	11D58
11.	NANTHAKUMAR.P	11D68
12.	NIRANJANA.T	11D70
13.	OMNATH,P.P	11D71
14.	PORKODI,A.G	11D74
15.	PREETHAM KUMAR.S	11D79
16.	PUSHALATHA.C	11D81
17.	RAMYA.L	11D85
18.	ROSHINI MAI,G.S	11D90
19.	SAMPREETHA,N.S	11D94
20.	SAMYUKTHA.B	11D95
21.	SANKARI.M	11D96
22.	SOUNDARYA.E	11D105
23.	SOUNDARYA.B	11D106
24.	SRIMATHI.G	11D108
25.	SRINATH.S	11D109
26.	SRINIVAS.V	11D110
27.	SUNDRAGANESH.R	11D113
28.	SUNDARESAN.S	11D114
29.	SURYA GURUMOORTHY.U	11D115
30.	VIGNESH.K	11D121

L Balamurugan
 Divya
 Evangeline
 Francis
 Ganesh
 Gayathri
 Hemalatha
 Jayakrishan
 Magesh kannan
 Manirajan
 Nanthakumar
 Niranjana
 Omnath P.P
 Porkodi
 Preethamkumar
 Pushpalathi C
 Ramya
 Roshini Maig S
 Sampreetha
 Samyuktha B
 Sankari
 Soundarya
 Soundarya B
 Srinathi G
 Srinath
 Sundraganesh
 Sundaresan
 Surya U
 Vignesh