



THIAGARAJAR COLLEGE OF ENGINEERING - MADURAI 625 015

TCE-III

S.No	One credit course need analysis sheet	
1.	Name of the Course	Global Positioning Systems
2.	Name of the Industry	Texas Instruments, Bangalore
3.	Name of the SIG associated with	Signal Processing
4.	Motivation for offering the course	GPS are becoming smaller and are expanding number of applications.
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	NIL
	At Industry	NIL
5.	Outcomes expected	
	Technology transfer	
	Student Internship	
	Placement	
	Organizing FDP/seminar at TCE	
	Collaborative research/consultancy projects	Proposal submitted to IERB in the area of indoor localization
	Faculty as Trainee/Trainer in the Industry	
	Joint publications	
	Setting up of Lab/Infrastructure	



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TCE-III

Attendance sheet for the one/two credit

Name of the Course: *Introduction to GPS and application of Communication/Signal Processing Theory in GPS receiver design.*
 Name of the Industry: *Tescade Instruments*
 Name of the Expert: *Mr. Sreemath Narayanan, Mr. Sachin Bharadwaj & Mr. Ganesan Thiagarajan*
 Number of Students enrolled: *25*
 Name of the Faculty: *Dr. S.J. Thiruvengadam*
 Date/Time/Venue: *26/7/2014, 02/08/2014, & 09/08/2014*

Students list attached separately

S.No	Reg.No	Name	Department	Signature

S.J. Thiruvengadam
Signature of the Faculty Coordinator



THIAGARAJAR COLLEGE OF ENGINEERING - MADURAI 625 015

TCE-III

Course Schedule

Name of the Course: Global Positioning Systems
 Name of the Industry: Texas Instruments, Bangalore
 Name of the Expert: Mr. Sreenath Narayanan, Mr. Sachin Bharadwaj,
 Mr. Ganesan Thiagarajan
 Number of Students enrolled: 25
 Name of the Faculty: Dr. S. J. Thiruvengadam
 Date/Time/Venue: 26/07/14, 02/08/14, & 09/08/14.

Date	Time	Topics	Remarks
Day1	9:30 to 11:00	GPS Fundamentals, Concept of Triangulation	
	11:15 to 1:15	Optimal Receiver Processing, Coherent & non-coherent	accumulated
Day2	9:30 2:15 to 4:30	Introduction to detection theory	
Day2	9:30 to 1:15	Application to GPS, Neyman Pearson criterion	
	2:15 to 4:30.	GPS satellite acquisition, sequential detection	
Day3	9:30 to 11:15	Introduction to Kalman filter theory, Extended Kalman filter	
	2:15 to 4:30	Application of Kalman filter to GPS for position & velocity tracking	

S. J. Thiruvengadam
 Signature of the Faculty coordinator


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Course Instructor Feedback for One/Two credit course

TCE-III

Name of the Course: *Global Positioning Systems*
 Name of the Industry: *Tescos Instruments, Bangalore.*
 Name of the Expert: *Mr. Sreenath Narayanan, Mr. Sachin Bharadwaj,*
Mr. Ganesan Thiagarajan.
 Date/Time/Venue: *26/07/14 02/08/14 & 09/08/14.*

	Comments
Student attendance	<i>Good</i>
Level of the students in understanding the concepts	<i>Above Average</i>
Any suggestions regarding new content to be included as Prerequisites/Special electives	<i>Global navigation satellite systems can be offered as a special elective.</i>
Hall/Lab arrangements	<i>Good</i>
Hospitality	<i>Good</i>


 Signature of the Course Instructor


 Signature of Head of the Department

THIAGARAJAR COLLEGE OF ENGINEERING MADURAI-625 015

Branch : B.E. Electronics & Communication Engineering

Semester : VII "A & B" Section

Date: 26/07/14, 02/08/14 & 09/08/14

Global Positioning Systems

S.No.	Reg.No.	NAME
1.	11D66	MONISHA K.K
2.	11D67	MUTHU ARASI .T
3.	11D70	NIRANJANA.T
4.	11D91	SABITHA SHREE. S
5.	11D95	SAMYUKTHA.B
6.	11D100	SEETHALAKSHMI.G
7.	11D106	SOUNDARYA.B
8.	11D111	SUBHA.M
9.	11D112	SUGANYA.T
10.	11D122	VISHNU PRIYA.R
11.	12LD23	SHANMUGA PRIYAA.P
12.	11D01	ABINAYA.A
13.	11D02	ABINAYA.D
14.	11D03	AGALYA.S
15.	11D05	ANJANAA.S
16.	11D06	ARCHANA RAGAVI.R
17.	11D19	DEEPIKA.M
18.	11D22	DHIVYA.R
19.	11D28	GAYATHRI.A
20.	11D32	GOMATHI.G
21.	11D37	ISHWARYA.S
22.	11D52	LAVANYA.A
23.	11D55	LAVANYA.S
24.	11D61	MEENU PRIYA.G
25.	12LD03	ANU.S

Total: 25 Students

S.J.Thirupathi
Signature of Faculty Coordinator