



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 widely used 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 CERS in the area of indoor localization
	Faculty as Trainee/Trainer in the Industry	
	Joint publications	
	Setting up of Lab/Infrastructure	



Attendance sheet for the one/two credit

Name of the Course: *Introduction to C.P. and application of*
Control Systems
 Name of the Industry: *Testable Instruments*
 Name of the Expert: *Mr. Srinath Narayanan, Mr. Saktin Bharan*
Mr. Ganesan Thir
 Number of Students enrolled: *25*
 Name of the Faculty: *Dr. S.J. Thirumangalakudi*
 Date/Time/Venue: *26/7/2014, 02/08/2014, 8 07/08/2014*

Students list attached separately

S.No	Reg.No	Name	Department	Signature

S.J. Thirumangalakudi
 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. Jachin 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	
Day2	9:30 2:15 to 4:30	Introduction to detection theory	accumulated
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 tracks	

S. J. Thiruvengadam
 Signature of the Faculty coordinator



Course Instructor Feedback for One/Two/Three Semesters

TCE-III

Name of the Course: Global Positioning Systems
Name of the Industry: Tejas Instruments, Bangalore
Name of the Expert: Mr. Sreenath Narayanan, Mr. Sridhar Narayanan,
Mr. Chandan Thiruganur
Date/Time/Venue: 26/07/14, 02/08/14 & 09/08/14

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

S. S. Thiruganur
Signature of the Course Instructor

S. S. Thiruganur
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.Thirup
Signature of Faculty Coord