



THIAGARAJAR COLLEGE OF ENGINEERING - MADURAI 625 015
TCE-III

S.No	One credit course need analysis sheet	
1.	Name of the Course	G1D Non Destructive Testing
2.	Name of the Industry	TRY CAE, Trichy
3.	Name of the SIG associated with	Manufacturing Engineering
4.	Motivation for offering the course	To get exposure to various Non Destructive testing methods
4.1	Feedback (If yes, Details of the feedback as per the annexure I)	
	From Recruiter	No
	From Employer	No
	From Alumni	Yes
	From Academic Council members	Yes
	From Board of Studies members	Yes
	From Senior students	Yes
	From current students	Yes
	From Performance Assessment Committee	Yes
	From Department Advisory committee	Yes
4.2	Faculty participation in Seminar/FDP (If yes, details)	
	At higher learning institutes	Yes, CIT, CBE
	At Industry	No
5.	Outcomes expected	
	Technology transfer	Yes
	Student Internship	Yes
	Placement	Yes
	Organizing FDP/seminar at TCE	Yes
	Collaborative research/consultancy projects	Yes
	Faculty as Trainee/Trainer in the Industry	Yes
	Joint publications	Yes
	Setting up of Lab/Infrastructure	Yes



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Attendance sheet for the one/two credit

Name of the Course: **G1D Non Destructive Testing**

Name of the Industry: **TRY CAE, Trichy**

Name of the Expert: **Mr. S.S Ananthan**

Number of Students enrolled: **70**

Name of the Faculty: **Prof. J. Umar Mohamed**

Date/Time/Venue: **26th and 27th October 2016 and 9.00 A.M to 5.00 P.M**

S.No	Reg.No	Name	Department	Signature
	Student's List is enclosed			

Signature of the Faculty Coordinator



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Course Schedule

Name of the Course: **G1D Non Destructive Testing**

Name of the Industry: **TRY CAE, Trichy**

Name of the Expert: **Mr. S.S Ananthan**

Number of Students enrolled: **70**

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Date/Time/Venue: **26th and 27th October 2016 and 9.00 A.M to 5.00 P.M**

Date	Time	Topics	Remarks
26.10.2016	9.00 A.M to 5.00 P.M	Introduction to NDT - Requirement for NDT - Basic NDT methods Surface NDT methods – Penetrant Testing (PT) – Principle – consumables – testing techniques – advantages – Limitations - Application – Codes - Standards Magnetic particle testing (MT) - Principle – consumables – testing techniques – advantages – Limitations - Application – Codes Surface NDT method – Visual Testing (VT) – principle – testing Techniques – advantage – limitation – applications – Application – Codes Radiography testing (RT) – Principle – equipment Radiography testing – Consumables- Techniques	

27.10.2016	9.00 A.M to 5.00 P.M	Radiography testing – Film interpretation, Safety- codes - standards Digital Radiography Ultrasonic Testing (UT) – principle - equipment Ultrasonic Testing - techniques Ultrasonic Thickness measurement, Through transmission testing technique, Resonance testing Practical Sessions-PT,MT, VT, RT, UT (Thickness measurement , weld testing)	
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Signature of the Faculty coordinator



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Course Instructor Feedback for One/Two credit course

Name of the Course: **G1D Non Destructive Testing**

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Name of the Expert: **Mr. S.S Ananthan**

Date/Time/Venue: **26th and 27th October 2016 and 9.00 A.M to 5.00 P.M**

	Comments
Student attendance	100%
Level of the students in understanding the concepts	Very Good
Any suggestions regarding new content to be included as Prerequisites/Special electives	It may be included as core elective course
Hall/Lab arrangements	Very good
Hospitality	Very good

Signature of the Course Instructor