



**THIAGARAJAR COLLEGE OF ENGINEERING - MADURAI 625 015**  
**TCE-III**

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



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**TCE-III**

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: **66**

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

Date/Time/Venue: **23<sup>rd</sup> and 24<sup>th</sup> August 2014 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**

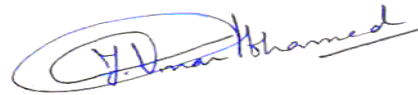
Number of Students enrolled: **66**

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

Date/Time/Venue: **23<sup>rd</sup> and 24<sup>th</sup> August 2014 and 9.00 A.M to 5.00 P.M**

Date	Time	Topics	Remarks
23.08.2014	<b>9.00 A.M to 5.00 P.M</b>	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	
23.08.2014	<b>9.00 A.M to 5.00 P.M</b>	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**



## THIAGARAJAR COLLEGE O ENGINEERING - MADURAI 625 015

### TCE-III

#### 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: **23<sup>rd</sup> and 24<sup>th</sup> August 2014 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