



**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>G1P- Finite Element Method for Product Development</b>
<b>2.</b>	<b>Name of the Industry</b>	<b>Mahindra Sathyam Ltd, Bangalore</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 FEM in Aerospace Application.</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, IITm, Chennai</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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Attendance sheet for the one/two credit

Name of the Course: **G1P- Finite Element Method for Product Development**

Name of the Industry: **Mahindra Sathyam Ltd, Bangalore**

Name of the Expert: **Dr. Ganapathi Manickam**

Number of Students enrolled: **40**

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

Date/Time/Venue: **02<sup>nd</sup> and 03<sup>rd</sup> April 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: **G1P- Finite Element Method for Product Development**

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Name of the Expert: **Dr. Ganapathi Manickam**

Number of Students enrolled: **40**

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<b>Date</b>	<b>Time</b>	<b>Topics</b>	<b>Remarks</b>
02.04.2016	9.00 A.M to 5.00 P.M	Computer Aided Engineering- Overview Engineering Mechanics, Strength of Materials Background to Finite Element Technology Development of Finite Elements (Mathematical Model) Modelling of the complex components Industrial case studies (including test correlations)	
03.04.2016	9.00 A.M to 5.00 P.M	Composites- Overview, Advanced Composite Structure Design aspects of composites Modelling aspects of composites Modelling of complex composite components, Industrial case studies	

**Signature of the Faculty coordinator**



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Course Instructor Feedback for One/Two credit course

Name of the Course: **G1P- Finite Element Method for Product Development**

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Name of the Expert: **Dr. Ganapathi Manickam**

Date/Time/Venue: **02<sup>nd</sup> and 03<sup>rd</sup> April 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