



**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>	Mechanical Engineering perspective in Rocketry Systems
<b>2.</b>	<b>Name of the Industry</b>	DRDO, Hyderabad
<b>3.</b>	<b>Name of the SIG associated with</b>	Thermal Engineering
<b>4.</b>	<b>Motivation for offering the course</b>	To introduce opportunities in the field of aero space and defense research
<b>4.1</b>	<b>Feedback (If yes, Details of the feedback as per the annexure I)</b>	
	<b>From Recruiter</b>	<b>Y/N</b>
	<b>From Employer</b>	<b>Y/N</b>
	<b>From Alumni</b>	<b>Y/N</b>
	<b>From Academic Council members</b>	<b>Y/N</b>
	<b>From Board of Studies members</b>	<b>Y/N</b>
	<b>From Senior students</b>	<b>Y/N</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>At Industry</b>	
<b>5.</b>	<b>Outcomes expected</b>	
	<b>Technology transfer</b>	
	<b>Student Internship</b>	<b>Yes</b>
	<b>Placement</b>	
	<b>Organizing FDP/seminar at TCE</b>	
	<b>Collaborative research/consultancy projects</b>	<b>Yes</b>
	<b>Faculty as Trainee/Trainer in the Industry</b>	
	<b>Joint publications</b>	
	<b>Setting up of Lab/Infrastructure</b>	



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**TCE-III**

Course Schedule

Name of the Course: Mechanical Engineering Perspective in Rocketry Systems

Name of the Industry: DRDO, Hyderabad

Name of the Expert: Dr.N.Manickam, scientist G (Rtd.), ASL , DRDO, Hyderabad and  
Mr.S.Balaji, Scientist F , ASL, DRDO

Number of Students enrolled: 66

Name of the Faculty: M.S.Govardhanan

Date/Time/Venue: 23<sup>rd</sup> and 24<sup>th</sup> September 2017 , Mechanical Department  
Seminar hall

S.no.	Session	Topics	Remarks
23.09.2017(Saturday)			
1	9.00 to10.30	overview of flight vehicle systems	
2.	10.45 to12.15	Structural Dynamics in rocket systems	
3.	12.15 to 13.45		
4.	14.15 to15.45	Aerospace Materials	
5.	16.00 to 17.30	Aerospace Fasteners	
24.09.2017(Sunday)			
6.	9.00 to 10.30	Propulsion	
7.	11.00 to 12.30	Control, guidance and navigation system	
8.	13.30 to 15.00	Mechanical Aspects of avionics packages	
9.	15.15 to 16.45	Challenges in Aerospace Technologies	

*M. S. Govardhanan*

Signature of the Faculty coordinator


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Course Instructor Feedback for One/Two credit course

**TCE-III**

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Seminar hall

	Comments
Student attendance	GOOD
Level of the students in understanding the concepts	GOOD
Any suggestions regarding new content to be included as Prerequisites/Special electives	GOOD
Hall/Lab arrangements	GOOD
Hospitality	GOOD