



THIAGARAJAR COLLEGE OF ENGINEERING - MADURAI 625 015
TCE-III

S.No	One credit course need analysis sheet	
1.	Name of the Course	Aerospace materials and manufacturing processes
2.	Name of the Industry	DRDO
3.	Name of the SIG associated with	Manufacturing
4.	Motivation for offering the course	To provide an exposure and application of the aerospace materials developments
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	
	At Industry	
5.	Outcomes expected	
	Technology transfer	
	Student Internship	
	Placement	
	Organizing FDP/seminar at TCE	
	Collaborative research/consultancy projects	
	Faculty as Trainee/Trainer in the Industry	
	Joint publications	
	Setting up of Lab/Infrastructure	



THIAGARAJAR COLLEGE OF ENGINEERING - MADURAI 625 015
TCE-III

Attendance sheet for the one/two credit

Name of the Course : Aerospace Materials and Manufacturing Processes

Name of the Industry : Defense Research and Development Organization

Name of the Expert : Dr. T. Ramprabhu

Number of Students enrolled: 38

Name of the Faculty : Dr. M. Kathiresan

Date/Time/Venue : 17.02.2018 & 25.02.2018 (Two days)

S. No	Reg. No	Name	Department	Signature

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI 625 015
 (A Govt.Aided ISO 9001:2008 Certified Autonomous Institution Affiliated to Anna University)
DEPARTMENT OF MECHANICAL ENGINEERING
14ME1R0 - AEROSPACE MATERIALS AND MANUFACTURING PROCESS

Attendance Sheet

SL. NO.	REG.NO.	NAME	17.02. 2018 (Saturday)		25.02.2018 (Sunday)	
			FN	AN	FN	AN
1	15G002	S. Abiraman	S. Abiraman	S. Abiraman	S. Abiraman	S. Abiraman
2	15G005	M. Alice Nila	M. Alice Nila	M. Alice Nila	M. Alice Nila	M. Alice Nila
3	15G008	E. Aravindh	E. Aravindh	E. Aravindh	E. Aravindh	E. Aravindh
4	15G014	D. Ashwin Kumar	D. Ashwin Kumar	D. Ashwin Kumar	D. Ashwin Kumar	D. Ashwin Kumar
5	15G022	V. Dhanoordaran	V. Dhanoordaran	V. Dhanoordaran	- Absent	- Absent
6	15G025	R. Dinesh Kumar	R. Dinesh Kumar	R. Dinesh Kumar	R. Dinesh Kumar	R. Dinesh Kumar
7	15G031	C. Gopinath	C. Gopinath	C. Gopinath	C. Gopinath	Absent
8	15G037	T. Harishkumar	T. Harishkumar	T. Harishkumar	T. Harishkumar	T. Harishkumar
9	15G040	U. Jegannath	U. Jegannath	U. Jegannath	U. Jegannath	U. Jegannath
10	15G041	V. Jeya Surya	V. Jeya Surya	V. Jeya Surya	V. Jeya Surya	Absent
11	15G047	T.R. Kishore Babu	T.R. Kishore Babu	T.R. Kishore Babu	T.R. Kishore Babu	T.R. Kishore Babu
12	15G066	V. Praveenkumar	V. Praveenkumar	V. Praveenkumar	V. Praveenkumar	V. Praveenkumar
13	15G073	M. Ramprakash	M. Ramprakash	Absent	M. Ramprakash	M. Ramprakash
14	15G079	K. Santhoshram	K. Santhoshram	Absent	K. Santhoshram	K. Santhoshram
15	15G081	S. Sathesh	S. Sathesh	S. Sathesh	S. Sathesh	S. Sathesh
16	15G085	V. Selvaraj	V. Selvaraj	V. Selvaraj	V. Selvaraj	V. Selvaraj
17	15G088	N. Siddarth	N. Siddarth	N. Siddarth	N. Siddarth	N. Siddarth
18	15G091	L. Sridhar	L. Sridhar	L. Sridhar	L. Sridhar	Absent
19	15G093	T. Subramaniam	T. Subramaniam	T. Subramaniam	T. Subramaniam	Absent
20	15G096	T. Surendar	T. Surendar	Absent	T. Surendar	T. Surendar
21	15G101	M. Thirupathi	M. Thirupathi	M. Thirupathi	M. Thirupathi	Absent
22	15G105	G. Venkata Subramani	G. Venkata Subramani	G. Venkata Subramani	G. Venkata Subramani	G. Venkata Subramani
23	15G106	K. Vibhish	K. Vibhish	K. Vibhish	K. Vibhish	Absent
24	15G108	R. Vignesh	R. Vignesh	R. Vignesh	R. Vignesh	R. Vignesh
25	15G114	P. Vivaspandian	P. Vivaspandian	P. Vivaspandian	P. Vivaspandian	Absent
26	15G124	M. Gunasekaran	M. Gunasekaran	M. Gunasekaran	M. Gunasekaran	Absent
27	15G129	S. Kanagarajan	S. Kanagarajan	S. Kanagarajan	S. Kanagarajan	S. Kanagarajan
28	15G131	R. Kavinkumar	R. Kavinkumar	R. Kavinkumar	R. Kavinkumar	Absent
29	15G132	P.S. Mathan Kumar	P.S. Mathan Kumar	P.S. Mathan Kumar	P.S. Mathan Kumar	P.S. Mathan Kumar
30	15G134	S. Prabhakaran	S. Prabhakaran	S. Prabhakaran	S. Prabhakaran	S. Prabhakaran
31	15G136	P. Praveen	P. Praveen	P. Praveen	P. Praveen	P. Praveen
32	15G137	M. Puvaneshwaran	M. Puvaneshwaran	M. Puvaneshwaran	M. Puvaneshwaran	Absent
33	15G140	P. Ramkumar	P. Ramkumar	P. Ramkumar	P. Ramkumar	Absent
34	15G141	P. Sam Jovart	P. Sam Jovart	P. Sam Jovart	P. Sam Jovart	P. Sam Jovart
35	15G142	C. Sasikumar	C. Sasikumar	C. Sasikumar	C. Sasikumar	C. Sasikumar
36	15G145	T. Senthil Kumar	T. Senthil Kumar	T. Senthil Kumar	T. Senthil Kumar	T. Senthil Kumar
37	15G146	S. Subash	Absent	Absent	S. Subash	S. Subash
38	15G150	S. Vriddhachalam	S. Vriddhachalam	S. Vriddhachalam	S. Vriddhachalam	S. Vriddhachalam

Signature of the Faculty Coordinator

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

Name of the Course : Aerospace Materials and Manufacturing Processes
 Name of the Industry : Defense Research and Development Organization
 Name of the Expert : Dr. Ramprabhu
 Number of Students enrolled: 38
 Name of the Faculty : Dr. M.Kathiresan
 Date/Time/Venue : 17.02.2018 & 25.02.2018 (Two days)

Date	Time	Topics	Remarks
Day1	17.02.2018 FN	Composite materials - Metal matrix composite, Nano Composites, Functional graded composite, High entropy alloy based composite, Quasi crystal based composite for aircraft structure and engine applications.	
	17.02.2018 AN	Alloys - Al, Mg, Ni and Ti alloys and shape memory alloys for aircraft structures Manufacturing processes – Advanced manufacturing processes –Thixoforging-	
Day2	25.02.2018 FN	Multidirectional forging, Precision forging Case studies on forging of aerospace components (Impeller and Landing gear modelling and processing), Case studies on powder metallurgy process of aircraft brake pad processing,	
	25.02.2018 AN	Case studies on casting of aerospace components (aircraft mounted accessory gear box casting gear modelling and processing). NDT techniques for aircraft component qualification, various NDT types. Tribological studies on aerospace materials, various types of tribological studies	

Signature of the Faculty coordinator

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Course Instructor Feedback for One/Two credit course

TCE-III

Name of the Course : Aerospace Materials and Manufacturing Processes

Name of the Industry : Defense Research and Development Organization

Name of the Expert : Dr. T. Ramprabhu

Date/Time/Venue : 17.02.2018 & 25.02.2018 (Two days)

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