TCE-III-AS-P1/2



THIAGARAJAR COLLEGE OF ENGINEERING - MADURAI 625 015 TCE-III

No One credit course	One credit course need analysis sheet				
N or of the Course	Mobile Hydraulics				
1. Name of the Course	M/s REXROTH BOSCH				
2. Name of the Industry	Automation and Control				
3. Name of the SIG associated with	Gap analysis 14MT450 Fluid Power				
4. Motivation for offering the course	Automation course.				
4.1 Feedback	or the annexure I)				
(If yes, Details of the feedback as p	(If yes, Details of the feedback as per the american				
From Recruiter	N				
From Employer	N				
- Alemni	Y				
E Academic Council members	Y				
From Board of Studies members	N				
From Senior students	Y				
From current students	N				
From Performance Assessment	IV.				
Committee	N				
From Department Advisory					
committee	EDD (If yes, details)				
committee 4.2 Faculty participation in Seminar/	NO				
At higher learning institutes	YES				
At Industry	YES				
a connected	VEC				
5. Outcomes expected Technology transfer	YES				
Technology transcript	YES				
Student Internship	YES				
Placement FDP/cominar at TCE	YES				
Placement Organizing FDP/seminar at TCE	NO NO				
Collaborative research/constraint					
projects Faculty as Trainee/Trainer in th	e YES				
Faculty as Trainee/11amos					
Industry	NO				
Joint publications Setting up of Lab/Infrastructure	YES				
· /I - Fractricilit					

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI – 625015 (An Autonomous Institution Affiliated to Anna University)

Department of Mechatronics

Attendance sheet for One Credit Course- "MOBILE HYDRAULICS" on 28.01.2017& 29.01.2017

4,09,44			28.01.2017		29.01.2017	
S No.	Regno.	Name	FN	AN	FN	AN
1	14F01	- AARTHI, T.		-		7
2	14F02	АЛТН KUMAR,G.	Gall	6 and	GARA	G AND
3	14F03	ANTONY,S.	Enlay.	Sanoy	Samousa	S. Dretary
4	14F04	ARAVIND,G. V Permissi	on -	一	gives	ganley
5	14F05	ARUN PANDIAN,K.		N.		
`6 ≈	14F06	ARUNKUMAR,P K		B-F	1	f o
7	14F07	· BALAJI,D.	- Eduit	- Day		Do Pari
8	14F08	BALASELVAGANESH,B.	B. Baleseungenah.	B. Balasowagares.	Balasanaganeth	B Balosewayeners.
, 9	14F09	CHANDRA PREETHI,B.	.—	_		
10	14F10	CHARLES,G.	-	, ,	_	4
11	14F11	CONDA ASUTHOSH RAMESH	A	Bar.	-	The
12	14F12	DEEPAKRAJAN,D.V.			0 510 00 4	Ar A Dr A TV
13	14F13	DINESH KUMAR,S.	Direpluars	Director 8:3	Direction 1:5	Quint Ch
14	14F14	DIVYA,P.	Dingel	Dung P	DiryaP	Stope &
15	14F15	■ GAUSIG PANDIAN,M.	Mondy Lion	M. busispdi	Manyour	Manda
16	14F16	GOKULNATH,G.	agokud	Goput.	hypotail	ago kul
17	14F17	GOWTHAM,K.	1.01	1 Cutt	11.00	le'cate
18	14F18	GUNASEELAN,K.	Myfuraseela	The Junaced	Ryperaseglar	I Symanick
19	14F19	JAYA SOORIYA,P. Polmi SI	on 8	0 -	1	7.3
20	14F20	JITESH,S.	13/200	874	A Track	8
21	14F21	JOE CHRISTUS,E.	Joechin Trus	grechiting	· Joeching	grammas
22	14F22	JOSHI JOY	1			
23	14F23	JOSHUA DAVID,A.	Atohus Que	John	Do Do	Johna Daw
24	14F25	KISHORE KAVI,R.	R. Lein	Che wi	· eme	La m'
25	14F26	KUMAR,M.	M. Burnast	14 Kumost	H. Kumer	M.Kunot
26	· 14F27	KUMARESAN,S.	1.0	8 they	-	3.04
27	1 4F28	LENIN,M.	M. XI			-
28	14F29	MADHURA LAKSHMI,S.	QW.	81/2	8.Nax	-8-M-S
29	14F30	MAHENDRAN,M.	ルフル	- My	-y. John	M. Glen
30	14F31	MANOJ KUMAR,R.	R. Hample	M. Mindle	2. Menje	
31	14F32	MUTHU KRISHNAN,V	1.00ml	Norm	1.20 4/V	1. 0.00 Per
32	14F33	MUTHUCHARAN,R.	R. Hubbacharan	R. Muthu cho	an R. Hubbuchan	an R. Multiu chaven
33	14F34	. NEERAJ VENKATESII,K				
34	14F35	PRABURAJ,P.	d'aku	4 SKOKWI	d. am	undp.16

		T	28.01.2017		29.01.2017	
S No.	Regno.	Name	FN	AN	FN	AN
35	14F36	PRASANNA BALAJI,G.S.	4. 1. 2000	A. A Pose balast	-4 Siphubba	ly di Extrelo
36	14F37	PRIYADHARSHINI,R:		710	-0 1 Da	60 10
37	14F38	RAGHU RAMAN,B	B. Run Jan	- Shulton	Km)	15 Em 1
38	14F40	RAJA RAJESHWARI,S.	. —			
39	14F41	RAM KUMAR, S.	\$. Ram Kuman	of Rain Kumer	-	. 09.
40	14F42	RIAZ AHMED,K.	14. Rian	le. forth	K. Riaz	p. Ray
41	14F43	ROBY,J.	E P	458	4	2004
42	14F45	SABARI MONISHA,T.	7			
43	14F46	SAHITHYA,K.	_			DO 244
44	14F48	SARATHKUMAR,P.	P. Strathkuman	Powaltkan)	Proval hours	Postalities
45	14F49	SATISH,M.S.	-			
46	14F50	SIBI NANDAN,G.	dill.	Ew_	fa	Ju-
47	14F51	SRISARAN,SV.	Berain	Sano.	Denot	Deno
48	14F52	STEEV WINSTON,T.	ant	CESTUL.	Brish	College 1
49	14F53	SUGANTHAN,M.	De Con	W. Branklin	& Bugter	MASSEX
50	14F54	VENKATESH,M.	NILL COST	Kulitzt	Kulatin	Verland
51	14F55	VENKATESHWARAN,M.	91.V.	Il Vester A	MVella	YVI
52	14F56	VIDHYA SHANKAR,E.	2-Vrdly	& valled >	2. Vidlas	S. Windle
53	14F57	VIGNESH PERUMAL,S.	8.13	8 7	8.4	d. Vig.
54	14F58-	VIGNESH,S.	8 W/a-	8 VI-b.	8. Valle	8. Voltage
55	14F59	VIGNESHWARAN,M.	M. vione	None P	M. War	No view
56 -	14F60	VINITH KUMAR,M.	M Vivith Kuman	Aviota Ruman	M. Virith kuner	1 kura
57	14F61	DEEPAKKUMAR,V.	Jahr	Kh Kh-Y	Charle y	hukhuy
58	14F62	GANESHKUMAR, D. Permis	sum.	7	Lyanaguns.	Acprentamo.
59	14F63	GOMATHISHANKAR,G.	ah now	26A-1	gh M	In sol
60	14F64	JEYAMURUGAN,J.	Genteral .	Guymin	Chughorn	Second
61	14F65	MOHAMED NOORDEEN,M.	Mining	M.my m	M. July	MAN
62	14F66	POUNRAJ,S.	8/h/2	8.12-0-	the.	8h/_
63	14F67	PRIYADHARSHAN,M.	W. Prome	NA	M P	the dist
	14F68	RAJARAMAN,M.	M.PY	H. Pa	HILL	1-MiPi
64	14F69	SENTHIL KUMARAN,R.	- Spige		The state of the s	JAN ST
65	14F70	SILAMBARASAN,R.	Pr.Lillar.	Pa hiles	Milles	17. STOW
	: 14C/U	U11/11/11/11/11/11/11/11/11/11/11/11/11/		Contract Con	7 (7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1 / 1 /

Course Coordinator

HDMCT

TCE-III-AS-P1/2



THIAGARAJAR COLLEGE OF ENGINEERING - MADURAI 625 015 TCE-III

Course Schedule

Name of the Course: Mobile Hydraulics

Name of the Industry: M/s BOSCH REXROTH

Name of the Expert: Mr.T.S.BHARATH

Number of Students enrolled: 67 Students.

Name of the Faculty: Mr.H.Ramesh and S.Julius Fusic

Date/Time/Venue: 28/01/2017 and 29/01/2017 (2days) /Mechanical
Seminar Hall

Date	Time	Topics	Remarks
Dayl	9:00 Am to 01:00Pm	Basics of mobile hydraulics – Hydraulics Pumps and Motors for mobile applications-Gear pumps and gear motors-Electro hydraulic pumps-Hydrostatic fan drives in vehicles.	
	02:00 Pm to 05:00Pm	Working and symbolic diagram of Check valves, Pressure valves, Flow control valves, Directional Control valves, Safety valves.	
Day2	9:00 Am to 01:00Pm	Control Circuits of Mobile Hydraulics using Throttle control, Load Sensing Control, Sandwich type mobile control valves, Mobile Control blocks, Proportional and servo technology for mobile applications.	
	02:00 Pm to 05:00Pm	Electro hydraulic hitch control for tractors; CAN bus in Mobile hydraulics, various types of Mobile machines and its typical circuits and Hands on in Fluid sim and Automation studio software.	

Signature of the Faculty coordinator

Course Instructor Feedback for One/Two credit course

TCE-III-AS-P1/2

TCE-III

Name of the Course: Mobile Hydraulics

Name of the Industry: M/s.BOSCH REXROTH

Name of the Expert: Mr.TS.BHARATH

Date/Time/Venue: 28/01/2017 and 29/01/2017 (2days) / Mechanical Seminar Hall

	Comments		
Student attendance	Holds Good		
Level of the students in understanding the concepts	Around 80 % students understand the concept		
Any suggestions regarding new content to be included as Prerequisites/Special electives	Need to add Project based Learning and introduction to Mobile hydraulics and Industry 4.0		
Hall/Lab arrangements	Established properly		
Hospitality	Good		

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Signature of the Course Instructor