



THIAGARAJAR COLLEGE OF ENGINEERING - MADURAI 625 015
TCE-III

S.No	One credit course need analysis sheet	
1.	Name of the Course	Lead Acid Battery Technology
2.	Name of the Industry	I-Bat Technologies
3.	Name of the SIG associated with	
4.	Motivation for offering the course	
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

Course Schedule

Name of the Course: Lead Acid Battery Technology
 Name of the Industry: I-Bat Technologies, Bangalore
 Name of the Expert: Mr. T.S. Srinath
 Number of Students enrolled: 46
 Name of the Faculty: Dr. B. Ashok Kumar
 Date/Time/Venue:

List enclosed

Date	Time	Topics	Remarks
Day1			
Day2			


 Signature of the Faculty coordinator

Thiagarajar College of Engineering, Madurai-15
(A Govt. Aided ISO 9001:2008 Certified Autonomous Institution affiliated to Anna University)
Department of Electrical & Electronics Engineering

27.08.16

One credit course
E1M-LEAD ACID BATTERY TECHNOLOGY
Schedule

Date	9 AM -10.30 AM	11.AM-1.00 PM	2.00 PM – 3.30 PM	3.45 PM-5.15 PM
27.08.16	Lead acid Battery - Fundamental: Definitions- basic chemistry, chemical reactions, acid characteristics, effect of temperature on specific gravity of acid,	relationship between cell voltage and acid strength, battery standard ratings Lead acid Battery - Technology: Different types - manufacturing process,	manufacturing equipment and their critical characteristics, process parameters, influence of process parameters instruments and evaluation methods of in process parameters	Lead acid Battery - Charging & Evaluation: Different battery charging methods, chargers, charging systems vs applications, effect of overcharge and undercharge
28.08.16	Lead acid battery charge and discharge characteristics - various standards, test instruments and equipment, test conditions, test results requirement, interpretation of test result, BMS, uses and limitations, battery failure modes	Lead acid Battery - Applications: Different applications and their requirement for power and energy, duty cycles, selection of battery, effect of ambience on battery, use of design, life and temperature factors, battery replacement,	on-site evaluation, cost of battery and Life cycle cost calculation, ventilation and floor loading requirement Lead acid Battery - Safety and Hazards: chemicals and form - hazards	safety measures in manufacturing, handling and in actual application, Pollution control systems overview, Battery Management rules, battery recycling processes, battery recycling equipment and disposals

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Course Instructor Feedback for One/Two credit course

TCE-III

Name of the Course: *Lead acid battery Technology*
 Name of the Industry: *I-Bat technologies, Bangalore*
 Name of the Expert: *Mr. T.S. Srinath*
 Date/Time/Venue:

	Comments
Student attendance	<i>46</i>
Level of the students in understanding the concepts	<i>Good</i>
Any suggestions regarding new content to be included as Prerequisites/Special electives	<i>Practical sessions can be conducted</i>
Hall/Lab arrangements	<i>Good</i>
Hospitality	<i>Good</i>

S. Kannan

Signature of Head of the Department

27.08.16

ONE CREDIT COURSE: E1M LEAD ACID BATTERY TECHNOLOGY

B.E., EEE 2014 - 2018

III Year - 'B' Section

SI NO	Reg.No	Name	27.08.16	27.08.16	28.08.16	28.8.16
			FN	AN	FN	AN
1.	14E65	S.LAXMAN	S Laxm	S Laxm	S Laxm	S Laxm
2.	14E66	G.LOKESHWARAN	G. Lokeshwar	G. Lokeshwar	G. Lokeshwar	G. Lokeshwar
3.	14E67	T.MATHESWARAN	T. Matheswar	T. Matheswar	T. Matheswar	T. Matheswar
4.	14E71	J.MOHAN MANICKA VASAGAM	J. Mohan Man	J. Mohan Man	J. Mohan Man	J. Mohan Man
5.	14E74	K.MUTHU KOWSALYA	K. Muthu Kow	K. Muthu Kow	K. Muthu Kow	K. Muthu Kow
6.	14E75	B.MUTHUMEENA	B. Muthumeena	B. Muthumeena	B. Muthumeena	B. Muthumeena
7.	14E76	G.MUTHU RAJA SEKAR	← ABSENT →		← ABSENT →	
8.	14E79	S.P.NANDHINI	S.P. Nandhini	S.P. Nandhini	S.P. Nandhini	S.P. Nandhini
9.	14E80	T.NAVEENA	T. Naveena	T. Naveena	T. Naveena	T. Naveena
10.	14E82	S.PADMANATHAN	S. Padmanathan	S. Padmanathan	S. Padmanathan	S. Padmanathan
11.	14E85	R.PRIYADHARSHINI	R. Priyadharshini	R. Priyadharshini	R. Priyadharshini	R. Priyadharshini
12.	14E86	S.PRIYANKA	S. Priyanka	S. Priyanka	S. Priyanka	S. Priyanka
13.	14E87	V.PAJALAKSHMI	V. Pajalakshmi	V. Pajalakshmi	V. Pajalakshmi	V. Pajalakshmi
14.	14E88	P.RAJU	P. Raju	P. Raju	P. Raju	P. Raju
15.	14E89	B.RAMANATHAN	← ABSENT →		← ABSENT →	
16.	14E90	V.RAMASAMY	V. Ramasamy	V. Ramasamy	V. Ramasamy	V. Ramasamy
17.	14E91	C.RENGANAYAGI	C. Renganayagi	C. Renganayagi	C. Renganayagi	C. Renganayagi
18.	14E92	G.RENUKA	G. Renuka	G. Renuka	G. Renuka	G. Renuka
19.	14E93	S.RESHMA	S. Reshma	S. Reshma	S. Reshma	S. Reshma
20.	14E94	ROBERT BHADRA NAOREM	R. Bhadra Naorem	R. Bhadra Naorem	R. Bhadra Naorem	R. Bhadra Naorem
21.	14E95	V.SAI KRISHNA	V. Sai Krishna	V. Sai Krishna	V. Sai Krishna	V. Sai Krishna
22.	14E96	S.SAKTHI VISHNU	S. Sakthi Vishnu	S. Sakthi Vishnu	S. Sakthi Vishnu	S. Sakthi Vishnu
23.	14E97	G.R.SARANYA	G. R. Saranya	G. R. Saranya	G. R. Saranya	G. R. Saranya
24.	14E98	S.SARAVANAN	S. Saravanan	S. Saravanan	S. Saravanan	S. Saravanan
25.	14E100	K.SATHISH	K. Sathish	K. Sathish	K. Sathish	K. Sathish
26.	14E101	O.G.SETHU NANDAN	O. G. Sethu Nandan	O. G. Sethu Nandan	O. G. Sethu Nandan	O. G. Sethu Nandan
27.	14E102	G.R.SHARMILA DEVI	G. R. Sharmila Devi	G. R. Sharmila Devi	G. R. Sharmila Devi	G. R. Sharmila Devi

28.	14E103	M.SIVANESH BABU	M.Sivanesh Babu	M.Sivanesh Babu	M.Sivanesh Babu
29.	14E104	K.S.SOWBIKHA	K.S.Sowbikha	K.S.Sowbikha	K.S.Sowbikha
30.	14E106	B.SUBILA	B.Subila	B.Subila	B.Subila
31.	14E107	S.SUJITHA	S.Sujitha	S.Sujitha	S.Sujitha
32.	14E108	M.SURIYADEVI	M.Suriyadevi	M.Suriyadevi	M.Suriyadevi
33.	14E109	J.SWATHI POORNA	J.Swathi Poorna	J.Swathi Poorna	J.Swathi Poorna
34.	14E111	A.THANGA ESWARI	A.Thanga Eswari	A.Thanga Eswari	A.Thanga Eswari
35.	14E112	G.THILAGA	G.Thilaga	G.Thilaga	G.Thilaga
36.	14E113	R.VASANTHAN	R.Vasanthan	R.Vasanthan	R.Vasanthan
37.	14E114	P.VEALATCHI	P.Vealatchi	P.Vealatchi	P.Vealatchi
38.	14E115	G.VENKATESH	G.Venkatesh	G.Venkatesh	G.Venkatesh
39.	14E116	E.VENKATESH	E.Venkatesh	E.Venkatesh	E.Venkatesh
40.	14E119	S.VIGNESH	S.Vignesh	S.Vignesh	S.Vignesh
41.	14E120	T.VIJAYA BASKAR	T.Vijaya Baskar	T.Vijaya Baskar	T.Vijaya Baskar
42.	14E121	S.VIMAL RAAJ	S.Vimal Raj	S.Vimal Raj	S.Vimal Raj
43.	14E122	S.VINAYAGAMOORTHY	S.Vinayagamorthy	S.Vinayagamorthy	S.Vinayagamorthy
44.	14E123	P.VINITH	P.Vinith	P.Vinith	P.Vinith
45.	14E124	M.VINOTHINI	M.Vinothini	M.Vinothini	M.Vinothini
46.	14E125	V.VINOTHKUMAR	V.Vinothkumar	V.Vinothkumar	V.Vinothkumar
47.	14E127	K.ARUNKARTHIKEYAN	K.Arunkarthikeyan	K.Arunkarthikeyan	K.Arunkarthikeyan
48.	14E130	M.R.L.BALAJI ARJUN	M.R.L.Balaji Arjun	M.R.L.Balaji Arjun	M.R.L.Balaji Arjun
49.	14E135	S.KIRUTHIGA	S.Kiruthiga	S.Kiruthiga	S.Kiruthiga
50.	14E141	R.NAVANEETHAN	R.Navaneethan	R.Navaneethan	R.Navaneethan
51.	14E146	M.SANGILIRAJ	M.Sangiliraj	M.Sangiliraj	M.Sangiliraj
52.	14E147	V.SATHESH KUMAR	V.Sathesh Kumar	V.Sathesh Kumar	V.Sathesh Kumar
53.	13E95	S.SHEIK MOHAMED HABISUDEEN	S.Sheik Mohamed Habisudeen	S.Sheik Mohamed Habisudeen	S.Sheik Mohamed Habisudeen

BND

(C.B. Ashok Kumar)