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THIAGARAJAR COLLEGE OF ENGINEERING - MADURAI 625 015

TCE-III

(14CE1E0) 2016-17

S.No	One credit course need analysis sheet	
1.	Name of the Course	~~CE0~~ - Precast Technology in Buildings
2.	Name of the Industry	Larsen & Toubro Ltd, Bangalore
3.	Name of the SIG associated with	Structures - Design
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

Attendance sheet for the one/two credit

Name of the Course: B/U - Precast Technology in Buildings
Name of the Industry: Larsen & Turbo Ltd, Bangalore
Name of the Expert: Er. R Kalaivanthi
Number of Students enrolled: 110
Name of the Faculty: R SANKARANARAYANAN
Date/Time/Venue: 27.08.16 & 28.8.16
9.00AM to 5.00PM
Civil - Conference Hall

S.No	Reg.No	Name	Department	Signature
		As Enclosed		

R Sankaranarayanan
Signature of the Faculty Coordinator

THIAGARAJAR COLLEGE OF ENGINEERING - MADURAI 625 015

TCE-III

Course Schedule

Name of the Course: ~~BMA~~ 14CEIEO - Precast Technology in Buildings

Name of the Industry: Larsen & Toubro Ltd Bangalore

Name of the Expert: Er. R Karunanithi

Number of Students enrolled: 110

Name of the Faculty: R. Sankaranarayanan

Date/Time/Venue: 27.8.16 to 28.8.16
civil - conference Hall

Date	Time	Topics	Remarks
Day1	~~27~~. 8.16 9.00 to		
	5.00 pm		
Day2	9.00 to 11.00	— As enclosed —	
	11.15 to 1.00pm		
	2.00 to 5.00pm		

R Sankaranarayanan

Signature of the Faculty coordinator

THIAGARAJAR COLLEGE OF ENGINEERING - MADURAI 625 015

Course Instructor Feedback for One/Two credit course

TCE-III

Name of the Course: ACEIEO - Precast Technology in Buildings

Name of the Industry: Larsen & Turbo Ltd Bangalore

Name of the Expert: Er. R. Karunanithi

Date/Time/Venue: 27.8.16 & 28.8.16.

Civil - Conference 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	NIL
Hall/Lab arrangements	Good
Hospitality	Good

R. Sankaranarayanan

Signature of the Course Instructor

Signature of Head of the Department

Department of Civil Engineering
One Credit Course for the academic year 2016-17 (Odd sem)
Sub Code & Name: B1G Precast Technology in Buildings

Resource Person: Mr. R.Karunanithi, Manager, Precast Production, L&T Ltd., Bangalore
Cell: 9986444250
Email: karunanithi_civil@yahoo.co.in

Class: V sem A section

S.No	Reg.No	Name	
1	14B01	Aasaiyan S	
2	14B02	Abdulmalik M.S	
3	14B03	Abhinandan T.J	
4	14B04	Ahmed Farzan M	
5	14B06	Ajith Kumar P	
6	14B07	Akshaya Gomathi K	
7	14B08	Akshaya S	
8	14B09	Angel Jessieleena A	
9	14B10	Anitha S	
10	14B11	Annie Varshini Raj A	
11	14B12	Anu D	
12	14B127	Krishnan M	
13	14B129	Manimozhi B	
14	14B13	Aravindhaan J	
15	14B137	Prithvi Raj E	
16	14B14	Archunan M	
17	14B143	Umashankar R	
18	14B16	Arun Kumar M	
19	14B17	Arun Kumar S	
20	14B19	Bala Murali Kumar B	
21	14B20	Balakumar A	
22	14B21	Catherine Sanchana I	
23	14B22	Chandru P	
24	14B23	Chinna Annamalai M	
25	14B26	Deepak A	
26	14B28	Devnath I.R	
27	14B29	Dhamotharan B	
28	14B30	Dhiren Amrith E	
29	14B31	Divya Prabha T	
30	14B32	Divya P	
31	14B33	Evellin Sathish P	
32	14B34	Gayathri A.P	

33	14B35	Gayathri S	
34	14B36	Gokula Kannan G.P	
35	14B37	Gowthaman K	
36	14B40	Janani M	
37	14B41	Jonathan S	
38	14B42	Joseline Theresa F.A	
39	14B43	Kaarunya Sriprabha K	
40	14B44	Kalaivani P	
41	14B45	Karthiga R	
42	14B47	Karthikeyan M	
43	14B48	Karthikeyan U	
44	14B49	Krithika S	
45	14B50	Loganand, LR	
46	14B51	Logesh Kumar P	
47	14B53	Madhumitha Varshini M	
48	14B54	Mahendran M	
49	14B55	Mano Vijay R	
50	14B56	Manoj Karthik P	
51	14B57	Mathavan M	
52	14B58	Meenakshi C	
53	14B59	Meenakshi PL	

Class: V sem B section

S.No	Reg No	Name	
54	14B101	Siva Keerthan S	
55	14B103	Sudarmathi M	
56	14B104	Sudhakar D	
57	14B105	Sujaanaa M	
58	14B106	Tamil Selvan A	
59	14B107	Thamarai Kannan S.T	
60	14B108	Thirumoorthy C.S	
61	14B109	Umaiyal R	
62	14B110	Vaishnavi T	
63	14B112	Vedhasri P	
64	14B113	Velmurugan R	
65	14B114	Vidhya T	
66	14B115	Vijaymohan S	
67	14B117	Yoganisha L	
68	14B118	Abirami P	
69	14B121	Deepika M	
70	14B125	Karthika Lakshmi J S	
71	14B130	Meyyappan P	

72	14B131	Mohamed Ismail S A	
73	14B133	Nishanth S	
74	14B134	Pandi Kumar P	
75	14B138	Sakthi Narayanan R	
76	14B141	Thangaraja R	
77	14B142	Thirunavukarasan S	
78	14B60	Meenakshi R	
79	14B61	Mithileshwara Kumaran A	
80	14B62	Monisha R	
81	14B63	Muruganath T	
82	14B64	Muthamil E	
83	14B65	Muthu Prakash S	
84	14B66	Nandhini M	
85	14B67	Naveen M	
86	14B68	Nethaji B	
87	14B69	Niranjana Devi K	
88	14B70	Nishanth Varma S	
89	14B71	Paul Daniel T	
90	14B72	Pavithra M	
91	14B73	Piradheep R	
92	14B74	Pradeep I	
93	14B75	Pradeesh N	
94	14B78	Prithvi M	
95	14B79	Priyadharshini R	
96	14B80	Priyanka J	
97	14B81	Raghunathan G	
98	14B82	Rajkumar K	
99	14B83	Rakshini V	
100	14B84	Ramkumar C	
101	14B85	Ramkumar P	
102	14B86	Ramya L	
103	14B87	Ranjith C	
104	14B88	Rashmi M	
105	14B89	Rathish Chand K.S	
106	14B91	Reshma Shamim N	
107	14B92	Rishikumar S	
108	14B93	Rithika S	
109	14B94	Sangavi T	
110	14B96	Sathiyamoorthy S	

HOD
HIDCE

/erection - Machinery used in precast projects - General functioning of project site - General planning for precast projects - Different types of Casting yard/bay - Different types of Mould - Handling of precast elements - Stacking of precast elements -Transportation of precast element - Erection of precast elements - Fixing & jointing in precast buildings - Typical Construction Sequence of precast buildings.

Reference Books

1. IS: 15916 -2011, "Building Design and Erection using Prefabricated Concrete – Code of Practice"
2. NBN EN 1168-2005, "Precast Concrete Products - Hollow Core Slabs"

Course Contents and Lecture Schedule

Module No.	Topic	No. of Lectures
1.0	Precast Technologies in Buildings	
1.1	Introduction to Precast Technologies in residential and commercial buildings	1
1.2	Challenges in implementation of Precast Technologies	1
1.2.1	Hollow Core slab production/ erection	1
1.3	Machineries used for precast projects	1
1.3.1	General functions of project site	1
1.3.2	General planning for precast projects	1
2.0	Installation of precast products	
2.1	Types of casting yards/ bay for precast products	1
2.1.1	Different types of moulds used for precast products	1
2.1.2	Handling of precast elements	1
2.1.3	Stacking of precast elements	1
2.2	Transportation of precast elements	1
2.2.1	Erection of precast elements	1
2.2.2	Fixing and jointing in precast buildings	1
2.3	Typical construction sequence of precast buildings	1
	Total Hours	14

Course Designers:

1. Mr. R. Karunanithi, L&T, Bangalore — karunanithi@lntecc.com

TEQIP SPONSORED 1 Credit Course titled

"B1G – Precast Technology in Buildings"

TEQIP sponsored 1 credit course titled "**B1G – Precast Technology in Buildings**" was organized by the Department of Civil Engineering for the students of B.E Civil Engineering programme. The resource person for the course was **Mr. R. Karunanithi,** Manager, Precast Production, Larsen & Toubro Ltd., Bangalore. Around hundred students of V and VII semester B.E Civil Engineering programme registered for the course. The course was conducted on 29.8.15 (Saturday) and 30.8.15 (Sunday) with 5 sessions each. Each session was conducted for 1½ hours.

The students were given exposure on various aspects of precast technology in residential /commercial buildings – challenges to familiarize the technology - hollow core slab production/erection- machinery used in precast projects - planning of precast projects - handling, stacking, transportation and erection of precast elements - fixing and jointing with typical construction sequence of precast buildings. Assessment of student learning was done through assignments. It is also proposed to conduct the end semester examination for the students by the mid of October 2015