S.No	One credit course need analysis sheet			
1.	Name of the Course	Integrated Building Management system		
2.	Name of the Industry	HVAC Consultant		
3.	Name of the SIG associated with	Automation		
4.	Motivation for offering the course	The Mechatronics aspects		
		involved in the course		
		motivated to offer the same		
4.1	Feedback			
	(If yes, Details of the feedback as per t	he annexure I)		
	From Recruiter	N		
	From Employer	N		
	From Alumni	Y		
	From Academic Council members	N		
	From Board of Studies members	N		
	From Senior students	N		
	From current students	N		
	From Performance Assessment	N		
	Committee			
	From Department Advisory	N		
	committee			
4.2	Faculty participation in Seminar/FDP	(If yes, details)		
	At higher learning institutes	-		
	At Industry	-		
5.	Outcomes expected			
	Technology transfer	Y		
	Student Internship	-		
	Placement	-		
	Organizing FDP/seminar at TCE	Y		
	Collaborative research/consultancy	Y		
	projects			
	Faculty as Trainee/Trainer in the	-		
	Industry			
	Joint publications			
	Setting up of Lab/Infrastructure	Y		

Annexure I (Details of Feedback)

Name of the Person	Date of the visit/meeting	Affiliation	Purpose of visit	Suggestions/ Comments	Action taken
V.S.Velram	05.01.2017	Director, Integrated Design Partners	To discuss about sponsored project	Suggested to Conduct Course on Building Management system	Proposed to conduct one credit course on 8th and 9th April 2017

AGENDA FOR THE MEETING

Name of the meeting : Automation (SIG) - New industry supported course

Date of the meeting : 22.2.2017

Time : 3.45 pm - 4.15 pm

Duration : 30 minutes

Venue : Computer Lab, Mechatronics Lab

Attended by:

Staff	Signature
Dr.G.Kumaraguruparan	Gyz
Dr.L.R.Karl Marx	Somhown
Mr.S.Julius Fusic	Espo king
Ms.Siva Priya	S. Sivepar
Mr. M.A. Ganesh	Ganuf M.D.
Mr.S.A.R.Sheik Masthan	SARS

Points to be discussed:

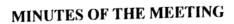
1. Gap analysis on one credit course

2. Identification of industry experts

Prepared by B.Praveen Kumar

QR/M5-01 (01) 20-09-2004

Approved by



Date of the meeting

: 22.2.2017

Name of the meeting

: Automation (SIG) - New industry supported course

SI. No.	Points discussed	Action plan	Responsibility	Target date
1.	Automation SIG has Programme core courses like Sensors and PLC, Fluid Power Automation, Power Electronics and Drives, Control System	-	-	-
9	Programme Elective courses like Automotive Mechatronics, Modern Control Systems, System Identification and Adaptive control			
2.	Gap Analysis: Building Automation course has to be introduced to the students	Industry supported courses may be organized for the students	Dr.G.Kumaraguruparan	-
3.	Identification of industry: Experts can be identified from the industry which works on Building automation	Industry experts has to be identified.	Dr.G.Kumaraguruparan	17-03-2017
4.	Syllabus design for the course • Integrated Building Management System in support with HVAC Consultant	Syllabus needs to be designed and passed in Standing Committee	Dr.G.Kumaraguruparan	03-04-2017

Experts Profile:

A Ferno Susai,

Principal Trainer (HVAC), Inception Training Academy

Principal Consultant (HVAC), Air design engineered solutions

Master Degree in Sociology Profession - Mechanical Engineering

Having 30 years of experience, Expertise in Air-conditioning System Design, Ventilation System design, Commissioning Authority Services

Professional Experience

- > Working till date as a Principal Consult for airdesign engineered solutions, Chennai.
- Working till date as a Principal Trainer for Inception Training Academy, Chennai
- Worked in Blue star Ltd. Chennai, as a Deputy Manager for Air-conditioning Projects Planning & Execution
- > for period of Twelve & Half years.
- Worked in M H Lulla, Air-conditioning Consultant, as a HVAC system designer for a period of five years.
- Worked in Airtech Engineers Pvt Ltd as Planning Engineer for a period of three years.

KRISHNARAJ.T.J

Founder and Proprietor, M/s. C Design Engineering Solutions, Chennai, India Technical Director, M/s. Shan Engineering Pvt. Ltd, Chennai, India.

Area of Interests : HVAC & Green Building Designing

Technical Qualification:

- > D.M.E IN R & AC (Refrigeration and Air-Conditioning)
- B.Tech (Mechanical)
- > Indian Green Building Council Accredited Professional

Summary:

- ✓ Since, March 2016 onwards to till date working in M/s. C Design Engineering Solutions, Chennai, India. (Founder and Proprietor)
- ✓ Since, November 2016 onwards to till date working in M/s. Shan Engineering Pvt. Ltd, Chennai, India. (Technical Director)
- ✓ Since, January 2017 onwards to till date working in M/s. Inception Institute of Building Science, Chennai, India. (HVAC - Trainer)
- ✓ Since, February 2013 onwards to March 2016 in M/s. Innowell Engineering International Pvt. Ltd., Chennai, India. (Manager-MEP Design)
- ✓ Since, February 2012 onwards to February 2013 working as Freelancer at Chennai, India (HVAC Designer + Green Building Designer)



THIAGARAJAR COLLEGE OF ENGINEERING - MADURAI 625 015 TCE-III

Attendance sheet for the one/two credit

: Integrated Building Management System

Name of the Course Name of the Industry

У

: HVAC Consultant : A Ferno Susai, Krishnaraj.T.J

Name of the Expert Name of the Faculty Date/Time/Venue

: Dr.G.Kumaraguruparan : 08.04.2017 & 09.04.2017 (9.00 A.M to 4.30 P.M)

Mechanical Seminar Hall : Mechatronics Engineering

Department

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Signature of the Faculty Coordinator

TCE-III-AS-P1/5 TCE-III



THIAGARAJAR COLLEGE OF ENGINEERING - MADURAI 625 015 TCE-III

Course Schedule

Name of the Course: Integrated Building Management System

Name of the Industry: HVAC Consultant

Name of the Expert: A. Ferno Susai, Krishnaraj. T. J

Number of Students enrolled: 67

Name of the Faculty: Dr. G. Kumaraguruparan

Date/Time/Venue: 08.04.2017 & 09.04.2017 (9.30 A.M to 4.30 P.M), Mechanical Seminar

Hall, Department of Mechanical Engineering **Department**: Mechatronics Engineering

Date	Time	Topic	
	9.00 - 11.00	Overview of IBMS	
	11.00 - 11.15	Break	
08.04.2017	11.15 – 1.15	System Architecture of IBMS	
	1.15 - 2.15	Lunch	
	2.15 – 4.15	Integration HVAC System	
	9.00 - 11.00	Integration of Fire Alarm system	
	11.00 – 11.15	Break	
	11.15 – 1.15	Integration other Building Services	
09.04.2017	1.15 - 2.15	Lunch	
	2.15 – 3.45	Wokshop on IBMS	
	3.45 – 4.15	Question	

Signature of the Faculty Coordinator

TCE-III-AS-P1/2



THIAGARAJAR COLLEGE OF ENGINEERING - MADURAI 625 015 TCE-III

Course Instructor Feedback for One/Two credit course

Name of the Course : Integrated Building Management System

Name of the Industry : HVAC Consultant

Name of the Expert : A. Ferno Susai, Krishnaraj. T. J

Date/Time/Venue : 08.04.2017 & 09.04.2017 (9.00AM to 4.30 PM),

Mechanical Seminal Hall

	Comments
Student attendance	100%
Level of the students in understanding the concepts	Understanding levels are very good, students are very much interested.
Any suggestions regarding new content to be included as Prerequisites/Special electives	Before getting into IBMS students should learn the basic of MEP, any how we have covered that topic. The same topic shall be included in upcoming training.
Hall/Lab arrangements	Good
Hospitality	Very Good

Signature of the Course Instructor