



## JERUSALEM COLLEGE OF ENGINEERING DEPARTMENT OF CIVIL ENGINEERING

### R&D ACTIVITIES (2011-2012)

#### 1. Doctorates in the department & recognized as research guides:

- i) S. Anne Ligorina - Recognized supervisor
- ii) P.B.Sakthivel
- iii) R.Sathia
- iv) V.Gowri
- v) C.Anbalagan

#### 2. Faculty Pursuing Ph.D:

No. of Faculty Pursuing Ph.D: 3

S.No.	Name of the faculty	University	Year of Registration
1	S.Sudhakar	IIT Madras	2007
2	K.Kaviya	Anna University	2008
3	N.S.Elangovan	Anna University	2010

#### 3. Ph.D's Awarded in the last year with their area of specialization :

R.Sathia was awarded with the Doctorate degree in the month of June 2011.

#### 4. Ongoing Research Projects :

S.No.	Name of the Investigator	Title	Duration	Funding Agency	Fund Received
1	Dr.S.Anne Ligorina, Ms J.Benitta, Ms P.Suganthi	Characteristic Studies of Cryo- Treated Rebars	18 Months	Lakshmiammal R&D trust	Yet to receive
2	Dr.Sathiya and Mrs Deivannai	Characteristic Studies of Geopolymer Bricks	18 Months	Lakshmiammal R&D trust	Yet to receive

#### 5. Paper/journal Publications by the Faculty (2011-2012)

International Conferences : 4 Nos.  
National Conferences : 1 Nos.

#### National Conference:

1. Sakthivel P.B (2011) "Ferrocement and its Durability Aspects – A Review", in Proc. National conf on Ferrocement held at Maratha Chamber of Commerce, May 13-14, 2011, Pune, pp. 69-75.

### **International Conference:**

1. Sudhakar S (2011), “Influence of Heave Plate on the Hydrodynamic Response of SPAR”, in Proc. 30th Int. conf on Ocean, Offshore and Arctic Engineering (OMAE 2011), Paper no. OMAE2011-49565, June 19-24, 2011, Rotterdam, The Netherlands, pp. 437-447.
2. Sakthivel P.B (2011) “Ferrocement technology and Quality Improvisation Techniques- A review” in Proc. 2nd Int. conf. Current trends in technology –NUICONE 2011, Dec 8-10, 2011, Nirma University, Ahmedabad, pp. 1-6.
3. Sakthivel P.B (2012) “Ferrocement Construction Technology and its Applications – a Review”, in Proc. of the Int. Conf. on structural Engineering, Construction and Management, Dec, 2011, Srilanka, pp. 15-17.
4. Sakthivel P.B (2012) “Fiber Reinforced Ferrocement a review study”, in Proc. 2nd Int. Conf. Advances in Mechanical Manufacturing and Building Sciences, 9-11 Jan 2012, VIT Vellore, pp. 1172-1177.

### **6. Research Proposals sent by the Faculty:**

<b>Name of the Investigators</b>	<b>Title</b>	<b>Duration</b>	<b>Funding Agency</b>	<b>Fund Proposed</b>
Dr.S.Anne Ligorla, Ms J.Benitta, Ms P.Suganthi	Effect of Cryo-Treated Rebars In Reinforced Concrete Elements	3 years	DST	Rs.23,88,550/-

### **7.Research Workshops / Community oriented Seminars / FDPs Organized / Participated**

#### **Research Workshops:**

1. Dr.Gowri attended two days workshop on “Machine vision in Image Processing” at Jerusalem College of Engineering, Chennai on March 1st and 2nd 2012.
2. Kaviya.K attended two days workshop on “Machine vision in Image Processing” at Jerusalem College of Engineering, Chennai on March 1st and 2nd 2012.
3. Dr.S.Anne Ligorla attended two day workshop on ‘Construction of Bamboo Houses’ organized by Structural Engineering Division and Building Technology centre of Anna University during 19th and 20th of March 2012.
4. Dr. C.Anbalagan attended the two days workshop on ‘INSPIRE-Internship Programme’ sponsored by Department of Science and Technology held at Yashada, Pune on 13th and 14 April 2012.
5. Dr.P.B.Sakthivel, Participated in national workshop on ‘Precast Concrete Building in India: Pracices, possibilities and Prospects’ conducted by IITM and ICI at IITM on 6th August 2011.

## Seminars

1. Dr.V.Gowri presented a research paper in the two days national seminar on “Geospatial Technology Development in Natural resource and Disaster Management” at Center for Geotechnology, Manonmaniam Sundaranar University, Tirunelveli, on 23<sup>rd</sup> Feb 2012 and 24<sup>th</sup> Feb 2012.
2. N.S.Elangovan, Participated in the seminar on Water Quality and Management conducted by IIT Madras, Chennai from 23<sup>rd</sup> Jan 2012 to 25<sup>th</sup> Jan 2012.
3. Dr.P.B.Sakthivel, Participated in the seminar on ‘Modern Formwork systems for Building Construction conducted by IITM and ICI at IITM on 24<sup>th</sup> March 2012.

## 8.Any abroad visit:

Mr S.Sudhakar visited Rotterdam, The Netherlands, to attend an international conference  
Dr. P.B.Sakthivel visited Srilanka to attend an international conference

## 9.Awards / Rewards:

S.NO	NAME OF THE FACULTY	NAME OF THE AWARD	INSTITUTE	YEAR
1	Mrs. P.Suganthi	Best Teacher Award	JCE	March 2012
2	Mrs. P.Suganthi	Academic Performance Award	JCE	March 2012
3	Mr.N.S.Elangovan	Academic Performance Award	JCE	March 2012

## 10. Guest talk / lecture delivered in FDP / Workshop / Conference

- i) Mr.S.Sudhakar – Delivered special lecture on ‘Brief overview on the findings of Aryabhata ’at NSS Camp, 02-04- 2012
- ii) Dr.S.Anne Ligorla – Delivered special lecture on ‘Disaster Management and Mitigation’ at NSS Camp, 03-04-2012
- iii) Dr. Anbalagan - Delivered special lecture on ‘Global Warming’ at NSS Camp, 03-04-2012

## 11. Editor / Reviewer of Journal:

- i) Dr.Gowri - Reviewer of the International Journal *Optical Engineering*, an SPIE publication.

## 12. List of MOU with industries:

- Hitech India Equipments, Chennai, MoU valid till 1.2.2015
- Care Earth, Chennai, MoU valid till 18.2.2013

**13. Any other achievements:**

Name	Title of the Project	Funding Agency with address	Amount in Rs
Dr.C.Anbalagan Co- Ordinator	Inspire Science Camp	DST	19,50,000
Dr.C.Anbalagan Co- Ordinator	Inspire Science Camp	DST	48,75,000

**14. Best Students Projects:**

Degree	Name of the Students	Title	Supervisor Name	Place
UG	Ms. V. Abinaya Ms. K. Kirthika Ms. V. Nirmala Ms. M. Vani	Design and Experimental Investigation of Polymerized Bitumen Roads Using Plastics Waste.	Dr. R. Sathia	I
UG	Mr. N. Karthik Mr. M. Naveen Mr. C. Vijay Adithiyan Mr. J. Hariharan	A study on ferro cement construction in India	Dr. P. B. Sakthivel	II