



P.S.R. ENGINEERING COLLEGE

An Autonomous Institution (Approved by AICTE & Affiliated to Anna University, Chennai)

Accredited by NAAC and listed under 12(B) of the UGC Act, 1956.

An ISO 9001:2008 Certified Institution

Sivakasi - 626140, Tamilnadu, India.

CIVIL ENGINEERING

NEWS LETTER

May 2018

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DEPARTMENT OF CIVIL ENGINEERING

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FACULTY ACTIVITIES

JOURNALS

1. **Dhanalakshmi. A**, Gokulakrishnan. M., “Experimental Investigation on Stabilized Mud Blocks” *International Journal for Scientific Research & Development(IJSRD)*, Volume 6, Issue 2,2018.
2. **Mahendran. K.**, Shahul Hameed. M., “Experimental Investigation of Animal Bone Powder Replacing Cement in Concrete” *International Journal of Innovative Research Technology*, Volume 4, Issue 10, March 2018, ISSN: 2349-6002.
3. Gokulakrishnan, M.,**Dhanalakshmi, A.**, “Analytical Study on Flexural Behaviour of Reinforced Geopolymer Concrete Beams” *SSRG International Journal of Civil Engineering(SSRG-IJCE)-Special Issue ICETSST-April 2018*.

CONFERENCES

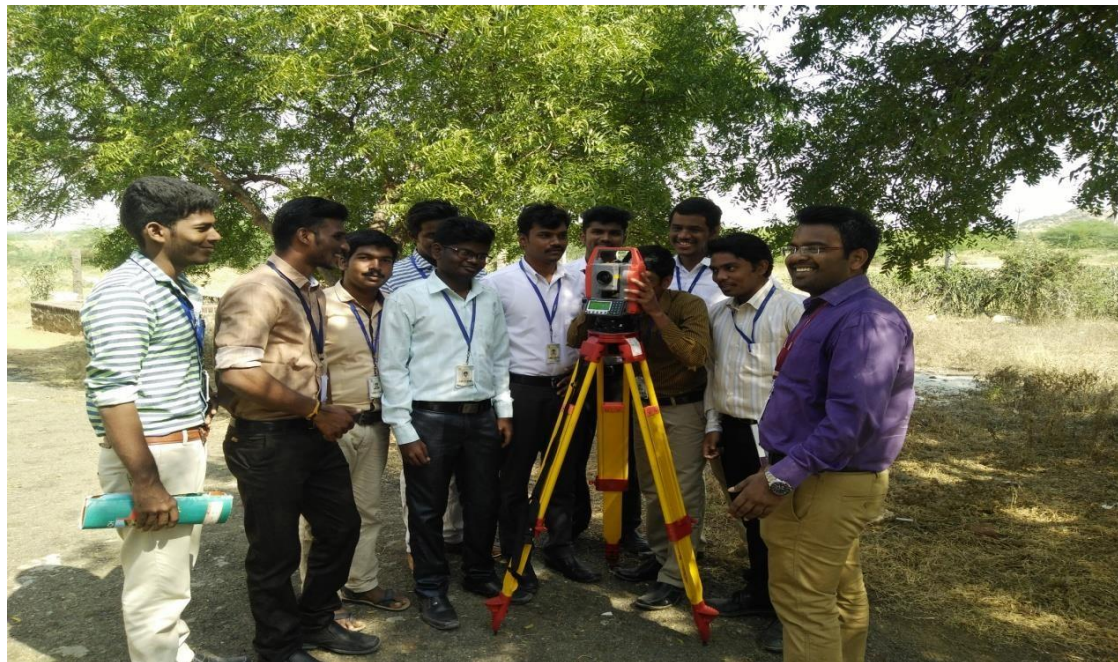
1. Gokulakrishnan, M., **Dhanalakshmi, A.**, “Analytical Study on Flexural Behaviour of Reinforced Geopolymer Concrete Beams” *International Conference on Emerging Trends in Engineering Science and Sustainable Technology(ICETESS-2018)*.
2. Shanmuga Sundari,S., **Dhanalakshmi, A.**, “Strngth and Durability study on self compacting concrete by using Flyash and baslt fibres” *National Conference on Innovative Practices, Recyclable Materials and Energy Efficient Methods in Civil Engineering(IPRME’18)*.
3. Pradeepan, N., **Dhanalakshmi, A.**, “Corrosion Study on high strength self-compacting concrete”, *International Conference on New Scientific creations in engineering and Technology*.

DEPARTMENT ACTIVITIES

One day Workshop on Digital Surveying using Total Station on 06.12.2017. Our honorable guest Mr. A. Anandhan Trainer, Lawrence & Mayo, delivered practical training to our faculty members.



Four days Workshop on “Digital Surveying Using Total Station” on 29.01.2018 to 02.02.2018. Our honorable guest Mr. A. Anandhan Trainer, Lawrence & Mayo, delivered practical training to our Students.



One day Inter Collegiate Technical Symposium, INKESTA 2K18 on 08.02.2018. Our Honorable External Evaluator for multimedia event, Mr. P. Ebenezer Sathish Paul, Associate Professor, Department of Mechanical Engineering, P.S.R.Engineering College, Sivakasi.



One day Inter Collegiate Technical Symposium, INKESTA 2K18 on 08.02.2018. Our Honorable External Evaluator for Poster Presentation, Mr. Ganesan, Associate Professor, Department of Mechanical Engineering, P.S.R.Engineering College, Sivakasi.



STUDENTS ACTIVITIES**WORKSHOP****IV YEAR**

Sl. No	Name of The Student	Title	Place	Date
1.	V.Kantharoopan	Robotics (Microsoft Awarded experts)	Chennai	26.06.2018
2.	S.Chinadurai	Workshop	P.S.R Engineering college	12.01.2018
3.	G.Murugalakshmi			
4.	G.Gobinath			
5.	S.Mowinka			

III YEAR

Sl. No	Name of The Student	Title	Place	Date
1.	M.Sridhar	Contract and Construction Management (Workshop)	GCT, Coimbatore	24.02.2018
2.	P.Thanga Pandi	Contract and Construction Management (Workshop)	GCT, Coimbatore	24.02.2018
3.	R.Mathavan	Disaster Management and First Aid (Workshop)	Akshaya College of Engg and Tech, Coimbatore	09.03.2018 & 10.03.2018

4.	N.Nivethitha	Air Quality Modelling (Workshop)	Thiagarajar college of Engineering	23.02.2018
5.	V.Abarna	Air Quality Modelling (Workshop)	Thiagarajar college of Engineering	23.02.2018

II YEAR

Sl. No	Name of the Student	Title	Place	Date
1.	P.Shalini	Connection (Technical Symposium)	P.S.R Engineering college	8.02.2018
2.	M.K Suveka	Connection (Technical Symposium)	P.S.R Engineering college	8.02.2018
3.	S.Suveka	Connection (Technical Symposium)	P.S.R Engineering college	8.02.2018

SYMPOSIUM**II YEAR**

Sl. No	Name of the Student	Title	Place	Date
IV YEAR				
1.	G.Gobinath	Burj Khalifa (Technical Symposium)	P.S.R. Rengasamy college of engineering for women,Sivakasi.	23.02.2018
2.	M.Mukesh Kumar			
III YEAR				
3.	P.Shalini	Connection (Technical Symposium)	P.S.R Engineering college	8.02.2018
4.	M.K Suveka			
5.	S.Suveka			

INPLANT TRAINING

S.No.	Name of the Student	Name of the Organization
1.	G.Durka	S.P.K. AND CO.,
2.	A. Rishi Kesava Lakshmi	S.P.K. AND CO.,
3.	R. Ruba	S.P.K. AND CO.,
4.	I. Santhiya	S.P.K. AND CO.,
5.	N. Sridevi	S.P.K. AND CO.,
6.	V. Subashini	S.P.K. AND CO.,
7.	B.Pradhap	RAIL NET SOFTWARE SOLUTIONS
8.	K.Rajesh Kannan	RAIL NET SOFTWARE SOLUTIONS
9.	S. Uthayanantha	UNIQ TECHNOLOGIES

CENTER OF EXCELLENCE PROGRAMS

The Department of Electrical and Electronics Engineering has organized following value added course to our students as follows

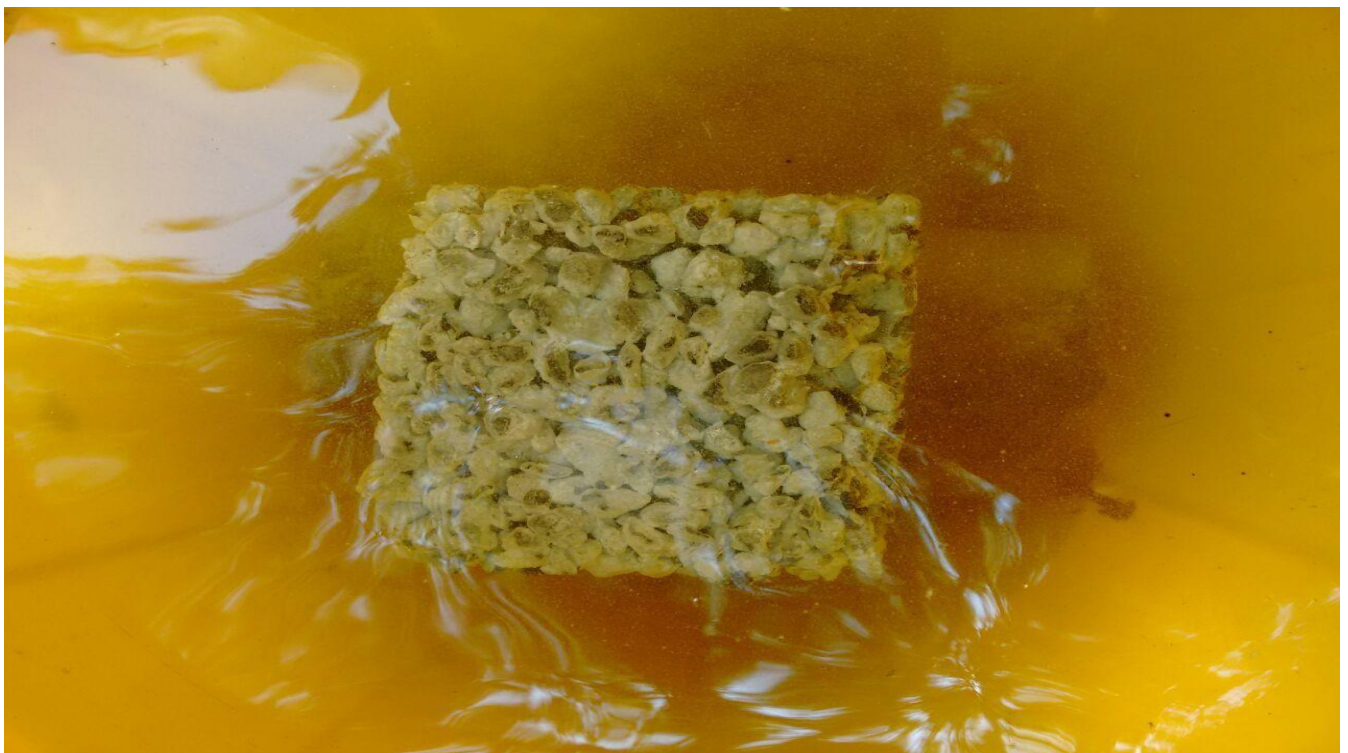
Sl. No	Year	Course Name	Training Dates
1.	III	Total Station	19.01.2018 - 01.02.2018
2.	IV	Revit Architecture	03.01.2018 -18.01.2018

BEST PROJECTS

Student Name	Guide Name	Project Title	Product
Mr.S.Vinayak (1307103) Mr.B. Tamil Selvan (1307333) Mr.K. Vignesh Kumar (1307335) Mr.B.Vignesh (1307336)	Mrs.A.Dhanalakshmi, M.E.	Experimental Study of Composite Flexible Pavement Using Waste Plastics and Tyres	Composite Flexible Pavement
M.Abusali (1307002), S.Balasubramanan (1307021), R.Darwin (1307025), N.Dharmaraj (1307307)	Dr. M.Shahul Hameed., M.E., Ph.D. M.B.A., Ph.D.	Performance of Pervious Concrete	Pervious Concrete



Demonstration on Composite Flexible Pavement Using Waste Plastics and Tyres





Demonstration on Performance of Pervious Concrete

PLACEMENT

Sl.No	Student Name	Name of the Employer
1.	R.Akila	Lexis Solution, Coimbatore
2.	B. Anand	Eureka Forbes, Chennai
3.	S.Anto Shanthosh Roche	ILM, Bangalore
4.	M. Bavithran	Justdial, Chennai
5.	A.Chidambarakannan	Justdial, Chennai
6.	S. Chinnadurai	Eureka Forbes, Chennai
7.	C.R Dhevanath	Eureka Forbes, Chennai
8.	N. Dhinesh Prabu	Eureka Forbes, Chennai
9.	E. Dineshkumar	Eureka Forbes, Chennai
10.	M.Dinesh Kumar	Lexis Solution, Coimbatore
11.	P.Esakkiraj	Lexis Solution, Coimbatore
12.	L. Gokulnath	Eureka Forbes, Chennai
13.	S.Gowsalyavinothini	Lexis Solution, Coimbatore
14.	D.Haritha	Lexis Solution, Coimbatore
15.	B. Jawahar	Eureka Forbes, Chennai
16.	K.Jothi Vignesh	Eureka Forbes, Chennai
17.	V. Jothimani	Eureka Forbes, Chennai
18.	V. Kaliraj	Eureka Forbes, Chennai
19.	G. Kannan	Eureka Forbes, Chennai
20.	A.Keerthana	Surthernland, Chennai
21.	M. Manikandan	Disha Interiors, Chennai
22.	S.Manikandan	Eureka Forbes, Chennai
23.	N. Manojkumar	Eureka Forbes, Chennai
24.	A. Megavarman	Eureka Forbes, Chennai
25.	M.Murshitha Parveen	ILM, Bangalore
26.	G.Murugalakshmi	Lexis Solution, Coimbatore
27.	M. Muthukumar	Eureka Forbes, Chennai
28.	S. Muthukumar	Eureka Forbes, Chennai
29.	K.Nagoor Nishana	Allsec, Chennai
30.	S. Naveen Kumar	Eureka Forbes, Chennai
31.	P.Nirmaladevi	Lexis Solution, Coimbatore
32.	S.Nithya Subhasree	ILM, Bangalore
33.	K.S. Pavithra	Allsec, Chennai
34.	A.Ponraj	Lexis Solution, Coimbatore
35.	A.Ragasree	Lexis Solution, Coimbatore

36.	M.Ragavi	C.Core, Lucknow
37.	N. Raju@Kuttiraj	Eureka Forbes, Chennai
38.	N. Ramvignesh	Eureka Forbes, Chennai
39.	N. Rasathi	Eureka Forbes, Chennai
40.	H.Riyas Barveen	Allsec Technologies
41.	A.Rizwana Fathima	Lexis Solution, Coimbatore
42.	S.Rohini	Lexis Solution, Coimbatore
43.	S.Sam Gautham Rajadurai	ILM, Bangalore
44.	Saravanaperumal.M	Eureka Forbes, Chennai
45.	Sasimekala.M	Justdial, Chennai
46.	G.Selva Sakthi	Lexis Solution, Coimbatore
47.	R.Shri Arthi	ILM, Bangalore
48.	C.R Siddharth	Eureka Forbes, Chennai
49.	K.Siva Karthicksamy	Eureka Forbes, Chennai
50.	V.Sivabalashankar	Eureka Forbes, Chennai
51.	V.Sudalai	Disha Interiors, Chennai
52.	V.Suraj Harish	ILM, Bangalore
53.	M.Thangamariappan	Eureka Forbes, Chennai
54.	M.Velmurugan	Lexis Solution, Coimbatore
55.	K.Vijaya Raghavan	ILM, Chennai
56.	J. Vishnu	Eureka Forbes, Chennai
57.	P.Arunpandian	Eureka Forbes, Chennai
58.	Prakash.R	Eureka Forbes, Chennai
59.	M.Rajaguru	E-Care, Tirunelveli
60.	Rajakrishna.R	Eureka Forbes, Chennai
61.	P.Selvaraj	Lexis Solution, Coimbatore
62.	Sindhujaa Jeyaram	Lexis Solution, Coimbatore
63.	R. Vinothkumar	Eureka Forbes, Chennai

STUDENTS ARTICAL

FOAM CONCRETE

The foam is produced by agitating a foaming agent with compressed air to make "aircrete" or "foamcrete". Foam concrete, also known as Lightweight Cellular Concrete (LCC), Low Density Cellular Concrete (LDCC), and other terms is defined as a cement-based slurry, with a minimum of 20% (per volume) foam entrained into the plastic mortar. As mostly no coarse aggregate is used for production of foam concrete the correct term would be called mortar instead of concrete; it may be called "foamed cement" as well. The density of foam concrete usually varies from 400 kg/m^3 to 1600 kg/m^3 . The density is normally controlled by substituting fully or part of the fine aggregate with foam. The history of foam concrete dates back to the early 1920s and the production of autoclaved aerated concrete, which was used mainly as insulation. A detailed study concerning the composition, physical properties and production of foamed concrete was first carried out in the 1950s and 60s. Following this research, new admixtures were developed in the late 1970s and early 80s, which led to the commercial use of foamed concrete in construction projects. Initially, it was used in the Netherlands for filling voids and for ground stabilization. Further research carried out in the Netherlands helped bring about the more widespread use of foam concrete as a building material.

More recently, foam concrete is being made with a continuous foam generator. This material is fireproof, insect proof, and waterproof. It offers significant thermal and acoustic insulation and can be cut, carved, drilled and shaped with wood-working tools. This construction material can be used to make foundations, subfloors, building blocks, walls, domes, or even arches that can be reinforced with a construction. Initially, it was used in the Netherlands for filling voids and for ground stabilization. Further research carried out in the Netherlands helped bring about the more widespread use of foam concrete as a building material. More recently, foam concrete is being made with a continuous foam generator. This material is fireproof, insect proof, and waterproof. It offers significant thermal and acoustic insulation and can be cut, carved, drilled and shaped with wood-working tools. This construction material can be used to make foundations, subfloors, building blocks, walls, domes, or even arches that can be reinforced with a construction fabric.

Manufacturing

Foamed concrete typically consists of a slurry of cement or fly ash and sand and water, although some suppliers recommend pure cement and water with the foaming agent for very lightweight mixes. This slurry is further mixed with a synthetic aerated foam in a concrete mixing plant. The foam is created using a foaming agent, mixed with water and air from a generator. The foaming agent used must be able to produce air bubbles with a high level of stability, resistant to the physical and chemical processes of mixing, placing and hardening.

Foamed concrete mixture may be poured or pumped into moulds, or directly into structural elements. The foam enables the slurry to flow freely due to the thixotropic behaviour of the foam bubbles, allowing it to be easily poured into the chosen form or mould. The viscous material requires up to 24 hours to solidify (or as little as two hours if steam cured with temperatures up to 70 °C to accelerate the process. depending on variables including ambient temperature and humidity. Once solidified, the formed produce may be released from its mold. New application in foam concrete manufacturing is to cut the big size concrete cakes into blocks of different sizes by a cutting machine using special steel wires. The cutting action takes place when concrete is still soft.

Foamed concrete can be produced with dry densities of 400 to 1600 kg/m³ (25 lb/ft³ to 100 lb/ft³), with 7-day strengths of approximately 1 to 10 N/mm² (145 to 1450 psi) respectively. Foam concrete is fire resistant, and its thermal and acoustical insulation properties make it ideal for a wide range of purposes, from insulating floors and roofs, to void filling. It is also particularly useful for trench reinstatement. A few of the applications of foam concrete are bridge approaches / embankments, pipeline abandonment / annular fill, trench backfill, precast blocks, precast wall elements / panels, cast-in-situ / cast-in-place walls and insulating compensation laying etc.,

- S.NITHYA SUBHASREE

IV/YEAR

KNOW YOUR ALUMINI

Mr. K.SenthilvelSevugaPandian

Assistant Engineer (Group 2A)

Medical and Rural Health Services Dept

Civil ((2009-2013)



P.S.R ENGINEERING COLLEGE is much beyond just an “Institution”...It actually denotes a “Culture”...Culture of excellence, empowerment, and enrichment. Being a part of PSR, I felt blessed. The college has molded my personality and clarified my vision of the future. That day is not far when people will recognize me with the name of PSR and I am very grateful to the Institute for providing guidelines and motivation to inspire me to achieve my goals.

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