



P. A. COLLEGE OF ENGINEERING AND TECHNOLOGY
POLLACHI, COIMBATORE - 642 002
An Autonomous Institution
Accredited by NAAC with 'A' Grade
Accredited by NBA (CSE, ECE, EEE & Mech)
An ISO 9001:2015 Certified Institution



RESEARCH AND DEVELOPMENT CELL

Academic Research – (Department of Civil Engineering)

Research Facilities

Sl. No.	Facility	Description (Equipments / Software Details)
1.	ENVIRONMENTAL ENGINEERING LABORATORY	Gas Chromatography, Atomic Absorption Spectrophotometer
2.	CONCRETE LAB	Compression Testing Machine
3.	STRENGTH OF MATERIALS LAB	Universal Testing Machine

Faculty Pursuing PhD outside PACET

Sl. No.	Name of the Scholar	Reg. No.	Supervisor Details	Research Area	Name of the University
1.	Mrs. J. Kalaiselvi Nivedha	CE21DO2	Dr. Mainak Mallik Associate Professor Department of Civil Engineering NIT, ARUNCHALA PRADESH. mainak@nitap.ac.in 09485230516	Concrete Technology	NIT, ARUNCHALA PRADESH

Journals

Sl. No.	Title of the paper	Name of the journal	International / National	Vol. No. / Issue No./ Page No. / Year	Authors
1.	Experimental Study on the Thermal and Thermoshock Effects on the Concrete Strength due to the use of Quarry dust for Replacing Sand	European journal of Scientific Research	International	Vol.No.92, No.1, pp.113-119. 2012	Dr.G.Balamurugan
2.	Behaviour of Concrete on the use of Quarry dust to replace Sand- An Experimental Study	IRACST-Engineering Science and Technology	International	Vol.3, No.6, pp.776-778. Dec 2013	Dr.G.Balamurugan
3.	Use of Quarry dust to replace Sand in Concrete- An Experimental Study	International Journal of Scientific and Research	International	Vol.3, No.12, pp.50-53,Dec.2013	Dr.G.Balamurugan
4.	Experimental Investigation on plastic Soil Bricks	International Journal of Engineering Science and Computing	International	Vol.6, No.4, pp.3784-3787, 2016	Dr.G.Balamurugan
5.	A Study on Fire Resistance property of HSC using Silica Fume and Metakaolin with Polypropylene fiber	International Journal of Advanced Research	International	Vol.4, No.4, pp.1292-1302. 2016	Dr.G.Balamurugan
6.	Experimental Study on Light weight Foam Concrete Bricks	International Research Journal of Engineering and Technology	International	Vol.4, No.4, 2017.	Dr.G.Balamurugan

7.	An Experimental Investigation of flyash bricks using Quarry Dust and Granite Dust	International Journal of Engineering Science and Computing,	International	Vol.7, No.4, 2017.	Dr.G.Balamurugan
8.	Experimental Investigation on recycle plastic in Concrete	International Journal of Innovative Research in Science, Engineering and Technology,	International	Vol.4, No.4, 2017.	Dr.G.Balamurugan
9.	Self Compacting Concrete with Quarry dust as Partial Replacement for Fine aggregate and Fly ash for Cement with Fiber Reinforcement	International Research Journal of Engineering and Technology,	International	Vol.4, No.5, pp. 1167-1174, 2017	Dr.G.Balamurugan
10.	An Experimental Study on Concrete with Partial Replacement of Cement by Water Hyacinth Ash and Fine Aggregate by Quarry Dust	International Journal for Science and Advance Research in Technology (IJSART),	International	Volume 5, Issue 3, , Pp. 458 - 461, March 2019	Dr.G.Balamurugan
11.	An Experimental Study on Plastic Paver Tiles	International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)	International	Vol. 10, Issue 5, , pp 4297-4304, May 2021	Dr.G.Balamurugan Mr. I. Mohammed Rafi
12.	Light weight Foam Bricks using Sinicon Sand	International Research Journal of Modernisation In Engineering and Technology and Science	International	Volume3, Issue No:4, April-2021	Mr.K.Jeyavelu
13.	Effect of Glass Powder and Silica Fume In Concrete - An Experimental Study	EPRA International Journal of Research & Development	International	Volume 6, Issue 5, pp - 1 - 5, May 2021	Mr.K.Jeyavelu

14.	An Experimental Study on the Use of Plastic Bottle Caps as A Replacement Material in Fibre Concrete	EPRA International Journal of Multidisciplinary Research	International	Volume: 7, Issue No. 5, May 2021, pp 2455-3662	Mr.K.Jeyavelu
15.	An Experimental Investigation on Concrete by Partial Replacement of Hypo Sludge and Foundry sand	Emerging Trends In Engineering, Technology And Management	International	Vol 4, No. 3, April 2015	Mr. M. Sathees Kumar
16.	Time contingency Assessment in Construction Project due to various factors	International Journal of Innovative Research in Science, Engineering and Technology	International	Vol 6, No. 12, Dec17.	Mr. M. Sathees Kumar
17.	Influence of Foundry Sand and Hypo Sludge in Concrete'	International Journal of Innovative Research in Science, Engineering and Technology	International	Vol. 6, No. 03, pp. 4261-4267.	Mr. M. Sathees Kumar
18.	Software Analysis and Model Study of Soil Nailed Wall	International journal of Modern Trends in Engineering and Research	International	Vol 5, No. 3: March 2018	Mr. M. Sathees Kumar
19.	Experimental Investigation of Partial Replacement of Fine aggregate with Copper Slag in Concrete	International Journal for Science and Advance Research in Technology	International	Vol 5, No.3, March 2019, pp. 479 - 484	Mr. M. Sathees Kumar
20.	Experimental Study on Brick using Partial Replacement of Paper Industry waste	International Journal for Science and Advance Research in Technology	International	Vol 5, No. 3, March 2019, pp. 462 - 466	Mr. M. Sathees Kumar
21.	Foam Concrete Brick- An Experimental study	International Journal of Scientific & Engineering Research	International	Vol11, No.3, March- 2020	Mr. M. Sathees Kumar

22.	Influence of GGBS and Eco Sand in Green Concrete	International Journal of Innovative Research in Science, Engineering and Technology,	International	Vol. 4, No. 06, pp. 4519-4527.	Mr. M.Prabu
23.	Influence of Foundry Sand and Hypo Sludge in Concrete	International Journal of Innovative Research in Science, Engineering and Technology,	International	Vol. 6, No. 03, pp. 4261-4267.	Mr. M.Prabu
24.	A Study on the Mechanical Properties of Banana Stem Ash Concrete made using Straw Dipped Water	International Research Journal of Engineering & Technology (IRJET),	International	Vol 6, March 2019, pp. No. 3369 - 3374	Mr. M.Prabu
25.	Experimental Investigation on Concrete Using Recron Fibre as Reinforcement	International Journal of Innovative Research In Science, Engineering And Technology,	International	Volume 8, Issue No. 3 Page – 2550 - 2559, March 2019,	Mr. M.Prabu
26.	Experimental study on concrete in partial replacement of fine Aggregate with lathe waste	International Journal of Scientific & Engineering Research	International	Volume 11, Issue 3, March-2020	Mr. M.Prabu
27.	Flexural Behavior of Reinforced Concrete Beam Wrapped with Different Layers of GFRP Sheets	International Journal of Applied Engineering Research,	International	Vol. 11, No. 03, pp. 79-83.	Mr.R.Gowri Shankar
28.	Mechanical Behavior of GFRP Wrapped RC Beam	International Journal of Innovative Research in Engineering Science and Technology	International	Vol.3, No. 5 pp. 49-53.	Mr.R.Gowri Shankar
29.	Fibre Reinforced Polymer Wrapped Concrete Beams	Construction Materials, Methods And Processes: Challenges, Opportunities, Status And Trends in India	International	vol 2, , ISBN NO : 978-93-5311-224-0, pp. 350-357, Nov 2017	Mr.R.Gowri Shankar, Mr.T.Ravindaran
30.	Experimental Study on Eco-friendly Geo-Polymer Paver Blocks:	International Journal for Science and Advance	International	Vol 5, Issue 3, Page No. 435 – 441,	Mr.R.Gowri Shankar

	Utilizing Hazardous and waste materials	Research in Technology		March 2019	
31.	Experimental Study on Fly- Ash Bricks With Steel Waste	International Journal for Science and Advance Research In Technology	International	Vol 6, Issue 8 , pp 430-434, Aug 2020:	Mr.R.Gowri Shankar
32.	Influence of Lean Management Practices on Quality in Construction Industries', Bonfring	International Journal of Industrial Engineering and Management Science	International	Vol. 6, No. 02, pp. 38-42.	Mr.T.Ravindaran
33.	A Study on Influence of Lean Management Practices on Reduction of Cost and Time in Construction Industries	International Journal of Modern Trends in Engineering and Research	International	Vol. 03, No. 03, pp. 248-254.	Mr.T.Ravindaran
34.	Exploring the Influence of Lean Management Practices on Stock Reduction in Construction Industries	International Journal of innovative Research in Engineering Science and Technology	International	pp. 26-31.	Mr.T.Ravindaran
35.	A Study on Linkage Between Lean Management Practices and Stock Reduction in Construction Industries	Sai Om Journal of Science, Engineering & Technology: A Peer Reviewed International Journal	International	Vol. 3, No.02, pp.1-7.	Mr.T.Ravindaran
36.	Partial Replacement of Fly Ash with Slurry Sand in fly ash Bricks	Construction Materials, Methods And Processes: Challenges, Opportunities, Status And Trends in India,	International	volume 2, November 2017, ISBN NO : 978-93-5311-224-0, pp. 358-361	Mr.T.Ravindaran, Mr.R.Gowri Shankar
37.	Experimental Study on Bricks Using Slurry Sand	International Journal for Science and Advance Research in Technology	International	Volume 5, Issue 3, March 2019, Page No.: 467 - 473	Mr.T.Ravindaran

38.	Experimental study on bricks using slurry sand	International journal for science and advance research in technology ,	International	Volume 5, Issue 3 , March 2019	Mr.T.Ravindaran
39.	An Analytical And Mechanical Study Of Blended Cement Concrete” in	International Journal of Science and Engineering Research	International	Volume 3, Issue 11: November 2015	Mrs.J.Kalaiselvi Nivedha
40.	An Experimental Study On Blended Cement Concrete	International Journal of Advanced and Innovative Research	International	Volume 5, Issue 04: April 2016.	Mrs.J.Kalaiselvi Nivedha
41.	Experimental Study of Concrete with Partial Replacement of sand by Waste Glass powder and used Engine Oil	International Journal for Science and Advance Research in Technology	International	Volume 5, Issue 3, March 2019, Page No. 431 - 434	Mrs.J.Kalaiselvi Nivedha
42.	An Experimental Study on Mechanical Properties of Blended Cement Concrete	International Journal for Science and Advance Research in Technology	International	Volume 5, Issue 3, March 2019, Page No. 485 – 489	Mrs.J.Kalaiselvi Nivedha
43.	Effect of Glass Powder and Silica Fume In Concrete - An Experimental Study	EPRA International Journal of Research & Development	International	Volume 6, Issue 5, pp – 1 - 5, May 2021	Mrs.J.Kalaiselvi Nivedha
44.	Light weight Foam Bricks using Sinicon Sand” International Research Journal of Modernisation I	Engineering and Technology and Science	International	Volume3, Issue No:4, April-2021	Mrs.J.Kalaiselvi Nivedha
45.	An Experimental Study on the Use of Plastic Bottle Caps as A Replacement Material in Fibre Concrete	EPRA International Journal of Multidisciplinary Research	International	Volume: 7, Issue No. 5, May 2021, pp 2455-3662	Mrs.J.Kalaiselvi Nivedha
46.	Influence of Tie Bars in Concrete Filled Steel Tubular Circular	International Journal of Printing, Packaging &	International	Vol. 4, No. 3, pp 1481-	Mr.I.Mohammed Rafi

	Column under Uni-Axial Compression	Allied Sciences		1489, December 2016, ISSN 230-4387	
47.	Influence of Shear connectors in Concrete Encased Steel Rectangular Column under Axial Compression	International Journal for Science and Advance Research in Technology	International	Volume 5, Issue 3, March 2019, Page No. 569 - 578	Mr.I.Mohammed Rafi
48.	Experimental Behaviour of Steel Encased Square Composite Column under Axial	International Journal for Science and Advance Research in Technology	International	Volume 5, Issue 3, March 2019, Page No. 563 – 568	Mr.I.Mohammed Rafi
49.	Experimental Investigation on Concrete Using Recron Fibre as Reinforcement	International Journal of Innovative Research In Science, Engineering And Technology	International	Volume 8, Issue No. 3, March 2019, Page – 2550 - 2559	Mr.I.Mohammed Rafi
50.	An Experimental Study on the Use of Plastic Bottle Caps as A Replacement Material in Fibre Concrete	EPRA International Journal of Multidisciplinary Research	International	Volume: 7, Issue No. 5, May 2021, pp 2455-3662	Ms.P.Ranjitha
51.	Effect of Glass Powder and Silica Fume In Concrete - An Experimental Study	EPRA International Journal of Research & Development	International	Volume 6, Issue 5, pp – 1 - 5, May 2021	Ms.P.Ranjitha
52.	Light weight Foam Bricks using Sinicon Sand	International Research Journal of Modernisation In Engineering and Technology and Science	International	Volume3, Issue No:4, April-2021	Ms.P.Ranjitha