



VAIGAI COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University Chennai.)

Vinayagapuram, Therkutheru, Madurai - 625122

Web : www.vaigai.org | E-Mail : vaigaioffice@gmail.com | Contact: +91 948 990 9001

BIODATA



Name : Ms. P. Muthanand

Designation : Assistant Professor

Department : Civil Engineering

**Address for Communication: 6/4, Manoranjitham Street,
Manoranjitham Street, IOC Nagar,
Vilangudi
Madurai – 625 018**

Email : muthanandpandian@gmail.com

MobileNumber: 9894845019

GoogleScholarlink:

<https://scholar.google.com/citations?user=Wv9yhM4AAAAAJ&hl=en>

1. Educational Qualification:

Degree	Branch/Specialization	Institute/University	Year of passing
B.E	Civil Engineering	Coimbatore Institute of Technology, Coimbatore, Tamilnadu	Nov 2008
M.E	Structural Engineering	Sethu Institute of Technology, Virudhunagar, Tamilnadu	June 2011
PG Diploma	In Yoga meditation and Holistic Health	Institute of Gandhian Studies & Research, Gandhi Museum, Madurai, Tamilnadu	April 2015
(PhD)	Civil Engineering	Anna University, Chennai	Pursuing

2. Professional/Industry Experience:(inchronologicalorder)

Sl. No.	Designation	Institute/Organization	Period	
			From	To
1	Assistant Professor	Vaigai College of Engineering, Madurai, Tamilnadu.	April 2023	Till Date
2	Assistant Professor	SBM College of Engineering, Dindigul, Tamilnadu.	September 2022	April 2023
3	Assistant Professor	PSNA College of Engineering & Techology, Dindigul, Tamilnadu	June 2016	September 2022
4	Assistant Professor	Sethu Institute of Technology, Virudhunagar, Tamilnadu.	June 2011	May 2016
5	Enginner – Quantity Audit	Aarohan Consultancy and Property Developers PVT, Ltd, Chennai, Tamilnadu.	Nov 20008	Aug 2009

3. Research Interest:

Geopolymer Concrete, Structural Engineering, Earth quake Resistant Structures, Repair and Rehabilitation of structures, Incorporate Covid 19 safety measures for building plan.



4. Journal Publications (add patent if any):

1. Rajendra Prasath C Suraj Harish V, Muthanand P “ Performance Analysis of Braced Reinforced Concrete Building in Sloped Terrain” International Journal of Engineering and Advanced Technology (IJEAT), 2020, Volume 9, Issue 4, 2424-2429.
2. P.Muthanand , R. Madasamy “ Experimental study on utilization of steel mill scale in Fly ash brick” International Journal of innovative research in science, Engineering and Technology, 2020, Volume 9, Issue 9, 9039-9051.
3. P.Muthanand C.Rajendra Prasath, P.M.Dhureen Karthik “Static and Dynamic Analysis of Cellular Beams” International Journal of Recent Technology and Engineering, 2019, Volume 8, Issue 4, 7072 – 7076. Scopus
4. P. Muthanand, M. Nagarajan and M. Sarathbabu “ Experimental Study On Rice Husk Ash And Fly Ash As Partial Replacement Of Cement In Concrete” , International Journal of Civil Engineering and Technology (IJCIET), 2018, Volume 9, Issue 11, 1170-1177.Scopus
5. P.Muthanand and Kabaleeswaran P. S ,” Behaviour Of Under Reinforcement Beam With Welded Shear Reinforcement” SSRG International Journal of Civil Engineering (ICEHS), 2017, Special issue, 77-80.
6. E Divya Dharsheni, V Anitha, G Idhayaarasi, B Asuruthi, V Amaravathi, Mr P Muthanand, “Experimental Study on Strength of Bacterial Concrete with Bentonite as Partial Replacement of Cement in Concrete” International Journal Of Advanced Research in Engineering & Management (IJAREM) , 2017 , Volume 3, Issue 7, 66-70.
7. Muthanand P and sabitha D, “An Experimental Investigation of Fly Ash Brick with Addition of Waste Glass Powder and Copper Slag, International Journal of Innovative Research in Science, Engineering and Technology, 2016, Volume 5, Issue 4, 4922 – 4929.

Conference Papers

1. P.Prabhu and P.Muthanand “ Study and Characterization of Nano metakaolin based Geo polymer concrete”, International conference on new scientific creation in Engineering and Technology, 16th and 17th June 2022.
2. P.Muthanand and N.Mahendran “Experimental Investigation on Concrete Filled Steel Tubular Beam” Two-Day 2nd International E-Conference on “Novel Innovations and Sustainable Development in Civil Engineering” (NISDCE'22) during 31st March, 2022 and 1st April, 2022.
3. Kabaleeswaran and P.Muthanand “ Behaviour of Under Reinforcement Beam with Welded shear Reinforcement” , International conference on Engineering Humanities & Science, 5th May 2017.
4. T. Aruna, P. Muthanand “Flexural Behaviour of Concrete-Filled Steel Tubular Beam”, National Conference on Recent advancements in Civil Engineering, 21st March 2014.
5. R. Selvaraj, S.Thahira Banu, P. Muthanand “ Study on Cement Mortar with Organic Viscosity Modifiers in Mixing Water” , International Conference on Futuristic Innovations and Developments in Civil Engineering, 18th – 20th April 2013.
6. R. Selvaraj, S.Thahira Banu, P. Muthanand “Some aspects on Pervious Concrete”, International Conference on Futuristic Innovations and Developments in Civil Engineering, 18th – 20th April 2013.



7. R. Selvaraj, S.Thahira Banu, P. Muthanand “Characterisation and design of various lightweight Mortars for Non-Structural Applications , International Conference on Futuristic Innovations and Developments in Civil Engineering, 18th – 20th April 2013.

8. P. Muthanand, R. Selvaraj, K.M. Basanth Babu “ Study and Characterization of Cement Mortar with the addition of Calcium Carbide (C_aC₂)”, National Conference on Technological Advances in Civil Engineering, 3rd & 4th May 2011.

5. Book/Book chapter publications:

6. Funded Projects

Sl. No.	Title of the project	Funding Agency	Duration	Amount	Status
Nil					

7. Ph.D Guidance

Sl. No.	Scholar Name	University	Topic	Status
Nil				

8. Guest Lecture and Participation in Seminars/FDP/Workshop/Conference/Webinar:

Sl. No.	Title of the event and Institute	Delivered/Organized /Attended	Date	
			From	To
1	“Importance of Health and Fitness for students”, Department of Agricultural Engineering and National Services Scheme(NSS) , Gyanamani College of Technology, Salem.	Delivered	11.04.2022	----
2	“Role of Total station in Surveying”, January 10,2021, Gnyanamani Educational institutions, Salem.	Delivered	10.01.2021	----
3	“Power of yoga for boosting immune system” Department of Civil	Organized	18.06.2020	----



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	Engineering, PSNA College of Engineering and Technology, Dindigul, Tamilnadu.			
4	“Emerging Trends in Civil Engineering Software & Prospective Career Opportunities” Department of Civil Engineering, Sethu Institute of Technology, Virudhunagar.	Organized	28.02.2014	----
5	“Application of ANSYS in Civil Engineering”, Department of Civil Engineering, Sethu Institute of Technology, Virudhunagar.	Organized	28.09.2012	-----
6	“Green Construction techniques for climate resilient affordable housing”, Department of Civil Engineering, KPR Institute of Engineering and Technology, Coimbatore.	Attended	03.10.2017	04.10.2017
7	Finite Element Software”, Department of Civil Engineering, Mepco Schlenk Engineering College, Sivakasi.	Attended	19.09.2014	20.09.2014
8	“Personal Effectiveness Programme”, Department of Mathematics, Sethu Institute of Technology, Virudhunagar.	Attended	30.08.2013	31.08.2013
9	“Challenges in Remote Sensing and GIS” Department of Electronics & Communication Engineering,	Attended	25.03.2013	26.03.2013
10	“CE6302 – Mechanics of Soilds”, Department of Civil Engineering, Srividya College of Engineering and Technology	Attended	16.06.2014	22.06.2014
11	“Earthquake Resistant Structures”, Department of Civil Engineering, Mepco Schlenk Engineering College, Sivakasi.	Attended	20.05.2013	02.06.2013
12	“Paradigms in Recent Research Methodology”, Department of Civil Engineering, Sethu Institute of Technology.	Attended	06.03.2013	07.03.2013
13	“Building Information Modeling for Construction” Conducted by ICT Academy of Tamilnadu held at Department of Civil Engineering, Sri Vidya College of Engineering & Technology,	Attended	22.05.2012	26.05.2012
14	“Durability, Servicelife, and Performance specifications For Concrete”, Department of Civil Engineering, Indian Institute of Technology Madras, Chennai.	Attended	21.09.2011	-----
15	“Faculty Induction Program” ,	Attended	07.07.2011	08.07.2011



Department of Civil Engineering, Sethu Institute of Technology, Virudunagar.	14.07.2011	011 16.07.2 011
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Online Course with Certification

- ✓ Coursera – Introduction to Google Docs -September 2020.
- ✓ Coursera – Create Your First Game with Python -September 2020.
- ✓ Coursera – COVID-19 Contact Tracing – July 2020.
- ✓ Coursera – Create a Resume and Cover Letter with Google Docs - September 2020.
- ✓ Coursera – Create Your First Python Program - September 2020.
- ✓ Coursera –Create Informative Presentations with Google Slides - September 2020.
- ✓ Coursera – Introduction to Python - September 2020.
- ✓ Coursera – Mechanics of Materials III: Beam Bending - September 2020.
- ✓ Coursera – Mechanics of Materials IV: Deflections, Buckling, Combined Loading &Failure Theories - September 2020.
- ✓ Coursera – Philosophy, Science and Religion: Science and Philosophy - July 2020.
- ✓ Coursera – Spreadsheets for Beginners using Google Sheets - September 2020.
- ✓ Certificate of Participation “ India’s First leadership talk series session with Mr.Mahesh Badu CEO Mahindra Electric Mobility Ltd. By MHRD’S Innovation Cell. – July 2020.
- ✓ Certificate of Participation “ Online Physics Quiz 2020” , Department of Physics, PSNA College of Engineering and technology, Dindigul, on 23.05.2020
- ✓ Certificate of Participation, one day live inspirational speech on “ Vidiyum endru vinnai nammbu mudium endru unnai nambu” Department of Science and humanities, St Micheal College of Engineering and Technology, kalyarkoil, Sivagangai District, on 30.06.2020
- ✓ Certificate of Participation, National level online FDP on “ Research Trends in Civil Engineering”, Department of Civil Engineering, St.Peter’s College of Engineering and Technology, 29th June,2020 to 2nd July 2020.
- ✓ Certificate of Participation, Technical webinar on “3D Modelling in sketch up software” , Department of Civil Engineering, PAAVAI Engineering College, Namakkal, on 13.04.2022.
- ✓ Certificate of Participation, One week Virtual Short term Training Program (STTP) on “ Practical Aspects of Civil Engineering” , Department of Civil Engineering, Sethu Instituteof Technology, Dindigul, 3rd August 2020 to 8th August 2020.
- ✓ Participated in webinar on “ A case study on Alternative Construction Technologies” , Department of Civil Engineering and Engineering council of India, New Delhi, Adithya Institute of Technology, on 29th July 2020.
- ✓ Certificate of Participation, “ water for Future Generations”, Department of Civil Engineering, SCAD College of Engineering and Technology, Tirunelveli on 24-07-2020.
- ✓ Certificate of Participation, “ Effective stress in Soil Mechanics” Department of Civil Engineering, Gnanamani College of Technology, Namakkal, on 08.07.2020.
- ✓ Certificate of Participation, Technical webinar on “Geopolymer concrete and its Applications by Dr.N.Karthiga” , Department of Civil Engineering, PAAVAI EngineeringCollege, Namakkal, on 01.07.2021.



- ✓ Certificate of Participation, webinar on “BBS for RC structures”, Department of Civil Engineering, PSR Engineering College, Sivakasi, on 10th July, 2021.
- ✓ Certificate of Participation, webinar on “Analysis and Design of RCC Building by using Staad Pro”, Department of Civil Engineering, PSR Engineering College, Sivakasi, on 7th July, 2021.
- ✓ Certificate of Participation, one week online International FDP on “Facets of Teaching” Center for national & International Academic Collaborations, Tamilnadu Teachers Education University, Chennai in association with Lakshmi college of Education, Gandhigram, Dindigul, from 14.06.2021 to 20.06.2021.
- ✓ Certificate of Participation, Five Day FDP on “Managing Infrastructure Projects using Emerging Technologies (MIPET – 2021)” Department of Civil Engineering, Thiagarajar College of Engineering, Madurai, from 07.06.2021 to 11.06.2021.
- ✓ Certificate of Participation, “SUSTAINABLE ALTERNATE GREEN CONCRETE CONSTITUENTS” Department of Civil Engineering, PSNA College of Engineering and Technology, Dindigul on 01.07.2021.

+9. Membership in Professional societies

Member in the Institution of Engineers (MIE), India (IEI)

10. Awards, Recognition & Achievements

Sports Certificates

1. Annual Sports, Department of Physical Education Coimbatore Institute of Technology, Placed “Second” for the event of 4 × 100 m Relay, During the year 2005.
2. Intramural Tournaments, Department of Physical Education, Coimbatore Institute of Technology, Placed “Winner” for the event of Basket ball, During the year 2005.
3. Intramural Tournaments, Department of Physical Education, Coimbatore Institute of Technology, Placed “Runner” for the event of Basket ball, During the year 2002 - 2003.
4. Certificate of Merit, Dindigul Educational District secondary, Higher secondary, And Matric School Athletic Association, Zonal Tournament/Atheletics, Represented for NSVV Boys Hr.sec.school, Basketball Game, “Runner super senior” During the year 2000-2001.
5. Certificate of Merit, Dindigul Educational District secondary, Higher secondary, And Matric School Athletic Association, Eductaional District Tournament/Atheletics, Represented for NSVV Boys Hr.sec.school, 4 × 100. Mts Relay, “Third super senior” During the year 2000-2001.
6. Certificate of Merit, Department of Physical Education N S V V higher secondary school, Placed “Third” for the event of Triple Jump, During the year 2000-2001.
7. Certificate of Merit, Republic Day Sports, Bharathiyar Day Division Level Games, Represented for NSVV Boys Hr.sec.school, Hockey Game, “Runner super senior” During the year 1999 - 2000.



8. Roll of Honour in the Inter school Tournament for ST.Britto Trophy Placed “ Runner - up” represented for NSVV Boys Hr.sec.school, held at ST.Britto Higher secondary school grounds Madurai during the year 2000.
9. Roll of Honour in the Inter school Tournament for ST.Britto Trophy Placed “ First” represented for NSVV Boys Hr.sec.school, held at ST.Britto Higher secondary school grounds Madurai during the year 1999.
10. District level Republic Day Sports and Games, Placed “Winner” for the Basketball tournament, Represented for N S V V Boys higher secondary school, during the year 1999 – 2000.
11. K.S.S.N “ Mangaleswari memorial Ever Rolling Trophy, Inter High school Basket Ball Tournament Placed “Winner” represented for St.mary’s Hr.sec.school, held at Virudhunar
T.S.M. Manickam Nadar – Janaki Ammal Higher secondary school grounds Madurai during the year 1998-1999.
12. District level Republic Day Sports and Games, Placed “Winner” for the Basketball tournament, Represented for St Mary’s higher secondary school, during the year 1997 – 1998.
13. Division level Republic Day Sports and Games, Placed “Winner” for the Basketball tournament, Represented for St Mary’s higher secondary school, during the year 1997 – 1998.
14. Certificate of Merit, Department of Physical Education St Mary’s higher secondary school,Placed “Second” for the event of Hop,step & Jump, During the year 1998.
15. Spots Development Authority of Tamilnadu, Madurai Unit Participation Certificate for District Level summer Coaching camp, represented for St Mary’s higher secondary school,held at Dr.M.G.R Stadium, Madurai from 17.4.1998 – 6.5.1998.
16. 40th State level Republic Day Sports and Games, Participation certificate for the Basketball tournament, Represented for St Mary’s higher secondary school, during the year 1997- 1998.
17. Certificate of Merit Kalvithanthai Thiru.A.K.Ramamoorthy manivizha Ever Rolling Basketball Tournament For school boys and girls “ winner ” represented for St.mary’s Higher secondary school, held at sourasthtra Higher secondary school grounds Madurai during the year 1997-1998.
18. K.S.S.N “ Mangaleswari memorial Ever Rolling Trophy, Inter High school Basket Ball Tournament Placed “First” represented for St.mary’s Hr.sec.school, held at Virudhunar
T.S.M. Manickam Nadar – Janaki Ammal Higher secondary school grounds Madurai during the year 1997-1998.
19. Souvenir Certificate, Tamilnadu Basketball Association, Inter District Championship Represented for Madurai District Basketball Team for the Category of Mini Boys during the year 1996.



Dance Certificates

1. In Recognition and as a testimonial to outstanding Performance in Dance world Day 2013, Dance award, Dancing star, mega dance show held at Lakshmi Sundaram Hall on June 2nd 2013.
2. In Recognition and as a testimonial to outstanding Performance in Dance world Day 2012, Dance award, Dancing star, mega dance show held at Raja Muthaiya Mandram on June 2nd 2012.

Appreciation Certificate

1. Certificate of Honour with hearty Congratulations and sincere appreciation for Voluntary blood donation in service to suffering patients, rendered a splendid social service of High order, Donated on 05.01.2014.

Extracurricular Skills

- Represented school, college Level **Basketball tournaments** and won various prizes and certificates.
- Completed PG diploma course in scientific yoga, holistic health and regular **hatha yogapractitioner**. I am able to teach any kind of audience for the importance of yoga.
- Though I am a **Fitness Freak** I am able to teach Fitness training to the students.
- Worked as a Production manager for the **short Film “ Ini oru Vithi seivom”** during my tenure at Sethu institute of Technology which is uploaded SIT official YouTube channel.
- During my school days my scoring points “10” (Team score 32 -21) with my name were published in the newspaper on July 4th 1997 for the State level VMJ school tournament Final match, Place winner, Represented for Stmarys Higher secondary school.
- More than **27 years of Basketball Playing experience** will helpful to train the students in the International level.
- **12 years of Yoga Practicing Experience** will helpful to the students to teach yoga for maintaining stress free life.
- **4 years of my dance practice experience** will helpful to organize some cultural events inside the college.
- Part time learner of **Gymnastics, swimming** etc.,
- I am able to **reach the audience in social media** irrespective of any content given by the college.
- I am able to **maintain Facebook pages, Instagram and YouTube**.
- **Active Youtuber** and regularly posting videos in social media.
- **Video Editing skills**.