

# E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

Accredited by NBA Tier-I (B.E-CSE, ECE, B.Tech-IT)

Affiliated to Anna University, Chennai | Approved by AICTE, New Delhi



Accredited by NAAC with Grade 'A++'

An ISO 9001:2015 Certified Institution | Recognised by UGC 2(f) & 12(B)

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Counselling Code : **3806**

Old Nagore Road, Thethi, Nagapattinam - 611002, Tamil Nadu

NIRF Engineering Ranking top **300** in india

# NIRMAN 24

**ACADEMIC YEAR (2023-24)**

**Vol : 1, Issue : 11, July 2024**

## The Newsletter of DEPARTMENT OF CIVIL ENGINEERING

### VISION OF THE DEPARTMENT

To evolve as a Centre of excellence by imparting quality technical education and promote research to meet the emerging challenges in the field of Civil Engineering.

### Mission:

- ✓ M1: Provide quality education through innovative teaching and learning practices
- ✓ M2: Encourage faculty and students to pursue higher education and carry out socially relevant innovative research thereby establishing centers of excellence in emerging areas of research
- ✓ M3: Offer consultancy services using state of the art facilities fulfilling the needs of the industry and society.
- ✓ M4: Enable our students and faculty to play leadership roles in a sustainable manner by adopting professional ethics, entrepreneurship activities, interpersonal skills and lifelong learning attitude.

## VISION AND MISSION STATEMENTS

COLLEGE VISION	COLLEGE MISSION	DEPARTMENT VISION	DEPARTMENT MISSION
<p>Envision to transform our institution into a “Global Center of Academic Excellence”</p>	<ul style="list-style-type: none"> <li>➤ To provide world class education to the students and to bring out their inherent talents</li> <li>➤ To establish state-of-the-art facilities and resources required to achieve excellence IN teaching - learning and supplementary process</li> <li>➤ To recruit competent faculty and staff and to provide opportunity to upgrade their knowledge and skills</li> <li>➤ To have regular interaction with the industries in the area of R &amp; D and offer consultancy training and testing services</li> <li>➤ To establish centers of excellence in the emerging areas of research</li> <li>➤ To offer continuing education and non-formal vocational education program that beneficial to the society</li> </ul>	<p>To evolve a centre of excellence by imparting quality technical education and promote research to meet the emerging challenges in the field of civil Engineering.</p>	<p><b>M1:</b> Provide quality education through innovative teaching and learning practices.</p> <p><b>M2:</b> Encourage faculty and students to pursue higher education and carry out socially relevant innovative research thereby establishing centre of excellence in emerging areas of research.</p> <p><b>M3:</b> Offer consultancy services using state of the art facilities fulfilling the needs of the industry and society.</p> <p><b>M4:</b> Enable of students and faculty to play leadership roles in a sustainable manner by adopting of professional ethics, entrepreneurship activities, interpersonal skills and lifelong learning attitude.</p>

### Programme Educational Objectives (PEOs)

After successful completion of the programme, students will be able to

**PEO1:** Become as a successful Civil Engineer to meet the demand driven needs in the field of Civil Engineering and related profession or pursue higher study and research or become an entrepreneur.

**PEO2:** Develop core competence by analyzing ad design of Civil engineering systems with social awareness and responsibilities.

**PEO3:** Build professionalism, ethical approach, communication skills, team work in their profession and adapt to modern trends by engaging in lifelong learning.

## Program Outcomes (PO)

After successful completion of the programme, Graduates will be able to

<b>PO1</b>	Application knowledge of mathematics, science, engineering fundamentals
<b>PO2</b>	Problem Analysis.
<b>PO3</b>	Design and Development of Solutions
<b>PO4</b>	Conduct investigations by designing experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions
<b>PO5</b>	Modern Tool Usage
<b>PO6</b>	Assessing societal, health, safety, legal and cultural issues
<b>PO7</b>	Examining Environmental impact and Sustainability
<b>PO8</b>	Commitment to professional ethics.
<b>PO9</b>	Function effectively as an individual, and as a member or leader in diverse teams and in multi disciplinary settings
<b>P10</b>	Communicate effectively on complex engineering activities with the engineering community and with society at large, such as ,being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions
<b>PO11</b>	Examine Project Management and Financial aspects
<b>PO12</b>	Instil Life-long Learning

## V. Program Specific Outcomes (PSO)

Graduates will able to

1. Analyze the effects of natural calamities like Tsunami, storms, earthquakes, landslides etc. in design of stable structures.
2. Use co-friendly materials and mechanism for sustainable and life-line infrastructures.

## **FACULTY CORNER**

<b>S. No</b>	<b>Name</b>	<b>Designation</b>
1.	Dr.N.H.Agilandeswari	Assistant Professor
2.	Dr.S.Anand Kumar Varma	Professor
3.	Dr.R.Sivakumar	Professor
4.	Dr.B.Vinodhkumar	Associate Professor
5.	Mr.V.Balasubramani	Associate Professor
6.	Mr.A.Arjunan	Associate Professor
7.	Mr.G.Prakash	Assistant professor
8.	Mrs.M.SubitaDeeneshwari	Assistant professor
9.	Ms.N.Karthika	Assistant professor
10.	Mrs.K.Kamalarani	Assistant professor
11.	Mr.S.Shyam Sundar	Assistant professor
12.	Mr.E.Venkatesan	Assistant professor
13.	Mr.K.Senthamilmaran	Assistant professor
14.	Mr.V.Srinivasan	Assistant professor
15.	Mr.A.Pirakasam	Assistant professor
16.	Mr.V.C.Keerthi	Assistant professor
17.	Ms.K.Shakila	Assistant professor
18.	Dr.B.Ashwini	Assistant professor
19.	Mr.M.Pragadeesh Kumar	Assistant professor
20.	Dr.Aparna.R.Pillai	Assistant professor
21.	Mr.R.Rajmohan	Assistant Professor
22.	Mr.P.S.Sreethalababu	Assistant Professor
23.	Ms.S.Aarthika	Assistant Professor

## FACULTY ACHIEVEMENTS



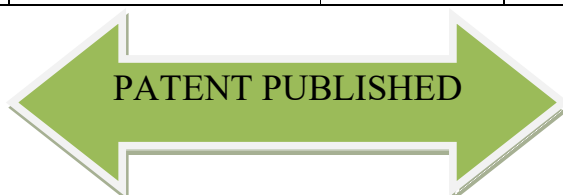
## FACULTY PUBLICATIONS

1. **Dr.Agilandeshwari..N.H**, Sustainable Concrete Made with seawater, Metakaolin and flyash, 2024Volume 5 Issue 4April 2024, Journal of Emerging Technologies and Innovative Research
2. **Dr.Ashwini.B**, presented a paper titled “Fabrication Of And Corrosion Prevention Mechanisms Of Tin Oxide (SnO<sub>2</sub>) Decorated Reduced Graphene Oxide (RGO) For Anodic Protection Of Zn Metal surfaces, 2024 Vol.38,No.2,2024
3. **Dr.Ashwini.B**, presented a paper titled “Comparison Of Mechanical Properties Of Concrete Incorporated With Multiwalled Carbon Nanotube And Partial Replacement Of Cement With Flyash ,2024 Materials Today: Proceedings ,Science Direct
4. **N.Sakthieswaran**, , “Study On Effect Of Marble Powder And Waste Foundry Sand As Fine Aggregates On The Properties Of Metakaolin-Cement Concrete., Vol 38 N°3 2023, Revista Ingeniería De Construcción Ric
5. **N.Sakthieswaran**, Study On Effect Of Marble Powder And Waste Foundry Sand As Fine Aggregates On The Properties Of Metakaolin-Cement Concrete. Vol 38 N°3 2023 Revista Ingeniería De Construcción Ric.
6. **N.Sakthieswaran**, Properties Of Nano-Alumina Concrete With Zircon Sand As Fines Under Varied Elevated Temperatures, Vol 38 N°2 2023, Revista Ingeniería De Construcción Ric.
7. **Dr.Ashwini.B** , Effect of Mechanical Properties of Concrete using Nano Silica and Partial Replacement of Fly Ash in Cementitious Material, Vol 5, no 4, pp 6944-6954 April 2024, International Journal of Research Publication and Reviews
8. **Dr.Ashwini.B**, Effect of Mechanical Properties of Concrete Using Nano Titanium Dioxide and Partial Replacement of Fly Ash in Cementitious Material, Vol 5, no 4, pp 6972-6984 April 2024, International Journal of Research Publication and Reviews



**BOOKS/CHAPTERS**

S.No	Name of the teacher	Title of the book/chapters published	Year of publication	ISBN/ISSN number of the proceeding	Name of the publisher
1.	Dr.S.Anand kumar varma	Essence of Disaster Management	2023	9786206753513	Lambert Academic Publishing
2.	Mr.Shyam sundar	Air Pollution and Control	2023	9786206755524	Lambert Academic Publishing
3.	Dr.Ashwini .B	Ethical Leadership: Balancing Profit and Social Impact	2023	9788196439774	SAN International Scientific Publications
4.	Mr.Pirakasam	Essential of Coastal zone Management	2023	978-620-008048-6	Lambert Academic Publishing
5.	A.Arjunan	Maintenance Repair & Rehabilitation of Structures	2023	978-6206143048	Lambert Academic Publishing



S.No	Title of the invention	Date of filing of Application	Application No	Date of Publication
1.	Sewer line Blockage Detection and Alert Device	03/07/2023	6294056	15/07/2023
2.	Internal Door and Shutter Locking Device with Alert System	03/07/2023	6294060	13/07/2023



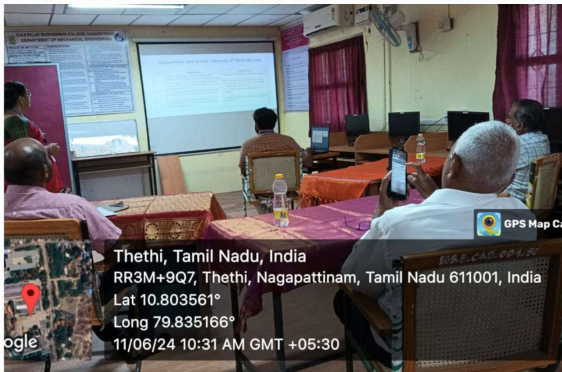
## FACULTY DEVELOPMENT & NPTEL

S. No	Faculty name	Title	No of days	Type
1.	Anand Kumar Varma S	Sustainable Engineering Concepts and Life Cycle Analysis	8 Weeks	NPTEL
2.	Shyam Sundar S	Sustainable Engineering Concepts and Life Cycle Analysis	8 Weeks	NPTEL
3.	Venkatesan E	Sustainable Transportation Systems	12 weeks	NPTEL
4.	Pirakasam A	Advance Course in Social Psychology	12 weeks	NPTEL
5.	Ashwini B	2nd Series of Advancements in Concrete Technology	6	Others
6.	Agilandeswari N.H	Structural Design and Analysis using STAAD Pro Connect	5	Others
7.	Balasubramani V	Outcome Based Education and Essential AI Tools for Teachers	7	Others
8.	Ashwini B	Green Solutions for Smart Infrastructure Development	5	Others
9.	Agilandeswari N.H	Integrating Technology and Tradition in Civil Engineering	5	Others
10.	Aarthika S	Autodesk AutoCAD	5	ICT Academy
11.	Balasubramani V	Autodesk AutoCAD	5	ICT Academy
12.	Karthika N	Autodesk AutoCAD	5	ICT Academy
13.	Pirakasam A	Autodesk AutoCAD	5	ICT Academy
14.	Rajmohan R	Autodesk AutoCAD	5	ICT Academy
15.	Venkatesan E	Autodesk AutoCAD	5	ICT Academy
16.	Ashwini B	Civil Engineering Industry Oriented Innovative Software's	5	Others
17.	Shyam Sundar S	Sustainable Waste Management	6	ATAL
18.	Rajmohan R	Research and Innovations in Structural Engineering	5	Others
19.	Ashwini B	Emerging Technologies in Civil Engineering - 2K24	6	Others
20.	Agilandeswari N.H	Outcome Based Education and Application of Generative AI in Teaching and Research	6	Others

## DEPARTMENT ACTIVITIES



Stadd.Pro Trainers lecturing about the Recent tools what we can use and the applications in design field. weekly base activity for 3<sup>rd</sup> year and Final year students



BOS Meeting was conducted with the domain faculty in the Academic year of 2023-2024  
Venue:Civil CADD Lab







## SYMPOSIUM CONDUCTED

One Day National Student Symposium on “TECHKRITI 2K24” was held on **MARCH 02 2024**. The Programme highlights are produced beautiful, physical, and highly-detailed architectural models. More 200 students are participated in this symposium from various college and most of the got awards from various events. This symposium has Technical event and Non-Technical event. Students got more ideas and fun and also integrated the civil knowledge. The programme was coordinated by **Mr.Sreethalabau**, Assistant Professor of Civil Engineering Department. On the whole this Program has benefited the all civil students and faculty members of Civil Engineering Department.



**ORGANIZING COMMITTEE**

**CONVENOR**  
**Dr.N.H.AGILANDESWARI,**  
ASSISTANT PROFESSOR & HEAD,

**STAFF CO-ORDINATOR**  
**Mr.P.S. SREETHALABAABU,**  
ASSISTANT PROFESSOR,

**STAFF CO-ORDINATOR**  
**Ms.N.KARTHIKA,**  
ASSISTANT PROFESSOR,

**TECHNICAL COMMITTEE**

**Mr.V.Balasubramani,**  
ASSISTANT PROFESSOR,

**Mr.S.Shyam Sundar.,**  
ASSISTANT PROFESSOR,

**Mr.E.Venkatesan.,**  
ASSISTANT PROFESSOR,

**Mr.A.Pirakasam.,**  
ASSISTANT PROFESSOR,

Techkriti 2k24

**TECHNICAL COMMITTEE**

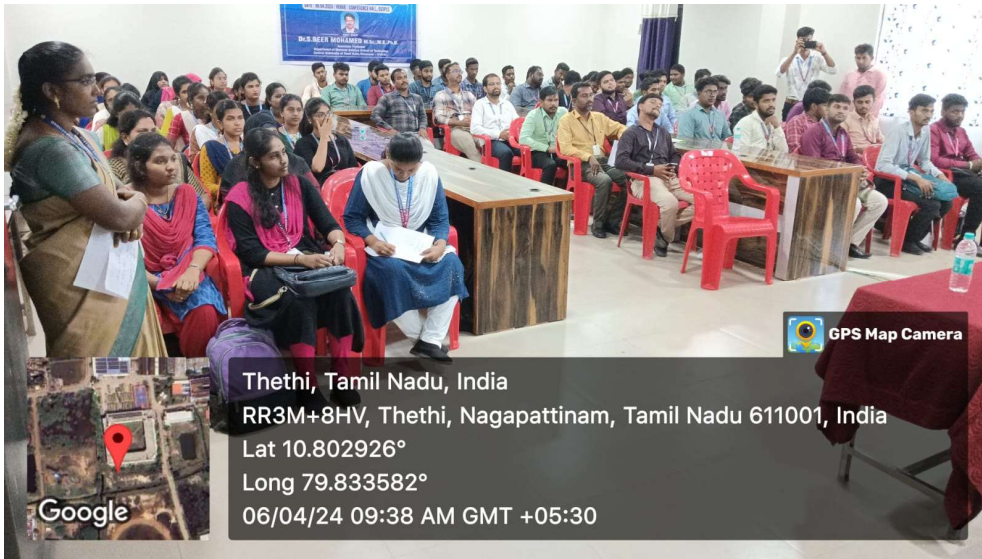
**Dr.B.Ashwini.,**  
ASSISTANT PROFESSOR,

**Mr.R.Rajmohan.,**  
ASSISTANT PROFESSOR,

**S.PRAVIN \_ RESUME**

**Ms.S.Aarthika.,**  
ASSISTANT PROFESSOR,

Techkriti 2k24



## Innovative Projects





DEPARTMENT  
ACTIVITIES &  
FESTIVAL



INDUSTRIAL VISIT AT  
KODAIKANAL

# International Conference on advances in Materials science, Mechanical,Civil and Management Studied- ICAMMCMS-2024

ICAMMCMS-2024– the word that makes us well with pride of our achievement. ICAMMCMS-2024 is the ceremony of publishing the papers in various domains. It was held on April 4, 2024 with grandeur. The conference was presided by R& D Cell, E.G.S.P.E.C who handed over the Consent letters to the department for conducting the conference in the presence of Dr.Beer Mohamed., and also present as ‘special invitees’. We are proud to inform that we have conducted the several Programmes in the department. It is indeed a golden feather in the cap of E.G.S. Pillay Engineering College.



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**INTERNATIONAL CONFERENCE**  
on  
**Advances in Materials Science, Mechanical,Civil and Management Studies (Icammcms-2024)**



 **Saturday**  
06 April 2024

 **START AT**  
09:30 AM



**CONFERENCE HALL**  
EGSPEC

**Dr.S. Beer Mohamed M.Sc.,M.E.,Ph.D.**

Associate Professor  
Department of Materials Science School of Technology  
Central University of Tamil Nadu,Thiruvarur-610101.

In the presence of  
**smt.JOTHIMANI G.S PILLAY**  
Chairman, E.G.S.Pillay Group of Institutions

<b>Shri.S.SENTHIL KUMAR</b> Secretary,EGSPGOI	<b>Shri.S.SHANKAR GANESH</b> Joint Secretary,EGSPGOI
<b>Dr.S.PARAMESVARAN</b> Advisor,EGSPGOI	And <b>TRUST MEMBERS</b>

**R&D CELL**

Dr. E. Edward Anand Director-R&D/EGSPEC	Dr. M. Irshad Ahamed R&D Convenor,EGSPEC
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**Best Wishes From**  
CEO, Academic Director, Head of Administration,  
Principals, Vice Principals, COE, HODs, Staff  
Members & Students

**STUDENT ACTIVITIES**  
**CURRICULAR ACTIVITIES**

To bring out the inherent talent and to overcome the inhibitions of our students, our department encourages students to participate in the technical meets organized by other institutions by presenting papers, participating in technical quiz and other competitions.

Sl. No	Name	Year of Participation	Achievements	Events	Title	College
1	ARISH K	28.08.2023	Participation	Workshop	Tamilnadu State Council for Science & Technology	University College Of Engineering, Thirukkuvala
2	RAMANATHAN R	28.08.2023	Participation	Workshop	Tamilnadu State Council for Science & Technology	University College Of Engineering, Thirukkuvala
3	MOHEMEDTH AJUDEEN H	28.08.2023	Participation	Workshop	Tamilnadu State Council for Science & Technology	University College Of Engineering, Thirukkuvala
4	HARSHIDHA V	28.08.2023	Participation	Workshop	Tamilnadu State Council for Science & Technology	University College Of Engineering, Thirukkuvala
5	PAVITHRA A	28.08.2023	Participation	Workshop	Tamilnadu State Council for Science & Technology	University College Of Engineering, Thirukkuvala
6	RAMKUMAR N	28.08.2023	Participation	Workshop	Tamilnadu State Council for Science & Technology	University College Of Engineering, Thirukkuvala
7	RAMPRASATH R	28.08.2023	Participation	Workshop	Tamilnadu State Council for Science & Technology	University College Of Engineering, Thirukkuvala
8	SOWRI S B	28.08.2023	Participation	Workshop	Tamilnadu State Council for Science & Technology	University College Of Engineering, Thirukkuvala
9	Praveen R	28.08.2023	Participation	Workshop	Tamilnadu State Council for Science & Technology	University College Of Engineering, Thirukkuvala
10	Kaviyarasan J	28.08.2023	Participation	Workshop	Tamilnadu State Council for Science & Technology	University College Of Engineering, Thirukkuvala

<b>11</b>	Dhanalakshmi. J	27.10.2023	Participation	Workshop	Concrete Mix Design	NIT,Karaikal
<b>12</b>	Eshayini.J	27.10.2023	Participation	Workshop	Concrete Mix Design	NIT,Karaikal
<b>13</b>	Gayathri.J	27.10.2023	Participation	Workshop	Concrete Mix Design	NIT,Karaikal

<b>14</b>	Shafiya.K	27.10.2023	Participation	Workshop	Concrete Mix Design	NIT,Karaikal
<b>15</b>	Shaik Abdullah.N	27.10.2023	Participation	Workshop	Concrete Mix Design	NIT,Karaikal
<b>16</b>	Suhail Abrar.A.S	27.10.2023	Participation	Workshop	Concrete Mix Design	NIT,Karaikal
<b>17</b>	Deepak Hariharan.S	27.10.2023	Participation	Workshop	Concrete Mix Design	NIT,Karaikal
<b>18</b>	Shaik Mohamed Riyas S	27.10.2023	Participation	Workshop	Concrete Mix Design	NIT,Karaikal
<b>19</b>	Sahik Mohamed Riyas.S	27.10.2023	Participation	Workshop	Concrete Mix Design	NIT,Karaikal
<b>20</b>	Srinivasan.V	27.10.2023	Participation	Workshop	Concrete Mix Design	NIT,Karaikal
<b>21</b>	Vimal.K	27.10.2023	Participation	Workshop	Concrete Mix Design	NIT,Karaikal
<b>22</b>	RagaPriya S	27.10.2023	Participation	Workshop	Concrete Mix Design	NIT,Karaikal
<b>23</b>	Maheshwari. M	27.10.2023	Participation	Workshop	Concrete Mix Design	NIT,Karaikal
<b>24</b>	Yuvasri M	27.10.2023	Participation	Workshop	Concrete Mix Design	NIT,Karaikal
<b>25</b>	Harini.N	27.10.2023	Participation	Workshop	Concrete Mix Design	NIT,Karaikal
<b>26</b>	Amirtha	27.10.2023	Participation	Workshop	Concrete Mix Design	NIT,Karaikal
<b>27</b>	Lokesh R	27.10.2023	Participation	Workshop	Concrete Mix Design	NIT,Karaikal
<b>28</b>	Mohamed Juwathu.R	27.10.2023	Participation	Workshop	Concrete Mix Design	NIT,Karaikal
<b>29</b>	Abilash.M	27.10.2023	Participation	Workshop	Concrete Mix Design	NIT,Karaikal

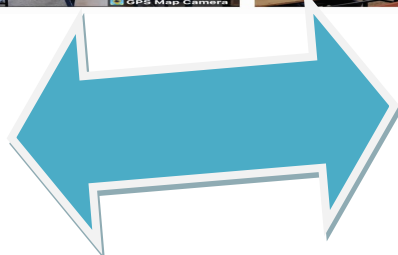
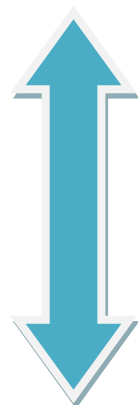
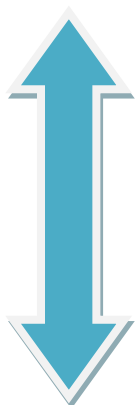
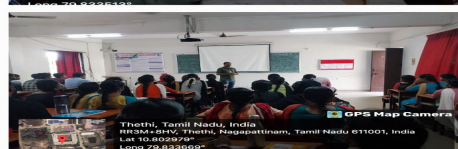


### STUDENT ACHIEVEMENT:

#### Activities for the Academic Year 2023 – 2024

S. No	Name	Guide Name	Year of Publication	Title	Journal Name
1	Arthi.K	Dr.Ashwini.B	24.04.2024 Volume 5 Issue 4 April 2024	Effect of Mechanical Properties of Concrete Using Nano Titanium Dioxide and Partial Replacement of Fly Ash in Cementitious Material	International Journal of Research Publication and Reviews
2	Ramprasath.R		24.04.2024 Volume 5 Issue 4 April 2024	Effect of Mechanical Properties of Concrete using Nano Silica and Partial Replacement of Fly Ash in Cementitious Material	International Journal of Research Publication and Reviews
3	S.Gokulanathan	Dr.Agilandeshwari..N.H	2024 Volume 5 Issue 4 April 2024	Sustainable Concrete Made with seawater, Metakaolin and flyash	Journal of Emerging Technologies and Innovative Research
4	V.Harshidha		2024 Volume 5 Issue 4 April 2024	Sustainable Concrete Made with seawater, Metakaolin and flyash	Journal of Emerging Technologies and Innovative Research
5	M.Arunkumar		2024 Volume 5 Issue 4 April 2024	Sustainable Concrete Made with seawater, Metakaolin and flyash	Journal of Emerging Technologies and Innovative Research
6	A.BraveenKumar		2024 Volume 5 Issue 4 April 2024	Sustainable Concrete Made with seawater, Metakaolin and flyash	Journal of Emerging Technologies and Innovative Research





## Faculty Editorial Board



**Dr.ASHWINI.B**  
**Assistant Professor,**  
**Department of Civil Engineering,**  
**E.G.S.P.E.C**

## Student Editorial Board

- |                         |                 |
|-------------------------|-----------------|
| <b>1. K.DHATCHAYANI</b> | <b>IV YEAR</b>  |
| <b>2. K.ARISH</b>       | <b>III YEAR</b> |