

**GOVERNMENT COLLEGE OF ENGINEERING**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**TIRUNELVELI – 627 007.**

1. Name in full (in Capital Letters) : Dr. M. SASI REKHA
2. Designation : Assistant Professor
3. Date of joining the present post : 15.05.2017
4. Date of joining the institute : 15.05.2017
5. Date of Birth : 29.05.1993
- 5a. PAN Number : FSJPS5838G
- 5b. Aadhar No. : 4680 5429 4817
- 5c. Scale of pay : Level 11 (57,700 – 1,82,400)
6. Address :



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| <b>a) Permanent Address:</b><br><br>13/36, Union Office Opposite,<br>Kadaladi – 623 703<br>Ramanathapuram District | <b>b) Communication Address with Phone No./<br/>Mobile No. /E.mail ID :</b><br>No.222, NGO New Colony, Perumalpuram,<br>Tirunelveli – 627 007.<br>Contact No. 9500749914<br>Email ID: <a href="mailto:sasirekha@gcetly.ac.in">sasirekha@gcetly.ac.in</a> |
|--|--|

7. Educational Qualification (Starting from basic degree) :

| Degree | Area of Specialisation | Institute/ University | Month & Year Of passing | Class                        | % of Marks / Equivalent |
|--------|------------------------|-----------------------|-------------------------|------------------------------|-------------------------|
| B.E    | Civil Engg             | GCE, Tirunelveli      | April 2014              | First Class                  | 84.30                   |
| M.E    | Structural Engg        | ACGCET, Karaikudi     | May 2016                | First Class with Distinction | 92.50                   |
| Ph.D   | Structural Engg        | Anna University       | July 2023               |                              |                         |

8. Experience (Starting from current position):

- a) Academic:

| Period     |           | No. of years | Designation/Nature of job | Institute/organization |
|------------|-----------|--------------|---------------------------|------------------------|
| From       | To        |              |                           |                        |
| 15.05.2017 | Till Date | 6 Years      | Assistant Professor       | GCE, Tirunelveli       |

- b) Research: **NIL**

| Period |    | No of years | Designation/Nature of job | Institute/organization |
|--------|----|-------------|---------------------------|------------------------|
| From   | To |             |                           |                        |
|        |    |             |                           |                        |

c) Industrial: **NIL**

| Period |    | No. of Years | Designation / Nature of job | Institute / Organisation |
|--------|----|--------------|-----------------------------|--------------------------|
| From   | To |              |                             |                          |
|        |    |              |                             |                          |

## 9. Publications

### 9.1 Publications in journals:

| SI.No | Title   | Authors                                 | Name of the Journal   | National/International | Year/Vol. |
|-------|---|---|---|------------------------|-----------|
| 1.    | An Experimental Investigation of Concrete   | Sasi Rekha & Akshaya                    | International Journal of Emerging Technologies in Engineering Research (IJETER)     | international          | 2018/06   |
| 2.    | Study on effect of Fly Ash and Quarry Dust by partial replacing Cement and Fine Aggregate in Concrete | Sidhardhan, Sasi Rekha & Akshaya        | JASC: Journal of Applied Science and Computations                                   | National               | 2019/06   |
| 3.    | A Brief Analysis of Geopolymer concrete: A New type of Eco-friendly Construction Material for Future  | Sasi Rekha & S R Sumathy                | International Journal of Engineering Development and Research                       | international          | 2019/07   |
| 4.    | Geopolymer Concrete Incorporated with Quarry Dust as Fine Aggregate                                   | Sidhardhan, Sasi Rekha & Jegadheeswaran | International Journal of Innovative Research in Science, Engineering and Technology | international          | 2019/08   |
| 5.    | Durability Properties on Concrete with Phosphogypsum and Fly ash as a Partial Replacement for Cement  | Sidhardhan, Sasi Rekha & Nagarjun       | International Journal of Innovative Research in Science, Engineering and Technology | international          | 2019/08   |

|     |  |  |  |                     |   |
|-----|--|--|--|---------------------|---|
| 6.  | Durability properties of copper slag and fly ash based concrete for asustainable environment   | Sasi Rekha, Jagadheeswari, Arunprasath & Sumathy   | Materials Today: Proceedings                                       | International       | <a href="https://doi.org/10.1016/j.matpr.2020.08.490">https://doi.org/10.1016/j.matpr.2020.08.490</a> (2020) Volume 37, Part 2, 2021, Pages 2535-2541 |
| 7.  | A study on cement-free 3echnology concrete incorporated with industrial waste cured at open environment for different molarities of sodium hydroxide | Sasi Rekha M & Sumathy S R   | Global Nest Journal  | International (SCI) | Vol 23, No 2, pp 265-274<br><a href="https://doi.org/10.30955/gnj.003329">https://doi.org/10.30955/gnj.003329</a>                                     |
| 8.  | Cyclically Loaded Copper Slag Admixed Reinforced Concrete Beams with Cement Partially Replaced with Fly Ash  | <b>Sumathy Raju, Jagadheeswar Rathinam, Brindha Dharmar, Sasi Rekha, Siva Avudaiappan, Mugahed Amran, Kseniia Iurevna Usanova, Roman Fediuk, Pablo Guindos and Ramkumar Velayutham Ramamoorthy</b> | Materials – MDPI   | International       | <a href="https://doi.org/10.3390/ma15093101">https://doi.org/10.3390/ma15093101</a><br>Materials 2022, 15, 3101. Pg. 1-24                             |
| 9.  | Engineering Properties of self-cured Geopolymer concrete blended with Supplementary Cementitious materials   | <b>Sasi Rekha M and Sumathy S R</b>  | Materials Today: Proceedings, Vol. 69, Part 3, 2022 pp. 879-887    | International       | <a href="https://doi.org/10.1016/j.matpr.2022.07.357">https://doi.org/10.1016/j.matpr.2022.07.357</a>   |
| 10. | Durability Study on Ambient Cured Geopolymer Concrete Made With Various Molarities of NaOH,  | Sasi Rekha M and Sumathy S R   | Gradevinar-journal for Civil Engineer, Vol. 75, No. 8, pp. 753-764 | International       |   |
| 11  | A review on performance of profiled steel sheet on composite deck slab   | Jegadeesh A & Sasi Rekha M   | Quaderns Journal Vol. 11, Part 7, 2023 pp. 422-435                 | National            |   |
| 12  | A review on flexural behavior of shear connector modified composite beam   | Sakthi Mani V & Sasi Rekha M   | Quaderns Journal Vol. 11, Part 7, 2023 pp. 392-410                 | National            |   |

## 9.2 Publications in conferences:

| S.NO | Title  | Name of the conference   |   | National/ International | Year/Vol. |
|------|--|--|---|-------------------------|-----------|
| 1.   | Study on Effect of fly ash and quarry dust by partial replacement for cement and fine aggregate in concrete                          | International conference on Breakthrough in Engineering, Science & Technology – 2019 | Dr. Kalam Institute of Engineering Research, East Tambaram, Chennai | International           | 2019      |
| 2.   | Flexural behavior of RC beam made with glass waste products as partial replacement of fine aggregate (11.03.2022-12.03.2022)         | International conference on Smart Technologies and Applications-2022 (ICSTA 2022)    | Ramco Institute of Technology, Rajapalayam, Virudhunagar District   | International           | 2022      |
| 3.   | Engineering Properties of self-cured Geopolymer concrete blended with Supplementary Cementitious materials (28.04.2022 – 29.04.2022) | International conference on Newer Engineering Concepts and technology 2022           | K.Ramakrishnan College of Technology, Samayapuram, Trichy           | International           | 2022      |

10 a) Seminars / Schools / Conferences/ Workshops Organised:

| S.No | Title  | Co-ordinators | Organised By     | Month & Year |
|------|--|---------------|------------------|--------------|
| 1.   | Webinar on “Biotechnology Applications in Environmental Engineering’ | M.SASI REKHA  | GCE, Tirunelveli | July & 2020  |

b) Seminars / Schools / Conferences / Workshops Attended:

| S.No | Name of the Course  | Conducted By  | Period                           |
|------|---|---|----------------------------------|
| 1.   | Outcome Based Education towards NBA   | Govt. College of Engineering, Tirunelveli                 | 10.07.2017                       |
| 2.   | Advanced Teaching Methodologies   | Govt. College of Engineering, Tirunelveli                 | 06.01.2018                       |
| 3.   | Workshop on “Nanotechnology and Nanomaterials: Future Medicine in Treatment of Life Threatening Diseases” | Govt. College of Engineering, Tirunelveli                 | 24.01.2018 & 25.01.2018          |
| 4.   | Two weeks FDP on Recent Trends & Research Opportunities in Civil Engineering                              | Alagappa Chettiar Government College of Engg & Technology | 19.11.2018 – 30.11.2018          |
| 5.   | Problem Solving and Python Programming  | Govt. College of Engineering, Tirunelveli                 | 11.08.2017 & 16.08.17 – 18.08.17 |
| 6.   | Design of Reinforced Concrete Elements  | Anna University Regional Campus, Tirunelveli              | 18.06.2018 – 24.06.2018          |
| 7.   | One week FDP on Principles of corrosion & corrosion prevention in engineering Industries                  | Alagappa Chettiar Government College of Engg & Technology | 27.11.2017- 03.12.2017           |
| 8.   | Design, Develop and Deliver online courses through MOODLE platform  | Coimbatore Institute of Technology, Coimbatore            | 23.04.2020 to 25.04.2020         |
| 9.   | Fluid Mechanics   | Anna University Regional                                  | 24.06.2019 –                     |

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|-----|--|---|---|
|     |  | Campus, Trichy  | 29.06.2019                              |
| 10  | One week FDP on "Advanced Technology in Civil Engineering"   | Civil Dept, Ghousia College of Engineering  | 15.06.2020 – 19.06.2020                 |
| 11  | Short Term Training Programme through ICT Mode on Choice Based Credit System (CBCS) and Student's Performance Evaluation   | NITTTR, Kolkata   | 01/06/2020 to 05/06/2020                |
| 12  | Online AICTE Recognized Short Term Course on Industrial Training Programme on Energy Harvesting, Materials Characterization Techniques and Applications  | Applied Science Department NITTTR, Chandigarh                                     | 13/07/2020 to 31/07/2020                |
| 13  | Online AICTE Recognized Faculty Development Programme on Academic Leadership Enhancement in Technical Institutions   | Electronics and Communication Engineering Department NITTTR, Chandigarh           | 04-05-2020 to 08-05-2020                |
| 14  | Online AICTE Recognized Faculty Development Programme on Research Oriented Project Work from (One Week) Organized by   | Curriculum development Centre Department NITTTR, Chandigarh                       | 11-05-2020 to 15-05-2020                |
| 15  | One week Online FDP on Swotting of Digital Tools for Effective Teaching  | Sona College of Engineering & Technology, Salem                                   | 22.06.2020– 26.06.2020                  |
| 16  | AICTE Training And Learning (ATAL) Academy Online FDP on "Environmental Geotechnology"   | Mangalore Institute of Technology & Engineering.                                  | 25.01.2021 – 29.01.2021                 |
| 17. | "Environment Friendly and Sustainable Building Materials – An Overview"  | Dr. V. G. Kondekar, Head, Govt. Polytechnic, Sakoli, Nagpur.                      | 23.05.2020                              |
| 18. | "Forensic Structural Engineering"  | University of Peradeniya, VP, Chamber of Construction Industry, Sri Lanka         | 03.05.2020                              |
| 19  | Concrete Technology (12 weeks)   | NPTEL   | July-October 2019                       |
| 20  | Geotechnical Engineering Laboratory (4 weeks)  | NPTEL   | July-August 2019                        |
| 21  | Data Science: R Basics   | HarvardX, an online learning initiative of Harvard University.                    | 20.06.2020                              |
| 22  | Technology Innovation for Sustainable Development  | EPFLX, an online learning initiative of Ecole Polytechnique Federale de Lausanne. | 13.07.2020                              |
| 23. | AICTE – NITTT: Mandatory Training Modules for Inductee Teacher<br>1. Orientation towards Technical Education & Curriculum Aspects.<br>2. Professional Ethics & Sustainability<br>3. Communication Skills, Modes and Knowledge Dissemination<br>4. Instructional Planning and Delivery<br>5. Technology Enabled Learning and Life-long Self-learning<br>6. Student Assessment and Evaluation.<br>7. Creative Problem Solving, Innovation and Meaningful R&D<br>8. Institutional Management & Administrative Procedures. | NITTR, Bhopal<br>NITTR, Chandigarh<br>NITTR, Chennai<br>NITTR, Kolkata            | February 2021                           |
| 24  | Digital Pedagogy and tools for effective teaching and learning   | NITTR, Kolkata  | 23.05.2022 – 27.05.2022 (one week STTP) |
| 25  | One Week Capacity Building Program   | GCE, Tirunelveli  | 01.09.2022 to 06.09.2022 (One Week)     |
| 26. | SAR Preparation for NBA  | GCE, Tirunelveli  | 12.06.2023                              |

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|-----|--|---------------|--------------------------|
| 27. | Nan Mudhalvan Training of Trainers program for Building Information Modeling | L & T Edutech | 19.09.2022 to 22.09.2022 |
| 28  | Sustainable Concepts and Life Cycle Analysis (8 Weeks)                       | One Week      | July – September 2023    |

13. a.Special / Invited Lectures Delivered: NIL

| S.No | Topic                                    | Area           | Delivered at                      | Year / Date | Remarks |
|------|--|----------------|-----------------------------------|-------------|---------|
| 1    | Sub surface investigations by field test | Soil Mechanics | Civil Engg Dept, GCE, Tirunelveli | March,2019  |         |

b. Resource persons for various events:

| S.No | Organization | Purpose   | Acted as | Date            |
|------|--------------|---|----------|-----------------|
| 1    | GCE, Trichy  | One session at FDP organized by GCT, COimbatore | Speaker  | 15.12.2023 (AN) |

14. Membership in professional societies:

| Name of the Society                        | Details of Membership | Nature of Tech. activities |
|--|-----------------------|----------------------------|
| The Indian Society For Technical Education | LM 126064             | Technical Programme        |

15. Prizes, Medals and honors received, if any:

| Details of award             | Awarded for the work  | Date       |
|------------------------------|---|------------|
| NPTEL Course Translation     | Translation of files of the course "Natural Hazards – Part 1 (105104183) offered by IIT, Kanpur in Tamil Language | 27.01.2021 |
| SOM Book                     | Dr. RK Bansal Tamil Book Reviewer   |            |
| AICTE Book Tamil Translation | Advanced Surveying (Theory and Practice)  | July 2023  |

Contribution to the College:

| Date of Joining | Years of Experience | Responsibilities held               | Nature of activities for the betterment of College                                     |
|-----------------|---------------------|-------------------------------------|--|
| 29.06.2017      | 2 Years             | Physical Director for Girl students | Monitored Students Sports activities and attended Zonal level sports meeting for Girls |
| 15.05.2017      | 4 Y                 | Deputy Warden                       | Taken care of First year girl students   |
| 27.06.2017      | 4 Y 4 M             | Disciplinary Committee Member       | Monitoring Students Discipline   |

Contribution to the Department:

| Date of Joining | Years of Experience | Responsibilities held | Nature of activities for the betterment of College |
|-----------------|---------------------|-----------------------|--|
|                 | 2 Yrs               | Purchase Co-          | Coordinating purchase related works                |

|  |              |   |  |
|--|--------------|---|--|
|  |              | <b>ordinator</b>  |  |
|  | <b>4 Yrs</b> | <b>Part-time Faculty advisor</b>                          | <b>Faculty Advisor for all semester Part-time students</b>                                     |
|  | <b>4 Yrs</b> | <b>Staff attendance &amp; Leave Registers maintenance</b> | <b>Maintaining attendance and leave registers for teaching, non-teaching and ad-hoc staffs</b> |
|  | <b>4Yrs</b>  | <b>Testing &amp; Consultancy related works</b>            | <b>Worked regarding soil testing &amp; Consutancy</b>  |

16. a).Faculty travel for official purpose:

| <b>S.No</b> | <b>Purpose</b>  | <b>Period</b>           | <b>Place</b>              |
|-------------|---|-------------------------|---------------------------|
| 1.          | Anna University Zone 18 Zonal Sports Committee Meeting              | 14.07.2017              | Tuticorin                 |
| 2.          | Industrial visit with second year students                          | 22.09.2017 & 23.09.2017 | Coimbatore & Mettupalayam |
| 3.          | One-day Technical visit to Tuticorin Bus stand Pile Foundation work | 27.08.2019              | Tuticorin                 |
| 4.          | One day visit to bridge construction by post Tensioning methods     |                         | Tirunelveli               |
| 5.          | Visit to Govt. Medical college, Tirunelveli                         |                         | Tirunelveli               |

16.b). Industrial Visits

| <b>SI.No</b> | <b>Date</b> | <b>Name of the Industry</b>             | <b>Remarks</b> |
|--------------|-------------|---|----------------|
| 1.           | 26.08.2017  | Kudankulam Nuclear Power Plant          | Local visit    |
| 2.           | 16.07.2019  | Railway Sleeper Factoty, Gangaikonndan  | Local Visit    |
| 3.           |             | Water Treatment plant at Manjaneerkayal | Local visit    |



Signature