



**DEPARTMENT OF MECHANICAL ENGINEERING  
GOVT. ENGINEERING COLLEGE THRISSUR**

**FACULTY PROFILE**

Name : Dr. Soman A.R  
PEN / Employee ID : 595853  
Age & Date of Birth : 50, 15/10/1969  
Designation : Associate professor  
Highest qualification and University : PhD, Anna University, TN  
Area of Study/ specialization : (i) B. Tech–Mechanical Engineering  
(ii) M. Tech–Industrial Safety Engineering(ISE)  
(iii) PhD – Mechanical Engineering  
Religion/Caste : Hindu, Velan  
Present Residential Address : Quarter No. B-2  
GEC Staff Quarters-680 009  
Thrissur 680 009  
.Permanent Home Address :Ambalathum Para House  
Asamannoor P.O  
Ernakulam – 683 549  
Phone Number : 7871314836  
E mail ID : somangec@gmail.com



**Summary of Personal Data**

|   |                                    |  |                                   |
|---|------------------------------------|--|-----------------------------------|
| Date of Joining in Govt. Service          | 20/06/2002 FN                      | Date of joining in Present Service & Designation | 08/03/2019 FN Associate Professor |
| PSC Advice Number                         | RIC(3)11072/99/GW dated 31/12/2001 | Date of Joining at GEC Thrissur                  | 20/06/2002 FN                     |
| Previous Teaching Experience (years)      | Nil                                | Total Teaching Experience in years               | 17 years                          |
| Industrial Experience (years)             | 6 Y 6 Months                       | Date of promotion to the present post            | 31/07/2018                        |
| Present Scale of Pay & Academic Grade Pay | 37400-67000 AGP 9000               | Basic Pay & Gross Salary (as on 01/07/2019)      | Rs.44820, Rs136424                |
| Gazetted Entitlement Number               | 3000237                            | Employee ID (DTE)                                | 3376                              |
| Aadhar Number                             | 4110 9511 7860                     | GPF A/C No                                       | EDN 281291                        |
| Bank A/C No (optional)                    | SBI<br>57042253586                 | Blood Group                                      | B+                                |
| No. of Publications in SCI journals       | 2                                  | Total No. of Journal Publications                | 7                                 |
| No. of National Conference Publications   | Nil                                | No. of International Conference publications     | 6                                 |

## Details of Salary, Qualification and Experience

Name of the Staff : Dr. Soman A.R Age : 50Years

Date of Joining in Service : 20/06/2002 FN Date of joining in this Institution : 20/06/2002 FN

Entry Designation : Lecturer Department :Mechanical Engineering

### Current Designation and Pay details (as on 01-07-2019)

| Current Designation | Date of promotion | Basic Pay | Academic Grade Pay | Dearness Allowance | Other Allowances | Total Salary |
|---------------------|-------------------|-----------|--------------------|--------------------|------------------|--------------|
| Associate Professor | 31/07/2018        | 44820     | 9000               | 79654              | 450 CCA          | 133924       |

### Qualifications (from highest to lowest)

| Qualification | Name of the Educational Institution/ University | Class/ Division | Year |
|---------------|---|-----------------|------|
| Ph.D.         | Anna University, Chennai, TN                    |                 | 2016 |
| M. Tech.      | NIT Tiruchirappalli, TN                         | First class     | 2007 |
| B. Tech.      | MG University, Kerala                           | First class     | 1992 |

### Service Particulars of the Faculty

| Sl No | Designation                | Date of posting / promotion with Order details                 | Institution at which posted / promoted | Total number of years worked in the post |
|-------|----------------------------|--|--|--|
| 1     | Lecturer                   | Order No. EA 4/ 16733/ 2001 dated 20/02/2002<br>WEF 20/06/2002 | GEC Thrissur                           | 3Yrs                                     |
| 2     | Sr. Lecturer               | Order No. EA3/ 18121-06/08 dated 20/05/2009<br>WEF 20/06/2005  | GEC Thrissur                           | 5Yrs                                     |
| 3     | Lecturer (Selection Grade) | Order No. E1/1770/ 2010 dated 23/09/2010<br>WEF 20/06/2010     | GEC Thrissur                           | 3Yrs                                     |
| 4     | Associate Professor (NC)   | No. GE 14/B/ S218/EC dated 24/08/2017.<br>WEF 20/06/2013       | GEC Thrissur                           | 6 Yrs 2 Months                           |
| 5     | Associate Professor        | G.O.(Ms) No.65/2019/HEDN dated 07/03/2019<br>WEF 31/07/2018    | GEC Thrissur                           | 1 Y 1 M                                  |

|   |   |  |  |  |
|---|---|--|--|--|
| 6 | Professor(NC)<br>Due from<br>03/11/2016 |  |  |  |
|   |   |  |  |  |

### Previous Experience (Industrial / Teaching / Other)

| Post Held                      | Name of Industry/ Educational Institution / Establishment                      | Total Service (years) |
|--------------------------------|--|-----------------------|
| Executive Trainee (Mechanical) | The Travancore Cochin Chemicals Ltd, Kochi, Kerala<br>(A Kerala Govt. Company) | 1 Y 6 Months          |
| Senior Engineer (Mechanical)   | The Travancore Cochin Chemicals Ltd, Kochi, Kerala<br>(A Kerala Govt. Company) | 6 Yrs 5 Months        |

### Current Duties Assigned

| Sl. No. | Description of Duty                         | Department / Institute Level | Remarks    |
|---------|---|------------------------------|------------|
| 1       | Hostel Warden                               | Institute level duty         | W.E.F 2018 |
| 2       | Faculty in charge - CAD Lab                 | Department level duty        | W.E.F 2017 |
| 3       | Appellate Authority in Hostel (RI Act 2005) | Institute level duty         | W.E.F 2019 |
|         |   |                              |            |

### Details of STTPs / Refresher Courses Attended(2014 onwards)

| Sl No. | Name of the course   | Name of Organizer / Sponsor  | Duration   |            |
|--------|--|--|------------|------------|
|        |  |  | From       | To         |
| 1      | First Colloquium cum Pragmatical Treatise on Engineering and Technology of Publishing Papers in International Journals | IIIE and PSG College of Technology Coimbatore (TN)                       | 23/01/2014 | 25/01/2014 |
| 2      | Expert Program in Mechanical Design and Simulation - CFD   | Technology Training and Research Centre Kochi – Kerala<br>TEQIP Phase II | 05/01/2015 | 17/01/2015 |
| 3      | Safety Requirements for Engineering Institutions   | CUSAT – Kochi, Kerala<br>TEQIP Phase II                                  | 21/01/2015 | 23/01/2015 |
| 4      | Open Source Tools for Computing  | GEC Thrissur-Kerala<br>FSDTC   | 11/07/2016 | 15/07/2016 |
| 5      | Matlab for Engineers and Researchers   | GEC Thrissr-Kerala<br>TEQIP Phase II                                     | 28/10/2016 | 30/10/2016 |

## Details of STTPs / Refresher Courses / Workshops etc. Organized

| Sl. No. | Name of the Programme  | Name of Sponsor | Duration of the Programme                       |
|---------|--|-----------------|---|
| 1       | New Challenges in Occupational Health, Safety and Environment                              | DTE, Kerala     | 23 <sup>rd</sup> -27 <sup>th</sup> October 2017 |
| 2       | Research Perspectives in Emerging Areas of Industrial Safety and Environmental Engineering | DTE, Kerala     | 3 <sup>rd</sup> -7 <sup>th</sup> December 2018  |
| 3       | Process Safety and Risk Management (PSRM)  | DTE, Kerala     |   |

## Details of Research Activities

### 1. Details of Ph. D. Guidance

| Sl. No. | Name of the Scholar           | Full time / Part- Time | University | Date of Joining | Status  |
|---------|-------------------------------|------------------------|------------|-----------------|---------|
| 1       | Mr. Ejjas Ahammed             | FT                     | KTU        | 02/07/2018      | Ongoing |
| 2       | Mr. Rejoy PG                  | FT                     | KTU        | 14/03/2019      | Ongoing |
| 3       | Mr. Tigy Varughese (Co-Guide) | FT                     | KTU        | 15/12/2016      | Ongoing |

### 2. Details of Funded Project / Consultancy

| Sl. No. | Name of the Funding Agency / Organization | Description of the Project with Sanction Order Details | Amount (Rs) and Date of Incorporation | Status of the Project |
|---------|---|--|---------------------------------------|-----------------------|
|         | NIL                                       |  |                                       |                       |
|         |   |  |                                       |                       |

### 3. Details of M. Tech Project Guidance

| Sl. No. | Name of the PG Student              | PG Course / Batch  | Title of the Project   |
|---------|-------------------------------------|--------------------|--|
| 1       | Nandhu V Namboothiri<br>TCR15MEPE15 | Mechanical<br>2017 | Consequence Assessment of Ammonia Release Using CFD-PROBIT approach and development of mitigation strategy |
| 2       | Sreerag A<br>TCR17MEPE18            | Mechanical<br>2019 | Ongoing  |
|         |                                     |                    |  |

#### 4. Details of DC Member & Ph. D. / PG Thesis Evaluation

| Sl. No. | Name of the Scholar / PG Student     | Title of the Thesis / Area of Research                       | University / Institution | Status  |
|---------|--------------------------------------|--|--------------------------|---------|
| 1       | Goutham D<br>Reg. No.<br>TJE15MEMS01 | Analyzing the strength and weakness of safety in an Industry | KTU                      | Awarded |
|         |                                      |  |                          |         |
|         |                                      |  |                          |         |

#### 5. Publications in National / International Conferences

| Sl. No. | Name of the conference  | Paper Title  | Authors                                      |
|---------|---|--|--|
| 1       | First International conference in South Asia on Global Manufacturing Systems & Management (ICGMSM Conference 2011) held at CIT Coimbatore, India, 1-3 August 2011   | Consequence Analysis for accidental Release of hazardous Chemicals in the area surrounding a storage Tank      | <b>Soman A.R &amp; Sundararaj G</b>          |
| 2       | IIIE, 54 <sup>th</sup> national Convention and International Conference on Paradigm for Global Challenges and Opportunities: Vision-2015 held at NIMHANS Convention centre, Bangalore, India, 30-31 October 2012. | Consequence Assessment of Vapour Cloud Explosion   | <b>Soman A.R &amp; Sundararaj G</b>          |
| 3       | International Conference on Energy and Environment (ICEE 2013) held at Rajiv Gandhi Institute of Technology, Kottayam, India, 12-14 December 2012   | Development of Mitigation Model for Chlorine Storage Facility  | <b>Soman A.R, Sundararaj G &amp; Mohan M</b> |
| 4       | International conference on Innovations in Design and Manufacturing (iDeM14) held at Mar Athanasius College of Engineering, Kerala, India, 10-11, January 2014  | Failure Probability of Toxic Storage facility- A Fuzzy based approach  | <b>Soman A.R &amp; Sundararaj G</b>          |
| 5       | International Mechanical Engineering Congress- 2014 (IMEC2014) held at NIT Tiruchirappalli, TN, India, 13-15 June, 2014   | An automated mitigation model for chlorine release by proposing modifications in the existing plant facilities | <b>Soman A.R &amp; Sundararaj G</b>          |
| 6       | International Conference on Safety and Fire Engineering (SAFE 17) held at CUSAT, Kerala, India, 27-28 April, 2017   | Consequence Assessment of Amonia release using Cfd-Probit approach   | Nandu V Namboothiri & <b>Soman A.R</b>       |
|         |   |  |  |

## 6. Publications in National / International Journals

| Sl No | Authors   | Title of the Paper   | Name of Journal / Volume / Issue / Page Number / Year   | No. of Citations (Google Scholar) |
|-------|---|--|---|-----------------------------------|
| 1     | <b>A.R Soman,</b><br>G Sundararaj<br>And S.R<br>Devadasan | Consequence Assessment of Chlorine Release   | Process safety Progress (Wiley)<br>Vol.31/No.2/pp.145-147/June 2012<br>Doi:<br>10.1002/prs.11479  | 3                                 |
| 2     | <b>A.R Soman,</b><br>G Sundararaj                         | Cosequence Assessment of Vapour Cloud Explosion Involving Hydrogen Release                                     | International Journal of Emerging Technology and Advanced Engineering, Vol:2<br>pp. 291-297,2012  | 11                                |
| 3     | <b>A.R Soman,</b><br>G Sundararaj<br>& M Mohan            | Development of a mitigation model for storage facility to reduce the consequence of toxic release              | International Journal of Innovative Research in Science, Engineering and Technology<br>Sp.Issue 1, Vol. 2, pp. 494-502, December 2013                         |                                   |
| 4     | <b>A.R Soman,</b><br>G Sundararaj<br>& M Mohan            | Estimation of Failure Probability of Chlorine Storage Facility   | International Journal of Applied Environmental science<br>Number 21, Vol. 8,<br>pp. 2679 – 2695,<br>2013  |                                   |
| 5     | <b>A.R Soman,</b><br>G Sundararaj                         | An Automated Mitigation Model for Chlorine Release by Proposing Modifications in the Existing Plant Facilities | Applied Mechanics and Materials<br>Vol. 592-594<br><i>doi:10.4028/www.scientific.net/AMM.592-594.2470/</i> pp. 2470-2474,2014                                 |                                   |
| 6     | <b>A.R Soman,</b><br>G Sundararaj                         | Accidental Release of Chlorine from a Storage Facility and an On-Site Emergency Mock Drill: A Case Study       | The Scientific Word Journal<br>Vol.2015<br><a href="http://dx.doi.org/10.1155/2015/483216">http://dx.doi.org/10.1155/2015/483216</a><br>pp. 1-11,<br>May 2015 | 5                                 |
| 7     | Nandu V N,<br><b>A.R Soman</b>                            | Consequence Assessment of Anhydrous Ammonia Release Using CFD-Probit analysis                                  | Process Safety Progress (Wiley)<br>Doi:<br>10.1002/prs. 11970,<br>2018  |                                   |
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## Other Services / Achievements

### 1. Awards / Recognitions Received

| Sl. No. | Description of the Award / Recognition | Organization / Agency/Sponsor | Remarks |
|---------|--|-------------------------------|---------|
|         | NIL                                    |                               |         |
|         |  |                               |         |

### 2. Reviewer of Journals

| Sl. No. | Name of Journal | Publisher | Remarks |
|---------|-----------------|-----------|---------|
|         | NIL             |           |         |

### 3. Resource Person in Workshops/Seminars/Refresher Courses etc.

| Sl. No. | Name of the Programme  | Name of Organizer / Sponsor  | Date       |
|---------|--|--|------------|
| 1       | Industrial Safety (FSDTC)<br>Title : Safety Indices  | Dept. Of Chemical Engg. GEC Thrissur/<br>DTE, Kerala                       | 22/10/2013 |
| 2       | National Science Day   | Kendriya Vidyalaya,<br>Ramavampuram, Thrissur                              | 28/02/2015 |
| 3       | Tech Fest, Bodhi – 2017<br>Title : Hazards and Mitigations<br>Options in Industrial Activities – A<br>Practical Approach | Viswajyothi College of<br>Engineering and Technology<br>Vazhakulam, Kerala | 25/10/2017 |
| 4       | New Challenges in Occupational<br>Health, Safety and Environment<br>(FSDTC)  | Dept. Of Mechanical Engg.<br>GEC Thrissur/<br>DTE, Kerala                  | 27/10/2017 |
| 5       | Research Perspectives in Emerging<br>Areas of Industrial Safety and<br>Environmental Engineering<br>(FSDTC)              | Dept. Of Mechanical Engg.<br>GEC Thrissur/<br>DTE, Kerala                  | 6/12/ 2018 |

### 4. Service offered to the Society

| Sl. No. | Role   | Description of the Service   | Remarks   |
|---------|--|--|---|
| 1       | Commissioner in<br>Consumer Dispute<br>Redressal Forum -<br>Thrissur | Detailed inspection of the<br>items, submission of the<br>reports before the court.  | W.E.F 2013 onwards  |
| 2       | Question Paper Setter  | Prepared question paper for<br>University of Calicut for the<br>Eighth Semester B.Tech Degree<br>Examination (2013 Scheme) | W.E.F 2018 onwards<br>Subjects<br>Ind. Safety. Engg.,<br>Plant Engineering and<br>Maintenance |

|   |                       |  |   |
|---|-----------------------|--|---|
|   |                       |  |   |
| 3 | Question Paper Setter | Prepared question paper for question bank for KPSC | W.E.F 2018 onwards<br>Subject<br>Mechanical Engg. |

**Signature of the Faculty:**

**Signature of the HOD:**