

## CURRICULUM VITAE

**DR. SAJIMOL AUGUSTINE. M**  
**PRINCIPAL** (01.04.2015 – ongoing)

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### **ACADEMIC QUALIFICATIONS:**

- Ph.D (2013) Cochin University of Science & Technology
- M.Phil (1987) Cochin University of Science & Technology
- M.Sc (1985) M.G University, Kerala
- B.Sc (1983) University of Kerala, Kerala

### **TEACHING EXPERIENCE: 31 YEARS**

#### **POSITIONS HELD:**

- ❖ HOD, Department of Physics : 2006-2015
- ❖ Controller of Examinations : 2014-2015
- ❖ Principal : 2015 onwards

#### **PUBLICATIONS:**

- ❖ Papers published in peer reviewed International Journals - **14**
- ❖ Papers published in National Journals - **6**
- ❖ Conference Publications
  - International - **16**
  - National - **13**

**TOTAL - 49**

## ACHIEVEMENTS:

- The interdisciplinary research work on “ Bio-compatible ZnS:Mn nanocrystals conjugated with L-citrulline, as fluorescent probes for DNA visualization and for finger print analysis in forensic studies”, has been filed **for Patent** with the patent application number **4900/CHE/2012** on 23<sup>rd</sup> November 2012 and published in the Indian Patent Journal in 6<sup>th</sup> May 2017.
- Awarded the FLAIR (Fostering Linkages in Academic Innovation and Research) **Research Excellence Award** entailing a cash prize of Rs. 50,000/- instituted by the Department of Higher Education, Government of Kerala (2016).
- Received the **Higher Education Leadership Award** instituted by Venus International Foundation in 2018
- Received the ‘**The Media Voice Excellence Award**’ by Sri. P. Sreeramakrishnan, the Speaker of the Kerala Legislative Assembly in 2018
- Member of the **Peer Team** for **NAAC Accreditation** of Colleges
- Member of **UGC Expert Committee** for Extension of Autonomy in Colleges
- Member of the **Expert Committee of the Advisory board of UGC College with Potential for Excellence.**
- The Treasurer of The Council of Principals of Colleges in Kerala
- The Treasurer of Consortium of Autonomous Colleges in Kerala.
- Received the **Best Paper Presentation Award (first prize)** during the 2<sup>nd</sup> **International Conference** on “ Optoelectronic Materials and Thin films for Advanced Technology” (OMTAT 2013) conducted from 3<sup>rd</sup> to 5<sup>th</sup> of January, 2013 in Kochi, for the paper “ *L-serine capped ZnS:Mn nanocrystals for plant cell biological studies and as a Growth enhancing agent for Micropropagation of Bacopa monnieri Linn*”.
- Received the **Best Paper Presentation Award (second prize)** during the 2<sup>nd</sup> **International Conference** on “Nanotechnology at the Bio-Medical Interface” organized by Amrita Centre for Nanosciences & Molecular Medicine, Kochi, during 21 – 23 February, 2012, for the paper “*Immobilisation of trypsin with chitosan capped ZnS:Mn nanocrystals for therapeutic applications*”.

- Receipt of **Best Paper Award (Oral Presentation)** during the UGC Sponsored **National Seminar** on “Challenges in Nanoscience and Technology” organized by Department of Chemistry, St.Teresa’s College, Ernakulam during 28 - 29 July, 2011, for the paper “*Synthesis and Optical Properties of Water-dispersible ZnS:Mn Nanocrystals Capped by L-Aminoacid Ligands*”.
- Received the **Sr. Marie Cecil Endowment award** for the Best Research Publication for two consecutive academic years 2013-14 and 2014-15.
- **Presented paper** in the Annual International Conference on Optoelectronics, Photonics & Applied Physics (OPAP) 2013, **SINGAPORE**, 4-5 February 2013.

## LIST OF RESEARCH PUBLICATIONS

### Papers published in International peer reviewed journals:

1. **M. Sajimol Augustine**, Roselin Alex, Sreevalsa VG, Deepa GD, Sarita G.Bhat, Jayalekshmi.S, “Highly luminescent and bio-compatible, L- citrulline capped ZnS:Mn nanocrystals for rapid screening of metal accumulating Lysinibacillusfusiformis bacteria” *Journal of Biological and Chemical Luminescence*, 28 (2013) 461–467.
2. **Sajimol Augustine. M**, Anand Puthirath B, Anilkumar Kollery M, Jayalekshmi.S, “Exceptionally good, transparent and flexible FeS<sub>2</sub>/PVP and FeS<sub>2</sub>/PVA nanocomposite thin films with excellent UV-shielding properties” *Polymer International*, 62 (2013) 523–702.
3. **M. Sajimol Augustine**, P.P Manzur Ali, K. Sapna, K. K Elyas, S. Jayalekshmi, “Size-dependent optical properties of bio-compatible ZnS:Mnnanocrystalsand their application in the immobilization of trypsin” *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 108 (2013) 223–228.
4. **M. Sajimol Augustine**, P.P. Jeeju,V.G. Sreevalsa and S. Jayalekshmi, “Excellent UV absorption in spin- coated thin films of oleic acid modified Zinc oxide nanorods embedded in Polyvinyl alcohol” *Journal of Physics and Chemistry of Solids*, 73 (2012) 396-401.
5. **M. Sajimol Augustine**, S. J. Varma, Francis Xavier and S.Jayalekshmi, ”Enhanced photoluminescence in oleic acid modified Polyaniline” *Transactions of the Indian Institute of Metals*, 64 (2011) 209-212.

6. **M. Sajimol Augustine**, P.P Jeeju, S.J Varma, P.A Francis Xavier, S. Jayalekshmi, "Enhanced photoluminescence in transparent thin films of polyaniline-zinc oxide nanocomposite prepared from oleic acid modified zinc oxide nanoparticles", *Thin solid Films* (accepted)
7. Jeeju.P.P, **Sajimol. A.M**, Sreevalsa V.G, S.J.Varma and S.Jayalekshmi, "Size dependent optical properties of transparent, spin coated Polystyrene- ZnO nanocomposite films" *Polymer International*, 60 (2011) 1263–1268.
8. Sreevalsa.V.G, **Sajimol Augustine M**, S.Jayalekshmi, "Characterisation of transparent PVA/aminoacid complex capped ZnO nanocomposite films" *International Journal of Plastics Technology*, 15 (2011) 10-18.
9. V.G. Sreevalsa, P.P. Jeeju, **M. Sajimol Augustine**, K M. Anilkumar, S. Jayalekshmi, "L-Histidine Modified Biocompatible Zinc Oxide Nanocrystals" *Journal of Experimental Nanoscience*. 8 (2013) 7- 8.
10. P.P.Jeeju, S. J.Varma, P.A.Francis Xavier, **A. M. Sajimol**, S.Jayalekshmi, "Novel Polypyrrole films with excellent crystallinity and good thermal stability" *Materials chemistry and physics*. 134 (2012) 803-808.
11. V.S. Dhanya, M.R Sudarsanakumar, S.Suma, Seik Weng Ng, **M. Sajimol Augustine**, Sunalya M. Roy, " Crystal structure, thermal decomposition, photoluminescence and magnetic studies of a new two dimensional metal–organic framework constructed from infinite chains of edge-sharing CeO<sub>6</sub>(H<sub>2</sub>O)<sub>2</sub>(NO<sub>3</sub>) polyhedron with bullet shaped channels" *Inorganic Chemistry Communications*, 35 (2013).
12. **M. Sajimol Augustine**, P.B. Anand, S. Jayalekshmi, "Opto-electronic applications of chitosan capped ZnS:Mn/PVA nanocomposite thin films", proceedings of *Annual International Conference on Optoelectronics, Photonics & Applied Physics (OPAP) 2013*, Singapore, 4-5 February 2013.ISSN:2301-3516 pages 65-68 (2013)
13. **Sajimol Augustine M**, Lizzy Mathew, Roselin Alex, Deepa G D, Jayalekshmi.S, "L-serine capped ZnS:Mn nanocrystals for plant cell biological studies and as a Growth enhancing agent for Micropropagation of *Bacopa monnieri* Linn. (*Brahmi: Scrophulariaceae*)" ), AIP Jan2014, Vol. 1576, p110. I
14. **M.Sajimol Augustine**, AnasAbdulaziz, AniV.Das, S.Sreekanth and S.Jayalekshmi, "Cytotoxicity Assessment and Uptake Study of Bio-compatible ZnS:Mn nanocrystals" *Spectrochimica Acta*

**Papers published in national journals:**

1. **M. Sajimol Augustine**, P.Indu, V.G Sreevalsa, P.P Jeeju, S.Jayalekshmi, “Solvent dependent optical properties of highly luminescent nanocrystals of ZnS doped with Manganese”, *Science and Society*, 9 (2011) 109-113.
2. **M. Sajimol Augustine**, V.G Sreevalsa, P.P Jeeju, S.Jayalekshmi, Synthesis and Characterization of highly luminescent ZnS:Mn/PMMA nanocomposite films, *Journal of Current Studies*, (ISSN: 2277-2707) 2(1) (2012) 27-32.
3. V.G Sreevalsa, P.P Jeeju, **M. Sajimol Augustine**, S. Jayalekshmi, “Studies on L- citrulline Capped Zinc Oxide Nanocrystals“ *Science and Society*, 9 (2011) 183-189.
4. P.P. Jeeju, P.A. Francis Xavier, **A.M. Sajimol**, V.G. Sreevalsa, Jayalekshmi, “Micelle-assisted synthesis of polypyrrole nanoparticles and their characterization “ *Science and Society*, 9 (2011) 113-121.
5. Jeeju P. P. , Sreevalsa V. G., **M. Sajimol Augustine**, S. Jayalekshmi, Nonlinear Optical Properties of ZnO/ Polyvinylpyrrolidone Nanocomposite Films, *Journal of Current Studies*, (ISSN: 2277-2707) 3 (2013).
6. **M. Sajimol Augustine**, V.G Sreevalsa, P. P. Jeeju and S. Jayalekshmi; *Synthesis and Characterization of highly luminescent ZnS:Mn/PMMA nanocomposite films*, *Journal of Current Studies* (ISSN:2277-2707) 2 (1) 27-32 (2012)

**Papers published in International Conferences**

1. **M. Sajimol Augustine**, P.P Jeeju, Sreekanth J. Varma, “Optoelectronic Applications of highly crystalline Pani/ZnO nanocomposites prepared from Oleic Acid capped ZnO Nanoparticles” *Proceedings of International Conference on Photonics and Solar Water Splitting (PSWS-2015)*, at Cochi,12-13 March 2015.
2. **Sajimol Augustine M**, Alphonsa Vijaya Joseph, Sarita.G.Bhat, Jayalekshmi S, “Biofunctionalized ZnS:Mn nanocrystals for the identification of waterborne bacterial pathogens” *proceedings of Conference on Energy Harvesting Storage and Conversion [IC-EEE]*, at CUSAT Cochin, 4 - 7 February 2015.
3. **M. Sajimol Augustine**, P.B. Anand, S. Jayalekshmi, “Opto-electronic applications of chitosan capped ZnS:Mn/PVA nanocomposite thin films”, *Proceedings of the Annual International Conference on Optoelectronics, Photonics & Applied Physics (OPAP) 2013, SINGAPORE*, 4-5 February 2013.

4. **Sajimol Augustine M**, Lizzy Mathew, Roselin Alex, Deepa G D, Jayalekshmi.S, “L-serine capped ZnS:Mn nanocrystals for plant cell biological studies and as a Growth enhancing agent for Micropropagation of *Bacopa monnieri* Linn. (Brahmi: Scrophulariaceae)” Proceedings of the International conference on Optoelectronic Materials and Thin films for Advanced Technology (OMTAT 2013), Kochi, Kerala, 3-5 January 2013.
5. **M.Sajimol Augustine**, AnasAbdulaziz, AniV.Das, S.Sreekanth and S.Jayalekshmi, “Cytotoxicity Assessment and Uptake Study of Bio-compatible ZnS:Mn nanocrystals” Proceedings of the International Conference on Nutritional Medicine, Health and Wellness, NUWELL’2012, at St, Teresa’s College, Ernakulam, 7- 8 June 2012.
6. **M.Sajimol Augustine**, P.P Manzur Ali, K.Sapna , K.K.Elyas, S.Jayalekshmi, “Immobilisation of trypsin with chitosan capped ZnS:Mn nanocrystals for therapeutic applications” Proceedings of the International Conference on Nanotechnology at the Bio-Medical Interface at Amrita Centre for Nanosciences & Molecular Medicine, Kochi, during 21 – 23 February, 2012.
7. **M.Sajimol Augustine**, P.P Jeeju, S. Jayalekshmi, “Highly luminescent PANI/ZnO nanocomposite films prepared from oleic acid capped ZnO nanoparticles” Proceedings of the Third International conference on frontiers in Nano Science and Technology (Cochin Nano – 2011), Cochin, 14-17 August 2011.
8. **M.Sajimol Augustine**, S. J. Varma, Francis Xavier P.A ,S. Jayalekshmi, “Enhanced photoluminescence in oleic acid modified Polyaniline” International Symposium for Research Scholars (ISRS-2010) on Metallurgy, Materials Science and Engineering at IIT Madras, 26-28 December 2010.
9. **M.Sajimol Augustine**, S J. Varma, Francis Xavier, S. Jayalekshmi, “Enhanced photoluminescence behaviour of PANI/ZnO nanocomposite prepared from oleic acid capped ZnO nanoparticles” Proceedings of the International conference on Recent Trends in Material Science and Technology, ICMST 2010, IIST Trivandrum, 29-31 October 2010.
10. **M. Sajimol Augustine**, S. Jayalekshmi, “Solvent dependent optical properties of spin-coated transparent nanocomposite films of oleic acid capped ZnO quantum dots in PVA matrix” Proceedings of the International conference on Advancements in Polymeric Materials, APT- 2010 , at Rubber Park, Cochin, 26-27 Feb 2010.
11. **M. Sajimol Augustine**, S. Jayalekshmi, “Optical properties of spin-coated transparent nanocomposite films of oleic acid capped ZnO quantum dots in Polyvinyl alcohol”

Proceedings of the International conference on Advancements in Polymeric Materials, APM-2010, Trends and Technology, at CIPET, Bhuvanesar, 20-22 Feb 2010.

12. P.P Jeeju, **M. Sajimol Augustine**, “Synthesis and Characterization of soluble polypyrrole nanoparticles” Proceedings of International Conference on Photonics and Solar Water Splitting (PSWS-2015), at Cochi, 12-13 March 2015.
13. Sneha Joseph, **Sajimol Augustine M.** “Investigations on structural and optical characteristics of films of some doped ZnS nanoparticles in PVA matrix”, Proceedings of International Conference On Advances In Material Science (**ICAMS**), 23-24 October 2013.
14. Jeeju.P.P, Sreevalsa.V.G, **Sajimol. A. M** and S.Jayalekshmi, “Enhanced UV-shielding properties of ZnO/PS-PMMA nanocomposite films” Proceedings of the Third International conference on frontiers in Nano Science and Technology. (Cochin Nano – 2011), Cochin, 14-17 August 2011.
15. Sreevalsa.V.G, Jeeju.P.P, **Sajimol Augustine. M** , Jayalekshmi.S, “Effect of various capping agents on the optical properties of Zinc oxide nanocrystals” Proceedings of the Third International conference on frontiers in Nano Science and Technology. Cochin, Nano – 2011, 14-17 August 2011.
16. Sreevalsa.V.G, **Sajimol Augustine M**, S.Jayalekshmi, “Characterisation of transparent PVA/aminoacid complex capped ZnO nano composite films” Proceedings of the International conference on Advancements in Polymeric Materials. APM-2010, Trends and Technology at CIPET, Bhuvanesar, 20-22 Feb 2010.

**Papers published in National Conferences**

1. **M. Sajimol Augustine**, P.Indu, V.G Sreevalsa, P.P Jeeju, S.Jayalekshmi, “Solvent dependent optical properties of highly luminescent nanocrystals of ZnS doped with Manganese” Proceedings of the National symposium on Nano Science and Technology, Nanostech – 2011, at Nirmala College Muvattupuzha, Kerala, 1-2 September 2011.
2. **M. Sajimol Augustine**, V.G Sreevalsa, P.P Jeeju, S. Jayalekshmi, “Synthesis and Optical Properties of Water-dispersible ZnS:Mn Nanocrystals Capped by L- aminoacid ligands” Proceedings of the national seminar on Challenges in Nanoscience and Technology, CNT-2011, at St, Teresa’s College, Ernakulam, 28-29 July 2011
3. **M. Sajimol Augustine**, S. Jayalekshmi, “Size dependent optical properties of spin-coated nanocomposite films of oleic acid capped ZnO nanoparticles in PVA matrix” Proceedings

of the 1st Kerala Women's Science Congress 2010, at St.Teresa's college Ernakulam, 10-12 August 2010.

4. **M.Sajimol Augustine**, S.Jayalekshmi, "Effect of capping on the optical properties of ZnO/PVA nanocomposite thin films" Proceedings of the national seminar on Nano structured materials and Nano photonics, at St.Teresa's college, Ernakulam; 4-5Jan 2010.
5. **M. Sajimol Augustine**, S.Jayalekshmi, "Influence of synthesis conditions on particle size and optical properties of highly luminescent ZnO nanoparticles doped with Na" Proceedings of the national seminar on Quantum chemistry and Nano techniques at SNM College Maliankara, Ernakulam;19-20 Nov 2009.
6. **M. Sajimol Augustine**, S. Jayalekshmi, "Highly luminescent, transparent and freestanding nanocomposite films of bio-functionalized ZnS:Mn in PS-PMMA matrix" Proceedings of National Seminar on Recent trends in Photonics, at International school of Photonics, CUSAT, Kerala, 2-4 November 2012
7. **M. Sajimol Augustine**, V.G Sreevlasa, P.P Jeeju, S. Jayalekshmi, "Highly luminescent, transparent and flexible nanocomposite films of bio-functionalized ZnS:Mn in PVA-PVP matrix" Proceedings of National Seminar on Current Trends in the fields of Nanoscience and Nanotechnology, K.K.T.M Govt.College, Pullut, Kerala, 13-14 December 2012.
8. **M. Sajimol Augustine** and S. Jayalekshmi, Synthesis and Characterization of Highly Luminescent ZnSMn: PMMA nanocomposite Films, Proceedings of Recent Trends in the Development of materials and Nano devices RTNN 2013, P.no:73
9. **M. A. Sajimol** and S.Jayalekshmi, "Highly transparent, water-soluble, spin-coated PVA/ZnO nanocomposite thin films for UV shielding applications", Proceedings of 23rd SWADESHI SCIENCE CONGRESS during 6-8 November 2013, M.G University, Kottayam.
10. P.P. Jeeju, P.A. Francis Xavier, **A.M. Sajimol**, V.G. Sreevalsa, .Jayalekshmi, "Micelle-assisted synthesis of polypyrrole nanoparticles and their characterization "Proceedings of the National symposium on Nano Science and Technology, Nanotech – 2011, at Nirmala College Muvattupuzha, Kerala, 1-2 September 2011.
11. V.G Sreevalsa, P.P Jeeju, **M. Sajimol Augustine** and S. Jayalekshmi, "Studies on L-citrulline Capped Zinc Oxide Nanocrystals" Proceedings of the National symposium on Nano Science and Technology, Nanotech – 2011, at Nirmala College Muvattupuzha, Kerala, 1-2 September 2011.



12. P.P Jeeju, **Sajimol A.M**, V.G Sreevlasa, “Linear and Nonlinear optical properties of Transparent, spin-coated ZnO/Polyvinyl alcohol nanocomposite films” Proceedings of National Seminar on Current Trends in the fields of Nanoscience and Nanotechnology, K.K.T.M Govt.College, Pullut, Kerala, 13-14 December 2012.
13. V.G Sreevlasa, **Sajimol Augustine**, P.P Jeeju, “Third order nonlinearity and biocompatibility studies of L- histidine capped ZnO nanocrystals” Proceedings of National Seminar on Current Trends in the fields of Nanoscience and Nanotechnology, K.K.T.M Govt.College, Pullut, Kerala, 13-14 December 2012.

**1. SENIORITY AS PRINCIPAL:** 01.04.2015 – Ongoing (4 years)

**2. ACADEMIC ACHIEVEMENTS:**

- Obtained the 64<sup>th</sup> rank in College category for the National Institutional Ranking Framework, India Ranking 2019. The College noted an improvement from 76<sup>th</sup> rank for the India Ranking 2018.
- The College offers 54 programmes in all, in arts, science, commerce and management studies: 23 UG programmes, 17 PG programmes, 3 MPhil programmes, 7 PhD Programmes, 1 UG Diploma and 3 PG Diploma programmes.
- The College has implemented **16 new programmes** after becoming autonomous thus fulfilling the recommendations of the third Cycle Accreditation.
- Under the Choice Based Credit and Semester System the UG programmes offer 20 Open Courses and Electives.
- **Centre for Research and Development** was set up to monitor the research activities and International Collaborations in 2016.
- Five Science Departments of the College have been recognized for their research activities by DST-FIST in 2013. In 2016 **DBT conferred the college the status of ‘Star College’.**
- The UGC sanctioned Rs.102 lakhs for **two B.Voc programmes** and Rs. 69.9 lakhs for establishing **Community College** in 2015.
- The College has signed 22 functional **MoUs** and has 79 collaborative activities with other International/National institutions.
- The **PG and UG Syllabi were revised** twice.
- A **Patent Cell** was initiated to educate the researchers about patents and intellectual property rights through workshops and seminars, and also to encourage them to file patents
- The Teresian Residential **Civil Service Grooming Programme (CSGP)** has been introduced in association with the Diocese of Verapoly for the upliftment of disadvantaged and aspiring youth of our society in 2018.
- The College has established a **‘Centre for remediation of Learning Difficulties and Communication Disorders’** which renders services to children with learning disability under the department of Home Science in 2016.
- Conducted Academic and Administrative , Energy and Green Audits
- The institution has developed a **software Digna Digital** (College Management System) to ensure transparency in the examination process.
- The College launched the **Teresian Publishing House** in 2018.
- The IQAC has started publishing of **Teresian Review**, a magazine featuring the most significant achievements and memorable events of the College from the academic year 2016-17 onwards.

- The College for the first time conducted a two day **Knowledge Fair** in association with the Kerala State Higher Education Council in January 2016 at the college premises.
- The scheme of **cluster departments** and an additional hour called ‘**zero hour**’ to enhance skill development activities have been introduced in 2018-19 academic year.
- St. Teresa’s College promotes research as an integral part of the curriculum which makes Teresian Teaching and Learning distinctive. 7 Departments are Centres for Research with 111 scholars pursuing research under 34 research guides.
- The College is a recognized centre to offer course work for PhD scholars since 2012. 19 research scholars were awarded PhD, 26 faculty members are engaged in research leading to PhD, 15 Major and 22 minor projects were completed.
- The College has one International Peer reviewed Journal (TJES), two National Journals, 229 papers in peer reviewed journals (National / International). 58 faculty members and students have received research awards and recognition for innovation. 127 International/National/State Seminars/Conferences/workshops were organised.
- **Teresian TIBIC (Teresian Innovation and Business Incubation Centre)** launched officially has earned the institution the credit of being the only women’s college in the state to have business incubation centers. The four incubation centers are, Teresian I CONNECT which has received the prestigious Energy Conservation Award 2018 by the Kerala Government, Teresian Bakery and Confectionery, Teresian Travel Desk (TTD), STEP (Society of Teresians for Environmental Protection).
- 10200 programmes have been organised by Teresian Rural Outreach Programme (TROP) for which the college has won national and state awards.
- NSS, NCC, YRC, Youth Red Cross and Bhoomithrasena Club won the first Prize for Environment Protection at the Institution Level instituted by World Malayalee Council.
- Has taken steps to enhance the potential of ICT enabled teaching and learning and to maximize the use of **Learning Management System**. Several faculty members have develop e-content and have completed MOOC and other courses on the Swayam and NPTEL platform. Internal Examinations were conducted using MOODLE. A State of The Art **Multi Media Lab** has been made functional.
- **Academic Exchange Programmes initiated under the guidance of the Principal:**
  - The College host two Fulbright scholars Dr. Amelia Rauser, Professor of Art History, Franklin & Marshall College, USA and Kim- Young Jin, Researcher Seoul, South Korea.
  - Dr. Deborah Ford, Honorable Chancellor of University of Wisconsin-Parkside, US, visited our College and delivered a talk on ‘Women and Leadership’ at the college.
  - Students had the opportunity to interact with the faculty and students of Semester at Sea, a multi-country study abroad programme sponsored by Colorado State University, USA.

- A joint research project on the Evaluation of the Kerala Model Relief Centres: Integrating a Gender Sensitive Disaster Management Plan, has been undertaken along with Sophia University, Japan.
- Prof. Richard J. Cohen and Prof. Mehr Farooqui and students from the University of Virginia, US, visited the College to participate in an interactive session on "Education, Gender and Globalisation"
- An Australian delegation headed by Dr. Ruth Wallace, Dean, College of Indigenous Futures, Arts and Society, and Prof. Ganesh Koramannil from the Charles Darwin University, Australia visited the campus as an initial step to facilitate joint research and student and faculty exchanges.
- As a part of the Faculty Exchange Program with Richmond University, Dr Parviz Dabir-Alai, Professor of Economics, Richmond University UK, visited the campus.
- As a part of the Academic Exchange Programmes, 6 Under Graduate students of the college attended the Summer Programme at Richmond University, London.
- A batch of International students from Sophia University, Japan visited our campus.
- Indo Swedish Academic Exchange Forum initiated a ten day exchange programme. A group of 20 students along with three faculty members from Stockholm University Hersby, Sweden visited our college.
- The Teresian International hosted a cultural exchange programme for the students of the Colorado State University, USA in collaboration with 'Semester at Sea' which is a study abroad programme.
- A group of nine students from the University of Virginia, accompanied by two professors, visited our college as a part of cross cultural exchange programme.
- Nine students from the college participated in the Summer Program at Richmond the American University in London from 21 May- 9 June 2018.
- As part of the Indo Swedish Academic Exchange Programme 2019, seven students and three faculty members will be visiting Sweden for 10 days in May.

### 3. INFRASTRUCTURE DEVELOPMENT

- The total land area is 15.64 acres, of which 8.37 acres were acquired in 2016. A **new block** was built in the newly acquired adjacent property, with all modern facilities.
- A **training center of Society of Teresians for Environmental Protection (STEP)** was also set up in college for manufacturing eco-friendly alternatives.
- Installed **Solar panel** sponsored by Prof. KV Thomas under the MP fund
- An **elevator facility** has been installed at Platinum Jubilee auditorium sponsored by Shri Yusuf Ali., Chairman, Lulu International.
- The following facilities were created during the Principal's tenure:
  - Multimedia Lab
  - Language Lab
  - E-learning Centre

- Lecture capturing system
- Video conferencing facility
- Renovation of Canteen
- Central Instrumentation Facility
- More classrooms with LCD facilities and **browsing centres with 50MBPS high speed connections** and a new multi-media Lab and an E-Learning Centre to promote ICT enabled Teaching and Learning.
- The campus is **Wi-Fi enabled** and all the departments, offices and labs remain connected to LAN. Generators are installed for complete power back up.
- An **ERP System** Mother Digna System integrates all the functional areas of the institution.
- The Library is fully automated. **ILMS Software KOHA provides a user friendly interface**. Library facilitates Web – OPAC remote access to users. Subscription to **N-List of INFLIBNET** provides access to more than 6000 journals and 90,000 e-books.
- **Video Conferencing facility in AV –Room, the bio-metric door security system, 4 servers, and Moodle, Talking Book and SARA CE Instant Text Reading Machine and Pearl Portable Instant Open book Scanning & Reading Software for visually challenged users** are other facilities.

#### 4. CONTRIBUTIONS AND INVOLVEMENT IN AIACHE

##### Participation in Annual Conferences

#### 5. INNOVATION IN ADMINISTRATION

Has played a major role in making the institutional leadership participatory and has ensured there is extensive consultation between the management and the major stakeholders. The College has a perspective plan for institutional development and the academic and administrative activities are carried out in consensus with the stated policies.

Has implemented regular audit of the academic matters through management audit and academic audit through IQAC to enhance quality in teaching learning environment.

The output of each department is analyzed and supportive measures are initiated to increase the quality of their functioning.

The Statutory Bodies such as the Governing Council, the Academic Council, the BOS College Council and the Finance Committee formulate strategic plans, drafting policies, developing and approving the curriculum and implementing programmes to ensure quality and excellence.

Thus the college practices decentralised participatory governance.

Has enabled the IQAC to coordinate all the quality-related activities by developing an organized methodology of documentation and internal communication, enhancing and integrating the various activities of the College and ensuring the adoption and dissemination of good practices.

Has implemented online feedback regarding the effectiveness of the governance and leadership of the institution, departments, the office and ministerial staff, and the Action Taken Report is uploaded on the website.

Has redesigned the web page of the institution making it user friendly to the students and all other major stakeholders. Efforts are taken to make the web page gender sensitive.

St. Teresa's College **Welfare Society** has been established to cater to the financial needs of the institution. The Planning Committee and the Finance Committee meticulously plan and allocate the budget for academic and administrative activities.

Has successfully fulfilled the vision of the college to “empower students to respond proactively” and “work for the integrity of creation.”

Strategic planning from 2015 involving the faculty members of various departments and clubs, particularly the Bhoomithrasena Club, have enabled commitment to the protection of the environment. This has led to the formation of STEP (Society of Teresians for Environment Protection) and the activities have won many awards at the state and national level.

Bhoomitra Sena Club won the first Prize for Environment Protection’’ at the Institution Level instituted by World Malayalee Council 2018 which was presented by the Chief Minister of Kerala. I CONNECT Initiatives for Conservation of Nature and Energy received the prestigious Energy Conservation Award 2018 by Kerala Government.

A Green Audit was conducted by the college in 2014 which included a detailed report of waste generated, methods of management and suggestions for improvement. Subsequently the Teresian Green Protocol was framed and adopted which highlights the principles of scientific waste management, namely, hierarchy of the ‘3 R’s’, Reduce, Reuse and Recycle. BMC collaborated with Biennale and contributed 5340 used pens which evolved as a work of art.

In 2016 a social entrepreneurship unit called STEP -Society of Teresians for Environmental Protection- was initiated in the campus. The Teresian Innovation and Business Development Centre (TIBIC), set up with support from Kerala Startup Mission, Govt of Kerala and Kerala State Industries Development Corporation is probably the only such Govt supported initiative in a non-engineering Women's College in Kerala.

Many innovative programmes were introduced to promote Skill India & Start up India by offering need-based, industry-relevant and society-driven courses. The curriculum was designed consistent with the vision and mission of the college. The IQAC organized workshops to give faculty members a shared understanding of the rudiments of syllabus structuring and a common institutional vision. Following the grant of Autonomy, feedback was collected from experts and stakeholders to introduce 16 new programmes, 577 new courses and 29 value added courses.

The Outcome Based Education initiated are supported by PEOs, POs, PSOs and COs. POs are chosen in the spirit of Future Work Skills 2020, Trends in Global Higher Education (UNESCO 2009) and American Association of Higher Education (AAHE) and Kerala HEC. Feedback from all the major stake holders are analyzed and Action Taken Report is uploaded on the College website. The IQAC has taken an initiative for a National and International validation of the Syllabus.

The college is a centre for CCEK (Centre for Continuing Education Kerala), IGNOU and NSDC, SRC Kerala and ASAP. The institution has integrated cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum.

The Academic Calendar is prepared each academic year and incorporated in the College Handbook. Efforts are taken to identify Slow Learners and remedial teaching is provided for them.

Has encouraged the IQAC to provide Leadership training - Walk with the Legends, Walk With the Scholar Programme (WWS), Earn While you Learn Programme and Collaborative learning where the Advanced Learners share knowledge. The IQAC has introduced zero hour to enhance the quality of the learning environment.

Another milestone is developing Gender Audit Template for HEIs in collaboration with WISCOMP (Women in Security Conflict Management and Peace, New Delhi).

Accredited Summer Programmes in U.K., Brand Called You, NLP and Unarvu were introduced for advanced learners. An MOU signed with ISDC and ACCA UK has initiated B.Com with ACCA.

Performance is evaluated based on internal assessment and a final examination .The institution has developed a software Digna Digital (College Management System) to ensure transparency in the examination process.

## **6. PEER TEAM/NAAC/CONFERENCE/SEMINAR**

### **NAAC Peer Team Member**

## **7. AWARDS STATE/NATIONAL SOCIAL CONCERN/ALUMNI**

- Kerala State Energy Conservation Award 2018 instituted by Government of Kerala was conferred to the Institution by Sri. M. M. Mani, Honourable Minister for Electricity
- Bhoomithra Sena Club of the college was awarded the First Prize in project competition by the World Malayalee Council for the project competition in 'Solid and Liquid Waste Management'.
- The College was awarded 'Fr. Puthenkalam S.J. Memorial Ever-Rolling Trophy' for the Best Sociology Association among colleges in Kerala by the Kerala Sociological Society.
- Society of Teresians for Environmental Protection (STEP) received a special felicitation from the Department of Environment and Climate Change Govt of Kerala 2018 for commendable efforts in implementing the green protocol.
- The College also received the Shuchitwa Haritha Puraskar for environmental protection in 2016
- The college received the Paristhithi Mithra Award-2016 for outstanding contribution towards the promotion of environmental education, protection and conservation in the State of Kerala.
- The College was selected as the Best College supporting Women's Education in Kerala by the Lioness Club International in connection with International Women's Day.
- Bhoomitra Sena Club of St Teresa's College received the best club amongst the colleges in central Kerala from the Directorate of Environment and Climate Change, Govt. of Kerala.
- A social Entrepreneurship unit, 'Society of Teresians for Environment Protection' (STEP) was started to promote ecofriendly alternatives to plastic and to give employment to women in 2017.
- TIBIC - Teresian Innovation and Business Incubation Centre was initiated to provide an impetus to entrepreneurship among students in 2018.
- The "Radhika Thilak Memorial Ever Rolling Trophy" was instituted by the college in honour of the former student and renowned singer late Mrs. Radhika Thilak to be awarded to the First Prize winner of the eastern solo (female) in the M.G. University Youth Festival.
- "Professor Mercy Willaims Memorial Excellence Award" has been instituted by the College in 2017 to honour Late Prof. Mercy Williams, former Head of the Department of Sociology and the first lady Mayor of the Corporation of Kochi to be awarded to the Best Sociology Department in Kerala for Excellence in Social Outreach Programmes.



- The college has initiated a computer literacy programme ‘Viovigyan’ to empower senior citizens under the leadership of the Department of Computer Applications.
- The College has launched a new venture I-CONNECT – Initiatives for CONservation of Nature and Energy Coordinated by Teresians in 2017 with an objective to build a responsible generation towards the cause of conservation of energy and nature under the initiative of Department of Physics.
- The Green Protocol has been implemented by Bhoomithra Sena Club along with Suchitwa Mission in the campus.
- Gandhi Jayanti was celebrated by honoring the ex- servicemen from among the family members of the students.
- Equal Opportunity Cell
- The College began an “Honesty Store,” to inculcate the core value of honesty in the students’ minds.
- Khadi day and public transport day every month
- Bhoomitra cloth bags prepared by Bhoomitra Sena Club were distributed to the members of the Kerala Legislative Assembly as part of the International Anti-Plastic Day.
- Teachers’ Day Celebration was conducted and felicitated teachers who had completed 25 years of selfless service.
- Support offered to Okhi victims at Chellanam and Vypeen.
- Two of our NCC cadets have been selected for the Youth Exchange Programme (YEP) in 2017 and 2018
- Ente Haritha Bhavanam Project’, introduced to the students in 2017 on World Environment Day provides a unique platform to contribute to environmental protection from their own homes.
- St. Teresa's college functioned as a relief camp to house 3000 people displaced by the floods that ravaged Kerala. The Management, Staff, Alumni, PTA, NCC, NSS, and students enthusiastically involved themselves in the activities of the camp.
- An additional 52 vacancies have been allotted to the NCC unit of the college to increase the strength to 104
- The Annual Christmas sale, a long-standing tradition, gives visibility and recognition to our alumni entrepreneurs and other women. This has evolved into Innovation Entrepreneurship Development Club (IEDC) in 2005.

## **8. STAFF DEVELOPMENT AND STUDENT ACTIVITY**

- St. Teresa’s College has now on its rolls 201 teaching staff and 83 non-teaching staff functioning in 24 departments with 3569 students.
- The various statutory bodies, committees, clubs and cells ensure that faculty members and student representatives are provided ample opportunities for grooming their leadership potential. Transparency is maintained in faculty appointment which is based

solely on merit and the management ensures quality by refraining from charging capitation fees for staff appointment.

- The College has well-organized student services complemented by good faculty leadership and broad based institutional commitment. Teresian International functions under the Research & Development Cell to initiate the Twinning, Faculty & Student Exchange Programmes of the College.
- Endowment funds and prizes for students are instituted by the Management, Staff, Alumni, PTA, retired faculty and other well-wishers for academic, co-curricular and extra-curricular achievements and scholarships for needy students. The 'Navathy Scholarship' was instituted in 2015, to celebrate 90 years of service in the apostolate of education, by which 90 students get a 50 % fee concession. In the last five years 5714 students benefitted through governmental scholarships.
- The College Union functions under the counsel of two Deans and the faculty members in charge of the various Clubs and Cells.
- The IQAC has a structured online student feedback mechanism and a Student wing to ensure student participation in all policy matters. They coordinate feedback from their classes on the various student support programmes and play a decisive role in awareness programmes, extension activities, and in shaping gender audit and safety audit.
- The Grievance Redressal Cell resolves their academic and administrative grievances. The placement Cell helps students to identify job opportunities, prepare them for interviews, and develop entrepreneurship skills through the Career Guidance Cell and the Entrepreneurship Development Club.
- Teresian Research and Consultancy Enterprise - evolved out of a need to give impetus to research and consultancy initiatives of the faculty and students. The Teresian Research and Consultancy Cell (TRACC) has fostered a sharing of multiple methodologies and promoted interdisciplinary research.
- Two Major Student Friendly Reforms introduced are re-examinations for students who lost their chance to appear for the final examination and Supplementary Exams Save A Year (SAY). An External Additional Chief Superintendent is appointed to ensure transparency and credibility in the conduct of Exams.
- The IQAC organized workshops to give faculty members a shared understanding of the rudiments of syllabus structuring and a common institutional vision.
- Has encouraged the IQAC to provide Leadership training - Walk with the Legends, Walk With the Scholar Programme (WWS), Earn While you Learn Programme and Collaborative learning where the Advanced Learners share knowledge. The IQAC has introduced zero hour to enhance the quality of the learning environment.
- Has taken steps to enhance the potential of ICT enabled teaching and learning and to maximize the use of Learning Management System. Several faculty members have develop e-content and have completed MOOC and other courses on the Swayam and

NPTEL platform. Internal Examinations were conducted using MOODLE. A State of The Art Multi Media Lab has been made functional.

- Special initiatives of the Institution for faculty and students: Teresian Rural Outreach Program (TROP), Teresian Innovation and Business Incubation Centre (TIBIC), Society of Teresians for Environment Protection (STEP), Teresian Research And Consultancy Cell (TRACC).
- In the 31 years of the history of Mahatma Gandhi University Youth Festival, the College has won the overall championship 23 times and were runners up 8 times. From 2009, the institution has won the overall championship continuously for eight years, testing its quality with 350 colleges. This has created history in the University Records.
- The sports performance record of the institution in the post accreditation period has witnessed a tremendous change from the 33rd position to 7th among the colleges affiliated to M.G. University.
- Regular value education classes are conducted once a week for all the classes on topics specified by the Value Education cell. In addition, a Life Orientation Programme is also given to the outgoing students to prepare them for marriage, family and working life.
- The Counselling Cell of the college strives to provide emotional support, empathetic listening and to promote personality development.
- The college in association with Maithri-Link with Life, launched a programme for life skill improvement and Crisis Management called Hand-in Hand.
- An “Honesty Store”, was initiated in the campus to inculcate honesty in the mind of students and thereby making it one of their personal core values.