

Dr. Ramesh A. R.



Personal

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Permanent address	Analiparambil House, Anandapuram P. O., Thrissur- 680 323, Kerala, India Tel: 91-9349171626, 91-9387856260 (Mob)
Place & Date of Birth	Anandapuram, Kerala, India; May 28, 1982
Gender	Male
Marital status	Married
Nationality	Indian

Academic Chronicle

Course	Year	University	Division (Marks/Total, Percentage)
Ph. D. (Chemistry)	2012	University of Kerala, Kerala, India	
M. Sc. (Applied Chemistry)	2004	Department of Chemistry, Calicut University, kerala, India	First class, (1535/2000, 76.7%) 3rd rank in University
B. Sc. (Chemistry)	2002	St. Thomas College, Calicut University, Kerala, India	First class (874/1000, 87.4%)
Higher Secondary (Science)	1999	Board of H.S.E., Kerala	First class (553/900, 61.4%)
S.S.L.C.	1997	Board of S.S.L.C., Kerala	First class (416/600,

- Title of the Ph. D. thesis** : ‘Self-Organization and Photophysical Investigations of Phenyleneethynyls’
- Thesis supervisor** : Dr. K. George Thomas, Scientist, Photosciences and Photonics, NIIST (CSIR), Kerala, India (*currently Prof. K. George Thomas is the Dean and Professor at the Indian Institute of Science Education and Research, Thiruvananthapuram*).

Awards and Fellowships

- **FLAIR International Intern 2014**, an international internship awarded by the Government of Kerala (at Higher Education Academy and Nottingham Trent University, Nottingham, UK from 27-02-2014 to 22-03-2014)
- *Awarded the prestigious **CSIR-JRF-NET** fellowship of the Council of Scientific and Industrial Research, Government of India in June 2005 (selected through an all India competitive examination - national fellowship for carrying out research)*
- **Senior Research Fellowship**, Council of Scientific and Industrial Research (CSIR), India (January 2008-March 2010)
- **Junior Research Fellowship**, Council of Scientific and Industrial Research (CSIR), India (January 2006-December 2007)
- Selected for Shyama Prasad Mukherjee (**SPM-2006**) fellowship test (selection based on the top 20% Junior Research Fellowship awardees in a year)
- Qualified Graduate Aptitude Test in Engineering (**GATE-2005**), with Percentile Score 97.4, All India Rank 88.
- Qualified **NET** in December 2004.
- **Third Rank** in Masters Course (Applied Chemistry), Calicut University, Kerala

Research Experience

- **Senior Research Fellow (CSIR)** at the Photosciences and Photonics, Chemical Sciences and Technology Division, National Institute for Interdisciplinary Science and Technology (NIIST), CSIR, Trivandrum – 695 019, from 23rd January 2008, under the supervision of Dr. K. George Thomas, NIIST, Trivandrum.
- **Junior Research Fellow** at Photosciences and Photonics, Chemical Sciences and Technology Division, National Institute for Interdisciplinary Science and Technology

(NIIST), CSIR, Trivandrum – 695 019, from 23rd January 2006 – 22nd January 2008 under the supervision of Dr. K. George Thomas.

- **Junior Project Fellow** at Photosciences and Photonics, Chemical Sciences and Technology Division, National Institute for Interdisciplinary Science and Technology (NIIST), CSIR, Trivandrum – 695 019, from 11th April 2005 – 22nd January 2006 under the supervision of Dr. K. George Thomas.

Publications

1. **Ramesh, A. R.**; George Thomas K. *Chem. Commun.* **2010**, *46*, 3457-3459 (with inside cover art).
2. Yoosaf, K.; **Ramesh, A. R.**; Jino George; Suresh, C. H.; and K. George Thomas *J. Phys. Chem. C* **2009**, *113*, 11836-11843.
3. Yoosaf, K.; James, P. V.; **Ramesh, A. R.**; Suresh, C. H.; George Thomas K. *J. Phys. Chem. C* **2007**, *111(41)*, 14933-14936 (with cover art).
4. Yochiro Matsunaga; Kensuke Takechi; Takeshi Akasaka; **Ramesh A. R.**; James P. V.; K. George Thomas and Prashant V. Kamat; *J. Phys. Chem. B* **2008**, *112*, 14539–14547.

International Visits

- Visiting scholar at **Nottingham Trent University, UK** from 27-02-2014 to 22-03-2014 sponsored by FLAIR, Higher Education, Govt. of Kerala

Teaching Experience

- **10 years** of teaching experience for various Diploma, B. Tech, UG and PG programmes at various Government Engineering Colleges, Arts and Science Colleges and Polytechnic College.
 1. Govt. Engineering College, Thrissur (02-03-2010 to 26-07-2010)
 2. Govt. College, Kariavattom, Trivandrum (27-07-2010 to 11-11-2012)
 3. Kerala Govt. Polytechnic College, Kozhikode (12-11-2012 to 05-06-2013)
 4. Govt. Arts & Science College, Kozhikode (06-06-2013 to 02-06-2014 FN)
 5. Govt. Engineering College, Kozhikode (02-06-2014 AN to 01-06-2015)
 6. Govt. Victoria College, Palakkad (02-06-2015 to till date)

MOOCs developed

<i>Name of the Course</i>	<i>Duration and Date</i>	<i>Agency</i>
Developed and conducted a four quadrant MOOC on online learning and content development	15 days 18.04.2020 to 02.05.2020	FLAIR Kerala, Directorate of Collegiate Education
Developed and conducted a four quadrant MOOC on Five days faculty development programme on learning management system MOODLE	5 days 22.05.2020 to 27.05.2020	APJ Abdul Kalam Technological University
Developed and conducted a four module MOOC on “Online Training on Learning Management System Moodle”	14 days 29.05.2020 to 11.06.2020	IQAC, Sree Sankara- charya, University of Sanskrit, Kalady

Responsibilities Undertaken in the College

1. National Service Scheme (NSS) Programme officer at the Govt. College Kariavattom during the period 24-09-2011 to 09-11-2012
2. Convener, NAAC Committee at the Govt. College Kariavattom 2012
3. National Service Scheme (NSS) Programme Officer at the Govt. Engineering College Kozhikode 2014-15
4. Bhoomitrasena Programme coordinator at Govt. Engineering College, Kozhikode during Academic Years 2014-15
5. Red Ribbon Club Programme Officer at the Govt. Engineering College Kozhikode during Academic Years 2014-15
6. Suchitwa Club Programme Officer at the Govt. Engineering College Kozhikode during Academic Years 2014-15
7. Internal mentor of WWS at Govt. Victoria College 2015-16

8. EDUSAT Nodal Officer at Govt. Victoria College 2016-17
9. Spoken Tutorial Coordinator at Govt. Victoria College 2016-17
10. Staff club executive member at Govt. Victoria College 2016-17
11. Internal mentor of WWS at Govt. Victoria College 2016-17
12. Joint coordinator of DCE, Kerala sponsored, Three-day national seminar on “Recent Advances in Chemistry” at Govt. Victoria College Palakkad 2016-17
13. EDUSAT/ORICE Nodal Officer at Govt. Victoria College 2017-18
14. Spoken Tutorial Coordinator at Govt. Victoria College 2017-18
15. Staff club executive member at Govt. Victoria College 2017-18
16. Internal mentor of WWS at Govt. Victoria College 2017-18
17. Convener of Photography club at Govt. Victoria College 2017-18
18. Coordinator of the DCE, Govt. of Kerala sponsored Three day national workshop on “Computing in Chemistry” at Govt. Victoria College 2017-18
19. EDUSAT/ORICE Nodal Officer at Govt. Victoria College 2018-19
20. SWAYAM coordinator at Govt. Victoria College 2018-19
21. NPTEL Nodal Officer (SPOC) at Govt. Victoria College 2018-19
22. SECURITY OFFICER of college at Govt. Victoria College 2018-19
23. CCTV coordinator of college at Govt. Victoria College 2018-19
24. Online course Management system coordinator at Govt. Victoria College 2018-19
25. Green Protocol Officer at Govt. Victoria College 2018-19
26. Spoken Tutorial committee member at Govt. Victoria College 2018-19
27. Staff club executive member at Govt. Victoria College 2018-19
28. Internal mentor of WWS at Govt. Victoria College 2018-19
29. EDUSAT/ORICE Nodal Officer at Govt. Victoria College 2019-20
30. Joint Coordinator of Civil Service Coaching at Govt. Victoria College 2019-20
31. Green Protocol Officer at Govt. Victoria College 2019-20
32. SWAYAM coordinator at Govt. Victoria College 2019-20
33. NPTEL Nodal Officer (SPOC) at Govt. Victoria College 2019-20

34. CCTV coordinator of college at Govt. Victoria College 2019-20
35. Online course Management system coordinator at Govt. Victoria College 2019-20
36. Coordinator of Virtual class room, KAS exam online training at Govt. Victoria College 2019-20
37. Internal mentor of WWS at Govt. Victoria College 2019-20
38. Core committee member of college union election at Govt. Victoria College 2019-20
39. EDUSAT/ORICE Nodal Officer at Govt. Victoria College 2020-21
40. Green Protocol Officer at Govt. Victoria College 2020-21
41. SWAYAM coordinator at Govt. Victoria College 2020-21
42. NPTEL Nodal Officer (SPOC) at Govt. Victoria College 2020-21
43. CCTV coordinator of college at Govt. Victoria College 2020-21
44. Online course Management system coordinator at Govt. Victoria College 2020-21
45. NAAC Department Coordinator at Govt. Victoria College 2020-21

International Conferences Attended

- International Conference and Humboldt Kolleg on “*Interface Between Chemistry & Biology: A Perspective (ICBP-2010)*” held at Indian Institute of Chemical Technology, Hyderabad (September 21-24, 2010)
- Indo-Japan Cooperative Science Programme, “*Recent Trends in Molecular Materials Research*”, held at Trivandrum (January 20-22, 2008)
- “*International Winter School on Chemistry of Materials*” held at Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore, India jointly organized by International Centre for Materials Research (ICMR), Santa Barbara, USA and JNCASR (December 06-13, 2007)
- “*US-India Brain Storming Discussion Meeting on Faculty Development*” Organized by Kerala State Higher Education Council. Thiruvananthapuram and North Carolina State University, United States of America at Internal & Inter University Centre for Nanoscience and Nanotechnology at Mahatma Gandhi University, Kottayam, Kerala, India (January 06, 2014)

Invited Lectures

- **150+ invited lectures** were given in the area of Digital teaching-learning and Learning Management system through offline and online mode in National level, State level, University level and college level organized by different bodies like UGC-HRDC, TLC PMMMNMTT, KSHEC, FLAIR, DCE, Universities and Colleges. **13 invited talks** were also delivered in the subject area Chemistry.

1. “Characterization of Nanomaterials”

Three-day in-house training programme on Nanoscience and Smart Materials sponsored by TEQUIP, held at Govt. Engineering College, Thrissur, December 17, 2013

2. “Introduction to Nanoscience and Nanotechnology”

National Seminar on Chemistry for Human Welfare held at KKTM Govt. College, Pullut, Kodungallore, Kerala, India November 14, 2014

3. “Digital Literacy (Basic ICT skills) & Introduction to MOODLE”

National Workshop on ICT for Teaching and Learning held at NMSM Govt. College, Kalpetta, Wayanad, December 12, 2014

4. “Chemistry in everyday Life”

RESONANCE- Chemistry Association inauguration function held at St. Joesph’s College Devagiri, Kozhikode, February 12, 2015

5. “Chemistry Connections”

Chemistry Association inauguration function held at Govt. College Malappuram November 24, 2015

6. “A journey to the world of Nanomaterials”

DCE Seminar at Govt. College Malappuram January 07, 2016

7. "Nanomaterials Size & shape effects"

DCE Seminar on Synthesis and Characterization of Au & Ag nanoparticles, KKTM Govt. College Pullut November 21-22, 2016

8. "Synthesis, properties and characterization of metal nanoparticles "

DTE Training Programme at Govt. Engineering College Thrissur July 25, 2017

9. "Nanoscience & Environment "
DCE Seminar at Govt. Brennen College Thalassery, January 09, 2018
10. " Journey to the wonderful world of chemistry"
Sasthrajalakam Palakkad - SIET 3-day workshop at Govt. Victoria College Palakkad,
November 8, 2019
11. " Chemistry Digital Learning”
One-day seminar held at NSS College Ottappalam, February 14, 2020
12. "NanoScience and NanoTechnology"
ASAP Webinar April 24, 2020
13. "Scanning Probe Microscope - NanoScience and Nanotechnology 2"
ASAP Webinar April 28, 2020

Presentations at Conferences

International

1. Two Dimensional Self-Organization of Phenyleneethynylenes
International Conference and Humboldt Kolleg, held at IICT, Hyderabad, September 21-24, 2010.
2. Functional Control on the Self-Organization of Phenyleneethynylenes
Indo-Japan Cooperative Science Programme, “Recent Trends in Molecular Materials Research”, held at Trivandrum, January 20-22, 2008.
3. Self-Organization of Phenyleneethynylenes on Surfaces
International Winter School on the Chemistry of Materials held at Bangalore, December 06-13, 2007

National

4. Decorating Molecules on Surfaces with Nanoscale Precision
23rd Kerala Science Congress held at Centre for earth science studies, Thiruvananthapuram, Kerala, January 29-31, 2011. (Selected for the Young scientist award presentation competition)
5. Substitution Effects on the Self-Organization of Phenyleneethynylenes
JNC Research Conference on Chemistry of Materials held at Alleppy, Kerala

October 29-November 01, 2008.

6. 2D Self-Organization of Phenyleneethynylenes: STM Investigation
JNC Research Conference on Chemistry of Materials held at Munnar, Kerala
September 28-October 01, 2007.
7. Self-Organization and Optical Properties of Phenyleneethynylenes: From Solution to Surface
11th CRSI National Symposium in Chemistry, held at NCL Pune, February 5-8, 2009.
8. Understanding the role of weak interactions in the organization of organic molecules
two day National Seminar on 'Principles & Techniques in Chemistry' held at Govt. Arts and Science College, Kozhikode, October 15-16, 2014.

Training Programmes/ Conferences/ Seminars Attended

- Attended **40+** national and state level Training Programmes/Conferences/ Seminars/workshops
1. “*Workshop for College Chemistry Students and Teachers*” jointly organized by Foundation for Capacity Building in Science (FCBS) and Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) at Residency Tower, Trivandrum (October 25-27, 2010)
 2. “*Faculty Training and Motivation and Adoption of Schools and Colleges by CSIR Lab*” organized by National Institute for Interdisciplinary Science and Technology (CSIR), Trivandrum (February 18, 2011)
 3. “*Awareness Programme on e-Governance for Collegiate Education Department*” at the Institute of Management in Government, Trivandrum (June 06-07, 2011)
 4. “*Adolescent and Young Adults- Premarital Counselling*” organized by Child Development Centre in association with National Service Scheme, University of Kerala at Child Development Centre, Medical College, Thiruvananthapuram (October 19, 2011)
 5. “*Workshop for College Chemistry Students and Teachers*” jointly organized by Foundation for Capacity Building in Science (FCBS) and Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) at Residency Tower, Trivandrum (November 08-10, 2011)
 6. “*Orientation Course for the Programme Officers of National Service Scheme*”, organized by Empanelled Training Institution, Rajagiri College of Social sciences, Ernakulam (September 05-11, 2012)

7. “*District level Planning meeting of Club 25 campaign*” organized by Kerala State Blood Transfusion Council at Sanskrit College Trivandrum (October 11, 2012)
8. “*Workshop for College Chemistry Students and Teachers*” jointly organized by Foundation for Capacity Building in Science (FCBS) and Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) at Residency Tower, Trivandrum (November 09-11, 2012)
9. “*National Seminar on Molecular Spectroscopy*” organized by Govt. Arts & Science College, Kozhikode (November 21-22, 2012)
10. “*One day interface meeting on the FLAIR programme*” organized by Department of Higher Education, Kerala at the Kannur University Campus (August 01, 2013)
11. “*Five day induction training of the FLAIR programme*” organized by FLAIR, Kerala at Kerala Water Authority Training Centre, Trivandrum (October 28- November 01, 2013)
12. “*National Seminar on Accreditation of Higher Education Institutions: Processes & Methodologies*” organized by Directorate of Collegiate Education and Govt. College Kodanchery at Govt. College Kodanchery (November 06, 2013)
13. “*Workshop for College Chemistry Students and Teachers*” jointly organized by Foundation for Capacity Building in Science (FCBS) and Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) at Residency Tower, Trivandrum (November 15-17, 2013)
14. “*Science Academics Lecture Workshop on Advances in Molecular Spectroscopy*” organized by Department of chemistry, Calicut University in association with Science Academies at the Seminar Hall Complex, Calicut University (November 20-21, 2013)
15. “*Science Academics Lecture Workshop on Advances in Molecular Spectroscopy*” organized by Department of chemistry, Calicut University in association with Science Academies at the Seminar Hall Complex, Calicut University (November 20-21, 2013)
16. “*Science Academics Lecture Workshop on Recent Developments in Physical Chemistry*” organized by Department of chemistry, St’ Joesphs College, Irinjalakkuda (January 31-February 01, 2014)
17. “*Current Trends in Chemistry*” organized by Department of chemistry, Govt. Arts & Science College, Kozhikode (February 12, 2014)

18. “*Advance Pedagogy Training Programme – Faculty Development Programme for FLAIR Members*” organized by Teaching Learning Centre, Indian Institute of Technology Madras, Chennai University (August 04-06, 2014)
19. “*NSS Programme Officers Annual Conference*” organized by the National Service Scheme (Technical Cell), at Vidya Academy of Science & Tech, Thrissur (August 9-10, 2014)
20. “*Awareness programme on Adulteration of Food*” organized by Department of chemistry, Calicut University at the EMS Seminar Complex, Calicut University (August 28, 2014)
21. “*Two day National Seminar on ‘Principles & Techniques in Chemistry’* held at Govt. Arts and Science College, Kozhikode, October 15-16, 2014.
22. “*NPTEL Kerala Workshop*” organized by Govt. College of Engineering, Kannur & Chinmaya Institute of Technology, Kannur at the Chinmaya Institute of Technology, Kannur (October 20-21, 2014)
23. “*Workshop for College Chemistry Students and Teachers*” jointly organized by Foundation for Capacity Building in Science (FCBS) and Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) at Residency Tower, Trivandrum (October 31-November 02, 2014)
24. “*ASAP - Summer Skill Skool - State Level Workshop for Programme Officers*” organized by ASAP and NSS Technical Cell at Conference Hall, Trans Tower, Vazhuthacaud, Thiruvananthapuram (December 17, 2014)
25. “*SYMBIOSIS '15 – Coffee Table Meeting of FLAIR*” organized by FLAIR, Govt. of Kerala at Seminar Hall, Science and Technology Museum, PMG, Trivandrum (June 15, 2015)
26. “*Computational Quantum Mchanics and Molecular Designing*” organized by PG & Research department of chemistry, St. Thomas College, Thrissur at Seminar Hall, St. Thomas College, Thrissur (September 28-29, 2015)
27. “*IT Tool Training Programme*” organized by FLAIR, Govt. of Kerala in association with ICT academy at St. Thomas Institute of Science and Technology, Trivandrum (November 12-13, 2015)
28. “*FLAIR Internship Impact Assessment*” organized by FLAIR, Govt. of Kerala at ASAP Annexe, Vazhuthacaud, Thiruvananthapuram (March 08, 2016)

29. *“Three day national seminar on Recent Advances in Chemistry”* organized by department of Chemistry, Govt. Victoria College Palakkad at Chemistry Seminar Hall, Govt. Victoria College, Palakkad (November 29 – December 01, 2016)
30. *“One day capacity building cluster workshop for internal mentors of WWS”* organized by the office of new initiatives in higher education at Govt. College, Chittur (January 17, 2017)
31. *“Three day national workshop on “Computing in Chemistry”* organized by department of Chemistry, Govt. Victoria College Palakkad at Chemistry Seminar Hall, Govt. Victoria College, Palakkad (November 16-18, 2017)
32. *“National Workshop on Statistical Data Analysis using R”* organized by department of statistics, Govt. Victoria College Palakkad at Computer lab, Govt. Victoria College, Palakkad (December 04-05, 2017)
33. *“Faculty enrichment workshop on “Quality Assurance and Accreditation in Higher Education”* organized by IQAC, Govt. Victoria College Palakkad at EDUSA room Govt. Victoria College, Palakkad (January 23, 25 & February 01, 2018)
34. *“Two day national seminar on “Electrochemistry: Fundamentals to application”* organized by department of Chemistry, Govt. Victoria College Palakkad at Chemistry Seminar Hall, Govt. Victoria College, Palakkad (October 22-23, 2018)
35. *“WWS cluster orientation programme”* WWS at Seminar Hall, Govt. Victoria College, Palakkad (October 27, 2018)
36. *“NPTEL workshop”* organized by IIT Madras at Farook College, Calicut (January 05, 2019)
37. *“Workshop on Material Characterization”* organized by department of Physics, Govt. Victoria College Palakkad at Chemistry Seminar Hall, Govt. Victoria College, Palakkad (October 14, 2019)
38. *“Two day national seminar on “Molecules to Supramolecules: A Synthetic Perspective”* organized by department of Chemistry, Govt. Victoria College Palakkad at Chemistry Seminar Hall, Govt. Victoria College, Palakkad (October 31 – November 01, 2019)
39. *“Three day national workshop on Mobile Application Development”* organized by department of Computer Science, Govt. Victoria College Palakkad at Computer lab, Govt. Victoria College, Palakkad (December 04-06, 2019)
40. *“Three day national workshop on Technology – an aid to teaching”* organized by department of commerce, Govt. Victoria College Palakkad at Seminar Hall, Govt. Victoria College, Palakkad (December 09-11, 2019)

41. “Two day online workshop on “Online Tools & Software for Remote teaching - Learning” organized by UGC-HRDC, JNTUH, Hyderabad, Telengana in online mode (April 24-25, 2020)
42. “Five day online faculty enrichment programme on Group Theory and its Applications in Chemistry” organized by Chemical Research Society of India and Govt. Arts College Thiruvananthapuram in online mode (November 09-13, 2020)
43. “Five day online faculty enrichment programme on Foundations of Stereochemistry” organized by Chemical Research Society of India and MES Keveeyam College Valanchery in online mode (November 16-20, 2020)
44. Training programme on “Online learning in Technical institutions using virtual labs” organized by Govt. Engineering College Kannur in inline mode (31 August -04 September 2021)

In-service courses attended

<i>Name of the Course</i>	<i>Duration and Date</i>	<i>Name of Agency</i>
Orientation Programme	28 days 05.06.14 – 02.07.14	UGC – Academic Staff College, University of Calicut
Good Learning	5 days 28.10.13 – 01.11.13	FLAIR, Govt. of Kerala
Online MOOC course (with e-certification) “MOOC on MOOC”	38 days 05.09.2014 – 12.10.2014	IIT Kanpur, Commonwealth of Education & Knowledge Incubation for Technical Education QIP, IIT Kanpur
FLAIR Refresher training programme Phase II	3 days, 06-07 August 2015	FLAIR, Govt. of Kerala
Refresher course in chemistry	21 days 15.07.2016 – 04.08.2016	UGC-HRDC Bharathiar University, Tamil Nadu
Online MOOC course (with e-certification) “Teaching with Moodle”	4 weeks 03.08.2016 – 31.08.2016	Online MOOC course with e- certification MOODLE headquarters
SWAYAM ARPIT Online Refresher Course in Chemistry for Higher Education Faculty	40 hours 01.11.2018 – 28.02.2019	SWAYAM, MHRD
Six days short term faculty	6 days	The Kerala State Higher Education

development programme (one week) course on “E-content Development”	23.05.2019 to 28.05.2019	Council
Online Short term Faculty Development Program on Nanomaterials Characterization techniques and Result analysis Methodology: Ideas, Innovations & Initiatives (Chemistry)	5 days 27.07.2020 to 31.07.2020	Shikshan Prasarak Santha’s S. N. Arts, D. J. Malpani Commerce & B. N. Sarda Science College, Sangamner, PMMMMNMTT of Ministry of Education.

Technical Experience

- (i) Setting up of Scanning Probe Microscope
- (ii) Investigation on the self-organization of organic molecules on surfaces using Scanning Tunneling Microscope (STM, AFM).
- (ii) Synthesis and characterization of organic chromophoric systems using modern spectroscopic methods such as NMR, IR, HPLC, GCMS, HRMS and MALDI.
- (iii) Study of photophysical processes of organic molecules in homogeneous solutions and solid state using steady-state techniques (experience in working with and maintaining various types of equipments including fluorescence spectrophotometers, UV-Visible-NIR spectrophotometer, and Glove box).
- (iv) Experience in using Gaussian Software for the calculation of energy minimized structures.
- (v) Adapt knowledge in using various softwares MS Word, Power Point and other MS Office Programs, Corel Draw, Chem-Draw, Origin and End-Note.
- (vi) Experience in course management software MOODLE.

References

1. **Prof. K. George Thomas**
Indian Institute of Science Education and Research,
College of Engineering Trivandrum Campus,
Trivandrum – 695 016, Kerala, India
Tel: +91-471-2597425
Email: kgt@iisertvm.ac.in
2. **Dr. Elsamma Joseph Arackal**
Retired Principal (Govt. Victoria College Palakkad) &
Collegiate Education Deputy Director (Kozhikode)
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Ramesh A. R.