

Faculty Profile



Name : J.WILLIAM CHARLES
Designation : ASSOCIATE PROFESSOR
Address : Department of Physics
Chikkanna Government Arts
College, Tirupur-641602.
Contact Number : 9442359399
Email ID : williamcharles1966@gmail.com
Date of Joining in Collegiate Education : 09.07.2009
Date of Joining in the Present College : 15.07.2010
Academic Profile :

Degree	Institute/College	University	Period
B.Sc., Physics	Gobi Arts College, Gobichettipalayam	Bharathiar University	1984-1987
M.Sc., Physics	N.G.M.College, Pollachi	Bharathiar University	1987-1989
M.Phil., Physics	St.Joseph's College, Tiruchirapalli	Bharathidasn University	1989-1990
B.Ed.,	Annamalai University, Chidambaram	Annamalai University	1990-1991
Ph.D., Physics	Chikkanna Government Arts College, Tiruppur.	Bharathiar University	2012-2021

Teaching Experience :

i) **Total** : 31 Years 8 Months
ii) **UG** : 30 Years 1 Months
iii) **PG** : 14 Years 7 Months

Name of the College	Position Held	Period
M.G.R.College, Hosur	Lecturer	1993-1995
Arulmigu Kalasalingam College of Engineering, Krishnankoil	Lecturer	1995-1996
Bannariamman Institute of Technology, Sathyamangalam	Lecturer Senior lecturer	1996-2001 2001-2009
Government Arts College, Dharmapuri	Assistant professor	2009-2010
Chikkanna Government Arts College, Tirupur	Assistant professor	2010-Till date

Honors and Research Awards : SSLC SCHOOL FIRST

Field of Interest :

- i) **Teaching** : PHYSICS
- ii) **Research** : NANO OPTICS
- iii) **Proficiency in instrumentation** : ---

Research Guidance

Guidance Number :21619/A2/2012

(If have more than one university, give them against university name)

S. No	M.Phil/ Ph.D	Name of the Student	Thesis Title	Completed/ ongoing
1	M.Phil.	Mr.D.Thiruarul	Effect of axial birefringence on tightly focused circularly polarized vortex beam	Completed

Funded Projects :---

Membership in Professional Bodies :

S. No	Name of the Professional Body	Membership Detail with Number

Research Publications :

- i) **Research Papers** : Annexure – I
- ii) **Book/Book Chapters** : A Concise Laboratory Manual on Engineering Physics- Vijay Nicole Imprints (P)Ltd.,Chennai. ISBN number 81-8209-054-7
- iii) **Patent** : ---

National and International Conferences : Annexure – II

- i) **Participated** : **06**
- ii) **Paper Presented** : **01**
- iii) **Poster Presented** : **02**

Conference/Seminars Organized : ---

Workshop attended : 03

Resource Person/Invited Lectures : 01

Faculty Development Programs Attended :

Course	University/Institute	Subject	Period
Orientation Course	University of Madras, Chennai	Intensive training programme	09.07.2009 to 05.08.2009
Refresher Course	Bharathiar University, Coimbatore	Physics	09.06.2011 to 29.06.2011
Refresher Course	University of Madras, Chennai	Nanoscience	17.11.2015 to 07.12.2015
Refresher Course	Bharathiar University, Coimbatore	Gender Studies	23.11.2018 to 13.12.2018
Refresher Course	Bharathiar University, Coimbatore	Physics	22.01.2020 to 04.02.2020
FDP	Coimbatore Institute of Technology, Coimbatore	Advanced Engineering Materials	03.11.2014 to 09.11.2014

Academic Activities :

i) **Subject Handled :** Electricity and Magnetism, Engineering Physics, Applied Physics , Materials Science, Applied Materials Science , Allied Physics for B.Sc.,(CSE) & B.E.S., Physics Laboratory UG and PG, Solid State Physics, Quantum Mechanics and Relativity, Heat and Thermodynamics, Allied Physics I, Allied Physics-II, Instrumentation-I, Mathematical Physics, Electromagnetic Theory,

ii) **Class Advisor** : B.Sc., 2021-2024 Batch
: M.Sc., 2019-2021 Batch
: B.Sc., 2016-2019 Batch

iii) **Special Coaching** : **Remedial Class**

iv) **Student Community Beneficial Activities**

v) **Co-curricular and extracurricular activities**

Professional Activities :

i) **Reviewer** ---

ii) **Board of Studies/UR** Member-BOS-PG-Physics 2017-2019

iii) **Examiner/Scrutiny** UG Board-Bharathiar University, Coimbatore
Question Paper Scrutiny Board (Odd Semester 2013) Vellalar College for Women (Autonomous)-Erode.

iv) **Senate/Syndicate** ---

National/ International Collaborators :---

Annexure – I

Research Publications

1. **J. William Charles**, K. Prabakaran, K.B Rajesh, Haresh M. Pandya Generation of sub wavelength super long dark channel using azimuthally polarized annular multi-Gaussian beam Optical and Quantum Electronics 46 (8), 1079-1086 (2014) <https://nanoient.org/upload/pdf/ENT%20144127.pdf>
2. **J. William Charles**, K. Prabakaran, R.Parimaladevi, K.B Rajesh, T.V.S Pillai, Tight focus of an azimuthally polarized and amplitude-modulated annular multi-Gaussian beam Optik-International Journal for Light and Electron Optics 125 (13), 3023-3026 (2014) <https://doi.org/10.1016/j.ijleo.2013.12.076>
3. **J. William Charles**, K.Prabakaran, K.B.Rajesh, Haresh M Pandya, A.Mohamed Musthafa, Generation of sub wavelength multiple focal hole segments using azimuthally polarized annular multi-Gaussian beam Optik-International Journal for Light and Electron Optics 125 (13), 3328-3330 (2014) <https://doi.org/10.1016/j.ijleo.2013.12.054>
4. V.Senthil Kumar, M.Udhayakumar, **J.William Charles**, K.B.Rajesh, Effect of primary spherical aberration on tightly focussed linearly polarized Loerntz Gaussian beam J. Environ. Nanotechnol. Volume 5, No.1(2016) pp.13-16 <https://nanoient.org/upload/pdf/ENT161184.pdf>
5. **J. William Charles**¹, M. Udhayakumar¹, K. B. Rajesh^{1*}, A. Mohamed Musthafa² Effect of Complex Phase Plate on Tight Focusing of Azimuthally Polarized Dark and Anti-dark Gaussian Beam (2019) <https://nanoient.org/upload/pdf/ENT193372.pdf>
6. **J. William Charles**, M. Udhayakumar, K. B. Rajesh, M. Lavanya, A. Mohamed Musthafa Generating a Multiple Focal Hole using a Phase-modulated Azimuthally Polarized Laguerre-Bessel-Gaussian Beam (2019) <https://doi.org/10.13074/jent.2019.09.193371>
7. D. Thiruarul, **J. William Charles**, M. Lavanya, K. B. Rajesh, Z. Jaroszewicz Generation of axial multi foci pattern (2022) DOI: <https://doi.org/10.21203/rs.3.rs-2144299/v1>
8. D. Thiruarul, **J. William Charles**, M. Lavanya, K. B. Rajesh, Z. Jaroszewicz Generation of light sheet focal patterns for light-sheet fluorescence microscopy via phase modulated radial and azimuthal variant vector beam (2022) DOI: <https://doi.org/10.21203/rs.3.rs-2215617/v1>
9. D. Thiruarul, **J. William Charles**, M. Lavanya, K. B. Rajesh, Z. Jaroszewicz Generation of axially splitted ultra-long multiple optical needles/optical tubes using generalized cylindrical vector Bessel Gaussian beam phase modulated by annular Walsh function filter 2022 <https://doi.org/10.1007/s11082-022-04037-4>

Annexure-II

Conferences/Seminars/Short courses/FDP/STTP/Workshop-Organized/Participated:

- Participated in the One-Day workshop on “Experiments with He-Ne Laser and Optical Fibers” Sponsored by Tamilnadu State Council for Science and Technology, Chennai held at REC, Trichy on 2nd March, 2002.
- Participated in the Three Days Short Term Course on “Advanced Material Processing-AMP 2003” during 7-9 May 2003 conducted by Bannariamman Institute of Technology, Sathy.
- Successfully completed the course on “ Materials Science ” at College of engineering, Guindy, Anna University, Chennai from 8th to 12th December, 2003.
- Conducted a State Level student Symposium “ SCIENTIST 2K4 ” on Science and Technology at Bannariamman Institute of Technology, Sathy on 18th Feb 2004.
- Organized a National level seminar “ENVIRON-TECH-2K4” on Recent Trends in Pollution Control and Environmental Conservation at Bannariamman Institute of Technology, Sathy during 15th and 16th July 2004.
- Participated One Day seminar on “ Emerging Trends in Materials Technology ” on 24th July 2004 organized by Department of Physics, S.R.M Engineering College (Deemed University), Chennai.

- Participated in the National Conference on Recent Trends in Materials Science and Technology (NCRTMST 2005) during 10th to 12th Aug 2005 held at VIT, Deemed University, Vellore-14
- Participated in the One-Day workshop on “Research Methodology for College Teachers” on 03 December 2005 organized by Educational Technology Centre, in association with ISTE, P.S.G. Tech Chapter, P.S.G College of Technology, Coimbatore-4
- Participated in the UGC Sponsored Regional Level “Seminar on Crystal Growth, Characterization and Application” (SOCCAA)-05 held on 30th & 31st December 2005 at P.S.G. College of Arts & Science, Coimbatore-641 014.
- Successfully completed a training course on Quality System Awareness ISO 9001:2000 during 10th -11th August 2001 offered by Zandig-TQM Solutions Private Limited, Bangalore-71.
- Successfully completed a training course on Continuous Improvement Process during 21st -22nd December 2001 offered by Zandig-TQM Solutions Private Limited, Bangalore-71.
- Successfully completed a training course on Internal Quality Audit ISO 9001: 2000 during 9th - 10th January 2002 offered by Zandig-TQM Solutions Private Limited, Bangalore-71.
- Attended the National Level Seminar “QUANTA’07” on Spectroscopy of Nanoparticles organized by Kongunadu Arts and Science College, Coimbatore during 4th and 5th Jan 2007.
- Acted as a judge for paper presentation session in the “ Spectra 07” at P.K.R. College (Arts & Science) for women, Gobichettipalayam on 8th Jan 2007.
- Attended the One-Day Sensitization-Cum-Awareness Programme on “Technology Information Facilitation” on 12th Dec 2007 at Bannariamman Institute of Technology, Sathy.
- Presented a paper at the 37th National Symposium of Optical Society of India held at Pondicherry University, Puducherry from 23rd-25th January 2013
- State level Seminar Nano technological treatment of dyeing unit effluents, Chikkanna Government Arts College, Tiruppur. 07.03.2013 to 08.03.2013
- Attended the COMSOL Conference 2013 held on October 17-18,2013 at Bangalore.
- Participated in UGC sponsored One Day Seminar on NAAC Benchmarking Pointers Organised by Internal Quality Assurance Cell(IQAC), Chikkanna Government Arts college, Tiruppur-641602, on 10th Jan 2015
- Participated in the One day National Seminar on “ Research Publication and Evaluation: Writing Research Papers, Citation Analysis and Plagiarism” organized by the college Library, Chikkanna Government Arts College, Tiruppur on 7th October 2016.
- Participated in National Conference on Emerging Sensor Devices, Materials and Technologies (NCESDMT-2017) during 19th and 20th Jan 2017 , Department of physics, Chikkanna Government Arts College, Tiruppur.

- Participated and presented a poster in International Conference on Advanced Materials for Technological Applications-ICAM 18, organized by the Departments of Physics & Chemistry, PSGR Krishnammal College for Women, Coimbatore during 3rd- 5th Jan 2018
- Participated and delivered an oral presentation in ISCAM-2018, University of Madras during 26 & 27 Mar 2018.
- Chaired a session in the National Seminar- NSNST-2019, organized by Department of Physics, Chikkanna Government Arts College, Tiruppur-641602 on Feb 01, 2019.
- TNEA-Anna University CV Officer 2019-2020
- IAPT-Observer-NSEJS-17th Nov 2019
- Organising Committee member - TANSICHE Sponsored National Conference-NCPST-2020 - 5th March 2020
- Organising Committee member - "International Webinar Lecture Series on Laser, Optics & Photonics" 11-13 June 2020
- Organizing Committee Member-Online webinar on " VETTRI UNAKKULLA"-03.07.2020.
- Participated in the Webinar Workshop on Effective Online Teaching on 4th August 2020 conducted by Presidency College, Chennai-600005.
- Organising Committee Member-IQAC-Online webinar on " Yoga Therapy-How it can help you"-10.08.2020
- TNEA-Anna University CV Officer 2020-2021
- IQAC-National Science Day Celebrations-26/02/2021
- Served as Presiding Officer in Tamil Nadu legislative assembly election 2021
- Judge -Science Exhibition
- TNEA-Anna University CV Officer 2021-2022
- Evaluator-29th National Children's Science Congress 2021 on 07-12-2021,
- Acted as judge in Tiruppur District Level Science Exhibition- Inspire Award Function 2012 held on 06/07/2012 at St.Joseph School, Kangayam road, Tiruppur.
- Resource person for two days (02.09.2013 to 03.09.2013) training programme on “ Content Enrichment to P.G. Teachers in Physics” of Govt. and Aided Hr.Sec.Schools in Tiruppur District, Tamilnadu held at Jaiva Bai Mpl Girls Hr.Sec.School Tiruppur.
- Acted as judge in Science Exhibition for Govt and Aided High and Higher secondary schools held on 30/10/2014 at Govt Girls Higher Secondary School, Avinashi, Tiruppur.
- Acted as judge in Science Exhibition held on 31/10/2014 at Govt Higher Secondary School, Iduvampalayam, Tiruppur-641687.
- Acted as judge in Tiruppur South – Zonal Level Science Exhibition held on 13/10/2015 at Sre Ramakrishnaa Vidhyalaya Matric Higher Secondary School, K.Chettipalayam, Tiruppur-641608.

- Acted as District Level Science Exhibition judge held at St,Joseph's School, Kangayam road, Tirupur on 15.10.2019.
- BOS-PG-PHYSICS MEMBER –BHARATHIAR UNIVERSITY- PERIOD-FROM 01.01.2017 TO 31.12.2019
- BOS-PG Attended the meeting of the Board of Studies in PHYSICS-PG held on 05-06-2017 in Bharathiar University, Coimbatore-46
- BOS-PG Attended the meeting of the Board of Studies in PHYSICS-PG held on 20-04-2018 in Bharathiar University, Coimbatore-46
- BOS-PG Attended the meeting of the Board of Studies in PHYSICS-PG held on 04-03-2019 in Bharathiar University, Coimbatore-46
- **Departmental Examinations-May 2015**
The Accounts Test For Executive Officers-(Test Code No.114) AUGUST 7, 2015 Tamil Nadu Public Service Commission Bulletin Extraordinary page 1975