

Staff Profile

1. Name : **V.GOKULAKRISHNAN**
2. Gender : Male
3. D.O.B : 20.05.1979
4. Educational Qualifications : M. Sc., M. Phil., Ph.D.,



S. No.	Degree	College / University	Year of passing	Subjects	Grade/ Percentage
1	Ph.D.	Bharathidasan University	2013	Physics	-
2	M.Phil.	Bharathidasan University	2005	Physics	First
3	M.Sc.	Govt. Arts College (Autonomous), Kumbakonam – 612 001	2002	Physics	67.00%
4	B.Sc.	Govt. Arts College (Autonomous), Kumbakonam – 612 001.	1999	Physics	69.00%

5. Total Teaching Experience

Sl. No.	Name of the Institution	From	To	YY//MM/DD
1	ARC Visvanathan Arts And Science College	DEC 2004	JAN. 2006	1 Years
2	Balaji Institute Of Engineering & Technology	OCT 2013	May 2013	8 months
3	A.V.C. College (Autonomous), Mannampandal – 612 001.	12.10.2013	Till Date	05/00/12

6. Total Teaching Experience at A.V.C. College (specify SF/Aided) :

Sl. No.	Institution	From	To	Subjects Taught	Remarks
1	Aided	12.10.2013	Till Date	Physics	-

7. Orientations / Refresher courses attended : Total 1

Sl. No.	O/R	Title of the course	From	To	Name of the Institution and Place
1.	O	Orientation Course	05.05.2015	.06.2015	Academic staff college, Bharathiar university - Coimbatore

8. Seminars / Workshop/Conferences attended: 9

- Workshop on “Thin films Technology” on 24-25 March 2006 at Department of Physics National Institute of Technology, Tiruchirappalli.
- Workshop on “Instrumental methods of analysis held on sophisticated test and Instrumentation” centre (STIC) Kochi between 9th and 13th October 2006.
- “IUAC acquaintance progarmme on Accelerator Based Research” held on 2006, jointly organized by IUAC, New Delhi and Kongunadu Arts and Science College Coimbatore.
- Workshop on “Nanomaterials: properties and Applications” held on 2nd and 3rd December 2006 oragainzed by the National Institute of Technology Tiruchirappalli.
- Participate on 18th AGM materials Research society of India (MRSI) and Theme Symposium held at National Physical Laboratory New Delhi during 12-14th ebruary 2007.
- National seminar on “Recent Advances In materials Science” held on 15 and 16th February 2008 at Cauvery college for women Trichy.
- National seminar on “Non destructive Evaluation” During December 10-12, 2009, held at BHEL & NIT Tiruchirappalli, India.
- School and conference on “Emergent properties and Novel behavior at the Nanoscale” during April 19 to 27th 2010, JNCASR, Jakkur, Bangalore.
- Conference on “Swift heavy ions in Materials Engineering and Characterization S HIMEC 2010” during October 6-9, 2010 at Inter University Accelerator Centre, New Delhi.
- Attended the National Conference on “Green Chemistry And Sustainable Environment (GCSE-2016)”, organized by the Department of Chemistry, B.S Abdur Rahman University Vandalur Chennai on 2nd & 3rd August 2016.

- Attended the UGC Aided Seminar on “Celebrating International Year of Crystallography-2014”, organized by the Department of Physics, A.V.C. College (Autonomous), Mannampandal, Mayiladuthurai on 11th October 2014.
- Participated the UGC sponsored one day Workshop on “Scientific Writing” organized by Internal Quality Assurance Cell (IQAC) and Research & Development Cell, A.V.C. College (Autonomous), Mannampandal, Mayiladuthurai on 11th October 2014.
- Attended the workshop on “Faculty Refreshment Programme” organized by Internal Quality Assurance Cell (IQAC), A.V.C. College (Autonomous), Mannampandal, Mayiladuthurai on 24th January 2015.
- Participated the Mini Winter School on “ Ultracold Atoms UCAT 2014” organized by Government College For Women(Autonomous), Kumbakonam on 22-24 December, 2014.
- Attended the workshop on “ Advances in Nanotechnology: Fabrication, Processing and Applications” organized by Centre for Nanoscience and Nanotechnology. School of Physics, Bharathidasan University Tiruchirappalli on 28th February and 1st March 2014.
- Attended the national conference on “Current Advancement in Physics” organized by Department of Physics St.John’s College Palayamkottai on 3rd & 4th February 2017.
- Attended a one day Workshop on “Atomic Force Microscopy” at Central University at Thiruvarur on 2nd August 2018.

9. Training programmes attended : Number 1

10. Research Guidance (completed and registered) :

Sl. No.	Degree	Completed No.	Ongoing No.	Under process
1	M.Phil.	-	1	-
2	Ph.D.	-	-	-

11. **Journal** Number :16

1. High near-infrared transparent molybdenum-doped indium oxide thin films for nanocrystalline silicon solar cell applications
S. Parthiban, **V. Gokulakrishnan**, K. Ramamurthi, E. Elangovan, R. Martins, E. Fortunato, R. Ganesan Solar Energy Materials & Solar Cells 93 (2009) 92–97.

2. Effect of swift heavy ion irradiation on structural, optical and electrical properties of Cd₂SnO₄ thin films
R. Kumaravel, **V. Gokulakrishnan**, K. Ramamurthi, Indra Sulania, D. Kanjilal, K. Asokan, D.K. Avasthi
Nuclear Instruments and Methods in Physics Research Section B: 268 (2010) 2391-2394.
3. Effect of annealing on the electrical, optical and structural properties of cadmium stannate thin films prepared by spray pyrolysis technique,
R. Kumaravel, V. Krishnakumar, **V. Gokulakrishnan**, K. Ramamurthi, K. Jeganathan
Thin Solid Films 518 (2010) 2271-2274.
4. Investigation on the effect of Zr doping in ZnO thin films by spray pyrolysis
V. Gokulakrishnan, S. Parthiban, K. Jeganathan, K. Ramamurthi
Applied Surface Science, 257 (2011) 9068.
5. Structural, Optical, and Electrical Properties of Nb-Doped ZnO Thin Films Prepared by Spray Pyrolysis Method
V. Gokulakrishnan, S. Parthiban, K. Jeganathan, K. Ramamurthi
Journal of Electronic Materials, 40 (2011) 2382.
6. Investigation of molybdenum doped ZnO thin films prepared by spray pyrolysis technique
V. Gokulakrishnan, S. Parthiban, K. Jeganathan, K. Ramamurthi
Ferroelectrics, 423 (2011) 126.
7. Investigations on the structural, optical and electrical properties of Nb-doped SnO₂ thin films
V. Gokulakrishnan, S. Parthiban, K. Jeganathan, K. Ramamurthi
Journal of Material Science, 46 (2011) 5553.
8. Effects of O⁷⁺ swift heavy ion irradiation on indium oxide thin films
V. Gokulakrishnan, S. Parthiban, E. Elangovan, K. Ramamurthi, K. Jeganathan, D. Kanjilal, K. Asokan, R. Martins, E. Fortunato
Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, 269 (2011) 1836.
9. Effect of vacuum annealing on the structural, optical and electrical properties of spray deposited Ga doped ZnO thin films
V. Gokulakrishnan, V. Purushothaman, E. Arthi, K. Jeganathan, K. Ramamurthi
Physica status solidi (a) 209 (2012) 1481.
10. Investigation of O⁷⁺ swift heavy ion irradiation on molybdenum doped indium oxide thin films
V. Gokulakrishnan, S. Parthiban, E. Elangovan, K. Jeganathan, K. Asokan, R. Martins, E. Fortunato, K. Ramamurthi
Radiation Physics and Chemistry 81 (2012) 589.
11. High mobility and visible-near infrared transparent titanium doped indium oxide produced by spray pyrolysis
S. Parthiban, **V. Gokulakrishnan**, E. Elangovan, G. Goncalves, K. Ramamurthi, R. Martins and E. Fortunato
Thin solid films 524 (2012) 268.

12. Growth and Structural Properties of ZnO and Zr Doped ZnO Nanostructures by Low Cost Spray Pyrolysis Technique

V Gokulakrishnan, K Jeganathan, K Ramamurthi
ASIAN JOURNAL OF CHEMISTRY 25,(2013) S209.

13. Preparation and characterization of lead doped zinc oxide thin films

Il Valan, **V Gokulakrishnan**, A Stephen, K Ramamurthi
SOLID STATE PHYSICS: PROCEEDINGS OF THE 57TH DAE SOLID STATE PHYSICS
1512 (2013) 662.

14. Controlled and Selective Area Growth of Monolayer Graphene on 4H-SiC Substrate by Electron-Beam-Assisted Rapid Heating

P Dharmaraj, K Jeganathan, **V Gokulakrishnan**, P Sundara Venkatesh, ...
The Journal of Physical Chemistry C 117 (37),(2013) 19195.

12. Vibrational [FT-IR, FT-Raman] analysis, NMR and mass – Spectroscopic investigation on 3,6-Dimethylphenanthrene using computational calculation

Journal of Molecular Structure, Volume 1099, 5 November 2015, Pages 463-481
M. Manzoor Ali, Gene George, S. Ramalingam, S. Periandy, **V. Gokulakrishnan**

13. Spectroscopic investigation and chemical properties analysis on anticancer compound; $\alpha,\alpha,\acute{\alpha},\acute{\alpha}$ -Tetrabromo-p-Xylene with computational analysis Original Research Article

Journal of Molecular Structure, Volume 1106, 15 February 2016, Pages 37-52
M. Manzoor ali, Gene George, S. Ramalingam, S. Periandy, **V. Gokulakrishnan**

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