

Bio-Data

Year 2020

1 General Information

Name	Dr. George James T
Address Residential	Kanjirakombil, karikode, Thodupuzha East P O, Iduuki , Kerala
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Phone No	04862228502
Designation	Associate Professor & HOD
Department	Physics, Nirmala college, Muvattupuzha
Area of Specialization	Nano Device Simulation

2 Academic Qualification:

Exam Passed	Board/ University	Subjects	Year	Division
MSc	Pondicherry University	Physics	1990	
MPhil	Pondicherry University	Condensed Matter Physics	1991	
PhD	Mahatma Gandhi University	Nano Device Simulation	2012	

3 Research Experience and Training:

Research Stage	Title of Work/ Theses	University where the work carried out
MPhil	Lattice Dynamics	Pondicherry University
PhD	Nano Device Simulation	Mahatma Gandhi University

4 Membership in Academic Bodies

Sl.No.	Activity	Period
1	Member, Academic Council	M G University Kottayam 2014 - 17
2	Member,BOS (UG)	M G University Kottayam 2014 -17
3	Member of Special Vigilance Squad of Teachers, Idukki Zone,	M G University Kottayam, 2012-14
4	Member of Subject expert panel for the recruitment of College Lecturers in Physics,	M G University Kottayam 2013 -17
5	Member of Expert committee for review CBCSS Pattern,	M G University Kottayam 2013-14
6	General Convenor Carrier oriented Add-On course	M G University Kottayam 2013 onwards

5 Research Publications

- George James T, Saji Joseph and Vincent Mathew, "Effect Of Channel Layer Doping On The Performance Of Nanoscale DG MOS- FETs," Proce. Intl. Conf. On Emerging Trends In Electronic And Photonic Devices And Systems, Electro 2009, Bhu, pp. 50-54, 2009.
- George James T, Saji Joseph and Vincent Mathew, "Reduction of o-state Leakage Current on Fully Depleted DG-MOSFETs," in Proce. International Conference on Emerging Trends in Electronic and Photonic Devices and Systems (Electro 2009), Bhu, pp.151-154.
- T. George James, Saji Joseph, and Vincent Mathew, "Simulation of High- Dielectrics in Counter Doped Double Gate Metal Oxide Semi- conductor Field Effect Transistors," Journal of Nanoelectronics and Optoelectronic, vol.5, pp. 43-49, April 2010.
- George James T, Saji Joseph and Vincent Mathew, "Effect of Counter- Doping Thickness on Double-Gate MOSFET Characteristics," Journal of Semiconductor Technology and Science, vol.10, no. 2, pp. 130-133, June 2010.
- George James T, Saji Joseph, and Vincent Mathew, "Short Channel Effects In Counter Doped Nanoscale Double-Gate Mosfets," Research Lines, vol.3, no.1, pp. 19-26, June 2010.

6. George James T, Saji Joseph, and Vincent Mathew, "Structural Optimization Of Si Channel Thickness in Sub 25 nm Depleted DG- MOSFETs," Beselius Reseachar, vol.1, no.2, pp. 178-186, June 2010.
7. George James T, Saji Joseph and Vincent Mathew, "Simulation of Short Channel Eects in Double-Gate MOSFETs for Nanoscale De- sign," International Conference on Synthesis, Characterization, Con- solidation and Modeling of Nanomaterials (ICON 2010),"Coimbatore, 5-6 March 2010.
8. George James T, Saji Joseph and Vincent Mathew, "Reduction of Short Channel Eects in Nanoscale MOSFETs with High- Di- electrics," International Conference on Nanomaterials: Synthesis, Characterization and Application (ICN)," MG University, 27-29 April 2010.
9. George James T, Saji Joseph and Vincent Mathew, "The Inuence of Metal Gate Work Function on Short Channel Eects in Atomic layer Doped DG MOSFETs," Journal of Electron Devices, Vol. 8, pp. 310-319, 2010.
10. Saji Joseph, T. George James and Vincent Mathew, "Threshold Voltage Control through Layer Doping of Double Gate MOSFETs", Journal of Semiconductor Technology and Science , vol.10, No.3, pp. 240-250, September, 2010.
11. T. George James, Saji Joseph, and Vincent Mathew, "Inuence of Channel Layer Doping on Nano Double Gate MOSFETs", Proc. International Conference on Nanomaterials & Nanotechnology (NANO-2010), Coimbatore, India, Macmillan Publication (ISBN 023-033-193-9:9 780230 331938) ,13 - 16, December 2010.
12. T. George James, Saji Joseph, and Vincent Mathew, "Transport Characteris- tics and Subthreshold Behavior of High- Dielectric Double Gate MOSFETs with Parallel Connected Gates", Journal of Electron Devices , vol.16, pp. 1363-1369, December, 2012.

6 Teaching Experience:

Total Teaching Experi- ence (as on 27-1-2020)	26 years
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Teaching Methodology

Interactive methods for teaching are adopted. For eg. disscussion, Question-anwser, power point presentaions methods are used.

Laboratory Experiment: Guiding students to Overall devlopment of skill, accuracy and understanding subjects are improvised by computer simulations.

Evaluation Methods : Continous evaluation method adopted

Preparation of resource material : Preparation of question bank, Preparation of teaching plan as per syllabus, preparation of teaching notes for newly introduced topics from journals, books and internet.

Remedial Teaching / Students Counselling: Special coaching assitance given to academically backward students.

7 Involment of Academic activities

Coordinated the starting, course design and curriculum offering of a Add on Course in Electronic equipment maintenance in the Dept of Physics, Nirmala College, Muvattupuzha

Coordinated the course design and curriculum offering of a Add on Course in ROBOTICS and AI association with dcs robotics, ekm in the Dept of Physics,Nirmala College, Muvattupuzha 2020

coordinated GANDHI GLOAL SOLAR YATRA 2019 and HANDS-ON training for solar led lamp assembling given to around 700 students near by schools, Muvattupuzha in the physics department laboratory.

Signature of the Faculty

Dr George James T
(Signature of HOD)