

Faculty Profile



1. Name : M.V. SOMESWARARAO.
2. Date of Birth : 18-05-1982
3. Designation : Associate Professor & Head
4. Department : Engineering Physics
5. Date of Joining in SRKREC: 18-10-2007
6. Contact No : 8309583299, 9963217092.
7. Email ID : somesh.phy@gmail.com
8. Total Experience : Teaching :17years
Research: 06years
9. Area of Specialization: Material Science & Nano Materials
10. Unique ID : 1-471584521
11. Qualified in : **APSET-2012 (PHYSICS)**

A. Educational Details

S.No	Name of the Examination/ Degree	Subjects	Name of the school / college/ University	Year of Award	Class& % of Marks
1	Ph.D.	PHYSICS	Andhra University	November,2020	67
2	M.Phil.	PHYSICS	GITAM University.	April,2013	67
3	M.Sc.	PHYSICS	Acharya Nagarjuna University.	May, 2007	62
4	B.Sc.	M.P.C.	Andhra University.	April ,2003	75

Employment Details:

S.No	Name and Address of Institution / Office	Post Held	Period		Total Period in each cadre
			From	To	
1	SRKR Engineering College Department of Engineering Physics.	Associate Professor &HOD of Engineering Physics	2007	Till date	17years

B. Research Details:

PhD. Thesis title: "FABRICATION AND CHARACTERIZATION OF OPTIMIZED ELECTROSPUN

TITANIUM DIOXIDE AND COMPOSITE NANOFIBERS FOR ENERGY

APPLICATIONS"

Guide Name & Affiliation: **Dr.P.S.V. SUBBARAO.**

Associate Professor, Department of Science and Technology.
Andhra University, Visakhapatnam.

M.Phil. Thesis title: **"STUDY OF STRUCTURAL, DI-ELECTRIC AND ELECTRICAL PROPERTIES OF Cu-DOPPED BARIUM TITANATE CERAMICS"**

Guide Name & Affiliation: **Dr.K.V. RAMESH.**

Professor, Department of Science and Technology

GITAM University, Visakhapatnam

Scopus ID :

<http://www.scopus.com/inward/authorDetails.url?authorID=57203880202&partnerID=MN8TOARS>

ORCID ID : <https://orcid.org/0000-0003-4365-1412>

Google Scholar link :

<https://scholar.google.com/citations?user=VWlh8ngAAAAJ&hl=en>

Research Area(s)/Interests: **Material Science and Nanomaterials.**

1. Details of Research Publications & Conferences:14

1. Electro spun composite nanofibers prepared by varying concentrations of TiO₂/ZnO solutions for photo catalytic applications.

M.V. Someswararao, R.S. Dubey, P.S.V. Subbarao.

Journal of Photochemistry and Photobiology 6 (2021) ISSN 2666-4690, **Elsevier.**

2. Electro spinning process parameters dependent investigation of TiO₂.

M.V. Someswararao, R.S. Dubey, P.S.V. Subbarao, Shyam singh.

Results in Physics 11(2018) 223-231, ISSN:2211-3797, **Elsevier.**

3.Experimental studies of Barium titanate nanofibers prepared by Electro spinning method.

M.V. Someswararao, R.S. Dubey.

NANOSYSTEMS: PHYSICS, CHEMISTRY, MATHEMATICS, 2019,10 (3), P.350-354.

ISSN:2220-8054.

4. Experimental Investigation of Electro spun Titania Nanofibers

An Applied Voltage Influence.

M.V. Someswararao, D. Pradeep R.S. Dubey, P.S.V. Subbarao.

Materials Today: Proceedings 18 (2019)384-388 ISSN:2214-7853, **Elsevier**.

5. Fabrication and characterization of electro spun barium titan ate and polyvinyl pyridine composite nanofibers.

Adavi Bala Krishna, M.V. Someswararao, R.S. Dubey, P.S.V. Subbarao.

Materials Today: Proceedings 18 (2019) 2142-2146. ISSN:2214-7853, **Elsevier**.

6.Effect of Copper doping on Structural, Dielectric and DC electrical Resistivity properties of BaTiO₃.

M.V. Someswararao, K.V. Ramesh, M.N.V. Ramesh, B. Srinivasarao.

Advances in Materials Physics and Chemistry, 2013, 3,77-82. ISSN:2162-531X.

7.Presented one conference paper in “2nd International Conference on Nano Science and Engineering Applications-2018” Organized by JNTUH and QATAR University.

M.V. Someswararao, R.S. Dubey.

8. Photonic band gap analysis of 1D TiO₂/SiO₂ photonic crystals using plane wave method for thin film solar cell applications.

R.S. Dubey, M.V. Someswararao, Sigamani Saravanan.

IOP Conference Series: Materials Science and Engineering. 1263 (2022) 012007,

ISSN:1757-8981.

9. Rare-Earth doped Material platforms for Quantum Nano photonics Process.

Published on 14-10-2022, Indian Patent Publication: 202221056581(Reference Number)

10. Effect of Fe doped and capping agent – Structural, optical, luminescence, and antibacterial activity of ZnO nanoparticles.

YBS Rao, D.Parajuli, MVS Rao, A.Ramakrishna, K.Ramanjaneyulu

Chemical Physics Impact 7,100270.

11. Influence of Photonics and Plasmonics Effect on Ultrathin Amorphous Silicon Thin Film Solar Cell.

S. Saravanan, R.S. Dubey, S. Srikanth, D. Jagadeeswara rao and M.V. Someswararao

Journal of Physics: Conference Series

Volume:2765, Issue:1, Pages:012019, Publisher: IOP Publishing

DOI 10.1088/1742-6596/2765/1/012019

12. Innovations in MXenes for Photo catalysis

Sigamani Saravanan, M.V. Someswararao

Book: MXenes, 1st Edition, First Published 2024, Imprint: CRC Press

Pages 15 (114-128), E-Book: ISBN9781003366225.

13. Sol-Gel Spin Coated Transparent Single-TiO₂ and SiO₂ Thin Film on Glass for Opto-electronic Applications.

Sigamani Saravanan, M.V. Someswararao and V. Swaminadham.

Asian Journal of Chemistry; Vol. 36, No. 4 (2024), 885-888. Year-2024

14. Structural, Optical and hardness features of Copper Sulphate crystallites for Optical applications.

M.V. Someswararao, Helen merina albert, T. Rajani, D. Neelima Patnaik

Asian Journal of Chemistry; Volume 36, Issue 12, Pages 2899-2904. Year-2024.

2. Details of Workshops/ FDP/ Training Programs: 12

S.No	Name of the Programme	Duration	Organized by
1	Work shop on Nanotechnology for Clean Energy, Conducted by I.I.T.MADRAS.	2 nd June to 14 th June -2008	I.I.T. MADRAS.
2	Workshop on Introduction to Research Methodologies, Conducted by I.I.T.BOMBAY.	25 th June to 4 th July 2012.	I.I.T.BOMBAY.
3	AICTE- STTP on Inculcating Human values in Technical Education.	23 rd June to 27 th June 2008	S.R.K.R. Engineering College
4	University and PG Teachers Training Program in PHYSICS. Conducted by IISC Challakere.	19 th June 2017 to 9 th July 2017.	MHRD Govt.of India And IISC Challakere.
5	One week FDP on Advanced Research Traits in Materials and Design of Mechanical Systems.	22-27 july,2020	VIGNAN University.
6	One-week online workshop on "Nanotechnology and Nanomaterials for Interdisciplinary Applications" NNIA-2020.	27-31 of July,2020.	MANIT. BHOPAL
7	One week International FDP on "Latest Trends in Engineering, Science and Technology: Nanomaterials" LIET-2020.	10-15 of August 2020.	Lendi Institute of Engineering & Technology. Vizianagaram.
8	National Webinar on Emerging Trends in Mathematical Sciences And Engineering Applications.	6-7 of Jan,2021.	A.K.N.U. Rajahmundry.

9	FDP on Nanomaterials by Design for Energy Applications. on 22-26 of Feb, 2022.	22-26 th of Feb,2022	MHRD and GIAN,JEC .
10	Attended to 3-day FDP on Inculcating Universal Human values in Technical Education organized by AICTE at SRKREC.	31 st August to 2 nd September 2023	AICTE with SRKREC
11	A five day online faculty development program on “Sustainable Nanomaterials Engineering for Environmental Applications”	22 nd April – 26 th April 2024	Indian Institute of Technology Guwahati
12	One week virtual international faculty development program on ‘Fundamentals and Advances of Magnetic Materials.	20 th May to 24 th May 2024	Chaitanya Bharathi Institute of Technology, Hyderabad

3. Any Other information:

Administrative activities: Working as NBA, NAAC, Coordinator of the Department of Physics from 2016-2023.

Ratified as Assistant Professor in Physics from Andhra University in 2014.

Ratified as Assistant Professor in Physics from JNTU-Kakinada in 2017.

Ratified as Associate Professor in Physics from JNTU-Kakinada in 2022.

Taken Charge as Head of the Department of Engineering Physics since 1st September,2023.

Personal Information

Father's Name: Moganti Vithal Dasu

Mother's Name: Moganti Varalakshmi

Marrital Status: Married.

Permanent Address : Door No: 5-89,
Vinayaka Street,
Mogalu Village. PIN-534209.
West Godavari.dist-A.P.