

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 :16years**
Research: 06years
9. **Area of Specialization** : **Solid State Physics & Nano Materials**
10. **Unique ID** : **1-471584521**
11. **Qualified in** : **APSET-2012**

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	Associate Professor &Head of the Department of Engineering Physics	2007	Till date	16years

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:

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. Sol-Gel spin coated transparent single TiO₂ and SiO₂ thinfilm on glass for Opto-electronic applications.

M.V. Someswararao, Sigamani Saravanan.

Paper presented in the International Conference MECAP-2023 in S.R.K.R.E.C. on

Sep, 25th -26th, 2023.

12.Submitted Chapter IX: “Innovation in MXene for Photo catalysis.” To

Book Title: MXenes: From Research to Emerging Applications. CRC Press.

M.V. Someswararao, Sigamani Saravanan

13. Antibacterial, antimicrobial and Environmental applications of TiO₂ Nanoparticles.

Submitted to Nano world Journal which is under review.

2.Details of Conferences/ Workshops/ FDP/ Training Programs/ STTPs.

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	AICTE with SRKREC

3. Any Other information:

(Administrative activities): Working as NBA, NAAC, Coordinator Since 2016.

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,
Mogallu Village. PIN-534209.
West Godavari.dist-A.P.