



JSS Mahavidyapeetha

**JSS Academy of Technical Education**

Dr. Vishnuvardhan Road, Srinivasapura post Bangalore 560060


www. Jssateb.ac.in



## FACULTY PROFILE

Department: Engineering Physics

### 1. Personal Details

NAME	Dr. NITYANAND CHOUDHARY	
DEPARTMENT	Engineering Physics	
DESIGNATION	Professor	
PHONE	+91 9899404999	
EMAIL ID	<a href="mailto:hodphysics@jssateb.ac.in">hodphysics@jssateb.ac.in</a>	
Date of Joining (JSSATEB)	01-01-2016	

### 2. Experience

Total Experience in Years	Teaching: 28 Years	Industry: Nil	Research: 01 year
---------------------------	--------------------	---------------	-------------------

### 3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B.Sc	PME	1993	Saharsa College Saharsa	LNMU, Darbhanga
M.Sc.,	Electronics	1995	Saharsa College Saharsa	BNMU, Madhepura
Ph.D.	Amorphous Semiconductor Physics	2007	HBTI Kanpur	UPTU, Lucknow

### 4. Research & Publications

Papers Published in Web of Science indexed Journals	International: 12	National:
Papers Published in SCOPUS indexed Journals	International: 9	National:
Papers Published in other Journals	International: 0	National:
Papers Presented in Conferences / Symposium	International:-4	National: 2
Books / Book chapters Published	Name of the book: Modern Optics Publisher: Athena Publication, London Year of Publication: Under process	
	Name of the book: Applied Engineering Physics Publisher: Pearson Year of Publication:2012-13	
	Name of the book: Laser System and Application	

	Publisher: PHI , New Delhi Year of Publication:2011
	Name of the book: Applied Engineering Physics II ( for JNTU, Kanikada <b>Recommended as Text book</b> Publisher: Acme Learning an associate of Excel Book Publication. Daryaganj, New Delhi Year of Publication:2011
	Name of the book: Applied Engineering Physics II ( for JNTU, Kanikada <b>Recommended as Text book</b> Publisher: Acme Learning an associate of Excel Book Publication. Daryaganj, New Delhi Year of Publication:2011
	Name of the book: Lab Manual Vol II <b>Recommended as Text book</b> Publisher: Acme Learning an associate of Excel Book Publication. Daryaganj, New Delhi Year of Publication:2011
	Name of the book: Lab Manual Vol I <b>Recommended as Text book</b> Publisher: Acme Learning an associate of Excel Book Publication. Daryaganj, New Delhi Year of Publication:2011
	Name of the book: Perspective of Engineering Physics II (for UPTU) Publisher: Acme Learning an associate of Excel Book Publication. Daryaganj, New Delhi Year of Publication:2009
	Name of the book: Perspective of Engineering Physics I (for UPTU) Publisher: Acme Learning an associate of Excel Book Publication. Daryaganj, New Delhi Year of Publication: 2009

## 5. Research Guidance

PhD Guide/ Give field & University	Yes, Amorphous Semiconductor Physics	Visvesvaraya Technological University:
PhDs / Projects Guided M.Phil	"Photo-electrical properties of Se-Ag Chalcogenide Glasses"	Kanpur University, Kanpur

## 6. Grants

- i. **Funds Received (Projects)** : I-STEM committee has recommended to support the research work with the catalytic grant up to 1.1 lakh for our project entitled :influence of thickness and temperature on solution processed SnO<sub>2</sub> based solar cells and sensors". This proposal was jointly submitted by Dr R Shashidhar (supervisor), myself (co-supervisor) and Mr. Anand B C (research scholar) to the I-STEM, center for Nano Science and Engineering (CeNSE), Indian Institute of Science (IISc), Bangalore, under "reverse funding".
- ii. **Patents: Nil**
- iii. **Consultancy**

**7. Awards Received: Nil**

**8. Publications**

**i. International Journals**

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
1	Application of SRCBD S: SnO <sub>2</sub> nanostructured Thin Films as Room Temperature Gas and Humidity Sensors	Anand B C, R Shashidhar, Nityanand Choudhary	Journal of the Korean Physical Society	82, 2023	Both	0.800	Springer
2	Positive impedance and low hysteresis MoS type humidity sensors via SRCBD poly crystalline Sn <sub>x</sub> O <sub>y</sub> thin films	Anand B C, R Shashidhar, Nityanand Choudhary	Digest Journal of Nanomaterials and Biostructures	18,1 2023	Both	1.000	National Institute R and D of Materials Physics
3	Synthesis of Nanoparticles by Solution Combustion Method: A Review	Nityanand Choudhary & R Shashidhar	JSS Journal of Scientific Studies	1,2,2023	Others	-	J S S Academy of Technical Education
4	Influence of thickness and illumination on Electrical Properties of MOS capacitor of spray pyrolysed mixed phase CdTe <sub>2</sub> O <sub>5</sub> - CdTeO <sub>3</sub> -CdTe film	R.Shashidhar & Nityanand Choudhary	Emergent Materials	1-9, 2021	Both	4.8	Springer Nature
5	Cost effective SnS heterojunction solar cells synthesized by spray pyrolysis	R.Shashidhar & Nityanand Choudhary	Journal Sol-Gel Science & Technology	96,1,2020	Both	2.3	Springer
6	Thickness dependent studies of hetero-junction solar cell synthesized on quartz substrate by spray pyrolysis Technique	R.Shashidhar & Nityanand Choudhary	Indian Journal of Pure & Applied Physics (IJPAP)	58, 2020	Both	0.7	NISCAIR-CSIR, India
7	Luminescence of bio-synthesized rod like Bismuth Oxychloride nanoparticles	Nityanand Choudhary & R.Shashidhar	Advances in Natural Sciences: Nano Science & Nano Technology	10,3,2019	Both	1.7	Vietnam Academy of Science and Technology (VAST) (VN) and IOP (UK)
8	Spectroscopic properties of red emitting Eu <sup>3+</sup> doped Y <sub>2</sub> SiO <sub>5</sub> nanophosphors for WLED's on the basis of Judd-Ofelt analysis: Calotropis gigantea latex mediated synthesis	Nityanand Choudhary & G. Ramakrishna	Journal of Luminescence	181,2017	Both	3.3	Elsevier

9	Dielectric relaxation in glassy $Se_{80}Ge_{20}$ and $Se_{75}Ge_{20}Ag_5$ Chalcogenide glassy Alloys	A.Dwivedi, R Arora, N. Mehta, N Choudhary & A. Kumar,	Int. Sci. J.Semi. Phys.Quantum Electronics and Optoelectronics	8,2005	Both	0.3	National Academy of Sciences of Ukraine
10	Dielectric relaxation in glassy $Se_{70}Te-xAg_x$ alloys	N. Choudhary & A. Kumar	Ind. J. Pure Appl. Phys	44,2006	Both	0.7	NISCAIR-CSIR, India
11	Dielectric relaxation in glassy $Se_{100-x}Sb_x$ alloys	N Choudhary & A Kumar	Turkish J. Phys.	29,2005	Both	1.4	Academic Journal
12	Dielectric Relaxation in $Se_{90}Ge_xIn_{10-x}$ alloys	N Choudhary, D K Goel & A Kumar	Indian. J. Engg & Mat. Sc.	11,2004	Both	0.9	CSIR

ii. National Journals: Nil

iii. Conferences: Nil

iv. Workshops / Conferences Attended

Sl. No.	Name of the workshop / Conference	Organiser	Date
1	Two Day Online International Conference on "Advanced Materials Science and Applications" (ICAMSA-2020)	Department of Physics, MSRIT, Bangalore, Karnataka, India	3rd to 4th September 2020
2	Second international conference on Current applications in material science	SJB Institute of Technology, Bangalore	4th May 2019
3	National Conference Advanced Lithium Ion Batteries: Science and Technology (NALIBST-2019)	Indian Institute of Science, Bangalore ,	27-28 December 2019
4	International Conference on Nanotechnology (NANOCON 2018)	Bharati Vidhyapeeth, Pune	25th to 26th October 2018
5	International conference on surface engineering (INCOSURF-2018)	Electrochemical Society of India (ECSI and Department of Inorganic and Physical Chemistry, IISc., Bangalore	9th to 11th August 2018
6	INDIAS 2004,	Goa University, Goa	24-26 September 2004
7	National Conference in emerging Materials and Technologies,	Venkateswara University, Tirupati	3-4 August 2004

v. Workshops / Conference (Orgained)

Sl. No.	Name of the workshop / Conference	Organized by	Date	Role
1	International Conference on Cognitive Computing and Information Processing	IEEE	3-4 March 2015	Organizing Chair

vi. Conference Attended (those sponsored by AICTE / ISTE /IETE /TEQIP or any other sponsoring body)

Sl. No.	Name of the workshop / Conference	Organiser	Date
---------	-----------------------------------	-----------	------

1	Frontiers in Material Research for Energy Application	Thyagarajar College of Engineering, Madurai	11 <sup>th</sup> to 17 <sup>th</sup> December 2017
2	Laser Science and Technology	NITTR, Chandigarh	19-23 January -2009
3	Advanced Methods for Material Characterization	IIT, Roorkee	06-10 February-2006
4	Principle of organization....	JSSATE, NOIDA	17-20 January 2004

#### 9. Details of NPTEL / COURSERA courses completed

Sl. No.	Name of the subject	Organised by	Date of completion / Award	Grade / Marks
1	Solid state Physics	NPTEL	28.09.2021	50 %
2	HTML, CSS and java script for web developer	Coursera	03.06.2020	100 %
3	Python for data science	NPTEL	Aug-Sep .2019	70 %

**10. Membership of Professional Bodies:**

1. BOE, Mahamaya Technical University NOIDA (2010-2013)
---

**11. Any other information you will like to share about your professional experience**

**Dr.Nityanand Choudhary**  
**Professor of Physics**  
**JSS Academy of Technical Education**  
**Bangalore 560060**