

Physics Department

PhD Completed between 2011-2017

S N	Supervisor	Year	Student Name	Thesis Title	Co-Supervisor
1	B R Sankapal	2016-17	Shrikant Somaji Raut	Synthesis, Characterization and Supercapacitive Performance of Fe, Zn and Co based Metal Oxide Thin Films	
2	B R Sankapal	2016-17	Nikila M. N. Unni Nair	CdS, Ag ₂ S and HgS Based Nanowires: Synthesis, Characterization and Supercapacitor Application	
3	B R Sankapal	2016-17	Sutripto Mujamder	CdS, CdSe and PbS based Nanostructured Thin Film Photoelectrochemical Solar Cells	
4	Mrs. A V Deshpande	2012-13	Nutan S Satpute	Study of Lithium Ion Conducting Glasses and Glass-Ceramics with TiO ₂ Addition	
5	Mrs. Anuradha Deshpande	2015-16	Vijaya D Raut	Study of Physical and Optical Properties of Lithium Borate Glasses Containing Bismuth Oxide	
6	Mrs. S M Giripunje	2016-17	Jyoti Manish Ghushe	Investigation of Heterostructures of Polyaniline & Its Nanocomposites with Metal Oxides for Photovoltaic Applications	
7	Mrs. S R Patrikar,	2013-14	Shilpa N Kulkarni	Modeling and Simulation of Highly Sensitive Adsorption Based Optical Gas Sensors Using Silica Nanowire	
8	R S Gedam	2013-14	Durgaprasad D Ramteke	Synthesis and Characterization of Lithium Borate Glasses Containing Rare Earth Oxides	
9	V K Deshpande	2011-12	Shankar Jakkula	Synthesis and characterization of lead Titanate based Ferroelectric Glass-Ceramics	
10	V K Deshpande	2011-12	Thomas Philip	The Effect of Transition Metal Oxide Addition on the Physical Properties of Lithium Borosilicate Glasses	
11	V K Deshpande	2013-14	Vijay U Rahangdale	Development of Ferroelectric Glass-Ceramics for Transducers	

12	V K Deshpande	2014-15	Sudhir R Tiple	Study of some Proton Conducting Glasses	
13	V K Deshpande	2016-17	Mugdha Vijay Jagdale	Study of Lithium Niobate Based Electroceramics	

PhD Ongoing

Sr No	Student Name	Supervisor
1	SUDHIRKUMAR RAJARAM MUNISHWAR	R S Gedam
2	SWAPNA MARY GALI	G Hema Chandra
3	SHIKHA JINDAL	S M Giripunje
4	ASHISH PHOOLCHAND RAUT	V K Deshpande
5	KAMLESH VASANTRAO CHANDEKAR	Mohan Kant
6	DIPAK RAMDAS NAGAPURE	G Hema Chandra
7	SHWETA SADASHIV GUNDALE	A V Deshpande
8	SWAPNIL SANJAY KARADE	B R Sankapal
9	PRAVIN PRAKASH PAWAR	R S Gedam
10	BIDHAN PANDIT	B R Sankapal
11	RHISHIKESH MAHADEV PATIL	G Hema Chandra
12	PRANAY BARKATAKI	M S RamKarthik
13	BADGE SHRADDHA KHEMCHAND	A V Deshpande
14	VIBHA OJHA	Mohan Kant
15	THITE VIJAYALAXMI DATTATRAY	S M Giripunje
16	GITANJALI HARICHANDRA TABHANE	S M Giripunje
17	KALYANI DHABEKAR	Mohan Kant
18	PRITEE VILAS WAKUDKAR	A V Deshpande
19	MITHARI POOJA ANAND	S R Patrikar
20	SHAIK BABUJANI	G Hema Chandra
21	ASHISH PRABHAKAR KORE	Poorva Singh
22	SHAILESHKUMAR Y JANBANDHU	R S Gedam
23	PEDDY SATYANARAYANA	A V Deshpande

Sponsored R & D Projects Completed

Sponsored Research Projects <u>approved</u> to VNIT							
	Project Name	Co-ordinator	Dept.	Sponsoring Agency	Project Value	Sanction date	Duration (years)
1	Development of P3HT PCBM solar cell	S M Giripunje	Physics	DST SERB	10,77,000	02/07/2016	3 years
2	Development of lithium disilicate based nano glass ceramics for armour applications	A V Deshpande	Physics	DRDO	34,81,010	28-11-2016	3year
3		Mohan Kant	Physics	DST(EMR)	35,00,00	03/12/2016	3year

Sponsored R & D Projects Ongoing

Sr No.	F Y	Name of Faculty (Principal Investigator)	Name of the Funding agency	Title of the Project	Sanctioned Order no. & Date	Total Amt of Project (In Lakhs Rs.)	Amt received in 2016-17(in words)
1	2016-17	Dr(Mrs.)A.V. Deshpande	DRDO	Development of Lithium Disilicate Based Nano Glass Ceramics for Armour Applications	ARMREB/MAA /2016/187 11/28/2016	24	Twenty Four lakh
2	2016-17	Dr R S Gedam	DST-SERB	synthesis and characterization of glasses containing semiconductor quantum dots for optical fiber	SB/S2/CMP/- 0017/2013 24/04/2014	7	Seven Lakh
3	2016-17	Dr B. R. Sankapal	DST-SERB	Studies and development of polymer and/or inorganic nanomaterials coated carbon nanotube thin films towards super capacitor	NA	38.75	Thirt Eight Lakh Seventy Five thousand
4	2016-17	Dr B. R. Sankapal	DST-TMD-MES	flexible solid state super capacitor device	SB/S2/CMP- 0032/20113 24/04/2014	60.63	Sixty Lakh sixty three lakh
5	2016-17	Dr B. R. Sankapal	SERB-EMR	core shell nanowire/nanorods based device grade solid state solar cells	NA	47	Fourty Seven lakh
6	2016-17	Dr Hemachandra Gali	DST-SERB	Investigations on Cu ₂ ZnSn(S,Se ₄) thin films leading to the development of heterojunction solar cells	CSR-IC/CSR- 83/2016-17 4/7/2016	2.45	Two lakh forty five thousand
7	2016-17	Dr (Mrs) S. M. Giripunje	DST-SERB	Development of P3HT:PCBM solar cell containing Zn-Al and Zn-Fe Hydroxalcite nanoparticles in PEDOT:PSS layer to enhance efficiency	EMR/2015/0017 1 4/7/2016	8	Eight Lakh
8	2016-17	Dr K. Mohan Kant	DST	Fabrication of rare earth doped ceria electrolyte based prototype SOFC for intermediate temperature range	EMR/2016/0031 42 6/3/2014	20	Twenty lakhs only

Research Publications as under SCOPUS

[Dr. Mrs. Aparnn V Deshpande](#)

[Dr. B R Sankapal](#)

[Dr. G Hema Chandra](#)

[Dr. K Mohan Kant](#)

[Dr. M S Ramkarthik](#)

[Dr. Ms. Poorva Singh](#)

[Dr. R S Gedam](#)

[Dr. Mrs. Sujata Patrikar](#)

[Dr. Mrs. Sushma M Giripunje](#)

[Dr. V K Deshpande](#)