



॥ विद्या विनयेन शोभते ॥

Janardan Bhagat Shikshan Prasarak Sanstha's  
**CHANGU KANA THAKUR**

**ARTS, COMMERCE AND SCIENCE COLLEGE, NEW PANVEL**  
**(AUTONOMOUS)**

Re-accredited 'A+' Grade by NAAC (3<sup>rd</sup> Cycle - CGPA 3.61)  
'College with Potential for Excellence' Status Awarded by UGC  
'Best College Award' by University of Mumbai

### Department of Physics

#### Research Profile & Consultancy

**A) Patents by the Faculty** (Give data from 1997-1998 to till date)

- **No. of Patents: Nil**
- **Details of Patents: Nil**
- **Note: Submit the PDF copy of Patents of All Faculty of the Department**

**B) Publications by the Faculty** (Give data from 1997-1998 to till date)

- **No. of Publications:**

UGC care list Journal	
Peer Viewed National Journal	03
Peer Viewed International Journal	04
Non-Peer Viewed National Journal	-
Non-Peer Viewed International Journal	-
Total	-
Average Impact Factor	-
Average Citation Index	-

- **Details of Publications:**

Sr. No	Author	Title of Paper	Details of Publication (Printed)	Impact Factor, Citation Index, h index, SNIP, SJR
<b>Academic Year 2016-2017 (01)</b>				
<b>International Level (01)</b>				
01	Mrs. G.U. Patil	Electrical Conservation in Kitchen	Research Chronieler Nov 2016-2017, Vol-IV, Issue VI, P 22-28,ISSN 2347-5021	0.95
<b>Academic Year 2017-2018 (03)</b>				
<b>National level</b>				

01	Mrs. G.U. Patil	Impact of decomposition of different manures on soil resistivity in rainy season	Asian journal of Environmental Science,2017-2018, Vol 12, Issue 2, p138-140, UGC Approved No.8785	-
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02	Mrs. G.U. Patil	Study of Coefficient of restitution of bouncing ball on different surfaces	Journal of Research and Development, 2017-2018, Vol 7, Issue 7, p 12-18, UGC Approved No.64768	4.270 COSMOS FACTOR
03	Mrs. G.U. Patil	Smartphones & College Learners : Case study	Asian Resonance, 2017-2018, Vol 6, Issue 3, p 86-91 UGC Approved No. 40888	3.676 SJIF

**Academic Year 2018-2019 (03)**

**International level**

01	Mrs. G.U. Patil	Study of Dependence of Angle of Repose, Frictional forces acting on pulses of different species of family Fabacea on sliding time,	International Journal of Innovative Knowledge Concept, 2018-2019, Vol 6, Issue 6, p 1-4 UGC Approved Journal No. 64094	-
02	Mrs. G.U. Patil	Study of correlation among different properties of pulses of Family Fabacea,	International Journal of Research and Analytical Reviews, 2018-2019, Vol 5, Issue 2, p 382-386 UGC Approved Journal No 43602	4.236 COSMOS FACTOR
03	Mrs. G.U. Patil	Sound barrier inside & outside house,	International Journal for Research in Engineering Application & Management , 2018-19, Vol 4, Issue 10, p 241-243 UGC Approved Journal No 64077	5.846

**Academic Year 2022 (03)**

01	Mrs. G.U.Patil & Mr. P.S.Thakur	Deployment of Grid Connected PV system for reduction in Electricity Bill : Case Study	Educreator Research Journal, March- April 2022, ISSN P-2455-0515, 72-77	
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02	Mr. P. S. Thakur <sup>1</sup> Mrs. G. U. Patil <sup>2</sup> Mr. S. S. Kamble <sup>3</sup>	Acoustic Properties of Aerated Autoclaved Concrete (AAC): Sound Absorption & Reflection Coefficients of Aerated Autoclaved Concrete at Low & High Frequency	Journal of Architecture and Civil Engineering, August 2022, ISSN 2321-8193, 01-06	
03	Mr. S. S. Kamble		Educreator Research Journal, March- April 2022, ISSN P-2455-0515, ....	
<b>Academic Year 2023 (09)</b>				
01	V.N. Pawar <sup>1</sup> , V.S. Kamble <sup>2*</sup> , S.T. Salunkhe <sup>3</sup> , J.M. Pawara <sup>2</sup> , S.K. Patil <sup>2</sup> , <b>G.U.Patil<sup>4</sup></b> and <b>S.S. Kamble<sup>4*</sup></b>	The Impact of Air Pollution on Solar Energy Generation in the Panvel - Navi Mumbai Region	Indian Journal of Natural Sciences, ISSN: 0976 – 0997, Vol.14, Issue 79, Aug. 2023, 57868-57871.	UGC care listed journal
02	<b>Mrs. G, U. Patil<sup>1</sup>, Ms.P.M.Mhatre</b>	A Study of Growth and Characteristics of Metal Salt like Manganese Sulphate [MnSO <sub>4</sub> ] doped in L Threonine amino acid single crystal for NLO Application.	Journal of Advanced Zoology, ISSN: 0253-7214, Vol.44, Issue S-8 Year 2023, Page 141-149	Scopus
03	<b>Mr. S. S. Kamble<sup>2</sup></b> <b>Mrs. G, U. Patil<sup>1</sup>,</b> Mr.P.S.Thakur <sup>3</sup>	Healthy Lightning in Residential Area : Case Study	Journal of the National Institute of Urban Affairs, ISSN: 0970-9045, Vol.43, Issue (2)(II), July-December, 2023, Page 72-76	
04	V.S. Kamble <sup>1</sup> , S.G. Pagare <sup>2</sup> , J.M. Pawara <sup>1</sup> , <b>S.S. Kamble<sup>1</sup>,</b> D.K. Patil <sup>1</sup> , M.A. Joshi <sup>1</sup>	Enhancing Mathematical Education for Students through the Integration of Software Tools	Indian Journal of Natural Sciences, ISSN: 0976 – 0997, Vol.14, Issue 81, Dec. 2023, 66660-66670	UGC care listed journal

	and S.L. Khairnar <sup>3*</sup>			
05	Vishal S. Kamble <sup>1</sup> , Sunil S. Patil <sup>1</sup> , Sagar L. Khairnar <sup>1</sup> , Digambar K. Patil <sup>1</sup> , <b>Satyajit S. Kamble<sup>1</sup></b> , Sapana M. Chilate <sup>1</sup> and Jitendra M. Pawara <sup>1*</sup>	Synthesis, Characterization, and Applications of Y <sub>2</sub> O <sub>3</sub> Nanoparticles Synthesized via, Thermal Decomposition of the [Y(Cup) <sub>2</sub> (Gly)·2H <sub>2</sub> O] Complex	Oriental Journal of Chemistry, ISSN: 0970-020 X, Vol. 39, No.(6) 2023, 1675-1682	UGC care listed journal
06	V.S. Kamble <sup>1</sup> , S. L. Khairnar <sup>1</sup> , J. M. Pawara <sup>1</sup> , D. K. Patil <sup>1</sup> , V. N. Pawar <sup>2</sup> , <b>S. S. Kamble<sup>1*</sup></b>	Navigating the Evolution: A Comprehensive Analysis of Awareness in Contemporary TV Display Technologies	Journal of Advanced Zoology, ISSN: 0253-7214, Volume 44 Issue S-8 2023, 225-228	Web of Science
07	J. M. Pawara <sup>1</sup> , V. S. Kamble <sup>1</sup> , <b>S. S. Kamble<sup>1</sup></b> , D. Y. Patil <sup>2</sup> , H. P. Deokar <sup>3</sup> , D. K. Patil <sup>1*</sup>	Preparation Of Mixed Ligand Complexes Of Cerium (III) Metal Using Multidentate Ligands And Investigation Of Their Physicochemical, Spectral, Thermal, And Antibacterial Properties	Journal of Advanced Zoology, ISSN: 0253-7214 Volume 44 Issue S-8 2023, 123-132.	Web of Science
08	P.S. Thakur <sup>1</sup> , V.N. Pawar <sup>2</sup> , <b>S.S. Kamble<sup>3</sup></b> , J.M. Pawara <sup>4</sup> , S.A. Solaskar <sup>5</sup> , V.S. Kamble <sup>6*</sup>	Exploring Aerated Autoclaved Concrete (AAC) Acoustic Properties Across Diverse Frequency Bands	Journal of Advanced Zoology, ISSN: 0253-7214, Volume 44 Issue S8 2023, 377-381.	Web of Science
09	V. N. Pawar <sup>1</sup> , A. K. Chaudhary <sup>2</sup> , V. S. Kamble <sup>3</sup> , P. S. Thakur <sup>4</sup> , N. K. Patil <sup>5</sup> ,	Evaluation of The Public's Recognition, Approval, And Perspectives On Renewable Energy In Panvel	Journal of Advanced Zoology, ISSN: 0253-7214, Volume 44 Issue S8 2023, 399-402.	Web of Science

S. S. Kamble6*			
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**C) Articles by the Faculty (Give data from 1997-1998 to till date)**

• **No. of Articles:**

Regional Level	06
University Level	Nil
State Level	Nil
National Level	Nil
International Level	Nil
Total	06

• **Details of Articles:**

Name of Authors	Title of article	Name of magazine/ News paper	Volume No.	Year of publication	Page No.s
Mrs.G.U. Patil& Mr.P.S.Kamble	Awareness among Learners about Hazardous elements of Electronic waste and their effect on Human Health	Anugoonj	ISSN 2348-9731, Vol-3	2013-2014	26-29
Mrs. G.U.Patil	Screen Addition	Anugoonj	ISSN 2348-9731, Vol-4	2014-2015	25-29
Mrs. G.U.Patil	Mobile Data Traffic	Anugoonj	ISSN 2348-9731, Vol-5	2015-2016	28-32
Mrs. G. U. Patil	Usage of Mobile Camera	Anugoonj	ISSN 2348-9731, Vol-6	2016-2017	27-30
Mrs.G.U. Patil Mr.P.S.Thakur	Unit Consumed by Mobile Battery	Anugoonj	ISSN 2348-9731, Vol-7	2017-2018	26-29
Mr.S.S.Kamble	Awareness of TV display	Anugoonj	ISSN 2348-9731, Vol-8	2019-20	-

Mr.S.S.Kamble	Awareness of Solar Energy	Anugoonj	ISSN 2348-9731, Vol-9	2020-21	-
Mr. S. S. Kamble	Effect of Air Pollution on Solar Energy generation in Panvel	Anugoonj	ISSN 2348-9731, Vol-10	2021-22	-
Mrs. G.U.Patil	Proper Home Lighting : Case study	Anugoonj	ISSN 2348-9731, Vol-11	2022-23	-
Mr. S. S. Kamble	A Comprehensive study on Sound Pollution in Raigad District for Sustainable Acoustic Environment	Anugoonj	ISSN 2348-9731, Vol-12	2023-24	-

**D) Projects** (Give data from 1997-1998 to till date)

- **No. of Projects: Nil**

Funding Agency	Ongoing Projects		Completed Projects		Proposal Submitted		Total	
	No.	Amount	No.	Amount	No.	Amount	No.	Amount
UGC	-	-	-	-	-	-	-	-
University of Mumbai	-	-	-	-	-	-	-	-
Seed money	-	-	1	15000/-	-	-	1	15000/-
RUSA	1	1,05,000/-	-	-	-	-	1	1,05,000/-
Industry (TIFL)	1	1,70,000/-	-	-	-	-	1	1,70,000/-
Total	2	2,75,000/-	-	-	-	-	-	2,90,000/-

- **Details of Project:**

**Details of UGC Completed Projects**

Sr. No.	Name of the Teacher/s	Title of the Project	Amount in `	Month and Year of Sanctioned	Month and Year of Submission
	-	-	-	-	-
Total		---		---	---

**Details of University Completed Projects**

Sr. No.	Name of the Teacher/s	Title of the Project	Amount in `	Month and Year of Sanctioned	Month and Year of Submission
	-	-	-	-	-
Total		---		---	---

**Details of UGC Ongoing Projects**

Sr. No.	Name of the Teacher/s and Department	Title of the Project	Amount in `	Month and Year of Sanctioned
	-	-	-	-
Total		---		---

**Details of University Ongoing Projects**

Sr. No.	Name of the Teacher/s and Department	Title of the Project	Amount in `	Month and Year of Sanctioned
	-	-	-	-
Total		---		---

**E) Research Guide Nil****• Details of Research Guides for Ph.D.:**

Sr.No.	Name of the Research Guide	Thrust Area of Research
	-	-

**• Details of Research Guides for M.Sc. by Research:**

Sr.No.	Name of the Research Guide	Thrust Area of Research
	-	-

**F) List of Learners Completed Ph.D. Degree Nil**

Sr. No.	Full Name of the Learner Completed Ph.D. Degree	Name of the Research Guide	Title of Thesis	Date of Award of Ph.D. Degree (Date of Viva)
	-	-	-	-

**G) List of Learners Completed M.Sc. by Research Degree Nil**

Sr. No.	Full Name of the Learner Completed M.Sc. by Research Degree	Name of the Research Guide	Title of Thesis	Date of Award of Ph.D. Degree (Date of Viva)
	-	-	-	-

**H) List of Learners Submitted Ph.D. Thesis Nil**

Sr. No.	Full Name of the Learner Submitted Ph.D. Thesis	Name of the Research Guide	Title of Thesis	Date of Submission of Ph.D. Thesis
	-	-	-	-

**I) List of Learners Submitted M.Sc. by Research Thesis Nil**

Sr. No.	Full Name of the Learner Submitted M.Sc. by Research Thesis	Name of the Research Guide	Title of Thesis	Date of Submission of M.Sc. by Research Thesis
	-	-	-	-

**J) List of Students Admitted for Ph.D. Programme Nil**

Sr. No.	Full Name of the Learner	Name of the Research Guide	Area of Research	Date of Registration
	-	-	-	-

**K) List of Students Admitted for M.Sc. by Research Programme Nil**

Sr. No.	Full Name of the Learner	Name of the Research Guide	Area of Research	Date of Registration
	-	-	-	-

**L) Oral Presentations by the Faculty (Give data from 1997-1998 to till date)**

- No. of Oral Presentations:**

International Level	01+01+01
National Level	01
	01
State Level	-
University Level	-
Total	-



**M) Poster Presentations by the Faculty (Give data from 1997-1998 to till date) Nil****• No. of Poster Presentations:**

International Level	-
National Level	-
State Level	-
University Level	-
Total	-

**N) Books Authored by the Faculty (Give data from 1997-1998 to till date) 04**

Sr. No.	Name of the Author	Title of the Book	Name of Publication	ISBN No.	Year of Publication
01	Mr.S.S.Kamble & Dr.Munish Pandey	Classical Physics	Tex max Publication	978-93-5077-027-6	2017-2018
02	Mrs. G. U. Patil & Mr. S. S. Kamble	FYBSC Physics-1	Sheth Publication	978-93-5576-824-7	2022-23
03	Mrs. G. U. Patil & Mr. S. S. Kamble	FYBSC Physics-2	Sheth Publication	978-93-5576-825-4	2022-23
04	Mrs. G. U. Patil & Mr. S. S. Kamble	Practical Physics	Sheth Publication	978-93-5576-919-0	2022-23
05	Mrs. G. U. Patil & Mr. S. S. Kamble	FYBSC NEP Physics-1	Sheth Publication	978-93-5902-240-6	2023-24
06	Mrs. G. U. Patil & Mr. S. S. Kamble	FYBSC NEP Physics-2	Sheth Publication	978-93-5902-666-4	2023-24

**O) Proceeding Paper : 03**

Name of Authors	Title of article	Venue	Year of publication	Page No.s	Level
Mrs.G.U.Patil	Case study of awareness of ill effect of Mobile Radiation of Human Health among Learners	C.K.Thakur A.C.S College, Panvel	2015-2016, ISBN 978-93-83342-26-6, Vol-1	107-109	National
Mrs.G.U.Patil	Review of Technology behind Camera in Cinema	C.K.Thakur A.C.S College, Panvel	2014-2015, ISBN-978-93-83342-10-5, Vol-1	107-113	National

Mrs. G.U.Patil,	To Study Refractive Index with respect to angle of Diffraction Grating using Laser pointer source	C.K.Thakur A.C.S College, Panvel	2013-2014	59-60	National
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**P} Consultancy**

<b>Sr. No.</b>	<b>Name of the Faculty</b>	<b>Nature of Consultancy</b>	<b>Name of the Institute</b>	<b>Period of Consultancy</b>	<b>Revenue Generated ( )</b>
	-	-	-	-	-