



Rayat Shikshan Sanstha's

Radhabai Kale Mahila Mahavidyalaya, Ahmednagar

Reaccredited with 'A' Grade by NAAC/An ISO 9001:2015 Certified College
Affiliated to Savitribai Phule Pune University, Pune (PU/AN/ASC/034)

Research Committee

Report for AY 2021-22

1. Seed Money Scheme

To promote the research culture in Radhabai Kale Mahila Mahavidyalaya, Ahmednagar, college stated the Research Seed Money Scheme. The budget for this scheme is Rs. 5 lakh. Through this scheme funding for the 7 projects were provided.

List of Research project for Seed Money 2021-22

Sr. No.	Name	Department	Name of Project	Amount Sanctioned
01	Dr. Ms. M. G. Bhagwat	Botany	Allelopathic effect of <i>Lantana camara</i> L. on <i>Triticum aestivum</i> L. (Wheat) and <i>Glycine max</i> L. (Soyabean)	20,000/-
02	Dr. M. H. Shaikh	Chemistry	Synthesis, Molecular Docking Study of Novel Thiazolidinedione Derivatives Featuring 1,2,3-Triazole Ring: As Antifungal Agents Targeting Lanosterol-14 α -Demethylase	20,000/-
03	Dr. Ms. R. S. Endait	Chemistry	Synthesis, Characterization and Antimicrobial Evaluation of Substituted Pyrazole Derivatives	20,000/-
04	Ms. N. R. Darekar	Chemistry	Synthesis and Characterization of Novel Chalcone Containing 1,2,3-Triazole derivatives.	20,000/-
05	Dr. S. S. Kekade	Physics	Phase transition study of BiVO ₄ Photocatalyst	20,000/-
06	Mr. M. R. Khan	Zoology	Study on Diversity and Distribution of Ant Fauna (Hymenoptera: Formicidae) in and Around City Ahmednagar of Maharashtra	20,000/-
07	Dr. G. A. Raut	Zoology	Diversity, Threats and Conservation of Land Snails from Manmade Caves in Ahmednagar District	18,000/-
Total Amount Sanctioned in Rs.				1,38,000/-

2. Research Publications.

In the academic year 2021-22 the faculty from the college published 35 research papers in National and International Reputed Journal.

List of the Publications:

Sr. No.	Title of paper	Name of the author/s	Department	Name of journal	ISSN number
1	Palladium nanoparticles: Plant aided biosynthesis, characterization, applications-a review	Prin. Dr. S. R. Thopate	Chemistry	Chemistry Africa	2522-5766
2	Design and synthesis of novel conformationally constrained 7,12-dihydrodibenzo[b,h][1,6]naphthyridine and 7H-Chromeno[3,2-c]quinoline derivatives as topoisomerase I inhibitors: In vitro screening, molecular docking and ADME predictions	Prin. Dr. S. R. Thopate	Chemistry	Bioorganic Chemistry	0045-2068
3	N-Benzoylation of 6-aminoflavone by reductive amination and efficient access to some novel anticancer agents via topoisomerase II inhibition	Prin. Dr. S. R. Thopate	Chemistry	Molecular Diversity	1573-501X
4	Pyruvic acid-catalyzed one-pot three-component green synthesis of isoxazoles in aqueous medium: a comparable study of conventional heating versus ultra-sonication	Prin. Dr. S. R. Thopate	Chemistry	Journal of Chemical Sciences	0973-7103
5	Water-Mediated Green Synthesis of Benzimidazoles Using Pyruvic Acid: A Comparable Study of Ultra-sonication versus Conventional Heating	Prin. Dr. S. R. Thopate	Chemistry	Letters in Organic Chemistry	1875-6255
6	Ultrasound-Promoted Pyruvic Acid Catalyzed Green Synthesis of Biologically Relevant Bis(Indolyl)Methanes Scaffold under Aqueous Condition	Prin. Dr. S. R. Thopate	Chemistry	Polycyclic Aromatic Compounds	1040-6638
7	In silico exploration of binding potentials of anti SARS-CoV-1 phytochemicals against main protease of SARS-CoV-2	Dr. M. H. Shaikh	Chemistry	Journal of Saudi Chemical Society	1319-6103
8	Synthesis, Characterization and antimicrobial evaluation of substituted N2-((1R,4R)-4-aminocyclohexyl)-N6-(Phenyl)-9-cyclopentyl-9H-purin-2,6-diamine derivatives	Dr. M. H. Shaikh	Chemistry	Journal of Advanced Scientific Research	0976-9595

9	Pyridine-1,3,4-Thiadiazole-Schiff Base Derivatives, as Antioxidant and Antimitotic Agent: Synthesis and in Silico ADME Studies	Dr. M. H. Shaikh	Chemistry	Polycyclic Aromatic Compounds	1040-6638
10	[DBUH][OAc]-Catalyzed Domino Synthesis of Novel Benzimidazole Incorporated 3,5-Bis (Arylidene)-4-Piperidones as Potential Antitubercular Agents	Dr. M. H. Shaikh	Chemistry	Polycyclic Aromatic Compounds	1040-6638
11	Synthesis and Biological Evaluation of 2-(4,5,6,7-Tetrahydrobenzo[c]Isoxazol-3-yl)-4H-Chromen-4-Ones	Dr. M. H. Shaikh	Chemistry	Polycyclic Aromatic Compounds	1040-6638
12	[Et ₃ NH][HSO ₄]-Catalyzed One-Pot Solvent Free Syntheses of Functionalized [1,6]-Naphthyridines and Biological Evaluation	Dr. M. H. Shaikh	Chemistry	Polycyclic Aromatic Compounds	1040-6638
13	Synthesis and Biological Evaluation of Novel Asymmetric (E)-3-(4-(Benzyloxy) Phenyl)-2-((Substituted Benzylidene) Amino)-1-(Thiazolidin-3-yl) Propan-1-One and Computational Validation by Molecular Docking and QSTR Studies	Dr. M. H. Shaikh	Chemistry	Polycyclic Aromatic Compounds	1040-6638
14	New 1,2,3-Triazole-Tethered Thiazolidinedione Derivatives: Synthesis, Bioevaluation and Molecular Docking Study	Dr. M. H. Shaikh	Chemistry	Polycyclic Aromatic Compounds	1040-6638
15	Synthesis and Antibacterial Screening Of Imidazole Anchored Pyrazolines, Benzodiazepines And Chromones	Ms. N. R. Darekar	Chemistry	Heterocyclic Letters	2230 - 9632
16	Synthesis and Biological Evaluation of 2-(4,5,6,7-Tetrahydrobenzo[c]Isoxazol-3-yl)-4H-Chromen-4-Ones	Ms. N. R. Darekar	Chemistry	Polycyclic Aromatic Compounds	1040-6638
17	Synthesis and Biological Evaluation of Indolyl Bis-chalcones as Anti-Breast Cancer and Antioxidant Agents	Dr. Ms. R. S. Endait	Chemistry	Croatia Chemica Acta	1334-417X
18	Studies on Diversity of Soil Micro Fungi from Nashik City, Maharashtra, India	Dr. Ms. M. G. Bhagwat	Botany	World Journal of Current Scientific Research	-
19	First Record and description of female Onomarchus leuconotus (Serville, 1938) (Insect: Orthoptera: Tettigoniidae) from peninsular India	Dr. G. A. Raut	Zoology	Journal of Threatened Taxa	0974-7907
20	Janabai: An Ignored Feminist Writer	Dr. S. G. Saykar	English	Kala : The Journal of Indian Art History Congress	0975-7945

21	Articulation of Feminism in Marathi Literature	Dr. S. G. Saykar	English	Akshar Wangmay	2229-4929
22	The loopholes in Syllabus Design and Textbook Production	Dr. S. G. Saykar	English	Education & Society	2278-6864
23	Views About Nature in Anita Desai's The Village by the Sea	Dr. R. V. Barve	English	Kala : The Journal of Indian Art History Congress	0975-7945
24	Figuring Nature in Kamala Markandaya's Nectar in a Sieve	Dr. R. V. Barve	English	Kala : The Journal of Indian Art History Congress	0975-7945
25	Hindi tatha marathi dalit rangbhumi: Ek tulnatmak adhyayan	Dr. R. D. Kanade	Hindi	Shodh Disha	0975-735X
26	Jayakwadi Bandh andolan mein jila ahamadnagar ke samyawadi dal ka yogdan	Dr. R. D. Kanade	Hindi	Kala Sarovar	-
27	Jayakwadi Bandh andolan mein jila ahamadnagar ke samyawadi dal ka yogdan	Dr. G. S. Vidhate	History	Kala Sarovar	-
28	Ahamednagar jilhyatil lal nishan gat va lalnishan paksh	Dr. G. S. Vidhate	History	Royal	2278-8158
29	Personality Characteristics of Violent Young Adults in Romantic Relations	Dr. E. A. Shaikh	Psychology	The International Journal of Indian Psychology	2348-5396
30	Impact of Covid-19: online education in India	Dr. B. A. Tarhal	Economics	GENEOUS	-
31	Harit Granthalaye: Kalachi Garaj	Mr. C. T. Khairnar	Library	Akshara Multidisciplinary Reserach Journal	2582-5429
32	Pune Jilhyatil prathamik shaley sharirik shikshan shikshakanchya adhyapan sansadhan garjanche vishleshan	Mr. V. U. Elke	Physical Education	Research Nebula	2277-8071
33	Comparison Of Physical Activity Level Among Students From Different Courses	Mr. V. U. Elke	Physical Education	Kalyan Bharati	0976-0822
34	Analysis Of The Teaching Resource Needs Of Physical Education Teachers	Mr. V. U. Elke	Physical Education	Journal Of Education: Rabindra Bharati University	0972-7175
35	Ahmednagar Jilhyatil Asanghatit Kshetravar Covid-19 cha Zalela Arthik v Samajik Parinam	Mr. V. B. Kale	Economics	Excel's International Journal of Social Science & Humanities	2277-7539

3. Patent

In the AY 2021-22 three patents were published by the Department of Chemistry.

Sr. No.	Name of Faculty	Title of Patent	Date of Filing patent	Date of Publication
1	Ms. N. R. Darekar	Pyrazolyl Compounds As Anti-Malarial Agents	09/05/2020	12/11/2021
2	Prin. Dr. S. R. Thopate	Quinoline Compounds As Therapeutic Agents	17/11/2020	20/05/2022
3	Dr. M. H. Shaikh	1,2,3-Triazolyl Thiazolidinedione Derivatives As Therapeutic Agents	12/11/2021	03/06/2022

4. Intellectual Property Rights (IPR) Workshop

Research Cell & Internal Quality Assurance Cell (IQAC) has jointly organized one day state level workshop on “**Intellectual Property Rights (IPR): Taking Your Ideas to the Market**” on **Saturday, 28th August 2021** at 11:00 am on zoom platform and You tube live streaming. Dr. Shivaji Pawar, Senior Research Scientist, Department of New Drug Discovery, Wockhardt Research Centre, Aurangabad, delivered lecture on “**Intellectual Property Rights (IPR): Taking Your Ideas to the Market**”. There were **231** enthusiastic participants in all including 79 faculty, 20 Research Student, 11 from pharmaceutical industry, 44 post graduate and 77 under graduate students who participated in the workshop on IPR.

5. Research Guideship

Six faculty got the Research Guideship for the Ph. D. Affiliated to SPPU, Pune in respective subject.

Sr. No.	Name of Research Guide	Subject	Date
1	Dr. E. A. Shaikh	Psychology	22/07/2021
2	Dr. M. H. Shaikh	Chemistry	05/01/2022
3	Dr. S. S. Kekade	Physics	05/01/2022
4	Dr. S. G. Saykar	English	28/03/2022
5	Dr. G. S. Vidhate	History	11/01/2022
6	Prof. R. D. Kanade	Hindi	11/05/2022

6. Ph. D. Completion by the Faculty

Three faculty completed their Ph. D. in respective subject.

Sr. No.	Name of Faculty	Subject	University	Date of Ph. D. Award
1	Dr. B. A. Tarhal	Business Economics	SPPU, Pune	26/10/2021
2	Dr. R. V. Barve	English	SPPU, Pune	05/05/2022
3	Dr. Ms. S. S. Thube	Banking & Finance	SPPU, Pune	16/07/2022

7. Awards

Sr. No.	Name of Faculty	Award Category	Organizer	Date
1	Prin. Dr. S. R. Thopate	Best Researcher Award	Scifax Company, India	04/10/2021
2	Prin. Dr. S. R. Thopate	Research Excellence Award	Institute of Researchers, Waynad, Kerala, India	20/12/2021
3	Dr. E. A. Shaikh	Prof. Mrs. Manju Thakur Memorial Award	57 th National & 26 th International Conference of Indian Academy of Applied Psychology (IAAP), Mizoram University.	27 to 29 January 2022
4	Dr. S. G. Saykar	India Prime Icon Award 2022	Foxclues, Bangalore, India	2022
5	Dr. Sachin Kotkar	Gold Medal Award	Gandhi Research Foundation, Jalgaon	2022

Ms. S. R. Thopate
co-ordinator
Research cell.



S. R. Thopate
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