

Rayat Shikshan Sanstha's

Yashavantrao Chavan Institute of Science, Satara (Autonomous) Lead College of Karmaveer Bhaurao Patil University, Satara

Faculty Profile

General information

Name : Dr. Jaykumar Jagannath Chavan

Designation : Assistant Professor

Department : Botany

Educational Qualification: M.Sc., Ph.D.Date of Appointment: 01/02/2013Teaching Experience: UG: 10 years

PG: 10 years

Research Experience : 14 years

Research Area : Botany (Plant Biotechnology, Phytochemistry, Food

Biotechnology)

Educational Qualification Details (undergraduate onwards)

Sr. No.	College/University	Degree	Subjects	Year	Class/ Percentage
1	Atpadi College Atpadi, Shivaji University, Kolhapur, India	B.Sc.	Botany, Subsidiary: Zoology & Chemistry	2005	I st class/ 67.17 %
2	Department of Botany, Shivaji University, Kolhapur, India	M.Sc.	Botany, Cytogenetics & Plant Breeding	2007	I st class/ 67.67 %
3	Department of Botany, Shivaji University, Kolhapur, India	Ph.D.	Botany (Plant tissue culture, Molecular Biology)	2012	Awarded

Academic and Administrative Responsibilities

Sr. No.	Position	Organization	Date/Duration
1	Dean, Science and Technology	KBPU, Satara	03/11/2022 – till date
2	Member, General Council	KBPU, Satara	11/05/2023 – till date
3	Member, Academic Council	KBPU, Satara	11/05/2023 – till date
4	Vice Principal	YCIS, Satara	May, 2022 – till date
5	Head, Department of Biotechnology	YCIS, Satara	January, 2014 – till date
6	Director, Internal Quality Assurance Cell (IQAC)	YCIS, Satara	January, 2017 – till date
7	Member, College Development Committee (CDC)	YCIS, Satara	June, 2017 – till date

Internal Quality Assurance Cell (IQAC), YCIS, Satara

	Chairman, Board of Studies (BoS) in		
8	Biochemistry, Biotechnology and	YCIS, Satara	June, 2018 – till date
	Forensic Science		
9	Member, Academic Council	YCIS, Satara	June, 2018 – till date
10	Member, Board of Studies (BoS) in Botany	YCIS, Satara	June, 2018 – till date
11	Member, Coordination Committee in Botany	Shivaji University, Kolhapur	2015-2016
12	Member (VC Nominee), Board of Studies (BoS) in Botany	K. B. P. College, Pandharpur (Autonomous)	June, 2019 – May 2023
13	Member, BoS Subcommittee in Botany	S. G. M. College, Karad	June, 2019
14	Member, Board of Studies (BoS) in Botany	S. G. M. College, Karad	2023-24 to 2025-26
15	Member, Internal Quality Assurance Cell (IQAC)	Chhatrapati Shivaji College, Satara (Autonomous)	June, 2019- till date
16	Coordinator, MOCK Peer Team	K. B. P. College of Engineering, Satara	29/07/2019
17	Coordinator, MOCK Peer Team	Shripatrao Kadam Mahavidyalaya, Shirwal	31/08/2021
18	Member, LIC Committee	Shivaji University, Kolhapur	15/12/2020 - onwards
19	Member, Board of Studies (BoS) in Botany	T. C. College, Baramati	2022-23 to 2024-25
20	Director	Laxmibai Bhaurao Patil Shikshanottejak Sahkari Patpedhi Ltd. Satara	June 2023 – till date

* Awards/Honors/Recognitions/Scholarship etc.:

Sr. No.	Name of the award/honor/recognition	Awarding Organization	Date and year
1	Meritorious Student Scholarship	Shivaji University, Kolhapur	28/03/2006
2	Junior Research Fellow	DBT, Govt. of India	20/08/2008 – 30/06/2012
3	Young Scientist Award	DST, Govt. of India	June, 2013
4	Prof. D. C. Cooper Prize Award for Best Paper Presentation	Society of Cytologists and Geneticists, India	24/12/2014
5	Honorary Professor	Rayat Institute of Research and	04/03/2015 -

		Development, Satara, India	onwards
6	Research Advisor	NanYang Academy of Sciences,	October, 2018–till
0	Research Advisor	Singapore	date
7	Best Teacher Award	YCIS, Satara	18/02/2019
		Shiyaii Uniyaraity Valhanur	26/12/2016 -
8	Pagagnition as PG taggher	Shivaji University, Kolhapur	onwards
0	Recognition as PG teacher	Karmaveer Bhaurao Patil	21/03/2023 -
		University, Satara	onwards
		Shivaji University, Kolhapur	19/08/2019 -
9	Recognition as Research Guide for M.Phil., Ph.D.	Sinvaji Oliiveisity, Koliiapui	onwards
9		Karmaveer Bhaurao Patil	21/03/2023 -
		University, Satara	onwards
10	Young Associate	Maharashtra Academy of	14/12/2019 -
10	Tourig Associate	Sciences, Pune, India	onwards
		International Institute of	
11	International Young Scientist	Organized Research, registered	Dec. 2021
11	Award 2020-21	with Ministry of MSME, Govt.	Dec. 2021
		of India	
12	Recognition as Global Scientist	A D Scientific Ranking by	2021 – till date
12	Recognition as Global Scientist	Michigan State University, USA	2021 – till date

***** Membership to Professional Organizations/Associations:

Sr. No.	Membership type (Annual/Life/any other)	Organization/Association	Date and year
1	Life Member	Sahyadri GENES –NGO	2011 - onwards
2	Life Member	All India Society of Cytologists and Geneticists, India	2014 - onwards
3	Life Member	Prof. H. S. Srivastava Foundation for Science and Society, India	2014 - onwards
4	Life member	Society for Biochemistry and Biotechnology, India	2015 –16 onwards
5	Young Associateship	Maharashtra Academy of Sciences, India	Dec. 2019 onwards
6	Annual Member	The American Phytopathological Society	04/06/2022 - 03/06/2023

***** Worked as Editor/Reviewer to Journals/Books/Proceedings etc.

Sr. No.	Name of the Journal/Book/ Proceedings	ISSN/ ISBN	Assignment (Editor/Reviewer)	Publisher	Publication Year
1	Proceedings of National Conference on 'Recent Trends in Physical Education & Sports'	-	Editorial Board Member	YCIS, Satara	2016
2	Journal of Cell Science and	Yet to	Editor	Allied	2017 to

	Mutation	receive		Academies Publishing,	till date
				London, UK	
3	SOA: Applied Biotechnology and Bioengineering	Yet to receive	Editorial Board Member	Scient Open Access Publisher, USA	2017 to till date
4	Bulletin of Environment, Pharmacology and Life Sciences Volume 1, Special Issue - 2023	2277- 1808	Chief Guest Editor	Academy for Environment and Life Sciences, India	2023
5	Journal of Plant Research and Innovations	Yet to receive	Editorial Board Member	Reseapro Journals, Japan	2023 – onwards
6	Science Research Journal (Interdisciplinary)	Yet to receive	Executive Editor	YCIS, Satara, India	January, 2021 - onwards
7	Journal of Saudi Society of Agricultural Sciences	1658- 077X	Reviewer	Elsevier	28/11/2015
8	Journal of Chromatographic Science	0021- 9665	Reviewer	Oxford University Press	09/03/2015
9	Natural Product Research	1478- 6427	Reviewer	Taylor and Francis	10/05/2015
10	Plant Biosystems	1724- 5575	Reviewer	Taylor and Francis	27/06/2015
11	Natural Product Research	1478- 6427	Reviewer	Taylor and Francis	25/07/2016
12	Food and Function	2042- 6496	Reviewer	Royal Society of Chemistry	01/03/2016
13	International Journal of Food Properties	1532- 2386	Reviewer	Taylor and Francis	31/03/2016
14	Journal of Chromatographic Science	0021- 9665	Reviewer	Oxford University Press	31/03/2016
15	Bioresource Technology	1873- 2976	Reviewer	Elsevier	2016
16	South African Journal of Botany	1727- 9321	Reviewer	Elsevier	11/09/2017- 2022
17	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	1556- 7230	Reviewer	Taylor and Francis	06/03/2018
18	Journal of Herbal Medicine	2210- 8041	Reviewer	Elsevier	2019
19	Biocatalysis and Agricultural Biotechnology	1878- 8181	Reviewer	Elsevier	2020
20	Journal of Applied Research on Medicinal and Aromatic Plants	2214- 7861	Reviewer	Elsevier	2021
21	In Vitro Cellular and Developmental Biology – Plants	1054- 5476	Reviewer	Springer	2022

Research Projects (Ongoing/Completed)

Sr. No.	Title of Project	Duration	Amount Sanctioned (in Lakhs)	Agency	Status (Ongoing/ Completed)
Majo	or Research Project (3)				
1	Biotechnological approaches for propagation and improvement of an important medicinal plant 'Saptarangi' (Salacia chinensis L.)	July, 2013- June 2016	23.70	DST, Govt. of India	Completed
2	Biotechnological intervention towards enhancement of commercial value of 'Shampoo Ginger' (Zingiber zerumbet)	July 2015 - June 2018	15.73	UGC, Govt. of India	Completed
3	Molecular Phylogenetics of Indian <i>Argyreia</i> spp.	July, 2021- March 2023	6.00	RUSA, Govt. of India	Ongoing
Mino	or Research Project				
1	-	-	_	-	-

Research Guidance:

Number of students (M.Phil)
Number of students (Ph.D.)
1) Completed: Nil
2) Registered: 01
2) Registered: 04

Details of Research Publications

A) Patent (1)

Sr. No.	Title	Patent No.	Indian/US/Any other	Granting date
1	Storage device to preserve	Design No.	Indian	13/05/2022
1	and transport plant species	30150-001	mutan	13/03/2022

B) Books/Book Chapters (4)

Sr. No.	Title	Publisher	Year of Publication	ISBN No	Type (Reference/Text)
1	Biotechnological strategies for conservation of an endemic and endangered <i>Ceropegia</i> app.	Lap Lambert Academic Publishing, Germany	2013	978-3-659- 41890-7	Reference Book
2	A Handbook of Practical Botany	YCIS, Satara	2018	-	Text Book
3	In vitro callus induction and plant regeneration from stem explants of	Springer Protocols, Humana Press,	2016	978-1- 4939- 3330-3	Reference (Book Chapter)

Internal Quality Assurance Cell (IQAC), YCIS, Satara

	Ceropegia noorjahaniae;	New York			
	a critically endangered				
	medicinal herb.				
	Tree Diversity of	Prarup		978-81-	Reference
4	Dandoba Hills, Sangli	Publication,	2022	956739-6-	
	Dist. (M.S.) India	Kolhapur		4	(Book Chapter)

C) Datasets Submission (2)

Sr. No.	Title	Accession No.	Data base	Year of publication
1	Isolation and characterization of silicon leaching bacteria from soil	KT334299	NCBI	2015
2	Leaf spot causing fungi of Ceropegia vincaefolia	ON530942	NCBI	2022

D) Research papers:

Sr. No	Title of paper	Journal/proceeding details (Name, Vol., page no, year of publication etc.)	ISSN No	Scopus/ Web of Science/ UGC Care	Impact factor (If any)
1	Zingiber zerumbet: A green and ecofriendly natural surfactant for the synthesis of Bis(indolyl)methane, tris-indoline and spirooxindole derivatives	Sustainable Chemistry and Pharmacy 35: 101228, 2023	2352- 5541	Scopus	6.0
2	Zingiber zerumbet (L.) Roscoe ex Sm.: biotechnological advancements and perspectives	Applied Microbiology and Biotechnology, 107: 5613-5625, 2023	1432- 0614	Scopus	5.0
3	Preliminary phytochemical screening, quantification of bioactive compounds and antioxidant potential of <i>Achyranthes aspera</i> L. leaf powder	Journal of Plant Science Research, 39(1): 133-140, 2023	0970- 2539	UGC Care	ı
4	Multidirectional insights into nutritional, phytochemical, antioxidant capability and multivariate analysis of underutilized edible berry plant (<i>Salacia macrosperma</i> Wight) — A novel source for food and pharmaceutical industry	Food Chemistry Advances, 2: 100284, 2023	2772- 753X	Scopus	-
5	Morphological characterization, propagation and identification of	Genetic Resources and Crop Evolution,	1573- 5109	Scopus	2.0

	Boucerosia frerei (G.D.Rowley) Meve & Liede accessions for its introduction in hanging basket: an attractive succulent with star-shaped flowers from the Northern Western Ghats of India	70: 1633-1651, 2023			
6	Antibacterial potential of elicitor- treated callus cultures of saptarangi (Salacia chinensis L.).	Journal of Information and Computational Science, 12(8): 114- 125, 2022	1548- 7741	UGC Care	-
7	Isolation and characterization of bacterial strains obtained from rotten fruits and their application in the production of bioethanol.	Science Research Journal 2(I): 46-51, 2022	ı	1	-
8	Efficient plant regeneration and molecular marker based genetic fidelity assessment of <i>Ceropegia lawii</i> Hook: an endemic and endangered herb.	Journal of Applied Biology and Biotechnology, 10(01): 95-102, 2022	2347- 212X	Scopus	-
10	Elicitor-mediated enhancement of biomass, polyphenols, mangiferin production and antioxidant activities in callus cultures of <i>Salacia chinensis</i> L.	3 Biotech, 11(6): 285, 2022	2190- 5738	Scopus	2.8
11	Plant regeneration through direct and indirect organogenesis, phyto-molecular profiles, antioxidant properties and swertiamarin production in elicitated cell suspension cultures of <i>Swertia minor</i> (Griseb.) Knobl.	Plant Cell, Tissue and Organ Culture, 144: 383–396, 2021	1573- 5044	Scopus	3.0
12	Micropropagation, polyphenol content and biological properties of Sweet Flag (<i>Acorus calamus</i>): a potent medicinal and aromatic herb.	Vegetos, 33: 296– 303, 2020	2229- 4473	Scopus	-
13	Green synthesis of silver nanoparticles using Congress weed – Parthenium hysterophorous.	Science Research Journal (Inter- disciplinary), 1(1): 84-89, 2020	-	-	-
14	Study of physiochemical parameters of soil from Kass plateau.	Science Research Journal (Inter- disciplinary), 1(1): 81-83, 2020	-	-	-

	Assessment of floral diversity	Indian Journal of	2319-		
15	around a historical lake Swatantra- pur, Sangli (Maharashtra, India).	Plant Sciences, 9: 125–135, 2020	3824	UGC Care	-
16	Metabolite profiling, antioxidant potential and RP-UFLC determination of bioactive molecules from eight <i>Swertia</i> species.	Biocatalysis and Agricultural Biotechnology, 23: 101479, 2020	1878- 8181	Scopus	4.0
17	In vitro regeneration approaches for restoration of Ceropegia mohanramii – an endemic and critically endangered asclepiad.	Journal of Genetic Engineering and Biotechnology, 17: 2, 2019	2090- 5920	Scopus	-
18	Floristic study of Kalbhairavnath sacred grove, Bharsakale, Satara, Maharashtra.	Species, 20: 155–162, 2019	2319- 5754	UCG Care	-
19	Micropropagation, metabolite profiling, antioxidant activities and chromatographic determination of bioactive drugs across <i>in vitro</i> conditions and subsequent field cultivation stages of 'Shampoo Ginger' (<i>Zingiber zerumbet</i> L. Roscoe <i>ex</i> Sm).	Biocatalysis and Agricultural Biotechnology, 16: 79–89, 2018	1878- 8181	Scopus	4.0
20	Biosynthesis, characterization and antibacterial capability of silver and copper nanoparticles using aqueous leaf extract of <i>Salacia chinensis</i> L.	Journal of Nanomedicine and Nanotechnology, 9: 484, 2018	2157- 7439	Scopus	-
21	Biotechnological interventions for propagation, conservation and improvement of 'Lantern Flowers' (<i>Ceropegia</i> spp.).	South African Journal of Botany, 114: 192– 216, 2018	1727- 9321	Scopus	3.1
22	Extraction efficiency, phytochemical profiles and antioxidative properties of different parts of Saptarangi (Salacia chinensis L.) – An important underutilized plant.	Biochemistry and Biophysics Reports, 12: 79–90, 2017	2405- 5808	Scopus	2.7
23	Molecular authentication of medicinal plant <i>Swertia chirayita</i> and its adulterant species.	Proceedings of National Academy of Sciences, India, Section B – Biol. Sci., 87(1): 101–107, 2017	2250- 1746	Scopus	-
24	Green synthesis of silver nanoparticles using bamboo extracts and its antimicrobial properties.	Trajectory, 25(2): 7–13, 2017	0975- 1165	-	-
25	Direct and indirect shoot	Journal of Cell	Yet to	-	-

	organogenesis strategies for propagation and conservation of <i>Abutilon ranadei</i> Wooder & Stapf - A critically endangered plant.	Science and Mutations (Formerly, Advances in Cell Science & Tissue Culture), 1(1): 5–8, 2017	receiv e		
26	Micropropagation, molecular profiling and RP-HPLC determination of mangiferin across various regeneration stages of Saptarangi (<i>Salacia chinensis</i> L.).	Industrial Crops and Products, 76: 1123–1132, 2015	1872- 633X	Scopus	5.9
27	Highly efficient <i>in vitro</i> regeneration, establishment of callus and cell suspension cultures and RAPD analysis of regenerants of <i>Swertia lawii</i> Burkill.	Biotechnology Reports, 6: 79–84, 2015	2215- 017X	Scopus	-
28	Optimization of extraction techniques and RP-HPLC analysis of antidiabetic and anti-HIV drug mangiferin from roots of Saptarangi (Salacia chinensis L.).	Journal of Liquid Chromatography and Related Technologies, 38(9): 963–969, 2015	1520- 572X	Scopus	1.3
29	Phytochemical composition, antioxidant activity and HPLC profiles of <i>Swertia</i> species from Western Ghats.	Natural Product Research, 29(8): 780– 784, 2015	1478- 6427	Scopus	2.2
30	Highly efficient <i>in vitro</i> proliferation and genetic stability analysis of micropropagated <i>Ceropegia evansii</i> by RAPD and ISSR markers – a critically endangered plant of Western Ghats.	Plant Biosystems, 149(2): 442–450, 2015	1724- 5575	Scopus	2.0
31	Phytochemical and antimicrobial studies on <i>Asparagus racemosus</i> .	World Journal of Pharmaceutical Research, 4(9): 1805– 1810, 2015	2277- 7105	UGC Care	ı
32	An efficient micropropagation system for <i>Ceropegia noorjahaniae</i> : an endemic and critically endangered plant of Western Ghats, India.	Physiology and molecular biology of plants, 20(3): 405–410, 2014	0974- 0430	Scopus	3.5
33	Discrepancy in polyphenol content and mineral composition from various organs of <i>Solanum xanthocarpum</i> Schrad & Wendl.	National Academy Science Letters, 37(2): 187–190, 2014	2250- 1754	Scopus	1.1
34	Efficiency of direct and indirect	Plant Growth	1573-	Scopus	4.2

	shoot organogenesis, molecular profiling, secondary metabolite production and antioxidant activity of micropropagated <i>Ceropegia</i> santapaui.	Regulation, 72(1): 1– 15, 2014	5087		
35	Application of molecular markers to appraise the genetic fidelity of <i>Ceropegia spiralis</i> – an endangered medicinal plant of South India.	Current Science, 105(10): 1348–1350, 2013	0011- 3891	Scopus	1.0
36	Total phenolics, flavonoids and antioxidant potential of <i>Salacia chinensis</i> L. fruit pulp.	Journal of plant Biochemistry and Biotechnology, 22(4): 409-413, 2013		Scopus	1.9
35	Total phenolics, flavonoids and antioxidant properties of three <i>Ceropegia</i> species from Western Ghats of India.	South African Journal of Botany, 88: 273–277, 2013	1727- 9321	Scopus	3.1
37	High multiplication frequency and genetic stability analysis of <i>Ceropegia panchganiensis</i> , a threatened ornamental plant of Western Ghats: Conservation implications.	Scientia Horticulturae, 161: 134–142, 2013		Scopus	4.3
38	Comparative study of photosynthetic pigments and phenolic content in three <i>Barleria</i> species.	World Journal of Pharmaceutical Research, 2(3): 626– 630, 2013	2277- 7105	UGC Care	-
39	Rapid <i>in vitro</i> propagation of <i>Clematis heynei</i> M. A. Rau; an important medicinal plant.	Emirates Journal of Food and Agriculture, 24(1): 77–82, 2012	2079- 0538	Scopus	1.1
40	Corolla elongation as an aid in self-pollination in <i>Rhamphicarpa</i> longiflora (Scrophulariaceae).	Current Science, 100(11): 1624–1626, 2011	0011- 3891	Scopus	1.0
41	Micropropagation and <i>in vitro</i> flowering of endemic and endangered plant <i>Ceropegia attenuata</i> Hook.	Journal of Plant Biochemistry & Biotechnology, 20(2): 276–282, 2011	0974- 1275	Scopus	1.9
42	In vitro propagation of Ceropegia spiralis Wight – an endemic and rare potential ornamental plant of peninsular India.	Proceedings of the National Academy of Sciences, India, Section B - Biological Sciences 81: 120– 126, 2011	2250- 1746	Scopus	-

E) Paper Presentation in Conference /Seminar/ Symposia: (2017 to 2023)

Sr. No	Title of paper	Name of the Conference /Seminar/ Symposia Details (Title, Date, Page No etc.)	Level (Intl/Natl/ State/Uni.	Organizing institute
1	Cardamine occulta Hornem.: an invasive weed may become medicinal herb.	Recent Advances in Biological Sciences and Biodiversity Conservation' pp-16 (28/12/2022).	National	Shri Shivaji Mahavidyalaya, Barshi
2	Phytochemical analysis of <i>Argyreia osyrensis</i> (Roth) Choisy and <i>A. elliptica</i> (Roth) Choisy.	Recent Advances in Biological Sciences and Biodiversity Conservation (28/12/2022)	National	Shri Shivaji Mahavidyalaya, Barshi
3	An efficient micro- propagation protocol for conservation of an endemic and endangered lantern flower (<i>Ceropegia</i> vincifolia Hook.)	Biodiversity and Biosciences (29/12/2022)	National	Balwant College, Vita,
4	Studies in Section Furcaria of <i>Hibiscus</i> L.(Malvaceae) from Peninsular India.	Biodiversity and Biosciences (29/12/2022)	National	Balwant College, Vita,
5	Comparative account of antibacterial activity of different plant parts of Salacia macrosperma Wight	Emerging Trends in Applied Microbiology and Food Sciences (02-03/11/2022).	International	Y. C. Institute of Science, Satara
6	Report on Cryptovivipary in Wild Caper Bush (Capparis sepiaria L.) Capparaceae.	The Contribution of Angiosperm Diversity to Human Wellbeing and the Risks Associated with its Decline, (11 th -13 th November, 2022).	National	Karnataka University's Karnataka Science College, Dharwad, Karnataka
7	Role of photosynthesis on lipid production in <i>Chlorella</i> sp. and <i>Nannochloropsis</i> sp.	Innovative Trends in Life Sciences, (11-12 th March, 2022).	International	Sadguru Gadage Maharaj College, Karad
8	Comparative account of micro-morphological features among different accessions of <i>Jasminum multiflorum</i> (Burm.f.) Andr. (Oleaceae) from Satara, Maharashtra (India).	Current Approaches in Life Sciences for Sustainable Development, (19 th –20 th March, 2021), pp: 51.	International	Y. C. Institute of Science, Satara

9	Antibacterial properties of elicitor treated callus cultures of <i>Salacia</i> chinensis L	Current Approaches in Life Sciences for Sustainable Development, (19 th –20 th March, 2021), pp: 72.	International	Y. C. Institute of Science, Satara
10	Biotechnological advancement in Lantern Flowers (<i>Ceropegia</i> spp.) – a fascinating group of horticultural importance	Global Biotechnology Conference, (2 nd –3 rd Sept. 2020), pp: 20.	International	Reignite Innovative Conferences, India
	Isolation, characterization and identification of antimicrobial peptide from Bacteria.	Interdisciplinary Approaches in Life Sciences, (2 nd –3 rd February, 2020).	National	Y. C. Institute of Science, Satara
11	To isolate and characterize the oil degrading bacteria from contaminated soil.	Interdisciplinary Approaches in Life Sciences, (2 nd –3 rd February, 2020).	National	Y. C. Institute of Science, Satara
12	Micropropagation and <i>ex vitro</i> rooting of <i>Frerea indica</i> (Dalz.) – An endemic, critically endangered and monotypic plant.	Interdisciplinary Approaches in Life Sciences, (2 nd –3 rd February, 2020).	National	Y. C. Institute of Science, Satara
13	An efficient micropropagation protocol for <i>Vigna khandalensis</i> - an endemic and underutilized legume of the Northern Western Ghats.	Interdisciplinary Approaches in Life Sciences, (2 nd –3 rd February, 2020).	National	Y. C. Institute of Science, Satara
14	Risk estimation and conservation measures to Indian Lantern Flowers (<i>Ceropegia</i> spp.).	Chemistry, Environment and Energy (16 th –18 th February, 2019).	International	Y. C. Institute of Science, Satara
15	Seasonal variation in physicochemical parameters of water from Ujani Reservoir, Solapur District, Maharashtra, India.	Chemistry, Environment and Energy (16 th –18 th February, 2019).	International	Y. C. Institute of Science, Satara
16	Green synthesis of silver nanoparticles using the leaf extract of <i>Bambuseae</i> and study of its antimicrobial activity.	Chemistry, Environment and Energy (16 th –18 th February, 2019).	International	Y. C. Institute of Science, Satara
17	Isolation and	Recent Advances in	International	Y. C. Institute of

	characterization of high alkaline strain of <i>Chlorella</i> form commercial <i>Spirulina</i> production pond.	Renewable Energy and Hygiene Devices, (5-6 th March, 2018).		Science, Satara
18	Water quality profile of Ujani reservoir from Solapur district, (MS) India.	Multidisciplinary Approaches in Life Science: Research and Application for Sustainable Development (5-6 th January, 2018).	National	Y. C. Institute of Science, Satara
19	Isolation and screening of lignin degrading microbes and their potential for dye decolorization.	Multidisciplinary Approaches in Life Science: Research and Application for Sustainable Development (5-6 th January, 2018).	National	Y. C. Institute of Science, Satara
20	Isolation, characterization & purification of bacteriocine producing halophile from Arabian Sea and check their antimicrobial activity.	Multidisciplinary Approaches in Life Science: Research and Application for Sustainable Development (5-6 th January, 2018).	National	Y. C. Institute of Science, Satara
21	Water analysis of different pond ecosystems in Satara district.	Multidisciplinary Approaches in Life Science: Research and Application for Sustainable Development (5-6 th January, 2018).	National	Y. C. Institute of Science, Satara
22	Phytochemical investigation and synthesis of silver nanoparticles from <i>Abelmoschus moschatus</i> .	Multidisciplinary Approaches in Life Science: Research and Application for Sustainable Development (5-6 th January, 2018).	National	Y. C. Institute of Science, Satara
23	Isolation, characterization and identification of methyl orange dye degrading microorganisms from textile effluent.	Multidisciplinary Approaches in Life Science: Research and Application for Sustainable Development (5-6 th January, 2018).	National	Y. C. Institute of Science, Satara
24	Utilization of fruit wastes to produce Single Cell Protein (SCP).	Multidisciplinary Approaches in Life Science: Research and Application for Sustainable Development (5-6 th January, 2018).	National	Y. C. Institute of Science, Satara
25	Differential response of wheat (<i>Triticum aestivum</i> L.) cultivators to PEG 6000 induced drought	Multidisciplinary Approaches in Life Science: Research and Application for Sustainable Development (5-6 th January,	National	Y. C. Institute of Science, Satara

	stress in relation to seed germination and anti-	2018).		
26	oxidant enzyme activity. Isolation, purification and characterization of L-asparaginase producing bacteria from pond water.	Multidisciplinary Approaches in Life Science: Research and Application for Sustainable Development (5-6 th January, 2018).	National	Y. C. Institute of Science, Satara
27	Synthesis of silver nanoparticles from <i>Ocimum sanctum</i> and <i>Murraya koenigii</i> and its antimicrobial activity.	Multidisciplinary Approaches in Life Science: Research and Application for Sustainable Development (5-6 th January, 2018).	National	Y. C. Institute of Science, Satara
28	Isolation and characterization of plant growth promoting endophytic bacteria from <i>Canna indica</i> .	Multidisciplinary Approaches in Life Science: Research and Application for Sustainable Development (5-6 th January, 2018).	National	Y. C. Institute of Science, Satara
29	Isolation and characterization of feather degrading bacteria.	Multidisciplinary Approaches in Life Science: Research and Application for Sustainable Development (5-6 th January, 2018).	National	Y. C. Institute of Science, Satara
30	An improved micropropagation, metabolite profiles and antimicrobial activity of active fractions of 'Sweet Flag' (<i>Acorus calamus</i>): a potent aromatic herb.	Multidisciplinary Approaches in Life Science: Research and Application for Sustainable Development (5-6 th January, 2018).	National	Y. C. Institute of Science, Satara

F) Citation Index

	Google Scholar	Scopus	Web of Science
Citations	796	504	
h-index	16	14	
i10-index	21	18	

Participation in Orientation/Refresher/FDP/Short Term/Training Programs:

Sr. No.	Name of the programme	Organizing institute	Date
1	90 th Orientation Programme	UGC- Academic Staff College, Goa University, Goa	01/11/2014 to 28/11/2014
2	Refresher Course in Life Sciences	UGC-HRDC, University of Mysore, Mysore	03/11/2016 to 23/11/2016

3	Interdisciplinary Refresher Course in	UGC-HRDC, Kannur University,	05/01/2021 to
3	Biological Sciences	Kannur, Kerala	18/01/2021
	Short Term Faculty Development Program	UGC-HRDC, Savitribai Phule Pune	21/05/2020 to
4	on 'Effective Ways to Develop E-Content	University, Pune and K. T. H. M	30/05/2020 to
	for Teaching Learning'	College, Nashik	30/03/2020
	Ten Days Faculty Development Program	UGC-HRDC, Savitribai Phule Pune	15/06/2019 to
5	on 'Innovative Practices in Pedagogy	University, Pune and Azad College of	24/06/2019 to
	(Science)'	Education, Satara	24/00/2017
	National Level One Week Faculty	Yashavantrao Chavan Institute of	27/04/2020 to
6	Orientation Workshop on 'Revised	Science, Satara	02/05/2020
	Guidelines of NAAC'	·	02/03/2020
	Two Weeks Faculty Development	Teaching Learning Center,	20/04/2020 to
7	Programme on "Managing Online Classes	Ramanujan College, University of	06/05/2020
	and Co-Creating Moocs"	Delhi	00/03/2020
	One Day National Level Faculty		
8	Development Workshop on Cyber	Shivaji University, Kolhapur	10/04/2020
	Security'		
		Y. C. Institute of Science, Satara &	
9	Hands on Training Program in Taxonomy	Naoroji Godrej Centre for Plant	29/12/2018
		Research, Shirwal	
	Workshop and Hands-on-training on Plant	Bose Institute (Main Campus),	18/02/2014 to
10	DNA Fingerprinting and Diagnostics of	Kolkata	04/03/2014 to
	Medicinal Potential in Plants		0 1/03/2014
	Training programme on 'Analytical	Department of University Science	
11	Instruments Techniques'	Instrumentation Centre, Shivaji	18-20/03/2009
	monomic reciniques	University Kolhapur	

Participation in Conference/Seminar/Symposia/Workshop/Any other programs: (2017 to 2023)

Sr. No.	Name of the event	Level (Intl/ Natl/ State/ Uni/Local etc.)	Organizing institute	Date
1	National Conference on 'Multidisciplinary Approaches in Life Science: Research and Application for Sustainable Development'	National	Department of Botany & Biotechnology, Yashavantrao Chavan Institute of Science, Satara	5- 6/01/2018
2	International Conference on 'Recent Advances in Renewable Energy and Hygiene Devices'	International	Yashavantrao Chavan Institute of Science, Satara	5- 6/03/2018
	Two Days Lecture Series on 'Issues in Higher Education'	State	Karmaveer Vidyaprabodhini, Satara & D. G. College of Commerce, Satara	7- 8/05/2018

3	One Day Workshop on 'Quality Monitoring of Chemicals, Glassware's and Instruments'	State	Rayat Shikshan Sanstha, Satara & Y. C. Institute of Science, Satara	31/07/2018
4	One Day Workshop on 'Revised NAAC'	National	KBPIMSR, Satara & Ismailsaheb Mulla Law College, Satara	13/10/2018
5	One Day National Workshop on ' Submission of Online AQAR Under Revised NAAC Guidelines'	National	Sardar Babasaheb Mane Mahavidyalaya, Rahimatpur	11/02/2019
6	International Conference on 'Chemistry, Environment and Energy'	International	Yashavantrao Chavan Institute of Science, Satara	16– 18/02/2019
7	Two Day National Workshop on 'Role of IQAC in Extension Activities, Best Practices and Student Progression'	National	Savitribai Phule Mahila Mahavidyalaya, Satara	24- 25/02/2019
8	Two Days Lecture Series on 'Issues in Higher Education'	State	Karmaveer Vidyaprabodhini, Satara & D. G. College of Commerce, Satara	7- 8/05/2019
9	National Conference on 'Interdisciplinary Approaches in Life Sciences'	National	Department of Zoology and Biotechnology, Y. C. Institute of Science, Satara	2- 3/02/2020
10	One Day Workshop on 'Intellectual Property Rights (IPR) for Academia and Industry for Technology Collaboration and Transfer'	Local	Yashavantrao Chavan Institute of Science, Satara	14/03/2020
11	One Day Webinar on 'Molecular Taxonomy and DNA Barcoding: Concepts, Methods and Applications'	National	R. D. & S. H. National College and S. W. A. Science College, Bandra (W), Mumbai	20/05/2020
12	One Day Workshop on 'ICT Enablement in Higher Education for the Betterment of Academic Delivery and Statutory Adherence'	National	Lal Bahadur Shastri College, Satara	21/05/2020
13	One Day Workshop on 'NAAC-	State	YCIS, Satara; RUSA,	01/06/2020

	Revised Accreditation Framework'		Maharashtra; Regional Joint Director, Higher Education, Kolhapur & Shivaji University, Kolhapur	
14	One Day National Webinar on 'Risk of Social Isolation Human Behavior'	National	Chandrabai Shantapa Shendure College, Hupari & Y. C. Institute of Science, Satara	09/06/2020
15	National Webinar on 'Biodiversity and Biotechnological Interventions'	National	Kisan Veer Mahavidyalaya, Wai, Dist - Satara	20/08/2020
16	National Webinar on 'The amazing Power of Botanicals into the area of Cancer Therapy'	National	K. B. P. Mahavidyalaya, Pandharpur, Dist- Solapur	04/11/2020
17	One Day National Seminar on 'National Education Policy – 2020'	National	Yashavantrao Chavan Institute of Science, Satara	23/01/2021
18	International E-Conference on 'Current Approaches in Life Sciences for Sustainable Development'	International	Yashavantrao Chavan Institute of Science, Satara	19- 20/03/2021
19	One Week Online Workshop on 'NAAC Accreditation Process'	National	Modern College of Arts, Science and Commerce (Autonomous), Pune	15/04/2021 to 22/04/2021
20	National Webinar on 'Publication Metrics'	National	Shri Kadasiddheshwar Arts College and H. S. Kotambri Science Institute, Hubballi, Karnataka	03/05/2021
21	One Day State Level Workshop on 'Understanding NAAC Manual'	State	Yashavantrao Chavan Institute of Science, Satara	02/06/2021
22	A Webinar on 'Transformative Reform Under New Education Policy-2020'	National	Shivaji University, Kolhapur	10/08/2021
23	Two Days Workshop on 'Teacher Training for Mentoring and Counseling of Students'	Local	Yashavantrao Chavan Institute of Science, Satara	21-22/10/2021

24	International Conference on Nanobiotechnology	Yashavantrao Chavan Institute of Science, Satara	17 th – 18 th 2023
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Resource person in Conference/Seminar/Workshop/Any other programs: (2018-2023)

S. No.	Title of the event	Level (Intl/ Natl/ State/ Uni./local etc.)	Organizer	Date
	One Day Workshop on 'Plant Tissue Culture'	Local	Sadguru Gadage Maharaj College, Karad	17/10/2018
	Guest lecture on 'Kaas Plateau – World Heritage Site	Local	Yashavantrao Chavan Institute of Science, Satara	26/08/2019
	Guest lecture on 'Kaas Plateau: A world heritage site -diversity, threats and conservation strategies	Local	Shrimant Babasaheb Deshmukh Mahavidyalaya, Atpadi	01/10/2019
	National Level One Week Faculty Orientation Workshop on 'Revised Guidelines of NAAC'	National	Yashavantrao Chavan Institute of Science, Satara	27/04/2020
	National Seminar on 'Tissue Culture and Its Significance	National	Lal Bahadur Shastri College, Satara	10/06/2020
2	International E-Conference on 'Recent Trends in Life Sciences'	International	Shrimant Babasaheb Deshmukh Mahavidyalaya, Atpadi, Dist: Sangli	25/07/2020
	Five Days Induction Program for Students - Education Policy	Local	Yashavantrao Chavan Institute of Science, Satara	10/08/2020
	National Webinar on 'Biodiversity and Biotechnology'	National	Kisan Veer Mahavidyalaya, Wai	20/08/2020
	Six Days Orientation Program for Students of Professional Courses – Higher Education Policy- 2020	National	Yashavantrao Chavan Institute of Science, Satara	24/08/2020
1	Global Biotechnology Conference	International	Reignite Innovative Conferences, India	02/09/2020
5	National Level Workshop on 'The Power of Feedback in Higher Education Institution'	National	Shri Kadasiddheshwar Arts College and H. S. Kotambri Science	19/09/2020

Internal Quality Assurance Cell (IQAC), YCIS, Satara

			Institute, Hubballi, Karnataka	
	Guest lecture on 'Research, Innovation, Linkages and Incubation'	Local	Arts and Commerce College, Satara	29/01/2021
	One Day Workshop on 'A Qualitative Research Approach'	Local	Yashavantrao Chavan Institute of Science, Satara	22/05/2021
4	National Webinar on 'Role of Biotechnology in Biodiversity Conservation'	National	Yashwantrao Chavan Warna Mahavidyalaya, Warnanagar	28/07/2021
	One Day Workshop on 'National Education Policy- 2020 and its Relevance in NAAC Accreditation'	National	Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College, Manchar, Dist: Pune	14/10/2021
	Staff academy	Local	Ismailsaheb Mulla Law College, Satara	13/12/2021
3	National Level Guest Lecture Series under DBT Star College Scheme	National	Shri Shivaji Mahavidyalaya, Barshi, Dist: Solapur	19/03/2022
	Career opportunities in advanced plant sciences	Local	Lal Bahadur Shastri College, Satara	04/04/2022
	One Day State Level Awareness Workshop on 'Strategies for Implementation of NEP-2020 In Maharashtra State'	State	Yashavantrao Chavan Institute of Science, Satara	21/12/2022

Chaired Sessions in Conference/Seminar/Workshop etc.:

S. No.	Title of the event	Level (Intl/Natl/ State/Uni./local etc.)	Organizer	Date
1	International Conference on 'Multidisciplinary Approach and Innovations in Chemical Sciences'	International	Department of Chemistry, Y. C. Institute of Science, Satara	25- 26/03/2022
2	International Conference on 'Emerging Trends and Challenges in Electronics and Computing	International	Department of Electronics, Yashavantrao Chavan Institute of Science, Satara	4-6/03/2021
3	International Conference on	International	Department of	5-6/03/ 2018

	'Recent Advances in Renewable Energy and Hygiene Devices		Electronics, Yashavantrao Chavan Institute of Science, Satara	
4	6 th International Conference on 'Recent Trends in Life Sciences'	International	New Arts, Commerce and Science, College, Parner Dist. Ahmednagar	29- 30/12/2017
5	International Conference on 'Plant Research and Resource Management'	International	Tuljaram Chaturchand College, Baramati, Dist- Pune	11- 13/02/2016
6	International Conference on 'Contemporary Research in Chemical and Life Sciences,	International	Sadguru Gadage Maharaj College, Karad	22- 23/04/2015
7	National Conference on 'Applications of Forensic Science for Societal Development'	National	Yashavantrao Chavan Institute of Science, Satara	21- 22/12/2019
8	National level Conference on 'Status, Opportunities and Challenges in Life Sciences'	National	Radhabai Kale Mahila Mahavidyalaya, Ahmednagar held	17- 19/09/2013

Sheely Signature of Faculty