

CURRICULUM VITAE

- 1) Name : **Dr. Madhuri Pravinkumar Patil**
2) Educational Qualification : M. Sc. M. Phil., Ph. D.
3) Present Designation : Assistant Professor and P. G. Co-ordinator (Botany)
4) Date of Birth : 11/05/1984
5) Contact No. : 9767223369
6) Email ID : patilmadhuri352@gmail.com
7) Date of Appointment : 09/07/2011
8) Teaching Experience : 12 Years
9) Date of joining in present college: 09/07/2011

10) Educational Qualification:

Sr. No.	Examination Passed	University/ Board	Year of Passing	Subject(s)	Class/ Grade
1.	B.Sc.	Shivaji University, Kolhapur	2004	Botany	First Class with distinction
2.	M.Sc.	Shivaji University, Kolhapur	2006	Botany	First Class
3.	M.Phil.*	Shivaji University, Kolhapur	2009	Plant Taxonomy	'A' Grade
4.	Ph.D.**	Savitribai Phule Pune University, Pune.	2015	Plant Physiology	Awarded

11) Total Research Publications : 21

a. M.Phil. / Ph.D./Research

Sr. No.	M.Phil./ Ph.D. Thesis Title	Name of The Univ.	Year of award	Name of Guide
1	Morphotaxonomical Studies of weeds in Some Dicot Crops, Around, Satara (Maharashtra)	Shivaji University, Kolhapur	2009	Dr. V. P. Khandekar
2.	Physiological and microbial studies in a weed <i>Aristolochia bracteolata</i> Lam.	Savitribai Phule Pune University, Pune	2015	Prin. Dr. C. V. Murumkar

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b. Book:

Sr. No.	Title of Book	Year of publication	ISBN	Name & Place of Publisher
	NA			

c. Chapter in Book:

Sr. No.	Title of Book & Name of Editor	Title of the Chapter	Year of publication	ISBN	Name & Place of Publisher
1	Flavonoides as Nutraceuticals by Deepika Saini and Rajesh Kesarwani	Flavonoids their Classes and biosynthesis,	Aug. 2023	9781774913826	Apple academic Press Taylor and Francis Group
2	Women Today as Savitri Reborn”(□□□□ □□□□□□ -□□□□ □□□□□□□□).	Women in STEM	March 2022	978-93-5626-941-5	AES, Baramati
3	Ayurvedic Remedies For The Diseases of Microbial origin	“Ayurvedic Remedies of Covid-19 and Mucormycosis	MAR 2022	978-81-956220-4-7	Academic Decipher press, Mumbai
4	PLANTA -: 474 – 479 (Research Book Series – www.pgrindias.in) https://pgrindias.in/current-volume/	CAM mechanism in arid plants,	Vol.-2, 2021	978-81-953419-4-8	Plantica Foundation Dehradun
5	Conservation of Wild Taxa: Present Scenario	Influence of salt stress on Peroxidase and Catalase activity in Cicer aritinum L. leave ,	2021	978-81-926339-06	Shri. Y. P. S College, Solankur

d. Research Paper:

Sr. No.	Title of the Paper	Name of Journal	Yr. of publication	ISBN	UGC. No./Impact Factor/ Citation Details
1	Response of secondary	Journal of stress Physiology and	2021	1997-0838.	

	metabolites in <i>Aristolochia bracteolata</i> Lam. Under water stress regimes,	Biochemistry,			
2	Effect of onion and garlic biowaste on germination and growth of microgreens	Int. J. Sci Rep.	2021	2454-2156 (Print) 2454-2164 (Online)	
3	Adoptive mechanism in some plants of tropical arid region of Maharashtra	Indian Journal of Applied and Pure biology	2021	0970-2091	Web of science
4	Nitrogen partitioning in <i>Aristolochia bracteolata</i> Lam.,	International Journal of Engineering, Applied and Management Sciences Paradigms(IJEAM),	2019		
5	Occurrence of CAM activity in <i>Capparisdecidua</i> (Forssk) Edg	Genetics and Plant Physiology	2017		
6	Antimicrobial activity reported in a weed <i>Aristolochia bracteolate</i> Lam	J. Nat. Prod. Plant Resour,	2012	2131-3184	
7	Report of Facultative CAM in <i>Aristolochia bracteolate</i> Lam.	Adv. Plant. Sci.,	2012	097-3586	
8	Biosynthesis of silver nanoparticles from leaf tissue of <i>Martynia annua</i> Linn	International research journal of Science and Engineering	2023	2322-0015	
9	Isolation, Structure Elucidation and Antimicrobial Studies of Aristolochic Acid from <i>Aristolochia bracteolata</i> Lam.	International research journal of Science and Engineering	2023	2322-0015	

10	Extraction and Characterization of Tannins from <i>Cassia tora</i> Linn Leaves	Proceeding of International e-Conference on Emerging methodologies in Pharma, Environmental science and life sciences (EMETHPELS), 2020	2020	18 th and 19 th June 2020.	
11	Report of Antifungal activities from <i>Aristolochia bracteata</i> Retz.	proceeding of State level Seminar on Recent Innovative trends in Plant Sciences	2012	978-81-924995-1-2.	
12.	Weed diversity in Rabi season around Satara	Trajectory (A biannual journal of research article),	2008		
13.	Smart India through Green 3P Concept	Proceeding of 6 th National Conference on 'Skill Convergence: A Management Path for Sustainable Development	2017	978-81-5257-3-0.	
14	Weed population associated with Dicot crops around Satara,	Bioinfolet (Quarterly journal of life sciences), 6(1):74-76.	2009	-	
15	Nitrogen metabolism in desert bloom <i>Capparis decidua</i> (Forssk) Edg.	International Journal of Research and Analytical Reviews (IJRAR) June 2021, Volume 8, Issue 2	2021	(E-ISSN 2348-1269, P-ISSN 2349-5138)	UGC approved

e. Research Project:

Sr. No.	Name of Funding Agency	Project Title	Funds Received	Month and Year of sanction	Duration of the Project	Status of Project
	NA					

f. Papers presented in Seminar / Conference:

Sr. No.	Name of the Conference/	Title of the paper	Date	Level (State/	Name of the Organizer
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	Seminar			National/ International)	
1	International Conference on “Recent Trends in Materials Science: Synthesis, Characterization and Applications (RTMS-2023)” 3 and 4 th January 2023,	Biosynthesis of silver nanoparticles by using leaf tissue of <i>Martynia annua</i> Linn.”	3 and 4 th January 2023,	International	Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati (Pune) Maharashtra, India.
2	9 th International congress of Society for Ethnopharmacology, India.	Phytochemical screening and antioxidant studies in leaf and stem of <i>Martynia annua</i> L.	22nd-24th April 2022	International	JSS AHER Medical Institution Campus, Mysuru.
3	National Level Women’s Conference on “Women Today as Savitri Reborn”(□□□□ □□□□□□ -□□□□ □□□□□□□□).	women in STEM.	09 th - 10 th March, 2022.	National	Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati (Pune) Maharashtra, India.
4	Two days “International Conference on Research Interventions and Technological Advancement in Plant Sciences (RITAPS)	Phytochemical Studies in Putranjiva roxburghii	on 26 th and 27 th March 2021	International	Shri Pancham Khemraj Mahavidyalaya Sawantwadi in association of Plant Science Research Dehradun.
5	One day International e – conference on Conservation of Wild Taxa: Present Scenario, Solankaur.	Effect of water stress on mineral nutrition in <i>Cicer aritinum</i> L.	5 th Feb 2021.	International	by Department of Botany, Shri. Y. P. Science College,

6	International e-Conference on Emerging methodologies in Pharma, Environmental science and life sciences (EMETHPELS), 2020	Extraction and Characterization of Tannins from <i>Cassia tora</i> Linn Leaves	18 th and 19 th June 2020.	International	Government College, IYCollege of Arts, Science and Commerce, Jogeshawari East 400060, Mumbai,
7	International Conference on Empowering Society with Microbial Technology	Synthesis of silver nanoparticles from <i>Martynia annua</i> Leaves.	7/02/2019 to 9/02/2019.	International	T. C. College, Baramati,
8	International Conference on Applied Nanotechnology and Nanosciences,	Isolation, Structure Elucidation and Antimicrobial Studies of Aristolochic Acid from <i>Aristolochia bracteolata</i> Lam.	7 th - 9 th Dec. 2017.	International	Department of Physics, T. C. College, Baramati
9	International Conference on Plant Research and Resource Management,	Facultative CAM mechanism in <i>Aristolochia bracteolata</i> Lam.	11 th and 13 th Feb.2016.	International	By Dept. of Botany Tuljaram Chaturchand College, Baramati.
10	XVII Annual conference of Indian association for Angiosperm Taxonomy and international seminar on changing scenario in Angiosperm systematics	Weed diversity in dicot crops from satara area.	19-21 th Nov.2007.	International	Botany Dept.Shivaji University Kolhapur.
11	International Conference on Current Trends in medicinal plants research	CAM studies in <i>Aristolochia bracteolata</i> Lam.	10 th -12 th January, 2012.	International	Department of Botany, University of Pune.

12	National conference on plant Physiology-2021 on Frontiers of plant Physiology for smart Agriculture	Effect of water stress on some secondary metabolites in <i>Aristolochia 7bracteolata</i> Lam	9 th to 11 th Dec. 2021.	National	ICAR-NIASM, Malegaon
13	National Conference on Health care, agriculture and Sustainable Development in New Millenium,	Physiological studies in <i>Aristolochia bracteolata</i> Lam.	1 st and 2 nd Feb. 2015.	National	Smt. N.M. Padalia Pharmacy College, Ahmedabad
14	21 st APSI Scientists Meet 2012 and National Conference on Recent Trends in Plant Sciences	CAM mechanism in <i>Aristolochia bracteolata</i> Lam.	3 rd to.5 th Feb.2012	National	Tuljaram Chaturchand College, Baramati
15	22 nd APSI Scientists Meet 2014 and National Conference on Biodiversity and Ecological Sustainability	Mineral nutrition in <i>Aristolochia bracteolata</i> Lam.	Feb. 15 th and 16 th ,2014	National	S.C.S.(J) College, Puri, Odisha and APSI, Muzaffarnagar (U.P.)
16	National conference on Interdisciplinary aspects of Plant Sciences	Physiological studies in <i>Tinospora cordifolia</i> L.	2 nd to 4 th Nov. 2017.	National	Shri Mata Vaishno Devi University, Katra, Jammu and Kashmir,
17	National Conference on Skill Convergence – Management Path for Sustainable Development,		6 th -7 th Oct. 2017.		AIMS, Baramati,

g. Patents published

/Registered: _____ NA _____

12) Research Guidance:

a) Guide ship Details

Sr. No.	M.Phil./ Ph.D. Guide	Name of University	Month & Year of recognition	No. of Research Scholars	
				Completed	Perusing
1	NA				
2					

b) Research Guidance

Sr. No.	Name of Scholar	Name of University	Month and Year Registration	Title of the Research
1	NA			
2				

13) Professional recognition / award/ fellowship etc.

Sr. No.	Name of Award/ Recognition	Awarding Agency	Date
1	Young Plant Scientist Award	Plantica Foundation Dehradun	March, 2021
2	Best Poster Presentation Award	APSI, Muzafarnagar, UP.	Feb. 2016

E-Content Development:

Sr. No.	Title of Content	Level (UG/ PG / ALL)	Platform	Link of E-Content
1	Floriculture : Concept, classes of cut flowers, important floricultural crops, open cultivation, marketing and harvesting of Tuberose medicinal importance, economic importance of Tuberose	U. G	You-tube	https://youtu.be/bwqDq4XnmJY
2	Floriculture : Green House Technology	U. G	You-tube	https://youtu.be/msNfHdAHKnY
3	Floriculture : Gerbera Cultivation	U. G	You-tube	https://youtu.be/HQEpQpAGzgs
4	Plant Tissue Culture Part I: Concept, Principle, Media preparation, Sterilization	U. G	You-tube	https://youtu.be/zbJcFYHlioE
5	Applications of Plant tissue Culture	U. G	You-tube	https://youtu.be/gBoB6s5qz58
6	Plant Tissue Culture Part II: Inoculation, Incubation, Hardening of tissue cultured plant	U. G	You-tube	https://youtu.be/fABM8ylvK2w
7	Mushroom Cultivation Part I: For Introduction of Mushrooms, structure of fruiting body, commercially cultivated	U. G ALL	You-tube	https://youtu.be/aoVOyxvYLI8

	mushrooms in India watch the previous link			
8	Mushroom Cultivation Part II: Spawn, Substrate preparation, Inoculation, Harvesting of mushrooms	U. G All	You-tube	https://youtu.be/phh0M2GCaUA
9	Mushroom Cultivation Part III Uses Nutritional content Value added Products	U. G All	You-tube	https://youtu.be/bmBW5rQkKT4
10	Stone grafting	All	You-tube	https://youtu.be/FV3uJ5c4hzQ
11	Approach grafting	All	You-tube	https://youtu.be/hMWwFzdBfX8
12	Cutting methods in plants	All	You-tube	https://youtu.be/-J143dzQF90
13	Air layering	All	You-tube	https://youtu.be/2kC7yMNeMy0
14	Plant Identification	All	You-tube	https://youtu.be/Sp3_s3Cvaqk
15	<i>Pinus</i> : Reproduction	All	You-tube	https://youtu.be/9g09w8EnvLc
16	<i>Pinus</i> : Morphology, Anatomy	All	You-tube	https://youtu.be/HarhfZv6lhw
17	Economic Importance of Gymnosperms	All	You-tube	https://youtu.be/qrXqj91PWdg
18	Introduction, General Characters of Gymnosperms and Classification of Gymnosperms (Chamberlin,1934)	All	You-tube	https://youtu.be/nogPb2jPEwQ
19	Definition,process of fossil formation,Types of fossils-Impression,Compression, Petrification,Pith Cast, Coal Balls	All	You-tube	https://youtu.be/GyFVmuRUxGw
20	Study of Fossil orders(Part I): Psilopsida, Lycopside Salient features of Psilopsida with example of <i>Rhynia</i> external and internal structure and Lycopside with example <i>Lepidodendron</i> external and internal structure	All	You-tube	https://youtu.be/ly28ALicZCw
21	Fossil Orders Part 2: Sphenopsida- Salient features of Calamitales, External and internal morphology of Calamites Pteridosperms- External and internal morphology of <i>Lyginopteris oldhamia</i> . Pentoxylae- Salient feature, external and internal morphology of Stem [<i>Pentoxylon</i>] Leaf[<i>Nipaniophyllum</i>]	All	You-tube	https://youtu.be/2wQc9p5gY5A
22	GTS	All	You-tube	https://youtu.be/-RulCw-jNvw
23	<i>Gnetum</i> : Morphology and Antomy	All	You-tube	https://youtu.be/cqhn0EOmkQg
24	<i>Gnetum</i> : Reproduction	All	You-tube	https://youtu.be/O2OZ4yGI2Q4
25	Respiration in Plants	All	You-tube	https://youtu.be/LnH64VjJeoU

26	Plant Systematics Part I	P. G	You-tube	https://youtu.be/nBQgGR_5fSQ
27	Plant Systematics Part II: Species concept, Alpha, Beta, Omega Taxonomy, Taxonomy as synthetic discipline	P. G	You-tube	https://youtu.be/Eu1ppoKwmCQ
28	ICBN : Rules Regulations, Principle, Governance of code	P. G	You-tube	https://youtu.be/4qScbK-IEXc
29	Systems of Angiosperm classification Artificial Classification , Natural Classification ,Phylogenetic Classification, Phenetic versus phylogenetic systems	P. G	You-tube	https://youtu.be/SvZ1Pj1ddGw
30	Cladistics in Taxonomy	P. G	You-tube	https://youtu.be/NCDy50w2Vo4
31	APG system	P. G	You-tube	https://youtu.be/STKEo9fPFuA
32	Recent Systems of Classification	P. G	You-tube	https://youtu.be/vOXZDAywGkM
33	Introduction to Statistic: Concept: Sample, Population, Variable, Attribute	P. G	You-tube	https://youtu.be/iPFOMk9kVgo
34	Central tendency: Measures of Central Tendency: Mean, Median, Mode	U. G and P. G	You-tube	https://youtu.be/Lky1tMtBFmw
35	Central Dispersion, Skewness and Curtosis: Range, Standard Deviation, Coefficient of variation Skewness and Curtosis explained with examples	U. G and P. G	You-tube	https://youtu.be/FdtIYv7GIIQ
36	Student t test	P.G.	You-tube	https://youtu.be/SVvMkeDVbBU
37	F test	P.G.	You-tube	https://youtu.be/4FWIq115SPY
38	Chi square test	P.G.	You-tube	https://youtu.be/1gp2ZyncBGg
39	Testing of Hypothesis	P.G.	You-tube	https://youtu.be/L8YQ4C_DOAg
40	Dunnnett's Test	P.G.	You-tube	https://youtu.be/ZsIwGppwnP0
41	Duncan's Test	P.G.	You-tube	https://youtu.be/2v_mubrU8KM
42	Tukey's Test	P.G.	You-tube	https://youtu.be/_1ChL_wVR4Q
43	CRD	P.G.	You-tube	https://youtu.be/jW_xAzxHzII
44	Mann Whitney U test	P.G.	You-tube	https://youtu.be/CZq2T5dl5U8
45	ANOVA	P.G.	You-tube	https://youtu.be/tX_rXpjRSgA
46	Designing of Experiment	P.G.	You-tube	https://youtu.be/rXrX0quDPoA
47	Spearman's Rank Correlation Coefficient	P.G.	You-tube	https://youtu.be/yKKNvmHXcOw
48	Principles of Designing of experiment: Fishers Diagram: Fishers Diagram Explaining 3	U.G .P.G.	You-tube	https://youtu.be/Jx0wT9Op-ZI

	basic principles of experiment Replication, Randomization and Local control			
49	Regression	P.G.	You-tube	https://youtu.be/vIBvNqGZLWI
50	Correlation	P.G.	You-tube	https://youtu.be/vYJXxTDEQDY
51	Karl Pearson Correlation coefficient: Interpretation, steps to calculate, solved example	P.G.	You-tube	https://youtu.be/d29yYEHdcEU
52	Seed Germination	P.G.	You-tube	https://youtu.be/nRF36MVeMD8
53	Factors Affecting Seed Germination	P.G.	You-tube	https://youtu.be/OGWkf_48g-c
54	Methods of breaking seed Dormancy: Natural, Morphological and Physiological Seed dormancy breaking methods in detail.	P.G.	You-tube	https://youtu.be/SHCtcgueu84
55	Nature and Scope of environment	U. G.	You-tube	https://youtu.be/YWTr3sH09UA
56	Biosphere	U. G.	You-tube	https://youtu.be/cw9sHCme3ww
57	Biotic and abiotic components	U. G.	You-tube	https://youtu.be/3E4tIYbGjJo
58	Direct method of gene transfer	P. G	You-tube	https://youtu.be/rh-sg2YRqOY
59	Agrobacterium mediated gene transfer	P. G	You-tube	https://youtu.be/4fJFtO5uoEY
60	cDNA construction, Genomic library	P. G	You-tube	https://youtu.be/SKPb-3jEcKs
61	DNA isolation and purification	P. G	You-tube	https://youtu.be/-J8fGD029uA
62	Blotting techniques	P. G	You-tube	https://youtu.be/VHWFLqpe27c
63	Types of mutations	P. G	You-tube	https://youtu.be/rYXhd_fq65k
64	Mutation, causes and detection	P. G	You-tube	https://youtu.be/E6n39tpQRao
65	Concept of gene allele and pseudoallele	P. G	You-tube	https://youtu.be/YHMKK_g7mGI
66	Apospory, Apogamy and Parthenogenesis	P. G	You-tube	https://youtu.be/i3BgMvJRo7E
67	Heterospory and seed Habit	P. G	You-tube	https://youtu.be/3WmSWEJSB9g
68	Seed dispersal Ruillea	All	You-tube	https://youtu.be/-4eBE4HVhHY
69	Magnoliaceae	P. G	Google classroom	https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MTU3MMDMxNDgzOTM4/details
70	Origin of angiosperms	P. G	Google Classroom	https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MTU3MjA3NTQyNzZw/details

71	Capparidaceae	P. G	Google Classroom	https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MjAzMzkxMzIwODAx/details
72	Caesalpinaceae, Mimosaceae, leguminaceae	P. G	Google Classroom	https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MjAzMzg0MzIyNDY2/details
73	Asteraceae	P. G	Google Classroom	https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MTU3MDI2MzY2MDU0/details
74	Lamiaceae	P. G	Google Classroom	https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MTU3MDMxODY1MDg2/details
75	Rhmnaceae	P. G	Google Classroom	https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MjAzNzE1NjcyNDc3/details
76	Orchidaceae	P. G	Google Classroom	https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MTU3MDI3MDY2NzM5/details
77	Acanthaceae	P. G		https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MjAzMzk1MjI0NTE4/details
78	Nyctaginaceae, Cannaceae	P. G		https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MjAzNzE1NjcyNDg3/details
79	Classification systems	P. G		https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MTkwMjU4MjcwOTg0/details

14) Work Experience on Academic Bodies and other:

Sr.No.	Designation/ Position	Duration	Name of Institute / University	Details
1	P. G. Co-ordinator	15/06/2015 to till date	T. C. College, Baramati	-
2	Member College Development Committee (CDC)	2022 to 2025	T. C. College, Baramati	-
3	Paper Setter		T. C. College, Baramati	Examiner for U. G. and P. G.
4	Paper Setter	2022-2025	SPPU, Pune	Paper Setter

15) Life Membership of Profession Bodies:

Sr.No.	Name of Professional Body
NA	

16) Any other Attainment:

- A) Master trainer of MS-DEED Level 2 of MSFDA May 2022.
- B) Worked as resource person for Seed ball making workshop from 2020 to 2023
- C) Member of Green audit committee.
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