

## 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 : 13 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       | Neutraceuticals in Respiratory and Pulmonary Diseases  | Novel biomolecules from plants with potential against respiratory disease<br>A critical analysis | Apr. 2024           | ISBN hard: 978-1-77491-382-6.<br>ISBN ebook: 9781003412441 | Apple academic Press Taylor and Francis Group |
| 2       | Biodiversity in Western Ghats<br>Kalpit Mhetre   | Biodiversity of weeds with special reference to ethanobotany from Western Ghats of Maharashtra   | Aug. 2024.          | ISBN 978-81-19492-58-9                                     | Mahi publications,                            |
| 3       | The Millet Revolution The Miracle for human Health<br>Dr. Ruchita Shrivastava  | Millet: An Overlooked Treasure Trove of Nutritional Value  | August 2024         | ISBN 13 :978-81-19622-75-7                                 | Academic Research , New Delhi.                |
| 4       | Flavonoides as Neutraceuticals by Deepika Saini and Rajesh Kesarwani   | Flavonoids their Classes and biosynthesis,   | Aug. 2023           | 9781774913826  | Apple academic Press Taylor and Francis Group |
| 5       | Women Today as Savitri Reborn”(□□□□ □□□□□□ -□□□□ □□□□□□□□).  | Women in STEM  | March 2022          | 978-93-5626-941-5  | AES, Baramati                                 |
| 6       | 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               |
| 7       | PLANTA -: 474 – 479 (Research Book Series – <a href="http://www.pgrindias.in">www.pgrindias.in</a> ) <a href="https://pgrindias.in/current-volume/">https://pgrindias.in/current-volume/</a> | CAM mechanism in arid plants,  | Vol.-2, 2021        | 978-81-953419-4-8  | Plantica Foundation Dehradun                  |

|   |   |  |      |                  |                                 |
|---|---|--|------|------------------|---------------------------------|
|   |   |  |      |                  |                                 |
| 8 | Conservation of Wild Taxa: Present Scenario | Influence of salt stress on Peroxidase and Catalase activity in <i>Cicer aritinum</i> 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 metabolites in <i>Aristolochia bracteolata</i> Lam. Under water stress regimes, | Journal of stress Physiology and Biochemistry,  | 2021               | 1997-0838.                              | -  |
| 2       | Effect of onion and garlic biowaste on germination and growth of microgreens                          | Int. J. Sci Rep.  | 2021               | 2454-2156 (Print)<br>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</i>  | Adv. Plant. Sci.,   | 2012               | 097-3586                                | -  |

|     |   |   |      |  |     |
|-----|---|---|------|--|-----|
|     | <i>bracteolate</i> Lam.   |   |      |  |     |
| 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 <sup>th</sup> and 19 <sup>th</sup> 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 <sup>th</sup> 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  | International Journal   | 2021 | (E-ISSN 2348-1269, P- ISSN                       | UGC |

|  |  |   |  |            |                 |
|--|--|---|--|------------|-----------------|
|  | metabolism in desert bloom<br><i>Capparis decidua</i><br>(Forssk) Edg. | of Research and Analytical Reviews (IJRAR) June 2021, Volume 8, Issue 2 |  | 2349-5138) | <b>approved</b> |
|--|--|---|--|------------|-----------------|

**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 |
|---------|--|---|----------------|----------------------------|-------------------------|-------------------|
| 1       | Anekant Education Society's Tuljaram Chaturchand College of Arts, Commerce and science, Baramati (Empowered Autonomous) under Teacher Seed Money | Ex-Situ conservation of Giant water lilies in Kavivarya Moropant Botanical Garden, Tuljaram Chaturchand College, of Arts, Science and Commerce Baramati (Empowered Autonomous)" | 1,15,000/-     | Oct. 2023                  | 1 Yr                    | Completed         |
|         |  |   |                |                            |                         |                   |

**f. Papers presented in Seminar / Conference:**

| Sr. No. | Name of the Conference/ Seminar  | Title of the paper   | Date   | Level (State/ National/ International) | Name of the Organizer  |
|---------|--|--|--|--|--|
| 1       | International Conference on "Biotechnology for a Better Tomorrow."   | A panoramic study in <i>Artemisia pallens</i> for its bioactive compounds and medicinal assets (India) | 16 <sup>th</sup> and 17 <sup>th</sup> May 2024." | International                          | Microbiology Society of India and "Institute of Fundamental and Applied Research, Tashkent, Uzbekistan |
| 2       | International Conference on "Recent Trends in Materials Science: Synthesis, Characterization and Applications (RTMS-2023)" 3 and 4 <sup>th</sup> January 2023, | Biosynthesis of silver nanoparticles by using leaf tissue of <i>Martynia annua</i> Linn."              | 3 and 4 <sup>th</sup> January 2023,              | International                          | Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati (Pune)                            |

|   |   |  |   |               |   |
|---|---|--|---|---------------|---|
|   |   |  |   |               | Maharashtra, India.   |
| 3 | One day Multidisciplinary conference on Plants Enviroment and sustainable agriculture.  | Allelopathic potential of weed <i>Martynia Annu</i> L on some dicot and monocot crop seeds   | 11 March, 2024                                      | National      | Late Babasaheb Deshmukh Gorthekar Acs mahavidyalaya, Umri. Taluka Umri, dist Nanded.            |
| 4 | National Conference on Research in the life science with special Emphasis on Medicinal Plants” organised under Ashwangandha Campaign. | Palynological studies in some plants of family Bignoniaceae,                                 | 2 <sup>nd</sup> and 3 <sup>rd</sup> Feb. 2024       | National      | National Medicinal Plant Board Ministry of AYUSH, Govt. of India at SPM, Malegaon, Baramati     |
| 5 | 9 <sup>th</sup> International congress of Society for Ethnopharmacology, India.   | Phytochemical screening and antioxidant studies in leaf and stem of <i>Martynia annua</i> L. | 22 <sup>nd</sup> -24 <sup>th</sup> April 2022       | International | JSS AHER Medical Institution Campus, Mysuru.  |
| 6 | National Level Women’s Conference on “Women Today as Savitri Reborn”(□□□□ □□□□□□ -□□□□ □□□□□□□□).                                     | Women in STEM.   | 09 <sup>th</sup> - 10 <sup>th</sup> March, 2022.    | National      | Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati (Pune) Maharashtra, India. |
| 7 | Two days “International Conference on Research Interventions and Technological Advancement in Plant Sciences (RITAPS)                 | Phytochemical Studies in <i>Putranjiva roxburghii</i>  | on 26 <sup>th</sup> and 27 <sup>th</sup> March 2021 | International | Shri Pancham Khemraj Mahavidyalaya Sawantwadi in association with Plant                         |

|           |   |   |  |               |  |
|-----------|---|---|--|---------------|--|
|           |   |   |  |               | Science Research Dehradun.   |
| <b>8</b>  | 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 <sup>th</sup> Feb 2021.                        | International | Department of Botany, Shri. Y. P. Science College,   |
| <b>9</b>  | 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 <sup>th</sup> and 19 <sup>th</sup> June 2020. | International | Government College, IY College of Arts, Science and Commerce, Jogeshawari East 400060, Mumbai, |
| <b>10</b> | 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,   |
| <b>11</b> | International Conference on Applied Nanotechnology and Nanosciences,  | Isolation, Structure Elucidation and Antimicrobial Studies of Aristolochic Acid from <i>Aristolochia bracteolata</i> Lam. | 7 <sup>th</sup> - 9 <sup>th</sup> Dec. 2017.     | International | Department of Physics, T. C. College, Baramati   |
| <b>12</b> | International Conference on Plant Research and Resource Management,   | Facultative CAM mechanism in <i>Aristolochia bracteolata</i> Lam.   | 11 <sup>th</sup> and 13 <sup>th</sup> Feb. 2016. | International | By Dept. of Botany Tuljaram Chaturchand College, Baramati.                                     |
| <b>13</b> | XVII Annual conference of Indian association for Angiosperm Taxonomy and international seminar on changing scenario in Angiosperm | Weed diversity in dicot crops from satara area.   | 19-21 <sup>th</sup> Nov. 2007.                   | International | Botany Dept. Shivaji University Kolhapur.  |

|           |  |  |   |               |  |
|-----------|--|--|---|---------------|--|
|           | systematics  |  |   |               |  |
| <b>14</b> | International Conference on Current Trends in medicinal plants research  | CAM studies in <i>Aristolochia bracteolata</i> Lam.  | 10 <sup>th</sup> -12 <sup>th</sup> January, 2012. | International | Department of Botany, University of Pune.                      |
| <b>15</b> | 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 8bracteolata</i> Lam | 9 <sup>th</sup> to 11 <sup>th</sup> Dec. 2021.    | National      | ICAR-NIASM, Malegaon   |
| <b>16</b> | National Conference on Health care, agriculture and Sustainable Development in New Millenium,                    | Physiological studies in <i>Aristolochia bracteolata</i> Lam.                                | 1 <sup>st</sup> and 2 <sup>nd</sup> Feb. 2015.    | National      | Smt. N.M. Padalia Pharmacy College, Ahmedabad                  |
| <b>17</b> | 21 <sup>st</sup> APSI Scientists Meet 2012 and National Conference on Recent Trends in Plant Sciences            | CAM mechanism in <i>Aristolochia bracteolata</i> Lam.  | 3 <sup>rd</sup> to 5 <sup>th</sup> Feb. 2012      | National      | Tuljaram Chaturchand College, Baramati                         |
| <b>18</b> | 22 <sup>nd</sup> APSI Scientists Meet 2014 and National Conference on Biodiversity and Ecological Sustainability | Mineral nutrition in <i>Aristolochia bracteolata</i> Lam.                                    | Feb. 15 <sup>th</sup> and 16 <sup>th</sup> , 2014 | National      | S.C.S.(J) College, Puri, Odisha and APSI, Muzaffarnagar (U.P.) |
| <b>19</b> | National conference on Interdisciplinary aspects of Plant Sciences   | Physiological studies in <i>Tinospora cordifolia</i> L.                                      | 2 <sup>nd</sup> to 4 <sup>th</sup> Nov. 2017.     | National      | Shri Mata Vaishno Devi University, Katra, Jammu and Kashmir,   |
| <b>20</b> | National Conference on Skill Convergence – Management Path for Sustainable Development,                          |  | 6 <sup>th</sup> -7 <sup>th</sup> Oct. 2017.       |               | AIMS, Baramati,  |



- g. **Patents published /registered: “Pot for cooling of water”.** Design No. 407844-001, Prof. Dr. Bhagawan Shankar Mali, Dr. Rupali dinesh Chitale, Madhuri Pravinkumar Patil, Vaishali bhagawan Mali, Mr. Sharad shriram Gore. Government of India.

**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       | Best oral presentation award   | “Institute of Fundamental and Applied Research, Tashkent, Uzbekistan | May,2024    |
| 2       | Young Plant Scientist Award    | Plantica Foundation Dehradun   | March, 2021 |
| 3       | Best Poster Presentation Award | APSI, Muzzafarnagar, 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 | <a href="https://youtu.be/bwqDq4XnmJY">https://youtu.be/bwqDq4XnmJY</a> |

|    |  |             |          |   |
|----|--|-------------|----------|---|
| 2  | Floriculture :Green House Technology   | U. G        | You-tube | <a href="https://youtu.be/msNfHdAHKnY">https://youtu.be/msNfHdAHKnY</a> |
| 3  | Floriculture :Gerbera Cultivation  | U. G        | You-tube | <a href="https://youtu.be/HQEpQpAGzgs">https://youtu.be/HQEpQpAGzgs</a> |
| 4  | Plant Tissue Culture Part I: Concept, Principle, Media preparation, Sterilization  | U. G        | You-tube | <a href="https://youtu.be/zbJcFYHIioE">https://youtu.be/zbJcFYHIioE</a> |
| 5  | Applications of Plant tissue Culture   | U. G        | You-tube | <a href="https://youtu.be/gBoB6s5qz58">https://youtu.be/gBoB6s5qz58</a> |
| 6  | Plant Tissue Culture Part II: Inoculation, Incubation, Hardening of tissue cultured plant  | U. G        | You-tube | <a href="https://youtu.be/fABM8ylvK2w">https://youtu.be/fABM8ylvK2w</a> |
| 7  | Mushroom Cultivation Part I: For Introduction of Mushrooms, structure of fruiting body, commercially cultivated mushrooms in India watch the previous link | U. G<br>ALL | You-tube | <a href="https://youtu.be/aoVOyxvYLI8">https://youtu.be/aoVOyxvYLI8</a> |
| 8  | Mushroom Cultivation Part II: Spawn, Substrate preparation, Inoculation, Harvesting of mushrooms   | U. G<br>All | You-tube | <a href="https://youtu.be/phh0M2GCaUA">https://youtu.be/phh0M2GCaUA</a> |
| 9  | Mushroom Cultivation Part III Uses Nutritional content Value added Products  | U. G<br>All | You-tube | <a href="https://youtu.be/bmBW5rQkKT4">https://youtu.be/bmBW5rQkKT4</a> |
| 10 | Stone grafting   | All         | You-tube | <a href="https://youtu.be/FV3uJ5c4hzQ">https://youtu.be/FV3uJ5c4hzQ</a> |
| 11 | Approach grafting  | All         | You-tube | <a href="https://youtu.be/hMWwFzdBFX8">https://youtu.be/hMWwFzdBFX8</a> |
| 12 | Cutting methods in plants  | All         | You-tube | <a href="https://youtu.be/-J143dzQF90">https://youtu.be/-J143dzQF90</a> |
| 13 | Air layering   | All         | You-tube | <a href="https://youtu.be/2kC7yMNeMy0">https://youtu.be/2kC7yMNeMy0</a> |
| 14 | Plant Identification   | All         | You-tube | <a href="https://youtu.be/Sp3_s3Cvaqk">https://youtu.be/Sp3_s3Cvaqk</a> |
| 15 | <i>Pinus</i> : Reproduction  | All         | You-tube | <a href="https://youtu.be/9g09w8EnvLc">https://youtu.be/9g09w8EnvLc</a> |
| 16 | <i>Pinus</i> : Morphology, Anatomy   | All         | You-tube | <a href="https://youtu.be/HarhfZv6lhw">https://youtu.be/HarhfZv6lhw</a> |
| 17 | Economic Importance of Gymnosperms   | All         | You-tube | <a href="https://youtu.be/qrXqj91PWdg">https://youtu.be/qrXqj91PWdg</a> |
| 18 | Introduction, General Characters of Gymnosperms and Classification of Gymnosperms (Chamberlin,1934)  | All         | You-tube | <a href="https://youtu.be/nogPb2jPEwQ">https://youtu.be/nogPb2jPEwQ</a> |
| 19 | Definition,process of fossil formation,Types of fossils-Impression,Compression,  | All         | You-tube | <a href="https://youtu.be/GyFVmuRUxGw">https://youtu.be/GyFVmuRUxGw</a> |

|    |  |      |          |   |
|----|--|------|----------|---|
|    | Petrification, Pith Cast, Coal Balls   |      |          |   |
| 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 | <a href="https://youtu.be/ly28ALicZCw">https://youtu.be/ly28ALicZCw</a> |
| 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 | <a href="https://youtu.be/2wQc9p5gY5A">https://youtu.be/2wQc9p5gY5A</a> |
| 22 | GTS  | All  | You-tube | <a href="https://youtu.be/-RulCw-jNvw">https://youtu.be/-RulCw-jNvw</a> |
| 23 | <i>Gnetum</i> : Morphology and Antomy  | All  | You-tube | <a href="https://youtu.be/cqhn0EOmkQg">https://youtu.be/cqhn0EOmkQg</a> |
| 24 | <i>Gnetum</i> : Reproduction   | All  | You-tube | <a href="https://youtu.be/O2OZ4yGI2Q4">https://youtu.be/O2OZ4yGI2Q4</a> |
| 25 | Respiration in Plants  | All  | You-tube | <a href="https://youtu.be/LnH64VjJeoU">https://youtu.be/LnH64VjJeoU</a> |
| 26 | Plant Systematics Part I   | P. G | You-tube | <a href="https://youtu.be/nBQgGR_5fSQ">https://youtu.be/nBQgGR_5fSQ</a> |
| 27 | Plant Systematics Part II: Species concept, Alpha, Beta, Omega Taxonomy, Taxonomy as synthetic discipline  | P. G | You-tube | <a href="https://youtu.be/Eu1ppoKwmCQ">https://youtu.be/Eu1ppoKwmCQ</a> |
| 28 | ICBN : Rules Regulations, Principle, Governence of code  | P. G | You-tube | <a href="https://youtu.be/4qScbK-IEXc">https://youtu.be/4qScbK-IEXc</a> |
| 29 | Systems of Angiosperm classification Artificial Classification , Natural Classification ,Phylogenetic Classification, Phenetic versus phylogenetic systems   | P. G | You-tube | <a href="https://youtu.be/SvZ1Pj1ddGw">https://youtu.be/SvZ1Pj1ddGw</a> |
| 30 | Cladistics in Taxonomy   | P. G | You-tube | <a href="https://youtu.be/NCDy50w2Vo4">https://youtu.be/NCDy50w2Vo4</a> |
| 31 | APG system   | P. G | You-tube | <a href="https://youtu.be/STKEo9fPFuA">https://youtu.be/STKEo9fPFuA</a> |
| 32 | Recent Systems of Classification   | P. G | You-tube | <a href="https://youtu.be/vOXZDAywGkM">https://youtu.be/vOXZDAywGkM</a> |
| 33 | Introduction to Statistic: Concept: Sample, Population,  | P. G | You-tube | <a href="https://youtu.be/iPFOMk9kVgo">https://youtu.be/iPFOMk9kVgo</a> |

|    | Variable, Attribute  |               |          |   |
|----|--|---------------|----------|---|
| 34 | Central tendency: Measures of Central Tendency: Mean, Median, Mode   | U. G and P. G | You-tube | <a href="https://youtu.be/LkyltMtBFmw">https://youtu.be/LkyltMtBFmw</a>   |
| 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 | <a href="https://youtu.be/FdtIYv7GIIQ">https://youtu.be/FdtIYv7GIIQ</a>   |
| 36 | Student t test   | P.G.          | You-tube | <a href="https://youtu.be/SVvMkeDVbBU">https://youtu.be/SVvMkeDVbBU</a>   |
| 37 | F test   | P.G.          | You-tube | <a href="https://youtu.be/4FWIq115SPY">https://youtu.be/4FWIq115SPY</a>   |
| 38 | Chi square test  | P.G.          | You-tube | <a href="https://youtu.be/1gp2ZyncBGg">https://youtu.be/1gp2ZyncBGg</a>   |
| 39 | Testing of Hypothesis  | P.G.          | You-tube | <a href="https://youtu.be/L8YQ4C_DOA_g">https://youtu.be/L8YQ4C_DOA_g</a> |
| 40 | Dunnnett's Test  | P.G.          | You-tube | <a href="https://youtu.be/ZsIwGppwnP0">https://youtu.be/ZsIwGppwnP0</a>   |
| 41 | Duncan's Test  | P.G.          | You-tube | <a href="https://youtu.be/2v_mnbrU8KM">https://youtu.be/2v_mnbrU8KM</a>   |
| 42 | Tukey's Test   | P.G.          | You-tube | <a href="https://youtu.be/_1ChL_wVR4Q">https://youtu.be/_1ChL_wVR4Q</a>   |
| 43 | CRD  | P.G.          | You-tube | <a href="https://youtu.be/jW_xAzxHzII">https://youtu.be/jW_xAzxHzII</a>   |
| 44 | Mann Whitney U test  | P.G.          | You-tube | <a href="https://youtu.be/CZq2T5dI5U8">https://youtu.be/CZq2T5dI5U8</a>   |
| 45 | ANOVA  | P.G.          | You-tube | <a href="https://youtu.be/tX_rXpjRSgA">https://youtu.be/tX_rXpjRSgA</a>   |
| 46 | Designing of Experiment  | P.G.          | You-tube | <a href="https://youtu.be/rXrX0quDPoA">https://youtu.be/rXrX0quDPoA</a>   |
| 47 | Spearman's Rank Correlation Coefficient  | P.G.          | You-tube | <a href="https://youtu.be/yKKNvmHXcOw">https://youtu.be/yKKNvmHXcOw</a>   |
| 48 | Principles of Designing of experiment: Fishers Diagram: Fishers Diagram Explaining 3 basic principles of experiment Replication, Randomization and Local control | U.G .P.G.     | You-tube | <a href="https://youtu.be/Jx0wT9Op-ZI">https://youtu.be/Jx0wT9Op-ZI</a>   |
| 49 | Regression   | P.G.          | You-tube | <a href="https://youtu.be/vIBvNqGZLWI">https://youtu.be/vIBvNqGZLWI</a>   |
| 50 | Correlation  | P.G.          | You-tube | <a href="https://youtu.be/vYJXxTDEQDY">https://youtu.be/vYJXxTDEQDY</a>   |
| 51 | Karl Pearson Correlation coefficient: Interpretation, steps to calculate, solved example   | P.G.          | You-tube | <a href="https://youtu.be/d29yYEHdcEU">https://youtu.be/d29yYEHdcEU</a>   |

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| 52 | Seed Germination  | P.G.  | You-tube | <a href="https://youtu.be/nRF36MVeMD8">https://youtu.be/nRF36MVeMD8</a>   |
| 53 | Factors Affecting Seed Germination  | P.G.  | You-tube | <a href="https://youtu.be/OGWkf_48g-c">https://youtu.be/OGWkf_48g-c</a>   |
| 54 | Methods of breaking seed Dormancy: Natural, Morphological and Physiological Seed dormancy breaking methods in detail. | P.G.  | You-tube | <a href="https://youtu.be/SHCtcgueu84">https://youtu.be/SHCtcgueu84</a>   |
| 55 | Nature and Scope of environment   | U. G. | You-tube | <a href="https://youtu.be/YWTr3sH09UA">https://youtu.be/YWTr3sH09UA</a>   |
| 56 | Biosphere   | U. G. | You-tube | <a href="https://youtu.be/cw9sHCme3ww">https://youtu.be/cw9sHCme3ww</a>   |
| 57 | Biotic and abiotic components   | U. G. | You-tube | <a href="https://youtu.be/3E4tIYbGjJo">https://youtu.be/3E4tIYbGjJo</a>   |
| 58 | Direct method of gene transfer  | P. G  | You-tube | <a href="https://youtu.be/rh-sg2YRq0Y">https://youtu.be/rh-sg2YRq0Y</a>   |
| 59 | Agrobacterium mediated gene transfer  | P. G  | You-tube | <a href="https://youtu.be/4fJFtO5uoEY">https://youtu.be/4fJFtO5uoEY</a>   |
| 60 | cDNA construction, Genomic library  | P. G  | You-tube | <a href="https://youtu.be/SKPb-3jEcKs">https://youtu.be/SKPb-3jEcKs</a>   |
| 61 | DNA isolation and purification  | P. G  | You-tube | <a href="https://youtu.be/-J8fGD029uA">https://youtu.be/-J8fGD029uA</a>   |
| 62 | Blotting techniques   | P. G  | You-tube | <a href="https://youtu.be/VHWFLqpe27c">https://youtu.be/VHWFLqpe27c</a>   |
| 63 | Types of mutations  | P. G  | You-tube | <a href="https://youtu.be/rYXhd_fq65k">https://youtu.be/rYXhd_fq65k</a>   |
| 64 | Mutation, causes and detection  | P. G  | You-tube | <a href="https://youtu.be/E6n39tpQRao">https://youtu.be/E6n39tpQRao</a>   |
| 65 | Concept of gene allele and pseudoallele   | P. G  | You-tube | <a href="https://youtu.be/YHMKK_g7mGI">https://youtu.be/YHMKK_g7mGI</a>   |
| 66 | Apospory, Apogamy and Parthenogenesis   | P. G  | You-tube | <a href="https://youtu.be/i3BgMvJR07E">https://youtu.be/i3BgMvJR07E</a>   |
| 67 | Heterospory and seed Habit  | P. G  | You-tube | <a href="https://youtu.be/3WmSWEJSB9g">https://youtu.be/3WmSWEJSB9g</a>   |
| 68 | Seed dispersal Ruillea  | All   | You-tube | <a href="https://youtu.be/-4eBE4HVhHY">https://youtu.be/-4eBE4HVhHY</a>   |
| 69 | Plastic Collection Drive on The Occasion of World Earth Day 22 April 2024.  | All   | You-tube | <a href="https://studio.youtube.com/video/GchaFu1_9mE/edit">https://studio.youtube.com/video/GchaFu1_9mE/edit</a> |
| 70 | <i>Victoria</i> Neverland Mumbai (F2) cultivation in Botanical Garden, T.C.College, Baramati, Maharashtra             | All   | You-tube | <a href="https://studio.youtube.com/video/5fJ9HpnlvVE/edit">https://studio.youtube.com/video/5fJ9HpnlvVE/edit</a> |
| 71 | <i>Nymphaea</i> Manaswini Bloom   | All   | You-tube | <a href="https://studio.youtube.com/video/sb4BZXxZJ3A/edit">https://studio.youtube.com/video/sb4BZXxZJ3A/edit</a> |

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| 72 | Lotus bloom @Kavivarya Moropant Botanical Garden, T.C.College, Baramati (Maharashtra)                                | All  | You-tube         | <a href="https://youtu.be/bD57GpBIDm4?si=Vz5SsZ_zfI92omcZ">https://youtu.be/bD57GpBIDm4?si=Vz5SsZ_zfI92omcZ</a>   |
| 73 | Nelumbo nucifera (Lotus) in Kavivarya Moropant Botanical Garden, T.C.College, Baramati                               | All  | You-tube         | <a href="https://studio.youtube.com/video/8nwt5MpKNdo/edit">https://studio.youtube.com/video/8nwt5MpKNdo/edit</a>   |
| 74 | Hybrids developed by Mr.Somnath Pal (Water lily and lotus Hybridizer)  | All  | You-tube         | <a href="https://youtu.be/-OzHN0RzUyA">https://youtu.be/-OzHN0RzUyA</a>   |
| 75 | □□□□□□ □□□□ □□□□□□<br>□□□□□□, □□□□□□□□□□<br>□□□□□□ □□□□□□,<br>□□□□□□□□□□ □□□□□□□□<br>□□□□□□□□□□□□□□□□, □□□□□<br>□□□□ | All  | You-tube         | <a href="https://studio.youtube.com/video/78xJVrlzKGc/edit">https://studio.youtube.com/video/78xJVrlzKGc/edit</a>   |
| 76 | Blooms of lotus and water lily in Botanical Garden T.C.College, Baramati   | All  | You-tube         | <a href="https://youtube.com/shorts/Barh-sac9S4">https://youtube.com/shorts/Barh-sac9S4</a>   |
| 77 | Water Poppy (Hydrocleys nymphoides) at Botanical Garden, T.C. College, Baramati .                                    | All  | You-tube         | <a href="https://youtube.com/shorts/TnPcVCBEwa4">https://youtube.com/shorts/TnPcVCBEwa4</a>   |
| 78 | Painted Lady Water Lily  | All  | You-tube         | <a href="https://youtube.com/shorts/fV0Wx28_x0">https://youtube.com/shorts/fV0Wx28_x0</a>   |
| 79 | Miniature of Water lily  | All  | You-tube         | <a href="https://youtube.com/shorts/mJSJSq5AiW0">https://youtube.com/shorts/mJSJSq5AiW0</a>   |
| 80 | Blooms of lotus and water lily in Botanical Garden T.C.College, Baramati   | All  | You-tube         | <a href="https://youtube.com/shorts/Barh-sac9S4">https://youtube.com/shorts/Barh-sac9S4</a>   |
| 81 | Magnoliaceae   | P. G | Google classroom | <a href="https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MTU3MDMxNDgzOTM4/details">https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MTU3MDMxNDgzOTM4/details</a> |
| 82 | Origin of angiosperms  | P. G | Google Classroom | <a href="https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MTU3MjA3NTQyNzMw/details">https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MTU3MjA3NTQyNzMw/details</a> |
| 83 | Capparidaceae  | P. G | Google Classroom | <a href="https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MjAzMzkxMzIwODAx/details">https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MjAzMzkxMzIwODAx/details</a> |
| 84 | Caesalpinaceae, Mimosaceae, leguminaceae   | P. G | Google Classroom | <a href="https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MjAzMzg0MzIyNDY2/details">https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MjAzMzg0MzIyNDY2/details</a> |
| 85 | Asteraceae   | P. G | Google Classroom | <a href="https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MTU3MDI2MzY2MDU0/details">https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MTU3MDI2MzY2MDU0/details</a> |

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| 86 | Lamiaceae                | P. G | Google Classroom | <a href="https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MTU3MDMxODY1MDg2/details">https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MTU3MDMxODY1MDg2/details</a> |
| 87 | Rhmnaceae                | P. G | Google Classroom | <a href="https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MjAzNzE1NjcyNDc3/details">https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MjAzNzE1NjcyNDc3/details</a> |
| 88 | Orchidaceae              | P. G | Google Classroom | <a href="https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MTU3MDI3MDY2NzM5/details">https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MTU3MDI3MDY2NzM5/details</a> |
| 89 | Acanthaceae              | P. G | Google Classroom | <a href="https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MjAzMzk1MjI4NTE4/details">https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MjAzMzk1MjI4NTE4/details</a> |
| 90 | Nyctaginaceae, Cannaceae | P. G | Google Classroom | <a href="https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MjAzNzE1NjcyNDg3/details">https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MjAzNzE1NjcyNDg3/details</a> |
| 91 | Classification systems   | P. G | Google Classroom | <a href="https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MTkwMjU4MjcwOTg0/details">https://classroom.google.com/c/MTI2NDUxMDU3NDc5/p/MTkwMjU4MjcwOTg0/details</a> |

#### 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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