

Department of BOTANY

1. Name of the Department: **Botany**
2. Year of establishment: **June 1962**
3. Names of programme offered: - **UG- PG, M.Phil., Ph.D.**
4. Interdisciplinary programmes and departments involved collaboration with:- Zoology in COC course Soil and Water Analysis.
5. Examination System: Annual/Semester (Trimester Choice Based Credit) System: **Semester (U.G), CBCS (PG)**
6. Participation of The department in the courses offered by other department:- **Yes, in certificate course offered by dept of zoology in Soil and water analysis.**
7. Courses in collaboration with other universities, industries, foreign institutions, etc.-
8. Details of programmes discontinued, if any, with reasons -
9. **Number of teaching posts sanctioned, filled and actual:**

| | Sanctioned | Filled |
|-----------------------------|------------|--------|
| Professors | 01 | 00 |
| Associate Professors | 04 | 03 |
| Assistant Professors | 01 | 01 |

10. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance No. of Ph.D./M.Phil. (Guided for the last 4 years)

| Name | Qualification | Designation | Area of Specialization | Experience | No. of students under guidance in last for four years. |
|-------------------|---------------|---------------------|--------------------------------------|------------|--|
| Dr. Patil C. R. | M.Sc. Ph.D. | Associate professor | Mycology and Plant pathology | 28 | 01 Awarded 06 |
| Dr. Khade S. K. | M.Sc. Ph.D. | Associate Professor | Plant Physiology | 27 | -- 05 (00) |
| Dr. Kale P. B. | M.Sc. Ph.D. | Associate Professor | Plant Physiology | 27 | -- -- |
| Dr. Patil V. A. | M.Sc. Ph.D. | Associate Professor | Mycology and Plant pathology | 26 | -- |
| Dr. Ingle S. T. | M.Sc. Ph.D. | Assistant Professor | Palaeobotany | 23 | -- |
| Miss. Shinde M.Y. | M.Sc | Assi. Prof (C.H.B) | Plant Physiology | 3 | --- |
| Miss. Kattee A.V. | M.Sc | Assi. Prof (C.H.B) | Angiosperm Taxonomy | 3 | --- |
| Miss. Wadkar P.U. | M.Sc | Assi. Prof (C.H.B) | Cytogenetics and Plant Breeding | 2 | --- |
| Dr. Patil S.M. | M.Sc Ph.D. | Assi. Prof (C.H.B) | Plant Ecology and Cryptogamic Botany | 5 | --- |
| Mr. Jadhav K.S. | M.Sc | Assi. Prof (C.H.B) | Cytogenetics and Plant Breeding | 1 | --- |
| Miss Dopare B.S. | M.Sc | Assi. Prof (C.H.B) | Mycology and Plant pathology | 6 | --- |

11. List of Senior Visiting faculty, adjunct faculty, emeritus professors

Dr. S. R. Yadav Dr. D. K. Gaikwad Dr. R. V. Gurav
Dr. V. B. Shimple Dr. Kalyani B. Pawar Dr. S. S. Sathe
Dr. C. B. Salunkhe Dr. M. S. Nimbalkar Mr. S. A. Mohite
Dr. N. A. Kulkarni Dr. Mayur Kamble Dr. (Smt.) V. D. Jadhav

12. Percentage of lectures delivered and practical classes handled by temporary faculty
(Grantable- 30%, Non-Grantable-100%)**13. Programme-wise Student Teacher Ratio:-**

| Sr. No | Class | No. of Students | No. of Teachers | Ratio |
|--------|----------|-----------------|-----------------|---------|
| 1 | B.sc I | 165 | 06 | 27.5:1 |
| 2 | B.sc II | 97 | 06 | 16.16:1 |
| 3 | B.sc III | 29 | 06 | 4.83:1 |
| 4 | M.Sc | 09 | 02 | 4.5:1 |

14. Number of academic support staff (technical) and administrative staff sanctioned filled and actual: -

| Posts | Sanctioned | Filled |
|----------------------|------------|----------|
| <i>Lab Assistant</i> | <i>1</i> | <i>1</i> |
| <i>Lab Attendant</i> | <i>2</i> | <i>2</i> |
| <i>Lab peon</i> | <i>1</i> | <i>1</i> |

15. Qualifications of teaching Faculty with Ph.D./ M.Phil./PG:

Faculty with Ph. D., -05

16. Number of faculty with ongoing projects from:

- (i) National: Nil
(ii) International funding agencies Nil
(iii) Total grants received: Nil

17. Departmental projects funded by DST-FIST; UGC-SAP/CAS, OPE; DBT, ICSSR, AICTE, etc. total grants received:-

- a. **Dr S. C. Patil Rajaram College Kolhapur (P.I) and Dr. C. R. Patil (Co.PI) (Major) –** Digital Inventory of medicinal plants resources of Maharashtra (Ratnagiri and Sindhudurg Dist.) RGSTC(Rajiv Gandhi Science and Technology Commission) and ARI (2009-12).
Completed 17, 40, 000/-

- b. **Dr. S. T. Ingle (PI) and Dr. C. R. Patil (Co.PI) (Minor)** – Assessment of medicinal plants from forest of some holy places in Hatkanangale Tahsil. **UGC Rs. 1, 35, 000/-**
- c. **Dr. P. B. Kale (PI) (Minor)** – To study the soil problems created due to over irrigation and heavy use of chemical fertilizers along the Krishna and Panchaganga Rivers belt from Shirol Tahsil Dist. Kolhapur. **UGC Rs.1, 65, 000/-**
- d. **Dr. V. A. Patil (PI) (Minor)** – Studies on diseases and insect pests management of grapevine from Miraj and Tasgaon Tahsil, and its importance in relation to grape yield. **UGC Rs. 55,000/-**
- e. **Shri K.Y Mane (PI) and Dr. V. A. Patil (Co-PI) (Minor)** – **Study of Mineral deficiency in grapeyard with special reference from Miraj & Tasgaon Tahasil**

18. Research centre/ faculty recognized by the university:- Shivaji University Kolhapur recognized department of botany as research laboratory for M.Phil. and Ph.D.

19. Publications: ---

- Number of papers published in peer review journal (national/international):

| Sr. No | Faculty Name | No of paper published |
|--------|-----------------|-----------------------|
| 1 | Dr.Patil C.R. | 27 |
| 2 | Dr. Khade S.K. | 24 |
| 3 | Dr. Patil V.A. | 03 |
| 4 | Dr. Ingale S.T. | 08 |
| 5 | Dr. Patil S.M. | 06 |
| 6 | Miss. Katti A.V | 01 |

Faculty publications:- 60, Student publication:- 08

* Dr. C.R. Patil contributed for Kumar Vishvakosh published by महाराष्ट्र राज्य मराठी

विश्वकोश निर्मिती मंडळ मुंबई.

Books with ISBN with details of publishers:

| Sr. No. | Author/s Name | Title of the Book | ISBN/ ISSN | Publisher & Year |
|---------|------------------------------|--|------------|------------------------|
| 1 | Dr. C. R. Patil & co-authors | Text Book of Botany / B.Sc.- I/ Sem.I/ Paper-I | P5350 | Phadke Publ., Kop.2011 |
| 2 | Dr. C. R. Patil | Text Book of Botany / B.Sc.- I/ Sem.II/ Paper-III | P5693 | Phadke Publ., Kop.2012 |
| 3 | Dr. C. R. Patil 3 co-authors | Text Book of Botany / B.Sc.- I/ Sem.I/ Paper-V | P5503 | Phadke Publ., Kop.2011 |
| 4 | Dr. C. R. Patil | Text Book of Botany / B.Sc.- I/ Sem.IV/ Paper-VIII | P5583 | Phadke Publ., Kop.2013 |

| | | | | |
|----|------------------------------|---|---------------------------|------------------------|
| 5 | Dr. C. R. Patil co-authors | B.Sc.-I - Practical Handbook of Botany | ISBN No.978-93-84-23-31-4 | Phadke Publ., Kop.2014 |
| 6 | Dr. C. R. Patil & co-authors | Text Book of Botany / B.Sc.-I/ Sem.II/ Paper-III | P5831 | Phadke Publ., Kop.2014 |
| 7 | Dr. C. R. Patil & co-authors | Text Book of Botany / B.Sc.-I/ Sem.II/ Paper-IV | P5825 | Phadke Publ., Kop.2014 |
| 8 | Dr. C. R. Patil & co-authors | Text Book of Botany / B.Sc.-I/ Sem.I/ Paper-II | P5748 | Phadke Publ., Kop.2013 |
| 9 | Dr. C. R. Patil & co-authors | Text Book of Botany / B.Sc.-II/ Sem.IV/ Paper-VII | P5564 | Phadke Publ., Kop.2013 |
| 10 | Dr. C. R. Patil | Text Book of Botany / B.Sc.-II/ Sem.II/ Paper-VI | P5504 | Phadke Publ., Kop.2013 |
| 11 | Dr. C. R. & co-authors | Text Book of Botany / B.Sc.-II/ Sem.III/ Paper-V | ISBN No.978-93-84-23-54-3 | Phadke Publ., Kop.2013 |
| 12 | Dr. C. R. Patil & co-authors | Text Book of Botany / B.Sc.-II/ Sem.III/ Paper-VI | No.978-93-84-23-88-8 | Phadke Publ., Kop.2013 |
| 13 | Dr. C. R. Patil & co-authors | Text Book of Botany / B.Sc.-II/ Sem.III/ Paper-VI | No.978-93-84-23-46-8 | Phadke Publ., Kop.2014 |
| 14 | Dr. C. R. Patil & co-authors | Hand Book of Practical Botany B.Sc.-I | P5576 | Phadke Publ., Kop.2012 |
| 15 | Dr. C. R. Patil & co-authors | Text Book of Botany / B.Sc.-II/ Sem.I/ Paper-I | ISBN No.978-93-84-23-17-8 | Phadke Publ., Kop.2013 |
| 16 | Dr. C. R. Patil & co author | Text Book of Botany / B.Sc.-II/ Sem.I/ Paper-II | ISBN 978-93-84-23-18-5 | Phadke Publ., Kop.2013 |
| 17 | Dr. C. R. Patil & co author | Text Book of Botany / B.Sc.-II/ Sem.II/ Paper-III | 978-93-84-23-19-2 | Phadke Publ., Kop.2014 |
| 18 | Dr. C. R. Patil & co author | Text Book of Botany | 978-93-84-23-20-8 | Phadke Publ., Kop.2014 |

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20. Areas of consultancy and income generated- Free consultancy to i) farmers to identification of crop diseases; biofertilizer preparation ii) D pharm, B pharm students for identification of medicinal plants.

21. Faculty serving in:

- a. National committees – Mycological Society of India
Indian Botanical Society, Jaipur
- b. International Committees - Nil
- c. Editorial Board – Nil

22. Student projects

- a) Percentage of students who have done in-house projects including interdepartmental projects— Yes 100%,
- b) Percentage of students doing project in in collaboration with other industry/ institute:
Nil

23. Awards /recognitions received at the national and international level by

- a. Faculty: - Nil
- b. Student: - Best Paper Presentation at National Conference held at Jaysingpur College, Jaysingpur to Mr. Bhise M.R. (Ph.D. Student)

24. List of eminent academicians and scientists/ visitors to the department:

1. Dr. Abrar Ahmed, Invited Talk Scientists, NCL, Pune
2. Prof. S. R. Yadav, Shivaji University, Kolhapur
3. Dr. Ch. Ramesh, Karnataka University, Dharwad
4. Dr. Milind Sardesai, BAMU, Aurangabad
5. Prof. M. B. Muley, BAMU, Aurangabad.
6. Dr. C. B. Salunkhe, Krishna Mahavidyalaya, Rethare Bk.,
7. Dr. Mayur Kamble Scientist BSI Andman Nicobar.

25. Seminars/Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any:

- I) Biodiversity Conservation for Livelihood (14 to 15 December 2012) UGC sponsored 2day national conference (120 Participants)
- II) Lead college workshop – Garden development and conservation: 144 Participants
- III) Syllabus workshop (B.Sc Part III Botany) Sept 2015 (120 Participants)

26. Student profile programme course-wise:

| Name of the course & Year | Application Received | No of students Enrolled | | | Pass Percentage |
|---------------------------|----------------------|-------------------------|--------|------|-----------------|
| | | Sancationed | Female | Male | |
| B.Sc III 2015-16 | 29 | 29 | 25 | 04 | 100% |

27. Diversity of Students -2015-16

| Name of the Course | % of Students from Same State | % of Students from other State | %of Students from Abroad |
|--------------------|-------------------------------|--------------------------------|--------------------------|
| B. Sc. | 100 | — | — |

28. How many students have cleared national and state competitive and Defence Services examinations, such as NET, SET, GATE civil services defense services etc.:- Nil

29. Student progression-2015-16

30. Infrastructural Facilities

| Student Progression | Percentage against enrolled |
|---------------------|-----------------------------|
| UG to PG | 30.2% |
| Campus | Nil |
| Entrepreneurship | Nil |
| PG to Ph.D. | Nil |

a) Library:

Number of Books in Departmental Library = **80**

Number of periodicals = **13**

b) Internet Facilities for Staff and Students: 03 internet connection

c) Total Number of class rooms with ICT 01

d) Total Number of Student's laboratories: 04

31. Number of students receiving financial assistance from college, university, government or other agencies:

Students from socially and economically under privileged groups are availed scholarship/freeship from state Government.

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:-

a. Motivating for participation in lead college and syllabus workshops poster and wall paper prentation

b. Exhibition on biodiversity conservation, articles from plant resources, International Ozone day celebration fungi wealth of western ghats, ferns of wesrten ghats.

c. Botany club activities- Biography of Indian Botanists, Plant Pathologists

d. Wild life week celebration

e. organization of guest lectures.

f. Google class room prepration on syllabi units.

g. Film show on plant life.

- h. Display of research papers published by faculty
- i. Organization of excursion tours
- j. Execution of certificate courses

33. Teaching methods adopted to improve student learning

- | | |
|--------------------------------|------------------------|
| i. Power Point Presentation | ii. Group Discussion |
| iii. Surprise Test | iv. Seminars |
| v. Home Assignments | vi. Unit test |
| vii. Pre- semester examination | viii. Demonstrations |
| ix. Flow Charts | x. MCQ Tests |
| xi. Orals | xii. You tube lectures |

34. Participation in institutional social responsibility (ISR) and extension activities:

◆Pollution awareness, ◆Health camps ◆ Biodiversity Conservation Awareness ◆ ozone depletion exhibition ◆ plantation ◆ Garden development ◆ Environment awareness ◆ organization of lectures on biodiversity conservation ◆ diversity of flowering plants of western ghats - ◆ botanic gardens and importance in conservation plants ◆ conservation of biodiversity of western ghats ◆ diversity of Andaman and Nicobar islands

35. SWOC analysis and future plans of the department

Strengths

1. Well Qualified faculty: 04 Recognized Research guides
2. P. G. programme in Botany
3. Recognized research laboratory.
4. Consultancy services provided.
5. Two Certificate Course
6. Rich Museum
7. Linkages with industries
8. Departmental library
9. Faculty active in research activities, publication of books
10. Organized national conference.
11. Department conduct “Tree census of Ichalkaranji city.”
12. Department provides coaching for M.Sc entrance examination.

Weaknesses

1. Laboratory yet to be well equipped
2. No international seminar/conference.

Opportunities

1. Enrichment of departmental library
2. To start NET/SET guidance center.
3. To strengthen research activities.
4. To start plant clinic

Challenges

1. To organize International seminar/ conference

Future plans of the department.

1. Renovation and extension of research laboratory.
2. Campus beautification
3. To start plant clinic.
4. To Initiate Collaborative and Interdisciplinary research activities.
5. To set plant clinic.