

## **ACHIEVEMENTS AND RANKS OF STUDENTS :**

- Good results are obtained in biotechnology from 2015 to 2020 .
- The Department has kept a constant high standard of students' performance in University exam by achieving commendable result performance ranging between 92% to 100% passing, with good number of students getting first class with Distinction.

## **JAM EXAM : ( Joint Admission test )**

Students qualified JAM – Joint admission Test –for PG And IIT

## **SCHOLARSHIP**

Students are taking scholarship under Prof. M.S. Channaveeraiah in B.Sc .

## **STUDENTS PROJECTS:**

- Percentage of students who have done in- house projects including inter departmental / programme : **60%**
- Percentage of students placed for projects in organizations outside the institution i.e.in research laboratories/industry/ other agencies : **25%**

**PTO ...**

**CONFERENCES, WORKSHOPS & SEMINARS ATTENDED  
BY THE STAFF MEMBERS OF DEPARTMENT**

Sl. No.	Name of Staff	Conferences	Seminar	Workshops	Faculty development programme
1	Smt.Mamata Mandavi	01	-	01	03
2	Smt.Anitha Puranik	05	02	01	03
3	Ms.Roopashree Kathare	01	01	01	-

**FACULTY:**

- Smt. Mamata Mandavi (M.Sc.E-MBA)
- Smt. Anitha Puranik (M.Sc.)
- Ms.Roopashree Kathari
- Ms. Kavyarani Rathod

**1. SMT. MAMATA MANDAVI :** Joined the institution in 2003 as Lecturer in Biotechnology.

**ACADEMIC ACHIEVEMENTS :**

- **Executive-MBA** completed from Institute Of Business Management and Research, (IBMR), HUBLI.
- **Computer knowledge:** (MS-CIT) Maharashtra State Certificate Course in Information Technology.

## **TRAINING:**

1. Participated in faculty development programme in Biotechnology held JSS, Dharwad
2. Online Certificate course in Recombinant DNA Technology organized by UKA Tarsadia University, Surat during 6-6-2020 to 10-6-2020

## **MEMBERSHIP OF VARIOUS ASSOCIATIONS :**

### **Board of Studies MEMBER :**

P.C. Jabin College, Hubli (Autonomous)

### **Board of Examiners MEMBER :**

P.C. Jabin Science College, Hubli.

2. **SMT. ANITHA PURANIK** : Joined the department in 2009 as Lecturer in Biotechnology.

## **PUBLICATION : Published two papers in International Journals**

1) **Author:** Anitha Puranik

**Name of Journal:** “Asian Journal of Plant sciences and Research”,2015, 5(8):11-15

**Title:** “*In-vitro* antioxidant activity and free radical scavenging potential of a rare endangered and threatened species *Erinocarpus nimmoni* leaf extracts”

**2) Name of Journal:**

World Journal of Pharmacy and Pharmaceutical Sciences 2016,5(1):  
856-863

**Title:** “Amylase inhibitory activity of rare endangered and threatened species *Erinocarpus nimmoni* leaf extracts”

**3) Name of Journal**

“International Journal of Green and Herbal Chemistry ,2018,7(2): 180-187

**Title:** In vitro anti inflammatory and anti – hypertensive activity of *Erinocarpus nimmonii* methanol leaf extract

**ACADEMIC ACHIEVEMENTS:**

- **Qualified in SLET.**
- 04 years teaching experience in Dept of Botany.
- Worked as councilor for IGNOU LSE4 and LSE8.

**TRAINING:**

Participated in faculty development programme in Biotechnology held JSS, Dharwad

**3. Ms. ROOPASHREE KATHARE:**

Joined the department in 2018 as lecturer in Biotechnology.

Project:.

- 1.Preparation of wine from jackfruit ,pomegranate and apple
- 2.Analysis of probiotics – The good microorganisms

## **ACADEMIC ACHIEVEMENTS:**

- 1. K- SET qualified in Dec 2018**
- 2. CSIR UGC NET JRF qualified in Dec 2019**

**4. Ms. Kavyarani Rathod** Joined the Department in 2019 as lecturer in Biotechnology.

## **ACADEMIC ACHIEVEMENTS:**

1. K- SET qualified in Dec 2018
2. GATE – qualified in 2020

## **STUDENTS ACHIEVEMENTS :**

### **POSTER PRESENTATION :**

Ashwini K Jaggal, Pradeep , Rahul Hippargi \* Smt. Mamata Mandavi. secured consolation prize in poster presentation on topic “Probiotics: Protective role in modulating human health” in national seminar on “Recent trends in

Environmental Bio-Technology and sustainable energy” held by PG Department of Studies in Bio-Technology and Micro-Biology KUD, Dharwad during 10<sup>th</sup> August, 2015. Total 52 students participated in National seminar.

**TWO GROUPS POSTER PRESENTATION:**

1. Hydroponics – The future of modern agriculture - poster presentation by Chetan R Thakur, Bharatesha Karjagi and Vinod Machakanur.
2. Bio-Augmentation- A water treatment method -poster presentation by Vaidehi R Midakavi, Chaitra S. Kurahatti, and \* Smt. Mamata Mandavi.

**WORKSHOPS:**

Students attended every year three days “Hands on DNA PCR Workshop” organized by dept. of Microbiology, SDM college of medical sciences and hospital, Dharwad

**CONFERENCE :**

Students attended UGC sponsored national conference on “Recent trends and advances in life sciences”, held on 6<sup>th</sup> and 7<sup>th</sup> March, 2015 at P.C.Jabin Science college, Vidyanagar, Hubballi . Totally 10 **students attended**.

1. **Poster Presentation** : Mallikarjun and Dheeraj Shetty .  
**Topic:**Biodiversity and ecological use of Annuran species in Dharwad.

2. **Oral Presentation** : Sahana Hegde .

**Topic:** Study on medicinal plants in Sirsi locality.

## **EXTRACURRICULAR ACTIVITIES OF STUDENTS:**

1. **FINE ARTS** : Students have achieved every year in fine arts.

2. **SPORTS** : Students have achieved in sports every year.

**3.ESSAY :**

**Chaitra M.** participated in the essay competition [ Effect of human activities on environment and solution ] held on 15.02.2015 and won third prize. It was conducted by shri matru-pitru samaj seva sangh ( REG ), Near tavargeri nursing home, Dharwad – 580008.

**4. NSS :**

Students attended the N.S.S annual special camp.

**KHORANA FORUM:**



- Khorana forum was establishment in the year 2007. Special Guest lecturers were conducted to create awareness among students. Students visited Blood Bank, Pollution Control Board, KMF and institutions like University of Agricultural Sciences, Dharwad, Karnataka University, and Dharwad.
- Department brings departmental magazine, “**BIOGEMS**” with yearly two volumes.

### **ENRICHMENT COURSES:**

Enrichment courses were conducted in blood analysis for every year II semester students.

### **CERTIFICATE COURSES:**

J.S.S. management was kind enough to implement certificate course under the shelter of department of Biotechnology for the benefit of students and also to enrich their Knowledge. Certificate course in “**Tissue Culture**” was initiated in the year 2007.

### **B.SC. BIOTECHNOLOGY STUDENTS PROGRESS:**

- 94% of the students have gone for higher studies like M.Sc. Biotechnology, Microbiology, Bioinformatics, Genetics, and Biochemistry. Some have joined Clinical Research Institutes with foreign collaboration.
- 6% got employment in well established organization.

### **ALUMNI ASSOCIATION:**

The department is proud to have Alumni Association to provide a forum to bring together the members of past students who help further development in Biotechnology by sharing their industrial experience, research and development (R&D), marketing, medical transcription, clinical research, and forensic science.

### **COMMUNITY EXTENSIONS SERVICES**

1. Department students participated in NSS and NCC activities.
2. Participated in rallies of voting awareness, National road safety, tobacco and plastic free campus.
3. Campaigning against use of Ghutaka & Tobacco.
4. Voluntary Blood Donation.
5. Students participated in science awareness programme in rural areas by demonstrating practical experiments.
6. Students participated in Vanamohotsav, Swatch Bharat Abhiyan, Cancer

## **SWOC analysis of the department**

### **STRENGTH**

1. Well equipped laboratories with uninterrupted power supply.
2. Budding young minds are taking interest in life science. Research areas interested students majority of them are obtaining biotechnology as optional subject in B.Sc degree.
1. updating recent research activities from various scientific journals and newspapers through wall magazines.
2. Project work are carried out regularly for final year students.
3. Institutional visit for interaction with research scholars and resource persons regarding ongoing research activities.
4. Conduct of bridge/remedial course.
5. Central digitalized library facility in the college.

### **WEAKNESS**

1. Lack of R and D collaboration.
2. Limited research publications.

## **OPPORTUNITIES**

1. Participation of students in various competition like science exhibition, essay writing, debate, poster and paper presentation, throughout state.
2. Involvement of more students in research through various projects guided either by staff members or research trainers
3. Chances are given to students to deliver seminars regularly in classes.
4. Availing services from National agencies like National Academics of sciences, VGST, etc.
5. To strengthen research and publications.
6. Scope for collaborative research and development.
7. To organize seminar and conference.

## CHALLENGES

1. Upgradation of UG syllabus with advanced technology in theory and practicals
2. Teaching heterogeneous group of students.
3. Sustaining academic interest of the students in basic sciences.

## INNOVATIVE PRACTICES:

- ✍ Conduction of Seminars and group discussion.
- ✍ Remedial measures for the underscorers through tutorials, interaction with one to one, assigning homework, repetition of assignments, making students to solve old Question Papers.
- ✍ Preparing the students to face interviews and competitive exams.
- ✍ Motivating the students to participate in science exhibition, in events like model preparation and debate.
- ✍ Motivating the students for collection of scientific articles from news papers, magazines to upgrade their knowledge.
- ✍ Book bank scheme- The Dept issues the books to the students those who are unable to purchase from outside.
- ✍ Induction program is initiated to the B.Sc. I sem students.

- ✎ Students carried out various projects in IBM, EduBiotech, Pepsi Beverages, KMF, Shridhar Bhat Laboratory and Biogenics.
- ✎ Conduction of Seminars and group discussion.
- ✎ Use of LCD and PPT presentation
- ✎ Use of CD to show molecular animation, 3D structure which helps in quick grasping of topics.
- ✎ Use of OHP helps students for better understanding of points and diagrams.
- ✎ Preparing the students to face interviews and competitive exams.
- ✎ Motivating the students to participate in science exhibition, in events like model preparation and debate.
- ✎ Motivating the student for collection of scientific articles from news papers, magazines to upgrade their knowledge.
- ✎ Maintaining the work dairy, conducting & implementing weekly meeting, preparing lesson plan etc is practiced in the department.

### **PROPOSED FUTURE PLANS OF DEPARTMENT :**

- To motivate the students in research areas and industrial experiences we have planned to collaborate with institute and industries like UAS, Karnataka University, NIO, Karnataka pollution control board, SDM medical hospital, GMR sugar industries, Pepsi breweries, KMF, Food industries, CIPLA Omnicare pharmaceuticals, BIOCON, and United Beverages.

- Organization of National Seminar/conference/workshops.
- Keeping view of present scenario and demand for biotechnology we have planned to start PG course in biotechnology .
- Updating the laboratories for establishing PG course.
- To promote research activities in department by applying for research projects under DST ,UGC , and DBT .
- Expansion of laboratory with advanced instruments like HPLC, PCR, GC, LCD facilities.
- Establishment of placement and student counseling cells.