



SSBT's College of Engineering & Technology Bambhori, Jalgaon.
(Included under section 2(f) and 12(B) of UGC Act, 1956
With NBA Accredited courses and ISO -9001-2008 Certified)

DEPARTMENT OF BIOTECHNOLOGY

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BIONEERS



Smt. Pratibhatai Patil
Our Inspiration



Dr. Devisingh Shekhawat
Chairman



Shri. Raosaheb Shekhawat
Managing Trustee

ABOUT THE COLLEGE

- Lush Green 25 Acre Campus
- Virtual Class Rooms & e-learning
- Innovation & Entrepreneurship Development Center
- 40.5 Mbps Internet Facilities
- 14000 sq. ft. Air-Cooled library
- Nationalized Bank & ATM
- Hi-Tech Gym & Yoga Center
- Medical facility
- Shram Sadhana Research Promotion Scheme
- Separate Girl's & Boy's Hostel

VISION

To achieve highest accolades in the field of Biotechnology by brightening the flame of quality education, knowledge and progressive technology for societal welfare.

MISION

To prepare Proficient Biotechnologists to solve wide array of problems in life sciences and fulfill the global requirements by creating green & clean technology.

SALIENT FEATURES OF THE DEPARTMENT

- Qualified and Experienced Faculty.
- Research Activities.
- Well Equipped Laboratories & Departmental Library.
- Emphasis on Laboratory practicals & Projects.
- Hands on training of ASPEN HYSYS Software.
- Consultancy services.
- Good Result.
- Entrepreneurship Initiatives.
- Students working on funded project.

***PROGRAMME EDUCATIONAL
OBJECTIVES***

I. Core Knowledge

To provide students with a necessary background in Mathematics, Life Sciences, Engineering and technology to develop a strong foundation in the arena of Biotechnology.

II. Employment/Continuing Education

To develop proficiency in the principles and methods essential in Biotechnology to succeed in entry level engineering positions at various industries as well as for continuing education.

III. Professional Competency

To develop professionalism and other moral values amongst students.

PROGRAMME OUTCOMES

After completion of the BE Biotechnology Programme graduates will have,

- a. an ability to apply knowledge of mathematics, science, and engineering,
- b. an ability to design and conduct experiments, as well as to analyze and interpret data,
- c. an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability .
- d. an ability to function on multidisciplinary teams,
- e. an ability to identify, formulate, and solve engineering problems,
- f. an understanding of professional and ethical responsibility,
- g. an ability to communicate effectively,
- h. the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context,
- i. a recognition of the need for, and an ability to engage in life-long learning,
- j. a knowledge of contemporary issues,
- k. an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice and
- l. an ability to apply the knowledge of engineering principles to living entities for societal welfare.

ABOUT THE DEPARTMENT

Department of Biotechnology came into existence in 2006 - 07 with starting of B.E.in Biotechnology to meet the demand of Biotechnology professionals. This is the only college to offer B.E. Biotechnology programme in North Maharashtra University region. The department laboratories are well equipped, with modern state of art facilities like computer controlled fermenter, lyophilizer, spectrophotometer, laminar air flow, incubator shaker, refrigerated research centrifuge etc. Department provides hands on training on ASPEN HYSYS and software's related to Bioinformatics. The department is engaged in teaching and re-search in Biotechnology & related area.

DEPARTMENTAL EVENTS

GUEST LECTURES



- I. A Guest Lecture on "**Genetically modified crops**" was delivered by **Mr. Hrushikesh Patil, Regional Business Manager, Mahyco Monsanto, Biotech Ltd..** The program was organized by Department of Biotechnology on 11th of January 2014. All the students of Biotechnology faculty attended the Lecture. The Lecture helped students to understand the concept of genetically modified crops.
- II. A Guest Lecture on "**Expectation from fresh chemical engineers in Chemical Industries**" was delivered by **Shri. Sandeep Kabra, Director, Suhans Chemicals, Pvt. Ltd. MIDC, Jalgaon.** The program was organized by Department of Biotechnology Engineering on 25th January, 2014. All the students of Biotechnology Department and faculty attended the Lecture.
- III. A Guest Lecture on "**Scope of Biotechnology students in industries and higher studies**" was delivered by **Mr. Pankaj Chitte and Ms. Shabnam Bano Shaikh, Departmental Alumini.** The program was organized by Department of Biotechnology on 26th of February 2014. All the students of Biotechnology Department and faculty members have attended the Lecture.
- IV. A Guest Lecture on "**Food and Nutritional Security: A Challenge!**" was delivered by **Dr. H. P. Singh, Chairman, Confederation of Horticulture of India, New Delhi,** The program was organized by Department of Biotechnology on 10th of April, 2014. All the students of Biotechnology Department and faculty members have attended the Lecture.

ENTREPRENEURSHIP AWARENESS CAMP (EAC)



Final year students of the department have participated in "Entrepreneurship Awareness Camp" Organized by Innovation and Entrepreneurship Development Centre (IEDC) and SSBT's, COET, Bambhori, Jalgaon. The Three days camp was organized for all BE students during 21st Feb to 23rd Feb 2014. On the occasion eminent speakers was,

- **Shri. Sandeep Kabra**, Director, Suhans Chemiclas Pvt. Ltd.,
- M.I.D.C., Jalgaon,
- **Dr. Anil Dongare**, Associate Professor, Dept. of Management Studies, NMU, Jalgaon,
- **Mr. Pallav Singh**, Branch Manager, Bank of Maharashtra, Bambhori, Jalgaon,
- **Mr. Harshal Borse** Director, Green Globe Biotechnologies, Chopda,
- **Shri. Rajesh Patil** Director, Green Globe Biotechnologies, Chopda,
- **Shri. Mahesh Kulkarni**, Director, Rewa Polymers, Dhule.

140 students of our college benefited by this camp. During the camp, experts from industry, academics, Government organizations guided the students about various aspects of entrepreneurship.

"SHODHPRAKALP PRATIYOGITA 2014"



The Department has organized "SHODHPRAKALP PRATIYOGITA 2013" University Level Project exhibition on 22nd March 2014 for all Final year Students. Shruti Ahuja, Apurva Patil, Kamini Sonawane, Amol Lohar has Presented project on topic "Fermentative Production of Amino acids as a nutrient supplement to plants from agricultural waste" and secured first prize ; Miss Priya Thakur, School of Life Sciences (NMU), Jalgaon presented project under on topic "Multipurpose Cost- effective skin cream Formulation" secured second prize.

STUDENTS ACHIEVEMENT

Following students project were allotted for the academic year 2013-14 and completed,

Sr. No	Name of Project	Department	Students	Mentor
01	Fermentative Production of Amino acids as a nutrient supplement to plants from agricultural waste	Biotechnology	Shruti Ahuja Apurva Patil Kamini Sonawane Amol Lohar	Dr.I.D.Patil & Ashwini Jatkar.
<p>1. 1st prize at National Level Project Exhibition on 20th March 2014 held at College of Engineering & Technology, Akola on 20th March 2014 with cash of Rs. 15,000/-.</p> <p>2. 1st Prize at Sodhprakalp Pratiyogitha University Level Project Exhibition organized by IEDC, SSBT's COET, Bambhori, Jalgaon on 22nd March 2014.</p> <p>3. 1st Prize at Milestone 2K14 – National Level Paper Presentation organized by SSBT's COET, Bambhori, Jalgaon on 8th March 2014.</p>				
02	Water Air Cooled Conditioner (Development of Efficient Air Cooler).	Mechanical Engineering	Anuj Saxena Sainath Tiwari Faijal Ansari	Prof. S.P. Shekhawat
<p>1. 3rd prize at National Level engineering student project competition ELECRAMA-2014 held at Bangalore, during 8 to 12 January 2014 with cash of Rs. 50,000/-.</p> <p>2. 1st Prize at Sodhprakalp Pratiyogitha University Level Project Exhibition organized by IEDC, SSBT's COET, Bambhori, Jalgaon on 22nd March 2014.</p>				
03	Photo-Catalytic degradation of detergent : Kinetic study under slurry phase reactor	Chemical Engineering	Nishat H. Vyas Ganesh S. Chate Sagar N. Sahare Nilesh D. Bhilmal	Dr.V.R.Diware Dr.M. Hussain
<p>1. 1st Prize at Sodhprakalp Pratiyogitha University Level Project Exhibition organized by IEDC, SSBT's COET, Bambhori, Jalgaon on 22nd March 2014.</p>				
04	Investigations of Sound & Heat Insulation Properties of Rubberized concrete	Civil Engineering	Manohar Thelari Gaurav Goswami Ankit Bagul Rahul Mahajan	Shri.P.A.Shirule
<p>1. 1st Prize at Sodhprakalp Pratiyogitha University Level Project Exhibition organized by IEDC, SSBT's COET, Bambhori, Jalgaon on 22nd March 2014.</p>				
05	Design & Fabrication of Laboratory Scale Solid State Fermenter for Production of Value Added Products	Biotechnology	Shubhra Sharma Vaibhav Lendekar Hitesh Kolte Priyanka Chavan	Dr.I.D.Patil & Jayant P. Parpalliwar

PHOTO GALLERY



Dr.K.S.Wani
Principal



Prof. S.P.Shekhawat
Director of Academics



Dr. I.D.Patil
Head of Biotechnology

PUBLICATION COMMITTEE

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