



BIONEERS



Smt. Pratibhatai Patil
Our Inspiration



Dr. Devisingh Shekhawat
Chairman



Shri. Raosaheb Shekhawat
Managing Trustee

ABOUT THE COLLEGE

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| <ul style="list-style-type: none"> • Lush Green 25 Acre Campus. • Virtual Class Rooms & e-learning. • Innovation & Entrepreneurship Development Centre. • 40.5 Mbps Internet Facilities . • 14000 sq. ft. Air-Cooled library. | <ul style="list-style-type: none"> • Nationalized Bank & ATM. • Hi-Tech Gym & Yoga Center. • Medical facility. • Shram Sadhana Research Promotion scheme. • Separate Girl's & Boy's Hostel |
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VISION

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

MISSION

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

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| <ul style="list-style-type: none"> • Qualified and Experienced Faculty. • Research Activities. • Well Equipped Laboratories & Departmental Library. • Emphasis on Laboratory Practicals and Projects. | <ul style="list-style-type: none"> • Hands on training of ASPEN HYSYS Software. • Consultancy Services. • Good Results. • Entrepreneurship Initiatives. • Students working on funded project. |
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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 Lecture

Guest Lecture on “**Synthetic Biology: Production and Optimization of high yielding engineered strains of *E.coli* (HPL,wx,DecNos, CED-DEC) for short chain hydrocarbon as potential next generation Biofuels**” was delivered on 1st Feb 2013 by Akshay Narkhede Departmental Alumni . He completed his M.S. in Biotechnology & Entrepreneurship from University of Exeter UK .All S.E. to B.E., Biotechnology students and faculty attended the lecture. He appreciated the facilities available in the department for the students. His lecture motivated the students for pursuing higher studies in abroad.



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 the College for all BE students during 6th to 8th Feb 2013. On the occasion chief guest was Vijay Kumar P. Wani, Principal, MET, Institute of Engineering Nasik. During the camp, experts from industry, academics, Government organizations like DIC and Bank, guided students about various aspects of entrepreneurship.



“ MILESTONE 2K13”

MILESTONE 2K13, National level student paper presentation was held on 2nd March 2013. Dr. Nilesh Teli Director, Naturally Your's Biotech Jalgaon, was invited as the judge for evaluating the papers. UG and PG students of different institute presented their paper.

Monali Raut, Mayur Saindane, Anupriya Baghele secured first prize ; Swapnil Tayade and Ashwini Mahajan secured second prize ; Ancy Wadakethala and Digeshwar Rane secured third prize in the event under UG level. Mayur Ladole won first prize, Pramod Patil and Rashmi Dhoble secured second Prize under PG level.

GUEST LECTURE

A Guest Lecture on “**Design & Substrate Mass Balance in High Performance aerobic Bioreactors**” was delivered by Dr. Mahesh Yenkie Pro Vice-Chancellor, RSTM Nagpur University, Nagpur. The program was organized by Department of Chemical Engineering on 9th March 2013. All Biotechnology and Chemical Engineering students and faculty attended the workshop. The Lecture helped students to understand the design criteria's for aerobic bioreactors used in waste water treatment with substrate mass balance strategy.



APTITUDE TEST

Aptitude Test was conducted on General and technical knowledge on 9th March 2013. All S.E, T.E, B.E students were participated. This test was conducted to make students aware of verbal and non verbal abilities which will be helpful for students in their job interview. The winners of this test were:

1. Shruti Ahuja (T.E.)
2. Aaisha Sayyad (S.E.)
3. Kevin Joe Thomas (S.E.)

“SHODHPRAKALP Pratiyogita 2013”

Department organized Project exhibition “SHODHPRAKALP Pratiyogita 2013” on 6th April 2013 for all Final year Students. The project exhibition was judged by Dr. Arun G. Ingale Head Department of Biotechnology, School of life sciences. Total 14 students with 5 projects participated in the project exhibition.

Monali Raut, Mayur Saindane, Anupriya Baghele Presented project on topic “**Effect of Biofilm on Waste Water Treatment by Using Bactericidal Activity of Nitrogen Doped Metal Oxide Nanoparticles**” and secured first prize ; Shabnam Bano, Pradnya Tiple, Mazz Siddiqui presented project on topic “**Molecular modeling and drug designing for Mycobacterium Tuberculosis**” secured second prize.



INDUSTRIAL VISIT

Students of TE and BE Biotechnology visited “JAIN Foods and Agri Park, Jalgaon.” on 1st March 2013. As per academic curriculum, this industrial visit was scheduled. Total 33 students were present for the visit.

“Transcription-2K13”



“**Transcription-2K3**” National level workshop on “**Fermentation Technology**” was organized by the department on 25th to 26th March 2013. Dr. Sanjay Shekhawat, Director of Academics; Shri V.R. Phadnis, LMC Member; Dr. Sanjay Nene, Scientist, NCL, Pune; Dr. K.S.Wani, Principal; Dr. I.D.Patil, HOD Biotechnology were present for inaugural function.

On the first day of workshop the chief guest **Dr. Sanjay Nene**, Scientist, National Chemical Laboratory, Pune, delivered a Keynote Speech on “**Algal Technology- Present and Future Directions**”.



On the second day Dr. B. L. Chaudhari, Associate Professor, School of Life Science, NMU, Jalgaon delivered lecture on the topic “**Trouble Shooting in Fermentation**” in first session.

In the next session Dr. I.D.Patil, Professor & Head, Department of Biotechnology, SSBT's COET, Bambhori, Jalgaon delivered a lecture on “**Material & Energy Balance of Bioprocess**”.

FAREWELL FUNCTION

“Anubandh” a farewell function was organized by the department for final year students. At the function B.E. students shared their experiences and memories with the students and faculty. On this occasion study material of GATE Exam was distributed to toppers of the University exam.



STUDENTS ACHIEVEMENT

Sr.No	Name of Students	Event Name	Venue	Achievement
1.	Apurva Patil , Anshul Mahajan , Prabhakar Pujari	“YANTRA NAAD” A National Level Techni- cal Symposium	J.T. Mahajan College of Engineering, Faizpur	2 nd Prize
2.	Priyanka Chavan , Shabnam Bano	“YANTRA NAAD” A National Level Techni- cal Symposium	J.T. Mahajan College of Engineering, Faizpur	3 rd Prize
3.	Anupriya Baghele, Monali Raut, Mayur Saindane	“TANTRAGYAN” A State Level Project Exhibition	Lokmanya Tilak College Of Engineering And Technology Navi Mumbai	3 rd Prize with cash of Rs. 4500/-
4.	Mayur Saindane, Monali Raut	“MILESTONE 2K 13”	SSBTS COET Bambhori Jalgaon.	1 st Prize
5.	Ashwini Mahajan	“MILESTONE 2K 13”	SSBTS COET Bambhori Jalgaon	2 nd Prize
6.	Digeshwar Rane , Ancy Vadakethala	“MILESTONE 2K 13”	SSBTS COET Bambhori Jalgaon	3 rd Prize



Congratulations

***Congratulations to Mayur Saindane
(2012— 13) for joining as a Trainee Engineer
(Research) at Nirmal Seeds, Pachora,
Dist:Jalgaon.***

PHOTO GALLERY



Dr. K.S. Wani
Principal



Prof. S.P. Shekhawat
Director of Academics



Dr. I.D. Patil
Head of Biotechnology

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