

- **Vision & Mission of the Department**

- **VISION**

“To be a centre of excellence in Biotechnology and train the most needed manpower in the various fields of biotechnology to meet the increasing demand in the state in particular and globally at large”

- **MISSION**

A. Biotechnology Engineers will be able to apply principles of life sciences to solve a wide array of problems in biotechnology.

B. Graduates are capable of doing advanced research and higher studies in various fields of Biotechnology.

C. Graduates will be competent in areas such as Bioprocess Engineering, Genetic Engineering & Applications, Bioinformatics, Industrial Biotechnology and Biopharmaceutics.

D. To make graduates realize biotechnology as one of the greatest intellectual enterprises of humankind, to provide the impetus that fulfills this potential of understanding life processes and utilizing them to the advantage of humanity.

E. To promote awareness, communication and collaborations in all fields of Biotechnology for Societal benefits

- **Programme Educational Objectives: (PEOs)**

1) Graduates will possess necessary skills and knowledge in the frontier areas of Biotechnology.

2) Graduates will be able to implement the engineering principles to biological systems for development of industrial applications, as well as Entrepreneurship skills to start biotech industries.

3) Graduates will think critically and creatively about the use of biotechnology to address local and global problems.

4) Graduates will behave virtuously and consider the social implication of their work as it Affects the health, safety and environment of human population.

5) Graduates will have adequate knowledge in various fields of biotechnology, enabling them to pursue higher education in relevant areas to enhance their professionalism.

- **Programme Outcomes:(POs)**

- a. Graduates can apply knowledge of mathematics, science and Engineering.
- b. Graduates will demonstrate an ability to design and conduct experiments, analyze and interpret data.
- c. Graduates will design bioprocess to meet desired needs within realistic constraints such as economic, environmental, social, health and bio-safety, product development, and sustainability.
- d. Graduates identify, formulate and solve biotechnology related problems.
- e. Graduates are able to function on inter-disciplinary subject of biotechnology.
- f. Graduates demonstrate the skill to apply the principles of biotechnology to solve problems encountered in medicine, public health, agricultural and industrial applications.
- g. Graduates will demonstrate professional and ethical responsibility.
- h. Graduates will develop communication skills and can communicate effectively.
- i. Graduates are viable to scientific education necessary for understand the impact of engineering solution in a global and economic societal context.
- j. Graduates are capable of self-education and clearly understand the value of lifelong learning.
- k. Graduate are able to participate and succeed in competitive examinations.

- **Proforma For Mandatory Disclosure of Information About Accredited Programmes by Institutions to be Included in Their Respective Information Brochure, Displayed on Their Website & to be Submitted to NBA Every Year Well Before the Admission Process**

The following information is to be published in the Information Brochure besides being hosted on the Institution's official Website as fixed content.

Name of the Programme	:	BE -Biotechnology
Approved Intake	:	30
Fees charged (per annum) in Rs.	:	Category -1: Rs45,000/- Category 2: Rs1,60,000/-
Pass percentage during the last 5 years	:	Annexure - I
Teacher Student Ratio	:	1:15
No. of Faculty Members	:	06

Cadre	Number
Professor	02
Associate. Professor	01
Assistant Professor	03
Lecturer	00

Faculty Profile:

Qualification	No. of Faculty
Ph.D.	02
Post Graduate	04
Under Graduate	00

Experience of Faculty:

Number of Faculty with

Less than 5 years	01
5 to 10 years	02
More than 10 years	03

Details of individual faculty members : Annexure-II

Name, Photograph, Date of Birth, Qualifications, Professional Experience, Research Interests.

Industrial Consultancy, Research and Development (during the past 5 years):

Amount of Industrial Consultancy earned (in lakhs of Rupees)	NIL
No. of sponsored research projects completed	05
No. of patents produced	00
No. of sponsored research projects in progress	01
No. of papers published in International journals	24
No. of papers published in National journals	12
No. of papers presented in International Conferences / Seminars	Annexure III
No. of papers presented in National Conferences / Seminars	Annexure III
No. of International Conferences conducted	NIL
No. of National Conferences conducted	NIL
No. of Training Programmes / Short Term Courses conducted	(06) Annexure IV

Placement Record for the previous year :

No. of Companies who visited the Campus	07
Names and Details of companies who visited the campus along with No. of Students placed	Annexure V
No. of Students placed through campus recruitment	19
Maximum salary drawn (in Rs.)	3.5 Lakhs
Average salary drawn (in Rs.)	1.5 Lakhs

Budget Allocation for the Programme (in Rs.) :


Recurring	10 Lakhs
Non Recurring	10 Lakhs


DETAILS OF THE RESULTS


Odd Semester	Examination	Semester	Percentage of Passing	Even semester	Examination	Semester	Percentage of passing
	Jan 2003	I	75.86		July 2003	II	82.14
	Jan 2004	I	83.87		July 2004	II	77.41
		III	89.65			IV	90.32
	Jan 2005	I	67.85		July 2005	II	64.28
		III	81.25			IV	93.54
		V	100			VI	96.55
	Jan 2006	I	62.06		July 2006	II	68.97
		III	66.67			IV	70
		V	89.66			VI	93.10
		VII	100			VIII	100
	Jan 2007	I	61.29		July 2007	II	53.3
		III	85.7			IV	89.29
		V	82.7			VI	93.1
		VII	82.7			VIII	100
	Jan 2008	I	65.5		July 2008	II	82.14
		III	81.5			IV	70.43
		V	92.86			VI	95.43
		VII	89.66			VIII	100
	Jan 2009	I	56.00		July 2009	II	80
		III	68.97			IV	75.86
		V	100.00			VI	100
		VII	96.43			VIII	100

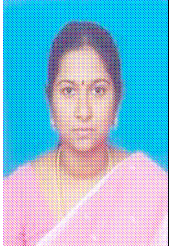
	Jan 2010	I	82		July 2010	II	92
		III	73.91			IV	82.61
		V	85.19			VI	92.59
		VII	95.65			VIII	95.65
	Jan 2011	I	75		July 2011	II	92
		III	92.59			IV	92.59
		V	95.45			VI	95.45
		VII	100			VIII	100
	Jan 2012	I	61.53		July 2012	II	69.23
		III	95.90			IV	86.36
		V	96.42			VI	100
		VII	95.20			VIII	100
	Jan 2013	I	47.83		July 2013	II	90.91
		III	76.47			IV	70.59
		V	100			VI	100
		VII	100			VIII	100
	Jan 2014	I	45.83				
		III	95.45				
		V	93.33				
		VII	100				


Annexure – II


Name	S. C. Mali	
Date of Birth	05-11-1958	
Highest Qualifications	M.E (Env.) Ph.D	
Professional Experience	31 yrs (1 Indust)	
Research Interests	Biological Treatment, Priority Pollutants	

Name	Dr.U.M.Muddapur	
Date of Birth	28-11-1973	
Highest Qualifications	M.Sc. Ph.D	
Professional Experience	10 Yrs.	
Research Interests	Enzymology, toxicology, Biotransformation, Biodegradation, Microbiology	

Name	Sateesh N. Hosamane	
Date of Birth	28-04-1974	
Highest Qualifications	M. Tech.	
Professional Experience	15 yrs	
Research Interests	Reaction Engg	

Name	V.G. Shanmuga Priya	
Date of Birth	22-01-1975	
Highest Qualifications	M.Phil (Bioinfo)	
Professional Experience	06 yrs	
Research Interests	Genomics & Proteomics	

Name	Abhijit D. Bhatkal	
Date of Birth	29-12-1983	
Highest Qualifications	B.E(Biotech) M.Sc. (U.K)	
Professional Experience	06 yrs	
Research Interests	Molecular Biology & Genetics	

Name	Aparna A Shenvi	
Date of Birth	27-01-1988	
Highest Qualifications	B.E(Biotech) M.Tech.(Chemical)	
Professional Experience	03 years	
Research Interests	Downstream Processing & Transport Phenomena	

Annexure III

LIST OF FACULTY MEMBERS ATTENDED WORKSHOP/CONFERENCE

Sl. No	Faculty	Date	Topic	Venue	Remark
01.	Dr. S.C. Mali	5 th October 2001	NBA Accrediation Awareness	SDMCET, Dharwad	Workshop
		2002	Total Quality Control and Management	SDMCET, Dharwad	Workshop
		5 th -7 th June 2003	Urban Transport and the Environment	KLESCET, Belgaum	Workshop
		3 rd December 2004	Advanced Water and Wastewater Treatment Technologies and Modelling Techniques	IIT Mumbai	Workshop
		28 th Nov-2 nd December 2005	Managing Muncipal Solid and Biomedical Wastes for communities	IITB,Mumbai	Workshop
		24 th -27 th June 2007	Reductive dechlorination of 1,2 Dichloroethane using anaerobic sequencing batch reactor	Moneton, Canada	International Conference
		May 19-22,2008,	“Anaerobic degradation of chlorinated ethanes using Sequencing Batch Reactor” Sixth international conference on Remediation of chlorinated and recalcitrant compounds,	Monterey, California, USA	International Conference
		5-6 th Feb. 2009	Paradigm shift in teaching & Learning Process	KLESCET, Belgaum	Workshop
		14 th Feb. 2009	Chandrayana, Kannada Balaga,	KLESCET, Bgm	Workshop

		13 th -15 th September 2011	Curriculum Innovation & Design	BVB,Hubli	Workshop
		25- 28 th July, 2011	Introduc tion to Therapeutic Counseling for Engineering Teachers	NMAMIT, Nitte	Workshop
		3 rd August 2013	Faculty Effectiveness Program	KLESCET, Bgm	Workshop
		5 th -9 th Jan 2015	Mathematical & Computational Applications in Engineering	KLESCET, Belgaum	Workshop
		16 th Jan 2015	Professionalism	KLESCET, Belgaum	Workshop
		15 th -26 th June 2015	C Programming	KLESCET, Belgaum	Training/wor kshop
02.	Dr. U.M. Muddapur	2005	Autonomy of colleges	Mysore	Workshop
		2 nd -3 rd February 2006	Fungal Biodiversity,Biotechnology and Bioinformatics	Shri Bhagwan Mahaveer Jain College Bangalore	Workshop
		3 rd -4 th October 2007	Biotechnology Revised Syllabus	MVIT College	Workshop
		5-6 th Feb. 2009	Paradigm shift in teaching & Learning Process	KLESCET, Belgaum	Workshop
		12 th Oct. 2009	Forensic Science	New Horizon College of Engg. B'lore	Workshop
		17 – 21 st Aug. 2009 & 21 st -22 nd October	Mission 10X	Wipro, KLCESCET, Belgaum	Workshop

		2009			
		11 th -15 th April 2012	Nanotechnology	VTU,Belgaum	Workshop
		1 st -5 th Dec 2014	Research Methodology	KLESCET, Belgaum	Workshop
		30 th -31 st Oct 2014	Plant Tissue Culture	KLESCET, Belgaum	Workshop
		5 th -9 th Jan 2015	Mathematical & Computational Applications in Engineering	KLESCET, Belgaum	Workshop
		16 th Jan 2015	Professionalism	KLESCET, Belgaum	Workshop
		15 th -26 th June 2015	C Programming	KLESCET, Belgaum	Training/workshop
03.	Sateesh .N.Hosamane	25 th April 2013	Faculty Development Program on Statistical Package for social science	KLESCET, Bgm	Workshop
		27 th -29 th July 2013	Research Methodologies & Latex	Ghousia College of Engineering,R amanagara	Workshop
		3 rd August 2013	Faculty Effectiveness Program	KLESCET, Bgm	Workshop
		27 th -28 th September 2013	Process Operations,Control and Optimisation	SDMCET, Dharwad	Workshop
		9 th November 2013	Indian Congress on curbing e-wastes	Acharya Institute of Technology Bangalore	Workshop
		1 st -5 th Dec 2014	Research Methodology	KLESCET, Belgaum	Workshop

		30 th -31 st Oct 2014	Plant Tissue Culture	KLESCET, Belgaum	Workshop
		26 th -27 th Dec 2014	ISTE Workshop on Control Systems	KLESCET, Belgaum	Workshop
		5 th -9 th Jan 2015	Mathematical & Computational Applications in Engineering	KLESCET, Belgaum	Workshop
		16 th Jan 2015	Professionalism	KLESCET, Belgaum	Workshop
		15 th -26 th June 2015	C Programming	KLESCET, Belgaum	Training/workshop
04	Smt. V.G. Shanmuga Priya	7th Nov. 2008	Insilco Drug Design & Clinical research	BMS,CET, B'lore	National
		7 th – 9 th Feb, 2008	National Seminar on Proteomics	SRM University,Ka ttankulathur	Paper presented
		9 th – 10 th Jan 2008	Recent trends in Biotechnology and its Ethical implications held at.	Auxilium college,Vellor e-3	Paper presented
		5-6 th Feb. 2009	Paradigm shift in teaching & Learning Process	KLESCET, Belgaum	Workshop
		21 – 23 rd Dec. 2009	Sci Lab & Applications	KLESCET, Belgaum	Workshop
		19 – 20 th Oct. 2011	Current Trends in the Biotechnology of Vaccines.	Sri Perumbudur, Tamilnadu	Workshop
		13 th -14 th September 2013	Applications of Bioinformatics in Biotechnology,Pharmaceutic al and Environmental Science	BEC,Bagalkot	Workshop

		25 th April 2013	Faculty Development Program on Statistical Package for social science	KLESCET, Bgm	Workshop
		1 st -5 th Dec 2014	Research Methodology	KLESCET, Belgaum	Workshop
		30 th -31 st Oct 2014	Plant Tissue Culture	KLESCET, Belgaum	Workshop
		5 th -9 th Jan 2015	Mathematical & Computational Applications in Engineering	KLESCET, Belgaum	Workshop
		16 th Jan 2015	Professionalism	KLESCET, Belgaum	Workshop
05	Abhijit Bhatkal	5-6 th Feb. 2009	Paradigm shift in teaching & Learning Process	KLESCET, Belgaum	Workshop
		10 – 11 th June 2009	Teaching Methodology & Educational Technology	KLE University, Belgaum	Workshop
		6 – 7 Nov. 2009	High impact teaching skills Mission 10x	KLESCET, Belgaum	Workshop
		21 – 23 rd Dec. 2009	Sci Lab & Applications	KLESCET, Belgaum	Workshop
		28 th Jan. 2011	Human Resources Development	KLESCET, Chikodi	Workshop
		11th – 15th, 2012	Nanotechnology”	VTU Belgaum	Workshop
		3rd -4th of March, 2013	Role of Intellectual Property Rights in Life Science Industries	Basaveshwar Engineering College, Bagalkot	Workshop
		3 rd -19 th February 2014	Basic Training in Lab Techniques	KLEU’S Dr. Prabhakar Kore Basic	Training

				Science Research Centre, Belgaum	
		10 th April 2014	Supramolecules, Nanotechnology and Nanomedicines	KLE University, Belgaum	Workshop
		1 st -5 th Dec 2014	Research Methodology	KLESCET, Belgaum	Workshop
		30 th -31 st Oct 2014	Plant Tissue Culture	KLESCET, Belgaum	Workshop
		5 th -9 th Jan 2015	Mathematical & Computational Applications in Engineering	KLESCET, Belgaum	Workshop
		16 th Jan 2015	Professionalism	KLESCET, Belgaum	Workshop
		3rd – 13th June, 2015	“Recent Developments in Bioprocess Technology and Opportunities”	KIT, Kolhapur	Workshop
		15 th -26 th June 2015	C Programming	KLESCET, Belgaum	Training/workshop
06	Aparna A Shenvi	11 th -13 th September 2013	Mission 10X	KLESCET, Belgaum	Workshop
		5 th April 2013	Statistical Package Programme for social sciences	KLESCET, Belgaum	Workshop
		15 th May 2013	HPLC & GC Techniques	Agilent Technologies, Belgaum	Workshop
		10 th April 2014	Supramolecules, Nanotechnology and Nanomedicines	KLE University, Belgaum	Workshop

				Igaum	
		1 st -5 th Dec 2014	Research Methodology	KLESCET, Belgaum	Workshop
		30 th -31 st Oct 2014	Plant Tissue Culture	KLESCET, Belgaum	Workshop
		5 th -9 th Jan 2015	Mathematical & Computational Applications in Engineering	KLESCET, Belgaum	Workshop
		16 th Jan 2015	Professionalism	KLESCET, Belgaum	Workshop
		1 st -5 th Dec 2014	Research Methodology	KLESCET, Belgaum	Workshop
		30 th -31 st Oct 2014	Plant Tissue Culture	KLESCET, Belgaum	Workshop
		2 nd -12 th June 2014	Environmental Studies	IIT,Mumbai KLESCET, Belgaum	Workshop

Annexure IV

No. of Short-term courses conducted

01.	14 th Oct, 2008	Workshop on Clinical Research	BT Students,
02.	3 – 4 th Oct, 2009	Workshop on Advance Techniques of Biotechnology	B.Sc. Students of RL Science Institute, Belgaum
03.	7 – 8 th Nov. 2009	Orientation Programme	P.G. Students & Doctors of Shri B.M.K. Ayurved Mahavidhyalaya, Shahapur, Belgaum
04.	19 – 20 th March, 2010	Chimera 2010	BT students of KLESCET, Belgaum.
05.	3 – 4 th Jan. 2011	Training on Basic Biotechnology	P.G. Students & Doctors of Shri B.M.K. Ayurved

		Techniques	Mahavidhyalaya, Shahapur, Belgaum
06	30 th & 1 st May, 2011	Chimera 2011 – Tech fest	BT students of KLESCET, Belgaum.
07	30 th & 31 st Jan. 2012	Training on Basic Biotechnology Techniques	P.G. Students & Doctors of Shri B.M.K. Ayurved Mahavidhyalaya, Shahapur, Belgaum
08	29 th & 30 th Jan 2014	Workshop on Basic Biotechnology Techniques	P.G. Students & Doctors of Shri B.M.K. Ayurved Mahavidhyalaya, Shahapur, Belgaum
09	26 th March 2014	Placements in Biotechnology	BT students of KLESCET, Belgaum.
10	19 th May 2014	Challenges & Opportunities in Bioinformatics	BT students of KLESCET, Belgaum.
11	26 th July 2014	Talk on DNA Forensics	BT students of KLESCET, Belgaum.
12	30 th -31 st October 2014	Workshop On Plant Tissue Culture	BT students of KLESCET, Belgaum.
13	14 th May 2015	Opportunities in Biotechnology	BT students of KLESCET, Belgaum.

Annexure-V

Placements

Sl No.	Companies	No. of Placements
1	Mindtree	05
2	TCS	06
3	Wipro	02
4	Serum	01
5	Alfazymes	17

6	Krishna Sugars	02
7	Infosys	02
8	CTS	02
9	Navya Biologicals Pvt Ltd	08
10	Riddhi Siddhi Gluco Biols Ltd	01
11	Biocon	01
12	Molecular Connections	02
13	HLL	01
14	Nestle	02
15	Aissel	15
16	Pronet Informatics	04

Annexure VI

EXTRA CURRICULAR ACTIVITIES (VARIOUS RESPONSIBILITIES)

Sl. No.	Faculty	Responsibility
01.	Dr.. S.C. Mali	Chairman of Indian Society for Technical Education, Local Chapter, KLE Society's college of Engg. and Tech., Belgaum, Karnataka 2002-2004
		Worked as BOE Member, Karnataka University, 1998-2001
		Worked as BOE Member, Kuvempu University 2001-2003
		Convener of State level Youth Festival at KLECET, Belgaum, Karnataka April, 2002
		Worked as BOE Member, VTU, Belgaum . (2002-04)
		Worked as Deputy Chief Coordinator VTU Examinations 2001 – 2003.
		Dean : Social Welfare, KLESCET, Belgaum since 2010
		Worked as Chairman Squad Committee, VTU Belgaum.
		Worked as Deputy Controller (External) for Examination at GIT, Belgaum
02	Dr. U.M. Muddapur	Member of Molecular Biology Note Book.
		Life Member of ISTE
		Life Member of Society of Biology Society.
03.	Sateesh N. Hosamane	Life Member of ISTE
04	V.G. Shanmuga Priya	Life Member of ISTE
05	Abhijit D Bhatkal	Life Member of ISTE
06	Aparna A Shenvi	Life Member of ISTE