

## PROFILE OF THE DEPARTMENT OF BIOTECHNOLOGY

Sr. No.	Details of the Department	Responses			
1	Name of the Department	<u>BIOTECHNOLOGY</u>			
2	Year of the Establishment	1998-99( U.G), 2001 – 02 (P.G)			
3	Courses/ Programmes and subject combinations offered	<b>Courses</b>	<b>Subject</b>		
		B.Sc M.Sc	Biotechnology		
4	Number of teaching posts sanctioned and Present position	01	Regular -- 01		
5	Number of Administrative staff	01			
6	Number of technical staff	01			
7	Number of student (Men/ Women) Give details course-wise	<b>Courses</b>	<b>Men</b>	<b>Women</b>	<b>Total</b>
		B. Sc			
		M.Sc			
		<b>Total</b>			
8	Demand Ration(No.ofSeats:No.ofapplications)	1:1 in U.G/ 1:30 in P.G			
9	Ratio of teachers to Students	1:20 in P.G / 1:35 in U.G			
10	The year when the curriculum was revised last	2020-21			
11	Number of the Student passed in NET/SLET etc. (last 5 years)	05			
12	Success Rate of Students(as compared to University average)	100% in P.G /92% U.G			
13	University Distinctions/Ranks				
14	Publications by faculty (last 5 years)	01			
15	Awards and recognition received by faculty (last 5 years)	---			
16	Faculty who have Attended Natl./Intl. Seminars(last 5 years)	Presented papers			
17	Number of National/ International seminars Organized(last 5 years)	Conducted National conference titled`` Impact of Biotechnology on the world economy and society`` On 24 <sup>th</sup> , 25 <sup>th</sup> January 2012			
18	Number of teachers engaged in consultancy and the revenue generated	Teachers offer consultancy in guiding and advising the students on how to prepare for P.G Entrance, CSIR-JRF and other Competitive Examinations			
19	Number of ongoing Projects and their total out lay	---			
20	Research projects completed during last two years and their total outlay	10- Student Projects completed last academic year (U.G)			
21	Number of inventions and patents	--			
22	Number of Ph. D. theses guided during the last five years	---			
23	Number of books in the Departmental Library, if any	80			
24	Number of Journals/Periodicals in the departmental library	07 Journals			
25	Number of Computers	10			
26	Annual Budget (excluding salary)				

## II STAFF DETAILS:

S. No.	Name of the Lecturers	Qualification	Experience in years	Awards/Achievements
01.	Mrs. P.Pushpalatha	<i>M.sc Biotechnology (CSIR -UGC-NET qualified) Pursuing Ph. D.</i>	10	Has Registered in Bharath World Records for singing National and Festival Songs along with 312 singers – 26 groups, in memory of the legend in Classical Music Sri.Dr. MANGALAMPALLY BALA MURALI KRISHNA Garu.On 12-12-2016.Organized by Bharath Arts Academy & ABC Foundation.
02	Dr sudha vani	<i>Ph.D</i>	15	
03	Mrs Ayesha birgis	<i>M.sc biotechnology, NET</i>	08	

## STUDENT ACHIVEMENTS/ HIGHLIGHTS:

1. Suneeth, Akhil, Omar Siddiqui, the students of M.Sc. Biotechnology got succeed in producing high percentage of Bio-Ethanol from Musi River grass, which is one of the sustainable Energy sources. This project was guided by Dr. Sudha vani. The motivated students are now setting up to start a start up on their own.  
<https://youtu.be/Szzwx0Sr16k>  
<https://youtu.be/wUdde-pO3Bk>
2. **Rani Durga Neeharika (MSc.Biotechnology student)** during her study, she was a part of many projects and workshops where she represented our college.

She was offered a **fellowship** to work under **Prof.ParthaP.Majumder**, National Institute of Biomedical Genomics, Kalyani as a part of Science Academies' Summer Research Fellowship Programme(**SRFP-2019**), which is a 2 months internship program offered to both UG & PG students with strong research desire by all the three prestigious institutions i.e., IASc(Bangalore), INSA(New Delhi), NASc(Prayagaraj).

3. **Mohana Saia.k.aAmar - BSCBiotechnology student**  
Along with his study in our college he is also associated with 'Rubaroo' - an youth development organization in Hyderabad from In-turn level to Youth Coordinator where he also lead an Youth Resource Centre in Amberpet community and involved in different projects and conferences while being at Rubaroo.

**మట్టి విగ్రహాలను పూజించండి**

**జనశుభా** మన సంస్కృతి సొంపు దారులను గౌరవిస్తూ పర్యవేక్షణాన్ని కాపాడుకుంటూ మట్టి విగ్రహాల ప్రతి మలను పూజిస్తామని నేషనల్ గ్రీన్ క్రాఫ్ట్ ప్రాజెక్ట్ అధికారిణి సౌమ్య పేర్కొన్నారు తెలంగాణ కాలవ్యవసాయ సంఘ మండలి నేషనల్ గ్రీన్ క్రాఫ్ట్ సంయక్త ఆధ్వర్యంలో బుధవారం సోదా కాలేజీలోని 'ఏమ్ హాల్'లో బంక మట్టితో విగ్రహాల విగ్రహాల తయారీ అంశంపై నిర్వహించిన అవగాహన సదస్సులో ఆమె ముఖ్య అతిథిగా పాల్గొన్నారు ఈ సందర్భంగా ఆమె మాట్లాడుతూ విగ్రహాల తయారీలో కృత్రిమ రంగులు, విష పదార్థాలు వినియోగించడం వల్ల జల వనరులు కాలుష్యానికి గురవు తున్నాయన్నారు ఆ రసాయనాలు వివిధ మార్గాల్లో మానవుల శరీరానికి చేరే అనారోగ్యం సంభవించుందని తెలిపారు సాధ్యమైనంత వరకు మట్టితో చేసిన విగ్రహాలనే పూజించాలన్నారు పక్ష శాస్త్ర విభాగాధిపతి సౌజన్య మాట్లాడుతూ జల వనరులు కాలుష్యం బారిన పడకుండా రక్షించుకోవాలన్నారు భూమిపై ఉన్న వివిధ జీవరాశుల సంరక్షణ కొరతలే మాన వాగ్ని ఉండవచ్చు కళాశాల డిప్యూటీ సీ మంజులత పుష్ప విద్యార్థిని పాల్గొన్నారు



విగ్రహాల తయారీ గురించి వివరిస్తున్న సౌమ్య

**INNOVATIVE PRACTICES OF THE DEPARTMENT**

1. M.Sc Biotechnology students interact with B.Sc Students and discuss various latest topics in Biotechnology
2. Students are asked to prepare posters of their projects and present in the department.
3. Vlab.co.in -Website of Virtual lab methods used to make the students familiar with the lab experiments and also used as revision lab classes.
4. Students are encouraged to present papersand participate seminars

## Details of Faculty Participation

Workshops attended with dates and place.	S.No.	Name of the Seminar/Conference/Symposia/Workshop	Name of the sponsoring agency	Place and Date
	1.	<b>A five day Hands on Training Programme in Advanced Molecular Biology Techniques</b>		<b>18<sup>th</sup> to 22<sup>nd</sup> Oct 2013, organized by Dept of Biotechnology in Collabaration with PRR Biotech Innovations Pvt. Ltd. Hyderabad.</b>
	2.	<b>Sensitivity/ awareness/ Motivation workshop</b>		<b>26<sup>th</sup> -30<sup>th</sup> June 2012 organised by Sri Padmavathi Women's Degree and PG college, TTDS, Tirupathi</b>
	3.	<b>One Day Workshop on Introducing CBCS in Govt. Autonomous Colleges- Some perspectives and Challenges.</b>		<b>10<sup>th</sup> Sep 2014. Govt City College, Hyderabad</b>
4.	Outreach Programme for Degree college Lecturers	Under DBT- Star College Scheme		Bhavans Vivekanada College of Science Humanities and Commerce on 22 & 23 Nov 2019.
	S.No.	Title of the workshop	Place held	Date
	1.	<b>International Conference on Plant Biotechnology &amp; Molecular Biology</b>	<b>Dept of Biotechnology, KU, Warangal.</b>	<b>15-17<sup>th</sup> Aug 2008. Warangal.</b>
	2.	<b>National seminar on Human Rights and Environmental Protection</b>	<b>UGC Sponsored</b>	<b>20<sup>th</sup> &amp; 21<sup>st</sup> Jan 2017 Dept of Chemistry, KRR Govt Arts &amp; science College, Kodad, Suryapet,</b>
	3.	<b>International Seminar on Green Chemistry for sustainable Development: Issues, Challenges &amp; prospects</b>	<b>Dept of Chemistry &amp; Biotechnology, LayolaAcadamy Degree &amp; PG College, Alwal, Secunderabad.</b>	<b>20<sup>th</sup> &amp; 21<sup>st</sup> Jan 2017 LayolaAcadamy Degree &amp; PG College, Alwal, Secunderabad.</b>
	4.	<b>One day National Seminar on Aerobiology &amp; Public Health( OnlyParticipATIOn)</b>	<b>Dept of Botany, University college of Science, Saifabad, Hyderabad, in association with Indian Aerobiological Society.</b>	<b>12<sup>th</sup> Dec 2014</b>
	5.	<b>National Seminar on Sustainability and Management of Aquatic ecosystems in semiarid areas. (Drink safe Water ; Disinfection)</b>	<b>UGC</b>	<b>7<sup>th</sup> &amp; 8<sup>th</sup> Jan 2015, Dept of Zoology, GovtCollege(UG&amp;P G), Anantapur.</b>
	6.	<b>Seminar on Latest Developments in Forensic DNA finger printing. (Participation Only)</b>	<b>Forensic Science unit, Dept of chemistry, university college of Science, OU, Hyd.</b>	<b>Mar 10<sup>th</sup> 2014. Dept of chemistry, university college of Science, OU, Hyd.</b>
	7.	<b>National seminar on Pollution control &amp; Management. (Participation Only)</b>	<b>UGC</b>	<b>20<sup>th</sup> &amp; 21<sup>st</sup> Jan 2014. Dept of Chemistry, Govt. Degree college for Women, Hussainialam, Hyd.</b>
	8.	<b>National Seminar on Recent</b>	<b>UGC New Delhi.</b>	<b>31<sup>st</sup> Mar 2015.</b>

Seminars / Workshops conducted with title, dates and place. College/State/National/International		<b>Advances in Biochemical Research. (Participation Only)</b>		<b>Dept of Biochemistry, MGU, Nalgonda.</b>
	9.	<b>Two Days State level Seminar on Advances in Bioanalytical techniques, Concepts and Applications. (Participation Only)</b>	<b>P.G. Dept of Biochemistry, Bhavans New Science College, Narayanaguda, Hyd.</b>	<b>23<sup>rd</sup> &amp; 24<sup>th</sup> Jan 2014. P.G. Dept of Biochemistry, Bhavans New Science College, Narayanaguda, Hyd.</b>
	10.	<b>National Conference on Recent Advances in Biotechnology. ( A case study on air pollutant H2s &amp; its effects on the people living around Moosi River).</b>	<b>Supported by UGC</b>	<b>19<sup>th</sup> Mar 2015. Dept of Biotechnology, MGU, Nalgonda.</b>
	11.	<b>Two Day National Seminar on Liberalization of Higher Education in India. (Education in India, past, present and future)</b>	<b>UGC</b>	<b>5<sup>th</sup> &amp; 6<sup>th</sup> Feb 2016. Dept of commerce, BJR Govt Degree College, Hyd, in collaboration with Institute of company secretaries of India.</b>
	12.	<b>National level Conference on Research with Innovative Ideas in Pharmaceutical Education, Health care &amp; Life sciences. (The scope of Bacterial amylases for Biodegradation)</b>		<b>4<sup>th</sup> Feb 2017. Organized by ANVESHANA EDUCATIONAL AND RESEARCH FOUNDATION in association with SHRI JJT UNIVERSITY, RAJASTAN.</b>
	13.	<b>Two day National Conference on Current Status and Future Prospects of Biotechnology</b>		<b>15-16 Nov 2019 at Nizam College, Osmania University, Hyd.</b>

Other Training programmes /Courses attended with dates and place.	S.No.	Name of the training programme/Courses attended	Name of the sponsoring agency	Place and Date
	1.	<b>Attended Training Programme on Health Initiatives and Adolescence – BHAGYA,</b>	<b>RUSA</b>	<b>10<sup>th</sup> to 12<sup>th</sup> May 2016 at Indian Institute of Health and Family welfare in collaboration with commissionerate of Collagiate Education, Govt of Telangana, Sponsored by RUSA.</b>
	2.	<b>Attended two day training programme on NIPUNA nurturing Young Leaders in Higher Education</b>	<b>State project Directorate, RUSA.</b>	<b>19<sup>th</sup> &amp; 20<sup>th</sup> April 2016, at OU.</b>
	3.	<b>Attended the six day Residential induction training Programme conducted at the District Resource center,</b>		<b>KAKATIYA GOVERNMENT COLLEGE, HANMAKONDA, WARANGAL, from 26<sup>th</sup> to 31<sup>st</sup> DECEMBER 2011.</b>
4.		<b>organized by DRC, Govt</b>	<b>08 to 10<sup>th</sup> July 2013,</b>	

		<b>Participated in three day district level Training programme on A Foundation Course in Human Values and Professional Ethics</b>	<b>College for Men (A), KADAPA</b>	<b>Govt College for Men (A), KADAPA.</b>
5.		<b>Attended Training programme on Options for carbon emission reductions in Industrial sector</b>	<b>Dr. MCR HRD INSTITUTE OF A.P. HYD.</b>	<b>20<sup>th</sup> to 22 Feb 2012, at Dr. MCR HRD INSTITUTE OF A.P. HYD.</b>
6.		<b>Attended Training programme on Environmental Governance to Combat Climate Change</b>	<b>Dr. MCR HRD INSTITUTE OF A.P. HYD.</b>	<b>16/02/2012 to 18/02/2012. at Dr. MCR HRD INSTITUTE OF A.P. HYD.</b>
7.		<b>Attended Books committee meeting</b>	<b>RUSA</b>	<b>02/12/2019 at SPD RUSA, Nampally, Hyd.</b>

### **Future plans of the department**

- i. Conducting of National seminars and workshops.
- ii. Establishment of sophisticated laboratory facilities.
- iii. Tie-up with the Industries
- iv. Getting of Grants from national funding agencies for minor and major projects.
- v. Consultancy services for testing and diagnosis of samples.

## **Vision, Mission and Goals**

### **Vision of Biotechnology Department**

To nurture the bioengineers with a potential to innovate, invent and disseminate knowledge for the benefit of society and environment. The course is designed to create opportunities for students to engage in multi-disciplinary research where they learn biotech science while integrating engineering, medicine and science, to provide solutions for human and animal health, agriculture and environmental technologies.

### **Missions of Biotechnology Department**

1. Regular updating of the course curriculum to cater to the needs of academia and industry.
2. Initiate multi-disciplinary programs with special emphasis on implementation of bioprocess design and scale-up.
3. Emphasis on recent trends in bioengineering through organization of conferences, symposia, workshops.
4. Faculty development programmes.

5. To create scientific awareness, sensitization, socio-ethical acceptance and adoption to the potentials and application of biotechnology.

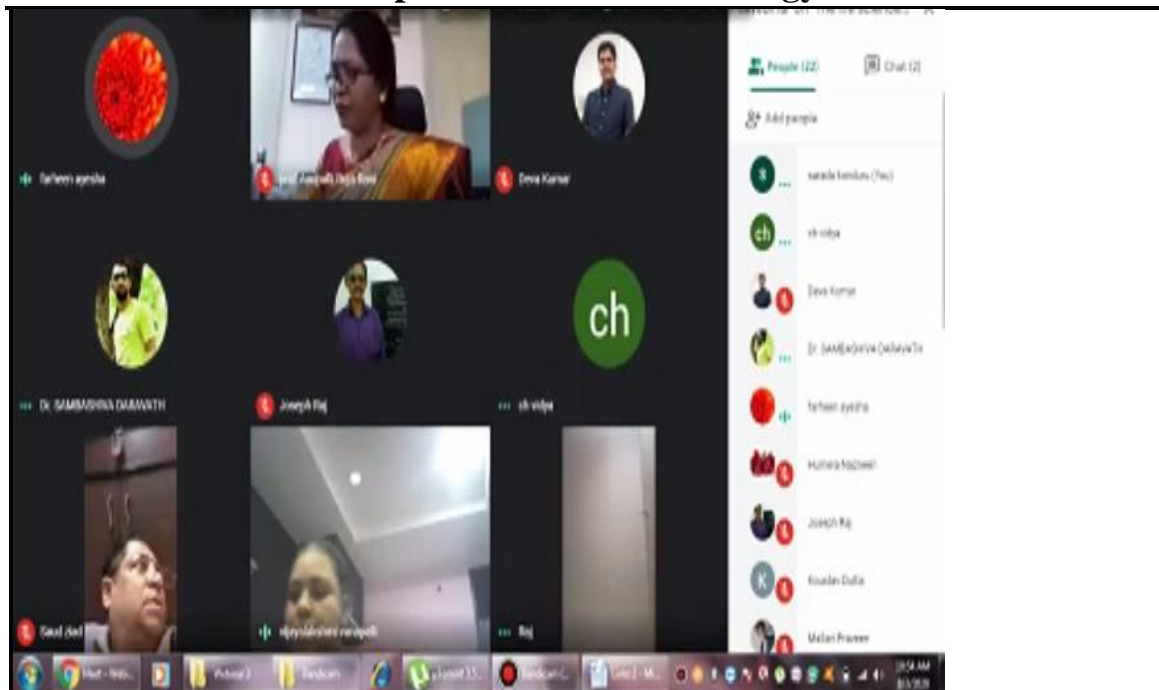
The **Goals** of the Biotechnology department are,

1. To develop and provide excellent research tools and capabilities through our resource facilities.
2. To provide the organization and environment necessary to accomplish overall development of the students.
3. To increase public awareness and understanding of biotechnology and its impacts.
4. To coordinate and participate in training activities for students and visiting scientists in biotechnology.
5. To become a resource center for biotechnology information and education.
6. To self empower the students through tissue culture techniques.
7. To gain a broader perspective of biotechnology-related issues by stimulating interaction among the biotechnology disciplines.

## **WEBINAR ON**

### **The Life sciences in the fight against Covid 19 – networking with students, faculty and researchers for effective management**

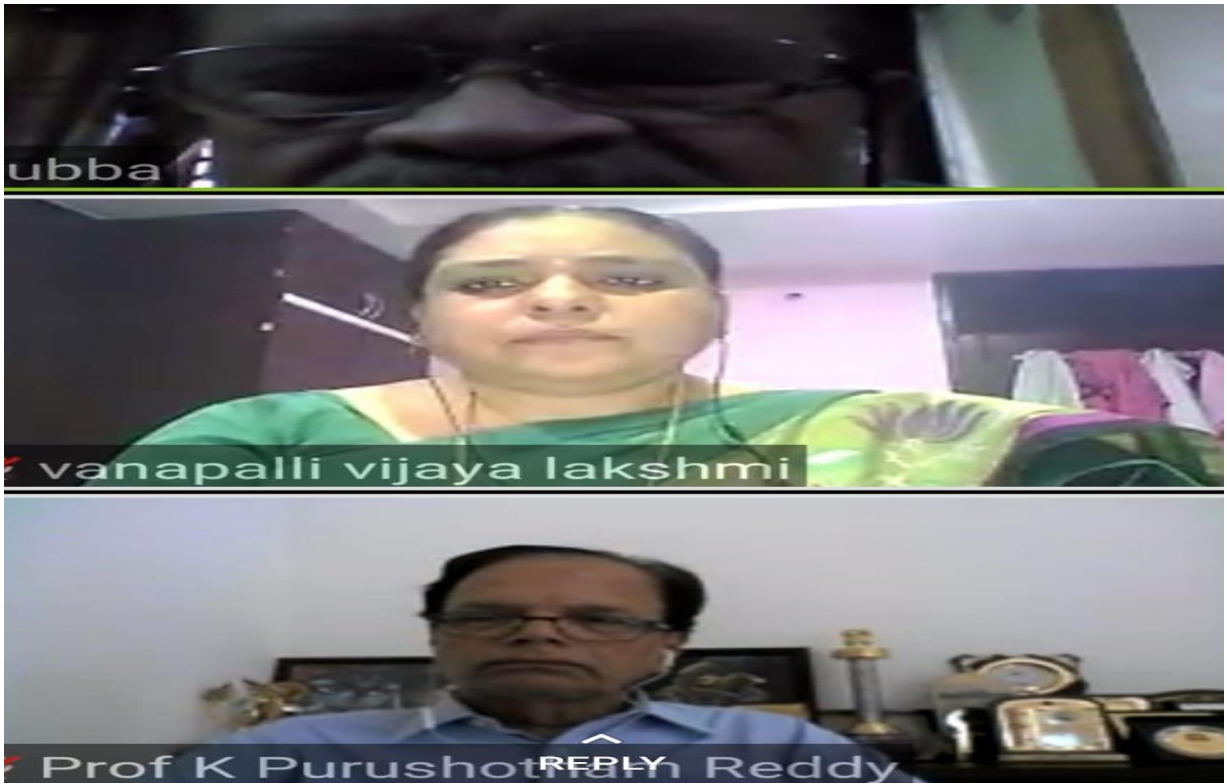
**Department of Biotechnology**



## **WEBINAR ON**

### **POST COVID19: SUSTAINABLE ENVIRONMENTAL MANAGEMENT**

**ECO CLUB**



<b>Students Performance((Results)</b>	
<b>Year</b>	<b>Percentage %</b>
<b>2015-16</b>	<b>93</b>
<b>2016-17</b>	<b>95</b>
<b>2017-18</b>	<b>90</b>
<b>2018-19</b>	<b>91</b>