# GOVERNMENT DEGREE COLLEGE, GAJWEL, SIDDIPET DISTRICT, TELANGANA STATE



# PROFILE OF THE DEPARTMENT OF MICROBIOLOGY

#### **CONTENT SHEET**

	Content	Page No
1.	Content sheet	2
2.	About the college	3
3.	About the department of Microbiology	4
	i. Establishment	
	ii. Composition of the faculty	
	iii. Chronology of the department Faculty	
	iv. Academic records and Department library	
4.	Time table and workload	06
5.	Department Mission and Vision	07
6.	Programme outcome of Microbiology	08
7.	Department curriculum structure	09
	i. Syllabi and credits	
	ii. Scheme of examination and evaluation pattern	
	iii. Courses offered	
8.	Student enrollment	11
9.	Result analysis	12
10.	Teaching, Learning and Evaluation	18
11.	Learning resources	19
12.	List of Equipment available in the department	20
13.	Co-curricular activities	22
	i. Seminars organized	
	ii. Educational tours	
	iii. Quiz programmes	
	iv. Elocution competions	
14.	Seminars and workshops organized by the department	29
15.	Poster presentation competitions	32
16.	Student study projects	34
17.	MOU	34
18.	Extracurricular activities	35
	i. Health camp	
	i. Blood typing	
19.	Best/innovative activities of the department	36
	i. Question corner	
	ii. Science talks	
	iii. Science flash card	
20.	Student progression	39
21.	Swoc analysis of the department	41
22.	Future vision and plans of the department	43
23.	Profile & scholarly activities of the department faculty	44



## GOVERNMENT DEGREE COLLEGE, GAJWEL ABOUT THE COLLEGE



The Government Degree College, Gajwel was established at Gajwel village in the erstwhile Medak district (now Siddipet District, Telangana State) on 27.08.1997 by the then State Government of Andhra Pradesh in order to provide educational opportunities to the rural youth who had hitherto been denied access to it. Having started with 92 students in the first batch during the Academic Year 1997-98, the institution is able to attract 814 students during the academic year 2018-19. Initially the classes were conducted in the temporary makeshift sheds in the old Revenue Office. later acquired its own campus in the heart of the Gajwel village (now a municipality) with near sufficient infrastructure and ran classes there till October 2017 when the college was shifted to the newly constructed building located in the Education Hub for Boys, in the Sangapur Road, Gajwel. Having affiliated to Osmania University, Hyderabad, the institution academically functions within the broad framework of the instruction and curriculum formulated by the affiliating university. The college adheres to the administrative norms of the State Government. Presently it is offering B.A., B. Com, and B.Sc., with different specializations at the U.G. level and M.A. (Telugu), M.A. (Economics) and M.Com. at the P.G. level. Ithas 4 NSSand1NCCcoywhichareinfusing national fervor and social awareness among their cadets. Being a prominent higher educational institutio ninthedistrictwith more two gloriousdecadesofexistence, Collegehasbeenre-accredited with 'B' grade byNAACintheyear2013 in second cycle of accreditation

The Government Degree College, Gajwel carved a niche for itself in catering to the higher educational needs of economically, and educationally backward socially area. Further, they always strive with their indomitables pirit to put their best to impart application oriented education&valuesamongthestudents. There have been constant, untiring and innovative efforts, labour and initiatives in improving the quality of education. The College Gajwel strives to achieve its goals and mainly focuses on creating conducive academic environment for individuals to realize their innate potential. The primary objective of the academic organization is to create knowledgeable, skilled and value-imbibed human beings. To this end, it is committed to provide the students with the facilities-physical, academic, administrative and auxiliary facilities which are conducive for transforming themselves into human resources with knowledge, skills, humane, and societal commitment.



### GOVERNMENT DEGREE COLLEGE, GAJWEL ABOUT THE DEPARTMENT OF MICROBIOLOGY



#### **Establishment:**

The Department of Microbiology was established on 26<sup>th</sup> August 1997 in the academic year 1997-1998 right from the constitution of the Government Degree College in Gajwel town. The Microbiology course was introduced as restructured B.Sc course in biology stream offered with combination of Botany and Chemistry from academic year 1997-1998 in English medium. It is great privilege to the department that Dr. K. Vijayarama Rao, MBBS the then MLA Gajwel, Ex- Minister of state cabinet, Government of Andhra Pradesh served as honorary lecturer in Microbiology for a period of few months.

The Department of Microbiology serving the students from its inception. It is acting as the fountain head of inspiration and one of the linchpin of the college curricular activities. This college, particularly the department of Microbiology molded many generations since it's establishment. The Department of Microbiology playing a key role in the development of college. On the recommendation of the standing committee on vocational educations, University grants commission (UGC) approved proposal of the college and sanctioned Microbiology programme at UG level from 1997.

**Composition ofFaculty:**Dr. K. Vijayarama Rao, MBBS the then MLA of Gajwel was the first faculty member of Microbiology Department. Dr. V. Vasavachary,MBBSmr. T. Nagendra Kumar, Mr. P. Prabhakar, Dr. Mary Chandravathy, Mr. B. Prabhakar, Ms. G.Roja Margaret, Mr. G.Ramana Reddy successfully acted as faculty members for the Department of Microbiology from 1997 to 2002. Ms. Sharada, Ms. P.Renuka, Ms. AravindaLavanya, Dr. B. Venkateshwar, Dr. K. Niranjan Rao acted as faculty members from 2002 to 2004. Mr. R. VenkatRamchandar, successfully acted as in-charge from the 2013 to 2018. Presently Dr. N. Harikrishna, appointed as Assistant Professor of Microbiology and made as head of Department from Academic year, 2018 to till date. The department learning and showing its progress continuously in its academic and research activities.

#### About the faculty:

Dr. N. Harikrishna, Assistant Professor of Microbiology appointed through the APPSC recruitment in 2011. He has more than 11 years of teaching experience in Microbiology at Bachelor Degree level. He worked as a Lecturer in Microbiology at Nizam College, Hyderabad, from 2008 to 2010.He served as a Lecturer in Microbiology at Government Degree College, Siddipet (A), Siddipet district from December 2011 to June 2018. Presently, He discharging duties at this college from June 2018 to till date.

#### **Chronology of the Department**

S.No	Name of the faculty	Designation	Period
1.	Dr. K. Vijayarama Rao, MBBS	Honorary Lecturer	September 1997
2.	Dr. V. Vasava Chary, MBBS	Honorary Lecturer	September 1997
3.	Mr. T. Nagendra Kumar (M.Sc. Zoology)	Part time Lecturer	October 1997 to August 1998
4.	Mr. P. Prabhakar (M.Sc. Zoology)	Part time Lecturer	September 1998 to January 2000
5.	Dr. Mary Chandravathy, (M.Sc. Zoology)	First regular Lecturer	3 <sup>rd</sup> December 1998 to 8 <sup>th</sup> December 1999
6.	Mr. B. Prabhakar (M.Sc. Botany)	Part time Lecturer	October 1999 to March 2000
7.	Ms. G.Roja Margaret (M.Sc Botany)	Junior Lecturer in Botany as part time Lecturer	June 2000 to March 2001
8.	Dr. Mary Chandravathy, (M.Sc. Zoology)	Regular Lecturer	10 <sup>th</sup> December 2001 to 21 <sup>st</sup> January 2002 (and on leave)
9.	Mr. G. Ramana Reddy (M.Sc. Microbiology)	Part time Lecturer/ Contract Lecturer	June 2000 to December 2002 with break in service as part time Lecturer/ Contract Lecturer
10.	Ms. Sharada (M.Sc Zoology)	Part time Lecturer	November 2000
11.	Ms. P. Renuka (M.Sc Zoology)	Part time Lecturer	9 <sup>th</sup> May 2001 to 2 <sup>nd</sup> September 2004
12.	Ms. AravindaLavanya, (M.Sc. Microbiology)	Part time Lecturer	11 <sup>th</sup> November 2002 to 8 <sup>th</sup> January 2003
13.	Botany)	Regular Lecturer in Botany	3 <sup>rd</sup> September 2004 to 6 <sup>th</sup> September 2004
14.	Dr. K. Niranjan Rao (M.Sc., Ph.D in Botany)	Regular Lecturer	7 <sup>th</sup> September 2004 to December 2012
15.	Mr. R.VenkatRamchandar (M.Sc., Microbiology), (M.Tech Biotechnology), (M.Sc Botany)	Regular Lecturer	1 <sup>st</sup> January 2013 to June 30 <sup>th</sup> 2018
16.	Dr. N. Harikrishna, (M.Sc., Ph.D)	Regular Lecturer	June 30 <sup>th</sup> 2018 to till date

#### TIME TABLE FOR THE ACADEMIC YEAR 2020-2021

Period /	10.00 to	10:50 to	11:40 to	12:30 to	02:00 to	02:50	03.40 to
Day	10.50 AM	11:40 AM	12:30 PM	01:20 PM	02:50 PM	to 03:40 PM	04:30
Monday	III MB	III MB	(PR)	II MB	I MB (PR)	III MB	
Tuesday	III MB		II MB		II MB	I MB	
Wed. day		I MB		III MB			
Thursday	III MB	II MB (PR)		III MB		I MB	II MB
Friday			III MB	II MB	I MB		
Saturday		III MB	II MB		III M	IB (PR)	

#### Workload for the academic year 2020-2021

Year	Theory	Practical	Total Workload
Ι	04	02	06
II	04	02	06
III	06	04	10
	Total W	22	

Academic records The department continuously updates its activity records of various programmes conducted by the faculty. Faculty encourages the students to involve in co- curricular and extra-curricular and social responsibility events.

#### **Department library:**

The department also maintains the library facility in the form of reference books and soft copy format in the computer provided to the students.Standard reference books of national and international publications in the areas of microbiology, biochemistry, molecular biology, genetics and bioinformatics are available



### DEPARTMENT OF MICROBIOLOGY GOVERNMENT DEGREE COLLEGE GAJWEL



#### DEPARTMENT VISION:

- Providing quality education and training to our students, and bringing out the very best in them through the stimulus of scholarly progression and intellectual development.
- Equipping students with excellence in education, abilities and skills to enable them pursue a career of their choice.
- It also includes facilitating high quality teaching, learning and research ambience in the department. We nurture our disciples to aim at global competition for employment and career breakthrough.
- > To build intellectual and imaginative minds

#### DEPARTMENT'S MISSION

- To impart higher education with integral formation which involves academic excellence, that meet the changing needs in discipline of microbiology.
- Our Mission is to be an effective change agent and path building towards the designed vision. Embracing academic &professional inventions, innovations & dynamism is continuous driving force for us.
- Extension of intra and inter departmental service, providing brilliant assistance for institutional assignments and playing linking pin role in administrative endeavor's are other prominent provinces of the department.

#### DEPARTMENT'S OBJECTIVES:

- Objectives are perhaps the achievable targets and actions involved in accomplishment of the stated vision and mission of any institution or department. Therefore we have penned following as time-tested objectives of our Microbiology department.
- To strengthen and develop nexus with Institutes, Departments, organizations, Industries and personnel of diversified fields and specializations.

- > To establish research culture and impart progressive outlook for societal cause.
- > To promote holistic development among Students and Staff with human touch.
- To cultivate broader spirit, spectrum, self-employment and entrepreneurial instigation and zeal among the stakeholders of the department.
- > To make teaching, learning and innovation more vigorous, ever dynamic and conducive.



### **GOVERNMENT DEGREE COLLEGE, GAJWEL** <u>B.SC. – MICROBIOLOGY PROGRAMME OUTCOMES</u>

Microbiology is branch of science that deals with the study and understanding of Microorganisms. It has become vital and indispensable since they are connected each and every aspect of human life activities. It has wide applications in multifaceted fields and plays essential role in the sustainable environment. Microbiology focuses on the interaction between microorganisms, animals and human disease, such as infectious diseases. The different branches of Microbiology like medical microbiology, Food microbiology and Immunology also included in the syllabus that enables the stake holders to understand the basic concepts of microorganism in the and its contributions towards development of associated technologies like biotechnology, bioinformatics and so on. With this importance of Microorganisms in the world, Microbiology was introduced in the curriculum of undergraduate course as an independent subject. Curriculum was designed to educate important microbiological disciplines, as well as to promote and inculcate the basic skills and competencies that have enduring value beyond the classroom.

Stake holders or undergraduate students will gain knowledge and familiarity with unique role of microorganisms and their role in play in recombinant DNA modification technologies.

Students get information about role of microbe's interaction with the humans.

Students will gain familiarity with the role of microbes in the context of ecosystem function.

Students will acquire laboratory safety rules and skills applicable to various labs such as microbiology, clinical methods, reporting of observations and analysis of them.

By learning Microbiology the students have multiple opportunities to get jobs in various pathological labs, industries and research laboratories, pollution control board jobs as well teaching field.

### TELANGANA STATE COUNCIL OF HIGHER EDUCATION, TELANGANA **OSMANIA UNIVERSITY PROPOSED SCHEME OF CHOICE BASED CREDIT SYSTEM (CBCS) B.SC MICROBIOLOGY**

#### W.E. F FROM ACADEMIC YEAR 2020-21

SEMES	STER-6			
Code	CourseTitle	CourseType	HPW	Credits
	EAR-SEMESTER-1			Cicuits
BS	AEC-1			2
BS	English			4
B2	SecondLanguage			4
BS	GeneralMicrobiology	DSC-1A	4+2	5
BS	Optional-II			5
BS	Optional-II1			5
SEMES				_
BS	AEC-2			2
BS	English			4
BS	SecondLanguage			4
BS	MicrobialDiversity	DSC-1B	4+2	5
BS	Optional-II			5
BS	Optional-Ill			5
SECONI	YEAR-SEMESTER-3			
BS	Haematology	SEC-1	2	2
BS	UGCGiven	SEC-2		2
BS	English			3
BS	SecondLanguage			3
BS	Food&EnvironmentalMicrobiology	DSC-1C	4+2	5
BS	Optional-II			5
BS	Optional-Ill			5
SEMES				
BS	MushroomCultivation	SEC-3	2	2
-	UGCGiven	SEC-4		2
	English			3
BS	SecondLanguage			3
BS	MedicalMicrobiology&Immunology	DSC-10	4+2	5
BS	Optional-II			5
BS	Optional-Ill			5
THIRDY	EAR-SEMESTER-5			
	English			3
	Secondlanguage			3
BS	MicrobiologyandHumanHealth	GE	4	4
	1A.MolecularBiology&Microbial		T	
	Geneticsor			
BS	1B.MicrobialOmics	DSE-1	3+2	5
BS BS	Optional-II Optional-IIl			5
מח		\		5

BS	English			3
BS	Secondlanguage			3
	2.A IndustrialMicrobiology			
BS	2.B PharmaceuticalMicrobiology	DSE-2	4+2	5
BS	PROJECTWORK/AppliedMicrobiology		3+2	4
BS	Optional-11-A/B/C			5
BS	Optional-111-A/B/C			5
Total				150

### Scheme of examination and evaluation pattern

### Theory examination evaluation pattern

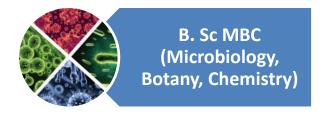
Sem	Max. marks	External exam marks	]	Internal exam	nination marks	3
				3	30	
			Internal –I	Internal-II	Assignment	Total
			15	15	05	100
Ι	100	80				
II	100	80	15	15	05	100
III	100	80	15	15	05	100
IV	100	80	15	15	05	100
V	100	80	15	15	05	100
VI	100	80	15	15	05	100

\*Average of two internal is considered

### Practical examination evaluation pattern

S. No	Semester	Marks allotted
1	I (Semester end practical examination)	50
2	II (Semester end practical examination)	50
3	III (Semester end practical examination)	50
4	IV (Semester end practical examination)	50
5	V (Year-end practical examination)	100
6	VI (year-end practical examination)	100

#### **COURSES OFFERED:**





#### STUDENT ENROLMENT

Academic year	Total allotted strength	No of enrolment
2014-15	30	
2015-16	30	
2016-17	30	24
2017-18	30	24
2018-19	30	23
2019-20	30	07
2020-21	30	24

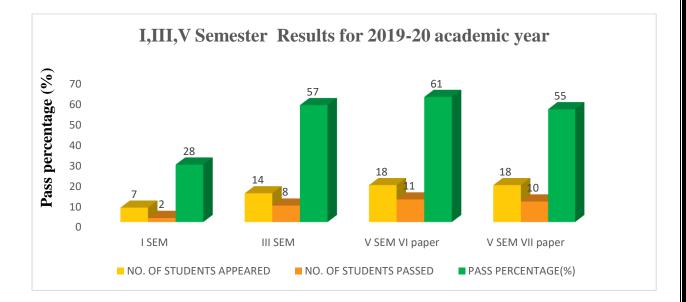
#### ECONOMIC BACKGROUND OF STUDENTS

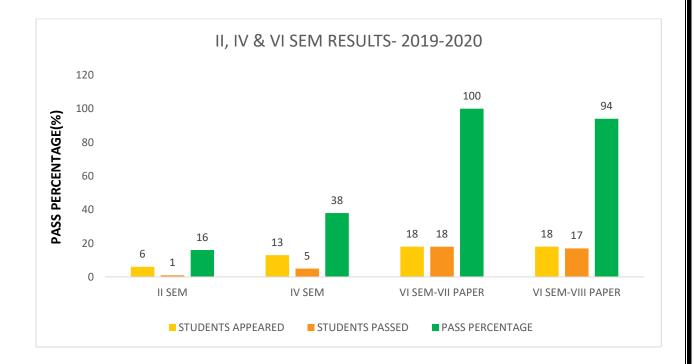
About 95% of the students of the department belongs to economically backward classes. Majority of them are depending on post metric scholarships provided by the social welfare department, Government of Telangana. Majority of the students are from rural areas of economically backward region across the Medak and surrounding districts.





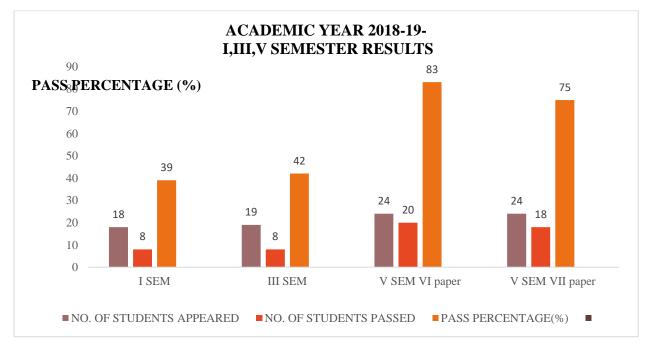
## GOVERNMENT DEGREE COLLEGE, GAJWEL SUBJECT: MICROBIOLOGY ACADEMIC YEAR 2019-2020 RESUTL ANALYSIS OF I, III, V SEMESTER



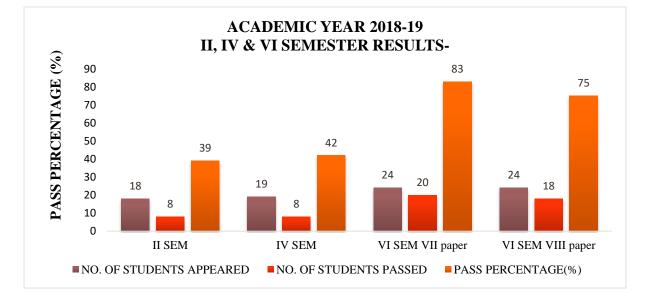


#### **GOVERNMENT DEGREE COLLEGE, GAJWEL**

#### DEPARTMENT OF MICROBIOLOGY

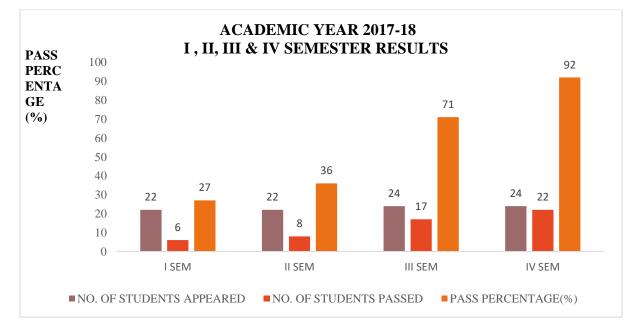


#### **RESULT ANALYSIS FOR THE ACADEMIC YEAR 2018-19**

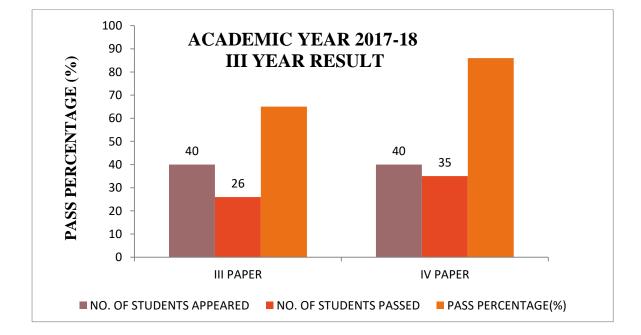


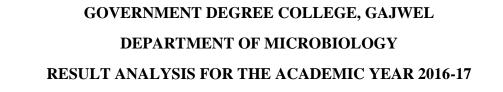
#### **GOVERNMENT DEGREE COLLEGE, GAJWEL**

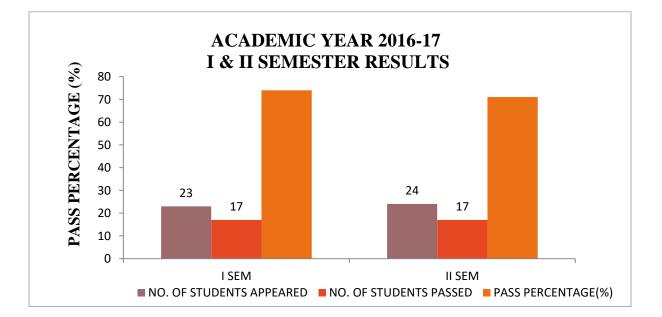
#### DEPARTMENT OF MICROBIOLOGY

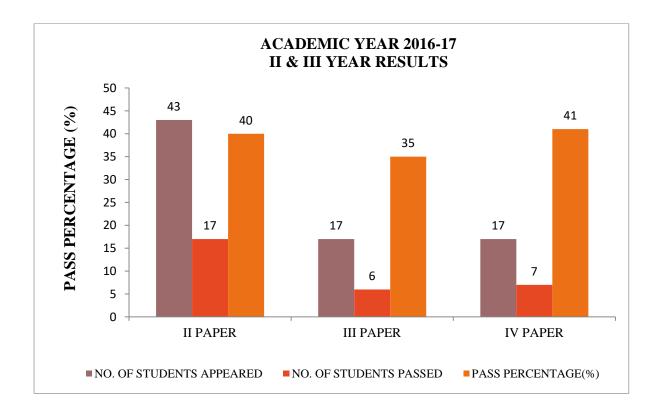


#### **RESULT ANALYSIS FOR THE ACADEMIC YEAR 2017-18**

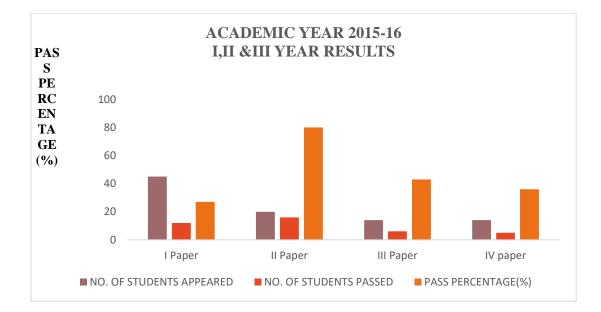






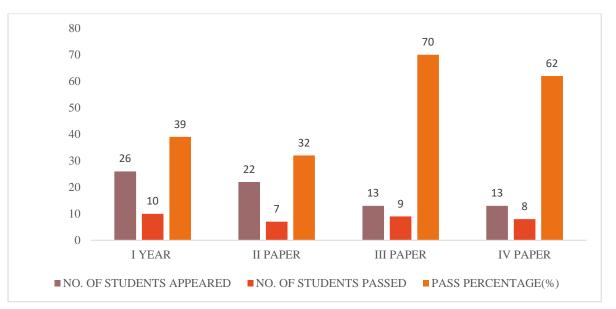


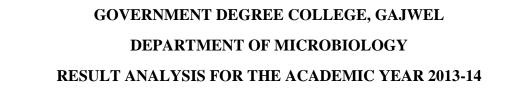
### GOVERNMENT DEGREE COLLEGE, GAJWEL DEPARTMENT OF MICROBIOLOGY RESULT ANALYSIS FOR THE ACADEMIC YEAR 2015-16

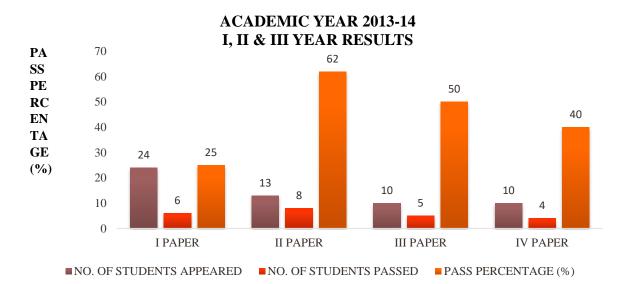


### GOVERNMENT DEGREE COLLEGE, GAJWEL DEPARTMENT OF MICROBIOLOGY

**RESULT ANALYSIS FOR THE ACADEMIC YEAR 2014-15** 







#### STUDENT CENTRIC ACTIVITIES

#### **CURRICULAR ASPECTS**

The department of Microbiology is following the syllabus framed by the affiliated University, Osmania University, Hyderabad. Up to academic year 2015- 2016 year wise scheme was adopted. From academic year 2016-17 with the instructions of UGC and Higher education council Telangana, Choice Based Credit System (CBCS) was introduced in the curriculum.the syllabus is regularly revised and updated by the affiliated university. Latest revision of syllabi has been conducted in the academic year 2019-20. As part the newly established CBCS system, faculty also teaching the Skill Enhancement Course (SEC), Generic Elective in addition to the regular courses.

#### **TEACHING, LEARNING EVALUATION:**

- The department of Microbiology prepares its semester wise curriculum plan according to the periods available. Curriculum plan was prepared, month wise according to the syllabi at the beginning of the semester at the extent of working days available.
- Faculty regularly maintain teaching diaries, synopsis and teaching notes for the beginning of the semester.
- The Department also conducts the remedial classes for the slow learners to improve their academic standards.
- At the intermediate level students lacks knowledge about Microbiology as is not present in their curriculum. Hence, faculty also arranges bridge course classes for the first year at the beginning of Semester I to create awareness about the subject.
- As per of CBCS system Department conducts the Internal assessment test twice a semester according the instructions given by the University.
- The department also uses other teaching tools like charts, diagrams, models and Information and communication tools (ICT) like Power point presentations, youtube classes, online classes and animated videos for effective communication and better understanding of the subject by the students.
- The faculty also involves in the presentation of live lessons through MANA TV/ TSAT channel.
- To impart quality education, the faculty of department strives continuously for acquiring and up gradation of recent technologies introduced in the respective programmes. These upgraded matter is shared among the students by direct interacting or via online platforms like Whatsapp.

• Students also encouraged to carryout student study projects to get hands on experience of practicals and acquire the skills. This may promote the students towards research activities.

#### **TEACHING METHODOLOGY**

- Class room teaching learning
- Class room student seminar
- Student Assignments
- Internal assessment
- Elocution
- Quiz competitions
- Poster presentation competitions
- Invited lectures
- Educational tours

#### LEARNING/KNOWLEDGE RESOURCES

The Department of Microbiology provides the students with multiple learning resources. As the new technologies are emerging, they are shared among the students via different platforms. The department adapts newly coming learning resources or updated technology for the betterment of student knowledge and easy understanding. Microbiology teachers provide a variety of learning experiences, including individual and collaborative learning. The Department providing the following resources for the students.

S. No	Learning resources	Available resources
1	Departmental library	40 books available
2	Computer with internet facility	02
3	Printer	01
4	No of laboratory rooms	02
5	No of class rooms available	03
6	Teaching aids,	01
7	You tube channel	01
8	Whatsapp groups	03
9	Online animated videos	
10	Online – Virtual labs	
11	Department displays notice board	
12	Teaching notes	

S.No.	Name of the article	Quantity	Remarks
1.	Laminar Air flow	01	Working
2.	Hot air oven	01	Under repair
3.	Incubator	01	Working
4.	Orbital shaker	01	Working
5.	Shaking Water bath	01	Under repair
6.	Colony counter	01	Working
7.	Digital weighing balance	02	Working
8.	Colorimeter	04	Working
9.	Centrifuge	02	Working
10.	Chromatography Chamber	01	Working
11.	Gel electrophoresis unit	01	Working
12.	Haemocytometer	02	Working
13.	Glass distillation Unit	01	Working
14.	Wall Distillation water unit	01	Working
15.	Medical Microscopes	05	Working
16.	Binocular Microscope	03	Working
17.	Cold Centrigfuge	01	Working
18.	Micropipettes	02	Working
19.	Autoclave	02	Working
20.	Portable Autoclave	01	Working
21.	Computer with internet facility	01	Working
22.	Printer	01	Working
23.	Shaker Incubator	01	Working
24.	LCD projector	01	Working
25.	Inoculation Chamber	01	Working
26.	Water Deioniser	01	Under repair
27.	Stop clock	01	Working
28.	Spectrophoto meter	01	Working

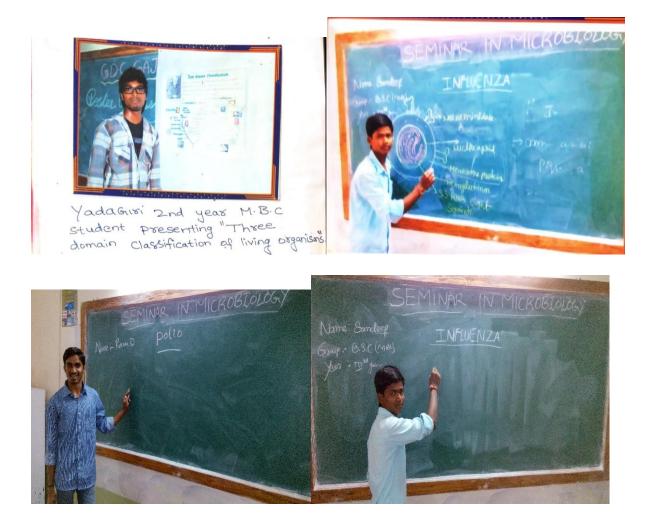
### LIST OF EQUIPMENT AVAILABLE AT THE DEPARTMENT

29.	Analytical balance		Working
30.	Seitz filter	01	Under repair
31.	Vortex mixer	01	Working
32.	Microwave oven	01	Working
33.	Inoculation loops	05	Working
34.	-20 <sup>0</sup> C refrigerator	01	Working
35.	Water bath	02	Working
36.	Glass ware		Working

#### **CO-CURRICULAR ACTIVITIES OF THE DEPARTMENT**

#### **CLASS ROOM SEMINARS**

The department regularly conduct the class room seminars. The students also involves in the seminar actively.





#### **EDUCATIONAL TOURS**

The department regularly organizes the educational tours for acquire knowledge of new technology and to gain interest towards the research. The department students has visited the CCMB couple time on its open day on 26 September , 2017, 2019. Students also visited the CFRD research centre OU, Hyderabad.



VISIT OF STUDENTS OF MICROBIOLOGY TO SCIENCE EXHIBITION AT HUSAIN JAHEER SCHOOL GROUNDS ORGANIZED BY CSIR LABORATORIES ON THE OCCASION OF CSIR PLATINUM JUBILEE CELEBRATIONS ON SEPTEMBER 6<sup>th</sup> 2017.



VISIT OF STUDENTS OF MICROBIOLOGY TO SCIENCE EXHIBITION AT HUSAIN JAHEER SCHOOL GROUNDS ORGANIZED BY CSIR LABORATORIES ON THE OCCASION OF CSIR PLATINUM JUBILEE CELEBRATIONS ON SEPTEMBER 6<sup>th</sup> 2017.



Students along with faculty at CCMB open day on 26. 09.2019



### Zebra fish model



Models and live presentation demonstration by research scholars

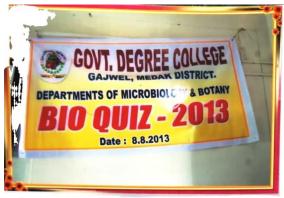


Anil, Research Scholar demonstrating about Electrophoresis unit at CFRD OU, Hyderabad on 26.09.2019



#### **QUIZ PROGRAMMES**

The department regularly conducts the quiz programme to the students of Microbiology. On 08.08. 2013 the department of Microbiology and botany conducted the district level BIO QUIZ competition in the college. A total of 13 teams from various colleges have participated in the programme. To the winners cash prize award also distributed (first prize -Rs. 2000/-, Second Prize- 15000/- and Third Prize - 1000/-).



On 8-8-2013 level District Bioquiz in Mana TV hall



SKI R. Venkat Ramchandas for BioQuiz along Convener SXI Aziz (vice principal) with Szi Malik (NAAC Coosdinatos) and Smt Jahnavi (Lecturer in botany).



ನಾತ್ರಿ



జ్వేల్ డిగ్రీ కళాశాల బ్దకు ప్రథమ బహామతి

రల్. న్యూస్లైన్:

ంలోని ప్రభుత్వ డిగ్రీ కళా 



కెమినీ ఆజాజ్, శావణి ఎంపి కార్యక్రమ నిర మలు మాలిక్ పాల్గొన్నారు

The department also conducted quiz programmes at department level also. Apart from the quiz programme the department also organizes elocution competitions and group discussions





2018-2019				
Name of the Competion	:Quiz.			
Date	:			
Group & Class	: MBC TILY			
Торіс	: Imm plogy			
Signature of the Particip	00			

S.No.	Roll No.	Roll No. Name of the Student	
	Group -I	A	Signature
	(Rhizoba)		
	11-11	T. Chandana.	T-chandour
	2	Karishma	Kasishma
	3	Bhanuprasad	
	4	Saritha	Sazitha
	5		Con y for the
			1
	Graup-II		
	(clock)		
_	1	Navya	A Course
	2	S. Shekar	she take
	3	Rachana	Rachaba
	4	Sandage	
	5	N. Vaxshini	Vaxshine
	6 .	M. Roja	Roja.
		5	. )
	Group-III		
	Gaso Basteria.	Akhila	Akhila
		Roundra	
4		Ravali	Rus
_		Aruna	Asuna

#### SEMINARS AND WORKSHOPS ORGANIZED BY DEPARTMENT

Department of organized two workshops and one national seminar. Online workshop on **"Emerging applications of ICT Tools in Hihger education"** conducted by Department of Microbiology on 11-13 June 2020. A total of 450 participants were attended the programme.

A Two Day National Seminar on "**FOOD SAFETY,QUALITY AND POLICY**" was organized by Department of Microbiology, Government Degree &PG College, Gajwel on 28<sup>th</sup> and 29<sup>th</sup> of June 2018. A total of more than 50 participants were attended and presented their research papers.

In collaboration with the "Primer biotech research centre" department conducted Three day hands on experience workshop on "**Molecular biology techniques**" from 14- 16, November 2015. A total of 36 student members were attended

Three-Day National Level Online Workshop on	14:3 Close		路 all 30% <b>초</b>
"EMERGING APPLICATIONS OF ICT TOOLS IN HIGHER EDUCATION"	O, se	earch	
Organized by	s	Sunitha Ponnala(me)	, <u>*</u> *
Department of Microbiology, Government Degree College, Gajwel,	$\sim$	RESONANCE WARANGAL 1 (host)	>
Siddipet District, Telangana, India (Re-Accredited with 'B' Grade by the NAAC & ISO 9001-2015 certified college)		Basavaraj Shimpi	👑 🐋 🏂 >
Registration link https://docs.google.com/forms/de/IFAlipQL5d Day 1: Effective mage of PPT	PY	Pushpa Yadav	👑 🗪 🏂 >
m9357GMBDATHF4555HR00a+52am00a HDRgCrgvenform2up=s_link Duty 1: Vietnal labs for tracking	PS	Prof. Sadik Ahmed Sheikh	👑 🐋 🔹 >
Dates: 11-13 JUNE 2020 Time: 11:00 AM - 12:30 PM	2-84	Jabeela Shirlin	👑 🐋 🏂 >
Host Moderator Chairman	DC	Dr Ch.Harinatj	👑 🐋 🏂 >
Dr. N. Hartkrishna Ant Prof. of Microbiology. Gent. Days: Galage, Giptal Gort. Days: Galage, Giptal		Vorem Kishore	👑 🛤 🧟 >
Invited by		Dr. M. Srinivas	👑 🐋 🏂 >
Principal and Staff, Government Degree College, Gajwel, Siddipet District, Telangana, India		B.venkateswara Rao 🛛 🕚	👑 🖦 🍂 >
Contact at: Dr.N.Harikrishna, Mabile No. 9966222110, 9182279646, e-mail:harinagamalli@gmail.com	DS	Dr. Sanjeev R Nayak	👑 🖿  >
Nume 1. Live class session link will be provided before the commencement of class. 2. Participants also may watch the session through uploaded videos in the provided platform 3. F., coreficients will be provided a few successful completion of much han	HN	Harikrishna Nagamalli (co-host)	<b>•••</b>

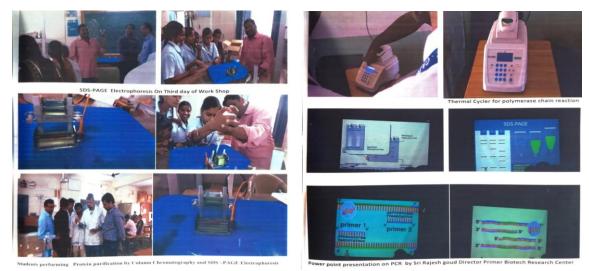


Glimps of National seminar on Emerging applications of ICT Tools in Hihger education conducted by Department of Microbiology on 11-13 June 2020.





A Two Day National Seminar on "**FOOD SAFETY,QUALITY AND POLICY**" was organized by Department of Microbiology, Government Degree &PG College, Gajwel on 28<sup>th</sup> and 29<sup>th</sup> of June 2018.





Three day hands on experience workshop on "**Molecular biology techniques**" from 14- 16, November 2015

#### POSTER PRESENTATION COMPETITIONS

Inter college Poster presentation competition on **"Trends in Biological Science"** was organized by Department of Microbiology, Government Degree College, Gajwel on 07/02/2019. A total of 40 poster presented by the 80 students.

#### అకట్టుకున్న బయోసైన్స్ ఎగ్జిబిషన్

గజ్నేల్ దూరల్: బయోసైన్స్ లమ్బిరణలో అలోచనాత్మకశ, పర శోధనా దృష్టి విద్యార్థులకు ఉండాలని, దీనివల్ల విద్యార్థులు అయా అంశాల్తో అభివృద్ధిని సాధించవచ్చని డిగ్రీ కళాశాల [పిస్పిపార్ దార్జర్ శ్రీనివాసరెడ్డి అన్నారు. గరువారం గజ్చేల్ బాలుర ఎద్యుకేషనల్ హద్రలోని డిగ్రీ కళాశాలలో సూక్ష్మ జీవశాస్త్ర పైదర్శన పోలీలు నిర్వహించారు. ప్రతిభ కనబర్సిన విద్యార్థులకు బహముతులను అండజేశారు. ఈ సందర్భంగా కళాశాల ధీన్పిపాల్ విద్యార్థుల సర్వాం గీజ వికాసానికి విధిన్న కార్యక్రమాలు నిర్వహించడం జరుగుతుంద న్నారు. కాగా ఈ పోటీంలో సిద్దిపేట, గజ్మేల్, ఇతర ప్రాంతాల కళా శాలల విద్యార్థులు పాల్గొన్నారు. కార్యక్రమంలోమహిళ డిగ్రీ కళాశాల





విద్యార్థులు ప్రదర్శించిన వార్పోర్టర్లను పరిశీరిస్తున్న ప్రిక్సిపార్ శ్రీనివాస్రెడ్డి ప్రిస్పిపాల్ డాక్టర్ ఉమాళజాక్టర్, హరికృష్ణ , త్వెరర్లు తదితరులు పాల్చొన్నారు.

#### Fri, 08 February 2019 Able https://second.com/s/200515021

## విద్యాల్థి దశ నుంచే పలిశీధనా దృక్పథాన్ని అలవర్షుకోవాలి

#### >> గజ్వేల్ ప్రభుత్వ డిగ్రీ కళాశాలల ప్రిన్సిపాల్స్ శ్రీనివాస్ రెడ్డి, ఉమాశ శి

గజ్వేల్, ఫిట్రవరి 7: విద్యాల్లి దశ నుంచే పరిశోధనా దృక్ళథాన్ని అంచర్యుకోవాలని గజ్వేల్ ప్రభుత్వ డిగ్రీ కళా శాలల ప్రిన్ఫిపార్స్ శ్రీనివాసరెడ్డి, ఉమాశశిలు అన్నారు గరువారం గజ్వేల్ పట్టణంలోని బాలుర విద్యాసౌధంలో సూక్మజీవశాస్త్ర విట్టణంలోని బాలుర విద్యాసౌధంలో సూక్మజీవశాస్త్ర పెట్టాగు అనే అంశంపై కుద్దరిత్ర పదర్శంగా వాపిటవ పోటీలను నిర్వహించారు. ఈ సందర్భంగా వారు మాట్లడుకూ విద్యార్తుల స్వాంగీణ వికాసానికి విభిన్న కార్యక్రామాలను నిర్వహిస్తున్నామన్నారు. డిగ్రీ స్థాయిలోనే పరిశోధవా దృక్యడాన్ని అంచరదుకోవాల న్నారు విద్యార్యలు తరగతిగదులకే పరిచితం కాకుండా విశ్వ విజ్యాసాన్ని హస్తగతం చేసుకునేందుకు అవకాశా లను సద్వినియోగం చేసుకోవాలన్నారు. నూతన అవిష్క

ఆంధ్రజాస్త్రి Fri, 08 February 2019 https://epaper.andhrajyothy.com/c/36526107



పలితోధనలో ప్రథమ స్థానంలో నిరిచి బహుమతులను అందుకుంటున్న విద్యార్ధులు

రజలకు కుద్యబిత ప్రదర్శన వంటి కార్యక్రమం తోద్చదు తుందన్నారు. అద్యాపకులు హరికృష్ణ, గోపాలసుదర్శనం, కుమారస్వామి, రఫీయాఖానం, రమేశ్ బాబు, రజనీష్, హరిసాథశర్త, భవాని, అదవి రాజు, సిద్ధిపేట కశాశాల అద్యాపకులు దాక్షర్ ప్రణీత తదితరులు పాల్గొన్నారు.



Inauguration of the program by Dr. A. Srinivas Reddy, Principal of the college

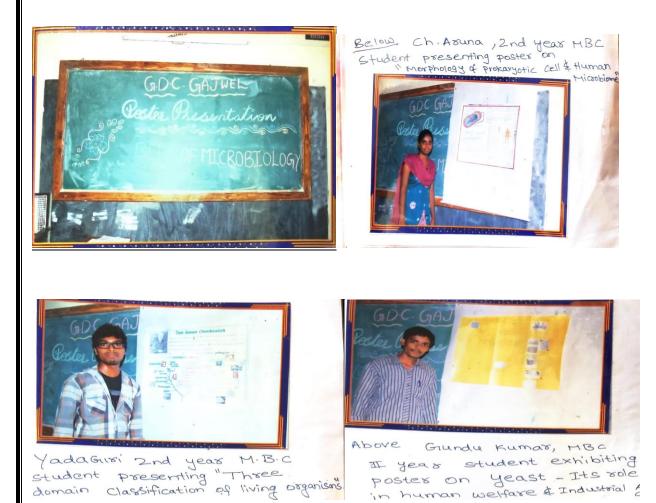


Poster presentation by the students to the audience  $\frac{22}{2}$ 

33



Distribution of certificate and issue of awards to the best performers



A poster presentation competition on Microbiology – Human welfare on 28.02.2014.

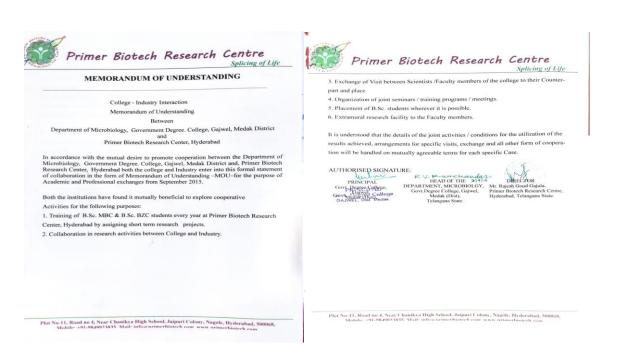
#### STUDENT STUDY PROJECTS

The department also encourages the students to do study projects. In the academic year 2017-18 study project on "A study on synthetic colours, sanitary quality of indian sweets, Chegodi in Gajwel and usage of alternate biocolours" carried by students. This study project was selected at district level in JIGNASA competitions 2018.



#### Memorandum of Understanding

Department of Microbiology, Government Degree College, Gajwel and Primer Biotech Research centre, Hyderabad have entered in to a Memorandum of Understanding (MoU) in 2015 and aimed to foster quality assurance and quality sustenance in the department. In collaboration with the Primer Biotech research Centre a three day Hands on Expierence workshop entitled "Molecular biology techniques was conducted" 14-16 November 2015



#### **EXTRA-CURRICULAR ACTIVITIES**

#### **Activity: Health Camp**

The programme"**Health camp**" was organized by the Department of Microbiology in association with **Rotary Club, Gajwel,** Woman Empowerment cell, Internal Compliance Committee, NSS-II unit of the college on 14-15 August 2015.Department of Microbiology students have performed the BMI, Hemoglobin estimate of other students and medicines were distributed to the anemic students. In this health camp more than 350 students were participated and checked their BMI, Blood grouping etc.





The department also conducted blood typing for the college students on 3-6 September 2013

#### **BEST AND INNOVATIVE PRACTICES**

#### 1. Title of the Practice: Question corner

Department of Microbiology taken an initiation to start a wall display entitled "**Question corner**" from the academic year 2018-19. Every Thursday question related to the general science placed on the notice board of the Microbiology Department. On Monday answer will be placed to question.

వేళ్లు విరిస్తి శబ్ధమల? . Bending finger joints gives sound Why? ending finger joints gives sound why? ⊇శ్ని: చునం పేళ్లు విరిచినపుడు శట్టం ఎందుకు వస్తుంది? జనాటు: చితి పేళ్లలో ఎన్నో కిళ్ల (joints)తో కూడిన ఎముకలుంటాయి. జీవనిర్మాణ శాస్త్రం (anatomy) ప్రకారం వీటిని జారుడు క్లిర్సు(gliding joints) అంటాము.నిజానికి ఐదువళ్ల ఎముకలు ఈ కిళ్ల సాయంతో విడివిడి గొలుసుల లాగా ఉంటాయి. పేళ్లు కదిలేటప్పుడు కీళ్ల దగ్గరే ఎముకలు అటూ ఇటూ కదులుతాయి కదిలే యంత్ర బాగాల పద్ద పుర్ఘణను నివారించడానికి ఎలాగైతే కందెనలు (lubricants) వాడతామా, అలాగే మన పేళ్ల ఎముకులు కదిలే కిళ్ల దగ్గర ఒక రకమైన చిక్కని ద్రవం (మ్యూకస్) ఉంటుంది. కదలికల ఇంగా జీవన ప్రక్రియల్లో బాగంగా ఇందులో అప్పుడప్పుడు అతి చిన్న పరిమాణంలో గాల్ బుడగలు ఏర్పడతాయి. మనం పేళ్లను మిటకరించినప్పుడు ఈ గాలి బుడగలు పగిలి ఆ ద్రవంలో చెదిరిపోతాయి. అప్పుడే శల్లం ఏర్పడుతుంది.

# ఆడవాళ్లకు బట్టతల రాదేం? ,

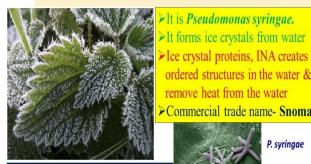
# Bald-head not seen in women-Why?



#### **Title of the Practice: Science Flash cards**

Science flash cards are display of images which shows the interesting information related to the recent science and developments as well as trending matters. The science flash cards are like did you know concept. It is inspired from the CCMB open day Exhibition displays

# **BIZZARE ICE-PLUS BACTERIA**



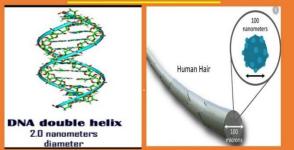
□ Ice nucleation-active proteins found on the outer bacterial cell wall acts as the nucleating centers for ice crystals.



#### **DEINOCOCCUS- STRANGE BACTERIA** Deinococcus Radiodurans Regulation ordered structures in the water & Deinococcushighly DNA protein specific condensed protection repair nucleoid proteins Radiation & oxidative stress resistance range Berry that Withst $\checkmark$ D. radiodurans is an extremophilic bacterium, one of the most radiationresistant organisms

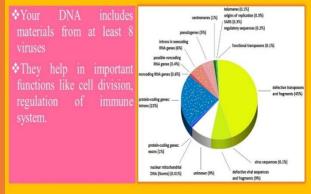
✓ Survives in cold, dehydration, vacuum, and acid. Hence known as polyextremophile.

# **CTS OF DNA**



- □ You could fit 25,000 strands of DNA side by side in the width

# **FACTS OF DNA**



## Title of the activity: science talks

Date: 24/01/2020

### time: 02:00-02:45

Topic: Wonder Animals And Animal Wonders

Presenter: Dr. N. Harikrishna, Assistant Professor of Microbiology, Govt. Degree College, Gajwel, Siddipet district



#### STUDENT PROGRESSION

The faculty members of the department is explaining the studeted about all the future courses and scope available to them to pursue higher studies and jobs. With this motto a extension lecture was also conducted for the students.



# GOVERNMENT DEGREE COLLEGE GAJWEL

# DEPARTMENT OF MICROBIOLOGY

### ACADEMIC YEAR 2019-20

# PG ENTRANCE RANK HOLDERS

S.No	Hall ticker No	Name of the University/		PG rank in	
		student	Entrance exam	entrance	
1.	72088260103	K .Srinivas	Osmania University	394	
2.	72087530261	M.Venkatesh	Osmania University	3120	
3.	72087530267	D. Kalyan	Osmania University	2528	
4.	72087530406	R. Mahesh	Osmania University	1296	
5.	72088260101	A.Nagender	Osmania University	2933	
6.	72088260124	Ch. Naresh Kumar	Osmania University	1411	
7.	72087530264	K. Prashanth	Osmania University	2755	

# GOVERNMENT DEGREE COLLEGE GAJWEL

# DEPARTMENT OF MICROBIOLOGY

#### ACADEMIC YEAR 2018-19

Sl.No	Hall Ticket Number	Name	Rank in BCGMES Common test/ Biotechnology test (Osmania University/)	Allotted College	Allotted Course
1	72087530041	TummaChandana	132	Kakatiya University Campus, Vidyaranyapuri, Warangal	Microbiology
2.	73087530041	TummaChandana	241	University college of Science and Informatics Mahatma Gandhi University	Biotechnology
3.	72087530046	NallandeegalVarsh ini	244	Palamur University, Mahabub Nagar	Microbiology
4.	72087530033	PalojiAkhila	434	Kakatiya University Campus, Warangal	Microbiology
5.	72087530046	KolichelimeAruna	447	Palamur University Campus	Microbiology
6.	72087530043	SyedaKarishmaTa bassum	790	Kakatiya Government Degree College, Warangal	Microbiology
7.	73087530018	SyedaKarishmaTa bassum	436	Kakatiya University Campus	Biotechnolgy
8.	72087530095	KistalaSwarnalatha	622	University college of Science and Informatics Mahatma Gandhi University	Biochemistry
9	72087530045	Sampangi Shaker	679	MNR Degree and PG college Kukatpalli	Microbiology
10	7208750093	MachiReddyRoja	859	Vaagdevi Degree College, Warangal	Microbiology
11	72087530042	PangaRavali	942	MNR Degree and PG college, Kukatpally	Microbiology
12	72087530064	KadullaBhanu Prasad	1150	Mumtaz College, Malakpet	Microbiology

# STRENGTH, WEAKNESS, OPPORTUNITIES AND CHALLENGES (SWOC) OF THE MICROBIOLOGY DEPARTMENT

#### Strengths:

- Good repository of soft copies of books
- Department has sophisticated two labs and three class rooms
- Relevant and up to date library
- Multimedia enabled labs (Sound and LCD projector)
- •Staff members hold Doctorates
- Dedicated, enthusiastic and committed staff members
- Freedom to voice one"s opinion both for staff and students
- •Very good environment in the college and department

#### Weaknesses:

- Lack of research work and sufficient publications
- No Post Graduate Programme
- No industrial tie up or consultancies

### **Opportunities:**

- Encourage students towards research
- Improved infrastructure with increased grants
- Freedom to evaluate students using a variety of evaluation methods

#### **Challenges:**

- To show the more job opportunities to the students
- To encourage students to pursue towards the entrepreneurship in Microbiology
- Increasing the department involvement in extension activities
- •Sustenance and continue of students to pursue further higher studies

### FUTURE VISION AND PLANS OF THE DEPARTMENT

- Continuation of the present teaching and research activities.
- Organization of the State level students Seminar
- Continue encouraging student participation in inter-collegiate activities
- Working with our students to continue enhancing the core values of our department of Harmony with the Environment, striving towards academic excellence and personal integrity.
- Proposed to conduct the PG entrance coaching for the II and III year students.
- Organization of National Seminar, workshops in collaboration with other institutes.
- Introducing short term courses on Medical laboratory techniques.
- Starting a Department Magazine featuring articles by students

# CURRICULUM VITAE OF Dr. N. HARIKRISHNA

Dr. N. Harikrishna				
Assistant Professor and Head,				
( Chairman, Board of Studies)				
Department of Microbiology,				
Governement Degree College, Gajwel				
Siddipet (Dt)-502103, India.				



04

03

Name	:	Dr. N. Harikrishna					
Designation	:	Assistant Professor					
Department	:	Microbiology					
Institute	:	Government Degree College, Gajwel					
Office Address	:	Department of Micro	C				
Government Degree College, Gajwel Siddipet (Dt), Telanga, India							
Date of Birth	03-07-1985						
Marital Status	:	Married					
Telephone No : +91 9966222110, 0			ice: 08	457-222110			
E-mail : harinagmalli@gma			.com				
Sex	:	Male					
Educational Qualifications : M.Sc., Ph D.							
Teaching Experience:							
For Undergraduate Students (B.Sc)				9 Years.			
Scholarly work:							
Research Papers published in ISSN/ISBN-Journals : 0							
National & International level seminars attended : 20							
Papers presented in National and International level seminars :14							
Faculty Development Programmes & R.C,s Attended:09							

Projects Guided/Supervised : Books published (Editorial member) :

#### **PAPERS PUBLISHED:**

- HarikrishnaNagamalli, MahalakshmiSitaraman, Kiran Kumar Kandalai, Gopal Reddy Mudhole. 2017. Chicken egg shell as a potential substrate for production of alkaline protease by Bacillus altitudinis GVC11 and its applications. 3 Biotech (2017) 7:185
- N. Harikrishna, S. Mahalakshmi, K. Kiran Kumar, Gopal Reddy. 2017. Fish scales as potential substrate for production of alkaline protease and amino acid rich aqua hydrolyzate by *Bacillusaltitudinis* GVC11: Indian J MicrobiolDOI 10.1007/s12088-017-0664-2 (ISSN 0046-8991)(July 2017) (Impact factor 1.9)
- N. Harikrishna, S. Mahalakshmi, Y. Ranjita and Gopal Reddy. Alkaline protease of *Bacillus altitudinis*GVC11 for gelatin hydrolysis and silver recovery from used X-ray films. 2016. European Journal of Pharmaceutical and Medical Research, 3(10), 213-217. .(ISSN 2394-3211)
- K. Kiran Kumar, S. Mahalakshmi, N. Harikrishna and Gopal Reddy. 2016. Production, characterization and antimicrobial activity of silver nanoparticles produced by *Lactobacillus amylophilus*GV6. 2016. European Journal of Pharmaceutical and Medical Research. 3(7), 236-242. (ISSN 2394-3211)
- Madhuri, A., B. Nagaraju, N.Harikrishna and Gopal Reddy. 2012. Production of alkaline protease by *Bacillus altitudinis* GVC11 using castor husk in solid state fermentation. Applied biochemistry and biotechnology. 167:1199-1207.(ISSN 0273-2289) (Impact factor 1.9)
- Vijay Kumar, E., M. Srijana, K. Kiran Kumar, N. Harikrishnaand Gopal Reddy. 2011. A novel serine alkaline protease from *Bacillus altitudinis* GVC11 and its application as a dehairing agent. Bioprocess Biosystems engineering. 34: 403-409. (ISSN: 1615-7591)
- Gopal Reddy, Kiran Kumar K, Chaitanya K and Harikrishna N. 2012. Lactic acid bacteria for health and wealth. Microbial diversity Exploration and bio processing Scientific Publishers. 155-167. (ISBN: 978-81-7233-782-7)
- Harish Kumar Reddy, Y., M. Srijana, N. Harikrishna N, D. Madhusudhan Reddy and Gopal Reddy. 2010. Ethanol tolerant anaerobic cellulolytic ethanologenic bacteria isolated from decomposed Paper. Current Trends in Biotechnology and Pharmacy 4: 947-956.(ISSN 0973-8916)

#### **CONFERENCE AND SEMINARS ATTENDED:**

- Participated in one day national level webinar on "Aftermath of COVID-19 on Indian Higher Education: Challenges and Strategies" organised by Department of Commerce, Government Degree College, Gajwel, 12 May 2020.
- Participated presented paper entitled "Inexpensive medium for produciton of alkaline protease production by *Bacillus altitudinis* GVC11"in internationalsymposium of "59 Annual conference of Association of Microbiologists of India (AMI 2018) & International symposiu on Host- Pathogen interactions" organized by School of life sciences, University of Hyderabad, Hyderabad, Telangana-500046, India. (9-12 Dec 2018).
- Participated in One day state level seminar on "Emerging information communication technology in teaching learning and research in higher educational institutuions" organised by Department of library and information science, Government Degre College, Siddiper on 31 March 2018 (31 March2018).
- Participated presented paper entitled "A study on avian diversity in Siddipet, Siddipet (Dist), Telangana." in Two day National conference on "Biodiversity and human health" organized by Department of Botany life sciences, University of Hyderabad, Hyderabad, Telangana-500046, India. (17-18 Nov2017).
- Participated in National seminar on "Choice based credited system : Opportunities challnges and concerns" organized by Department of Commerce, Government Degree College, Siddipet, Telangana. (Dec 2016).
- Presented and presented oral presentation in national seminar entitled " Recent trends in Microbial Genetics" conducted by GDC(W), Hussaini Alum, Hyderabad, Telangana (22-23, July 2015).
- Participated in national seminar entitled "Advances In Microbial Technology" organized by Department of Microbiology, University college of Science, Osmania University, Hyderabad. (29-30, May 2015)
- Participated and presented paper entitled "Brewery spent grain as potential substrate for alkaline protease production" in National conference on "Recent trends in Microbial Biotechnology" organized by department of Microbiology, Osmania University, Hyderabad (26-28, February 2015)

- Presented poster entitled "Chicken Egg Shell as a Potential Substrate for production of Alkaline protease by *Bacillus altitudinis* GVCC11" in National Conference on "Empowering Mankind with Microbial Technologies"- 55 Annual Conference of Association of Microbiologists of India, organized by Tamil Nadu Agricultural University, Coimbatore, held on 12-14 November 2014.
- Presented oral presentation on "Gelatin decomposition and silver recovery from used X-ray films by alkaline protease of *Bacillus altitudinis* GVC11" at national seminar "Emerging Trends in Microbial Biotechnology" conducted at SRR Degree college, Karimnagar, Telangana.(8-9 January, 2014)
- Participated in national seminar entitled "Competency Mapping Among College Teachers: Problems and Prospects" organized by Department of Commerce, Government Degree College, Siddipet, Medak, Telangana. (29-30 January 2014)
- Presented a paper on "Production of protease and its Applications protease" in National seminar "Recent Developments in Biological sciences -2014" conducted by Department of Zoology, Government Degree College, Siddipet, Medak.(22-23 August, 2014)
- Presented poster entitled "Cost effective production of alkaline protease and amino acid rich aqua hydrolysates by *Bacillus altitudinis* GVC11" in "International conference on Advances in Biotechnology and Bioinformatics (ICABB)" conducted by Dr. D.Y. Patil Biotechnology and Bioinformatics Institute at Pune, Maharasthra (25-27, November 2013)
- Presented poster on "Production of alkaline protease using agro wastesby *Bacillus* altitudinis GVC 11"in National seminar on "Recent Trends in Plant Sciences" conducted at GirrajGovt Degree college, Nizamabad. (20 February 2013)
- Presented poster on "Rhizosphere bacteria for production of L- Asparginase" in "Global Meet Of Biologists" conducted by IICT, Hyderabad (Dec 2012).
- Presented poster on "Cost effective production of alkaline protease by *Bacillus altitudinis* GVC 11 using low cost fish waste as substrate" in "International conference on New horizons in Biotechnology" held at National institute for Interdisciplinary Science and Technology, CSIR at Thrivandrum (21-24, November 2011)
- Presented poster on "Biodegradation of Agricultural and ..... cellulolytic bacteria" in "Climate Change –Perspective and projections- A System Approach" conducted by Osmania University, Hyderabad. (9-11, December 2010).

 Participated in National conference on "Micro Biotech-2005" 46- Annual conference of Association of Microbiologists of India organized by department of Microbiology, University college of Science, Osmania University, Hyderabad. (8-10 December 2005).

#### **WORKSHOPS ATTENDED:**

- Participated in two day Science academies virtual lecture workshop on "Covid 19: Basics to clinical" on 9-10 December 2020, organized by Department of Botany, Telangana University, Dichpally, Nizamabad District, Telangana State
- Participated in 5 day online workshop on "E Content" organized by Universal Teachers Academy, Puducherry, India from 1-5, July 2020.
- Participated in One day State level Workshop on "Quality enhancement measures in higher educational institutions "conducted by IQAC, Government Degree College, Siddipet. (31 July 2017).
- Participated in a state level workshop on "schemes and Fellowships for teachers and students in higher education institution in India " organized by Department of chemistry, Government Degree College, Siddipet (27 Feb 2017)
- Participated in one day District level workshop on "Implementation of Choice Based Credit System in Higher Education Institutions: Prospects and Challenges" conducted by Department of Commerce, Government Degree College, Siddipet. (05 July 2016)
- Participated in One day State level Workshop on "Attaining and sustaining "conducted by IQAC and English Department, Government Degree College, Siddipet. (07 September 2016).
- Participated in hands on experience workshop entitled "Animal cell culture" conducted by DBT-OU ISLARE, CFRD, Osmania University Hyderabad (11-13 March 2015)
- Participated in workshop entitled "Flow cytometry" conducted by CFRD, Osmania University, Hyderabad. (21-23 March 2013)

- Participated in workshop entitled "Exploration of Agro- Industrial biomass for integrated bio fuels and novel products through sustainable production systems" conducted by IICT, Hyderabad (Jan 2011)
- Participated in workshop entitled "Gene Cloning and Expression in Bacteria" conducted by MKU, Madhurai, Tamilnadu. (16 september to 1 October 2010)
- Participated in workshop entitled "**Chromatography Equipments**" conducted by CFRD, Osmania University, Hyderabad. (2-3 November 2010)

### PRESENTATIONS & AWARDS RECEIVED:

- Received consolation award for oral presentation presented in National Seminar on "Emerging trends in Microbial Biotechnology" held at SRR college, (2014) Karimnagar.
- Received the Best Teacher Award from CCE for the academic year 2011- 2012 at district level.

### **REFRESHER/ORIENTATION AND FDP COURSES:**

- Participated in the UGC-HRDC-RUSA Sponsored FIP Online Short Term Course on Soft Skills: Teaching for Excellence organized from 06.07.2020 to 11.07.2020 by Osmania University, Hyderabad, Telangana state.
- Participated in FDP entitled "Effective Ways to Develop E-content For Teaching-Learning" organized byMaratha VidyaPrasarakSamaj's, K.R.T. Arts, B.H. Commerce and A.M. Science (K.T.H.M.) College, Nashik in association with Human Resource Development Centre (UGC-HRDC), SavitribaiPhule Pune University, Pune from 21st May 2020 to 30th May 2020.
- Participated in One Week Faculty Development Programme on "Open Source Tools for Research" organized by Teaching and learning centre, Ramanujan College, New Delhi in association with HRDC, New Delhi, from June 08 - June 14, 2020.
- Participated in 12 weeks certificate course entitled "Intellectual property rights, offered by Indian institute of Management, Bangalore (IIMB), 2019 via Swayam
- Participated in one week FDP on "Statistics for engineers and teachers" organized by E& ICT, in collaboration with Department of Biotechnolgy, NIT Warangal, Telangana (25-30 May 2019)

- Participated in FDP on "Certificate Course on Bionanotecnology" organized by Association of Indian biologists, Chennai, Tamilnadu, from 15.05.2020 to 11.06.2020
- Participated in 84 orientation course conducted by University of Hyderabad (HCU), Hyderabad (13 September to 10 October, 2013).
- Participated in Refresher course "**Recent Trends in Biotechnology and Bioinformatics**" conducted by JNTUH, Hyderabad (5-26 Nov 2012).
- Participated in 6 days Induction Training Programmme conducted by Commissionerate of Collegiate Education (CCE), Hyderabad at Tara Degree College, Sangareddy (26-31 December 2011)

### **BOOKS PUBLISHED:**

- Choice based credited system : Opportunities challnges and concerns. National seminar
- National seminar on "Competency Mapping Among College Teachers: Problems and Prospects" organized by Department of Commerce, Government Degree College, Siddipet, Medak, Telangana. (29-30 January 2014)

#### **OTHER ACHIEVEMENTS :**

- Appointed as member of Governing body of Surabhi Pharmacy college, Gajwel (2019)
- Appointed as Coordinator of Microbiologists Society, India for Osmania University of Telangana State (2020)
- Worked as a master trainer for enumerators in the General elections April'2014.
- Trained the School teachers on preparation and methodology for science projects on occasion of the National Children Science Congress -2017 at Husnabad, Siddipet (Dist)
- Trained the School teachers on preparation and methodology for science projects on occasion of the National Children Science Congress -2018 at Gajwel, Siddipet (District).

### **EXTENSION LECTURES/ACTIVITIES**

 Delivered a lecture as a invited speaker in state level webinar on "Emerging applications of Artificial of Artificial Intelligence (AI) in Sciences" on 19 March,2021,organized by Department of Microbiology, Government Degree College, Khairatabad, Hyderabad District, Telangana state on

- Organized and delivered Lectures in Three day national level workshop on "Emerging applications of ICT tools in Higher Education, organized by Department of Microbiology, Government Degree College, Gajwel, Siddipet District, from 11-13 June 2020.
- Delivered a lecture as a resource person in national webinar entitled "ICT tools in Higher education" on 03-04 July 2020, organized by TSRWDC, Suryapet, Suryapet District, Telangana.
- Acted as Judge for District level students "Study projects presentation and seelections" conducted at SRR Government Arts & Science College, Karimnagar, on 15 December, 2017 atSRR Government Arts & Science College, Karimnagar.
- Presented an extension lecture on **"Tools and techniques"** for M.Sc fisheries, Department of fisheries, organised by Department of P.G fisheries (March 2018).
- Presented an extension lecture on "Writing of dissertation project proposal and project report " for M.ScZoology, Department of Zoology, organized by Department of P.G Zoology (27 December2017).
- Participated in training program on "Health initiatives and adolescence- BHAGYA" for teaching staff under Rishtriya Kishore SwastyaKaryakram (RKSK) form 24-26 at Indian institute of Health and Family welfare in collaboration with CCE Government of Telangana, India.
- Participated in two day training program on "NIPUNA- Nurturing young leaders in higher education - 2016" for teaching staff held form 12-13 May, 2016 at RUSA Resource center, Hyderabad in collaboration with CCE Government of Telangana, India.