

## DEPARTMENT PROFILE



**DEPARTMENT OF MICROBIOLOGY**  
**GOVERNMENT DEGREE COLLEGE, KHAIRATABAD,**  
**HYDERABAD DISTRICT, TELANGANA STATE**

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# GOVERNMENT DEGREE COLLEGE, KHAIRATABAD

## ABOUT THE COLLEGE



The Government Degree College, Khairatabad was established at Khairatabad, Hyderabad and situated at heart of the city, Telangana State. The college was established in the academic year 1973-74 by the then State Government of Andhra Pradesh in order to provide educational opportunities to the students. Having started with less number of students in the first batch during the Academic Year 1973-74, the institution is able to attract more than 3500 students during the academic year 2021-22. The Government Degree College, Khairatabad strictly follows and abide to regulations of Government of Telangana. Presently it is offering B.A., B. Com, and B.Sc., with different programmes at under graduate level. It has 2 NSS units and 1 NCC coy which are infusing national fervor and social awareness among their cadets. Being a prominent higher educational institution in the district with more than four glorious decades of existence, College has been re-accredited with 'B' grade by NAAC in the year 2015 in second cycle of accreditation.

The Government Degree College, Khairatabad has carved out a coveted niche for itself by providing and higher education to economically, socially and educationally disadvantaged students. Further, they always put tremendous and relentless efforts to provide and impart application oriented teaching among the students. They attempt to put non-stop and constant, untiring recreation efforts, initiatives to enhance the great of education. The Government Degree College Khairatabad has continual interest to acquire its goals. It in the main objectives on developing frolic educational surroundings for college students imbibe and recognize their inherent and obtained potentials. The principal motto of this tutorial group is to generate modern and innovative younger minds with morale and human touch. The agency is dedicated to cater the college students with the properly physical, educational and administrative facilities. These services no longer solely grant the eco-friendly schooling and additionally a riding pressure to radically change the college students into properly being human sources with skills, humane, and societal commitment.



## GOVERNMENT DEGREE COLLEGE, KHAIRATABAD



### ABOUT THE DEPARTMENT OF MICROBIOLOGY

#### Establishment:

The Department of Microbiology was established on June 2018 in the academic year 2018-19. The Microbiology course was introduced as restructured B.Sc course in biology stream offered with combination of Zoology, Botany and Chemistry from academic year 2018-19 in English medium.

The Department of Microbiology serving students from its inception in the year 2018. 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 its stakeholders since establishment. The Microbiology department is playing its role in the development and progression of college and students.

**Composition of Faculty:** Smt. P. Archanamary, the then Lecturer was the founder faculty member of Microbiology Department. She has worked from the academic year 2018-19 to 2021-22. At present, Dr. N. Harikrishna, Assistant Professor of Microbiology discharging his duties as head of the department, from academic year 2021-22 to till date.

#### About the faculty:

Smt P. Archana Mary, Lecturer in Microbiology, appointed through the CCE, Hyderabad. She has more than 4 years of teaching experience at bachelor degree level in Microbiology.

Dr. N. Harikrishna, Assistant Professor of Microbiology appointed through then public service commission, APPSC recruitment in 2011. He has more than 10 years of teaching experience in Microbiology at UG level. He also worked as a Lecturer in Microbiology at Nizam College, Hyderabad from 2008 to 2010. He served as a Lecturer in Microbiology December 2011 to June 2018 and 2018 to 2021 at Government Degree College, Siddipet (A), Siddipet (Dt) Government Degree College, Gajwel Siddipet (Dt) respectively. At presently, He is discharging duties at this college from January 2022 to till date.

#### Chronology of the Department

S.No	Name of the faculty	Designation	Period
1.	Smt. Archana Mary	Lecturer	2018 -19 to January 2022
2.	Dr. N. Harikrishna, (M.Sc., Ph.D)	Regular Lecturer	January 2022 to till date



# **DEPARTMENT OF MICROBIOLOGY**

## **GOVERNMENT DEGREE COLLEGE KHAIRATABAD**



### **DEPARTMENT VISION:**

- To impart and providing the quality education and training to ultimate stake holders
- To motivate and inculcate and scholastic activity and progression.
- 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.
- To build intellectual and imaginative minds

### **DEPARTMENT'S MISSION**

- To provide and impart the students with integral values with academic excellence, that meet the ever dynamic changes of microbiology discipline.
- Our Mission aim is to create profound impact on students and provide pathfinder to reach the designed vision. Persistent efforts to learn academic, recent trends and innovations are driving force for us.
- Extension of interdisciplinary service, providing amicable support for institutional needs and frolic approach in administrative matters are other motives of the department.

### **DEPARTMENT'S OBJECTIVES:**

In order to achieve stated vision and mission targets, department of Microbiology has framed its objectives as follows

- To build and strengthen the association between the reputed Institutes, Departments, organizations, Industries and personnel of diversified fields and specializations.
- To inculcate scholastic culture and motivates students to progressive outlook for societal cause.
- To promote overall holistic progression among Students and Staff with humanity and care.
- To cultivate and promote self-employment and entrepreneurial habit and interest among the students of the department.
- To make teaching, learning process as dynamic, innovative and conducive manner to imbibe the curriculum in the young minds of students in a simpler way.



# **GOVERNMENT DEGREE COLLEGE, KHAIRATABAD**

## **B.SC. –MICROBIOLOGY PROGRAMME OUTCOMES**

Microbiology is branch of science, playing vital role in the society and has prominence in every aspect of human life activities. It has numerous applications in multifaceted fields and plays essential role in the sustainable and frolic environment. The Microorganisms are continuously interacting with living and nonliving objects and shows its impact every corner of the life. The diversified branches of Microbiology, like Agricultural Microbiology, Food microbiology, Industrial microbiology and Immunology also included in the syllabus. These branches enables the stake holders to understand the in depth foundation concepts of microbiology and its role in the continuous development of allied technologies like Genetics, Biotechnology, Bioinformatics and so on. With this significance and applications of Microorganisms in the world, Microbiology course was introduced in the curriculum at undergraduate level as an independent subject.

### **PROGRAMME OUTCOMES**

- To promote and inculcate the basic concepts and skills of Microbiology beyond the classroom teaching.
- Stake holders are familiarized with unique role of microorganisms and their importance in recombinant DNA technologies and other field.
- Students get knowledge about the role of microbe's interaction with the humans and its impact.
- Students will understand the laboratory safety rules to follow in laboratory with hands on experience, which may help in their career development in further studies.
- By learning and practicing the Microbiology and its techniques, the students have plenty of opportunities to get jobs in government and private institutions like research, industries, pollution control board, etc.

**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**

Code	Course Title	CourseType	HPW	Credits
<b>FIRSTYEAR-SEMESTER-1</b>				
BS	AEC-1			2
BS	English			4
BS	SecondLanguage			4
BS	<b>General Microbiology</b>	DSC-1A	4+2	5
BS	Optional-II			5
BS	Optional-III			5
<b>SEMESTER-2</b>				
BS	AEC-2			2
BS	English			4
BS	Second Language			4
BS	<b>Microbial Diversity</b>	DSC-1B	4+2	5
BS	Optional-II			5
BS	Optional-III			5
<b>SECOND YEAR-SEMESTER-3</b>				
BS	Haematology	SEC-1	2	2
BS	UGC Given	SEC-2		2
BS	English			3
BS	Second Language			3
BS	<b>Food &amp; Environmental Microbiology</b>	DSC-1C	4+2	5
BS	Optional-II			5
BS	Optional-III			5
<b>SEMESTER-4</b>				
BS	Mushroom Cultivation	SEC-3	2	2
	UGC Given	SEC-4		2
	English			3
BS	Second Language			3
BS	<b>Medical Microbiology &amp; Immunology</b>	DSC-10	4+2	5
BS	Optional-II			5
BS	Optional-III			5
<b>THIRDYEAR-SEMESTER-5</b>				
	English			3
	Second language			3
BS	<b>Microbiology and Human Health</b>	GE	4	4
	<b>1A. Molecular Biology &amp; Microbial Genetics or 1B. Microbial Omics</b>	DSE-1	3+2	5
BS	Optional-II			5
BS	Optional-III			5

<b>SEMESTER-6</b>				
BS	English			3
BS	Second language			3
BS	<b>2.A Industrial Microbiology</b> <b>2.B Pharmaceutical Microbiology</b>	DSE-2	4+2	5
BS	<b>PROJECTWORK/ Applied Microbiology</b>		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 examination marks			
			Internal –I	Internal-II	Assignment	Total
			<b>30</b>			
<b>I</b>	<b>100</b>	<b>80</b>	<b>15</b>	<b>15</b>	<b>05</b>	<b>100</b>
<b>II</b>	<b>100</b>	<b>80</b>	<b>15</b>	<b>15</b>	<b>05</b>	<b>100</b>
<b>III</b>	<b>100</b>	<b>80</b>	<b>15</b>	<b>15</b>	<b>05</b>	<b>100</b>
<b>IV</b>	<b>100</b>	<b>80</b>	<b>15</b>	<b>15</b>	<b>05</b>	<b>100</b>
<b>V</b>	<b>100</b>	<b>80</b>	<b>15</b>	<b>15</b>	<b>05</b>	<b>100</b>
<b>VI</b>	<b>100</b>	<b>80</b>	<b>15</b>	<b>15</b>	<b>05</b>	<b>100</b>

\*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 (Semester -end practical examination)	50
6	VI (Semester end practical examination)	50



**TIME TABLE FOR THE ACADEMIC YEAR 2021-2022**

<b>Day</b>	<b>1.00 PM - 1.50 PM</b>	<b>1.50 PM- 2.40 PM</b>	<b>2.40 PM - 3.30 PM</b>	<b>3.30 PM - 4.20 PM</b>	<b>4.20 PM - 5.10 PM</b>	<b>5.10 PM - 6.00 PM</b>
<b>Monday</b>	<b>II yr</b>			<b>I yr</b>		<b>III yr</b>
<b>Tuesday</b>		<b>I yr</b>				<b>III yr</b>
<b>Wednesday</b>		<b>II yr</b>	<b>I yr pr</b>			<b>II pr III yr</b>
<b>Thursday</b>	<b>II yr</b>	<b>III yr</b>			<b>I yr</b>	<b>III yr</b>
<b>Friday</b>		<b>III yr</b>		<b>I yr</b>		<b>II yr</b>
<b>Saturday</b>	<b>III yr Pr</b>				<b>III yr</b>	<b>II yr</b>









**Workload for the academic year 2021-2022**

<b>Year</b>	<b>Theory</b>	<b>Practical</b>	<b>Total Workload</b>
I	04	02	08
II	04	02	08
III	06	04	10
II	SEC	02	02
	<b>Total Workload</b>		<b>28</b>

**Academic records:** The department maintains and continuously updates its activity records. Faculty encourages the students to involve in co- curricular and extra-curricular and social responsibility events. The department prepare its curricular plan and action plan according to the affiliated university, i.e Osmania university.

Faculty members of department involved in paper setting of reputed universities and affiliated colleges. They also acting members of BOS at various institutes and governing member of other colleges. They also actively engaging in additional responsibilities of college.

## PROGRAMMES OFFERED:

	B.Sc- Microbiology, Zoology, Chemistry (MZC)
	B.Sc- Microbiology, Botany, Chemistry (MBC)
	B.Sc- Microbiology, Botany, Zoology, (MBZ)
	B.Sc- Microbiology, Zoology, Computer Science (MZCs)
	B.Sc- Microbiology, Zoology, Psychology (MZPSY)
	B.Sc- Microbiology, Zoology, Applied Nutrition (MZAN)
	B.Sc- Microbiology, Psychology, Applied Nutrition(MPSYAN)
	B.Sc- Microbiology, Chemistry Applied Nutrition (MCAN)

## STUDENT ENROLMENT

Academic Year	Total Allotted Strength	No of Enrolment
2018-19	30	38
2019-20	30	19
2020-21	72	64
2021-22	72	94

## ECONOMIC BACKGROUND OF STUDENTS

More than 80% 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 economically backward region across the Telangana.

## **TEACHING LEARNING EVALUATION**

### **CURRICULAR ASPECTS**

The department of Microbiology syllabi is framed by the affiliated University, Osmania University, Hyderabad. As per the instruction from **Higher education council Telangana**, Choice Based Credit System (CBCS) was imbibed in the curriculum. The syllabus is dynamic and regularly revised, updated by the affiliated university. Latest revision of syllabi has been conducted in the academic year 2020-21. 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 annual and semester curricular plan according to the syllabi provided by affiliated university and time table. Teaching plan was made month wise based availability of total number of teaching classes available. Faculty regularly maintain teaching diaries, synopsis and teaching notes for the beginning of the semester.
- The Department also conducts the remedial classes to the slow learners to improve their academic standards.
- According to the affiliated university almanac the department conducts, Internal examinations twice in a semester.
- The department also encourages to prepare the charts or models by the students. Faculty members of Microbiology Department uses 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 and students are encouraged to participate in seminars presentation of live lessons through MANA TV/ TSAT channel.
- To provide recent trends in the technology and subject, faculty are striving to update their knowledge by attending conferences, seminar and FDPs. This may also influences the teaching activity in the class room.
- The Department also shares scientific information and other related matters to the students via Whatsapp group respectively.
- Faculty members of department encourages student's to do study projects which may give more insights in to the research and hands on practical experience.

## **TEACHING METHODOLOGY**

- Class room teaching learning
- Class room- student seminar
- Student Assignments (Semester wise)
- Showing animated videos for better understanding of concept
- Internal assessment (two internals per semester)
- Invited lectures by eminent speakers
- Educational tours to reputed institutions and organisations

## **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 maintains the student's what's app groups, through which college notices, circulars and latest innovations in research are shared among the students. The department also provides e-books for reference of syllabus topic.

# YouTube channel

The screenshot shows the YouTube channel page for Harikrishna Nagamalli. The channel has 25 subscribers and is categorized under 'Science & Technology'. The channel owner is Dr. N. Harikrishna, an Assistant professor at Government Degree College, Gajjala. The channel features three created playlists: 'Virus', 'COMPLEMENT PATHWAYS', and 'ENZYMES'. The channel also has a 'HOME' tab and a 'VIDEOS' tab. The channel is currently on the 'HOME' tab.

S.No	Topic of youtube class	Upload date	Duration (Min)	Link	No of views
1	Lac operon	19/07/2020	48	<a href="https://youtu.be/fnW6CCKyurA">https://youtu.be/fnW6CCKyurA</a>	02
2	Genetic code	20/07/2020	36	<a href="https://youtu.be/l1HvKZyhXhc">https://youtu.be/l1HvKZyhXhc</a>	10
3	Transcription 1	20/07/2020	37	<a href="https://youtu.be/HZLG0AQI_Hc">https://youtu.be/HZLG0AQI_Hc</a>	02
4	Transcription 2	23/07/2020	41	<a href="https://youtu.be/d_gQ5QC4qJA">https://youtu.be/d_gQ5QC4qJA</a>	00
5	Glycolysis	23/07/2020	36	<a href="https://youtu.be/QNLdg_K6sTU">https://youtu.be/QNLdg_K6sTU</a>	43
6	TCA cycle	23/07/2020	38	<a href="https://youtu.be/uBntqi99Wdl">https://youtu.be/uBntqi99Wdl</a>	20
7	Microbial growth	24/07/2020	39	<a href="https://youtu.be/JLWQmfzEccs">https://youtu.be/JLWQmfzEccs</a>	01

## LIST OF EQUIPMENT AVAILABLE AT THE DEPARTMENT

<b>S.No.</b>	<b>Name of the article</b>	<b>Quantity</b>	<b>Remarks</b>
1.	Hot air oven	01	Working
2.	Incubator	01	Working
3.	Colony counter	01	Working
4.	Digital weighing balance	02	Working
5.	Colorimeter	04	Working
6.	Centrifuge	02	Working
7.	Chromatography Chamber	01	Working
8.	Haemocytometer	02	Working
9.	Wall Distillation water unit	01	Working
10.	Medical Microscopes	05	Working
11.	Binocular Microscope	03	Working
12.	Micropipettes	02	Working
13.	Autoclave	02	Working
14.	Analytical balance	01	Working
15.	Vortex mixer	01	Working
16.	Inoculation loops	05	Working
17.	Water bath	02	Working
18.	Hot plate	01	Working
19.	Microwave oven	01	Working
20.	Hemoglobinometers	05	Working
21.	Glass ware	Adequate	Working
22.	Chemicals		

## Teaching faculty Brief profile

**Dr. N. Harikrishna, M.Sc., Ph.D**  
**Assistant Professor**

<b>No. of Publications</b>	<b>10</b>
<b>No. of Orientation Programmes attended</b>	<b>01</b>
<b>No. of Refresher Programmes attended</b>	<b>01</b>
<b>No. of Faculty Development Programme (FDP) attended</b>	<b>05</b>
<b>No. of Swayam courses completed</b>	<b>01</b>
<b>Other Programmes attended</b>	<b>03</b>
<b>No seminars/ webinars attended</b>	<b>19</b>
<b>No of workshops attended</b>	<b>14</b>
<b>No. of TSAT/ MANA TV Lectures presented</b>	<b>06</b>



GOVERNMENT DEGREE COLLEGE, KHAIRATABAD

SUBJECT: MICROBIOLOGY

ACADEMIC YEAR 2018-2019

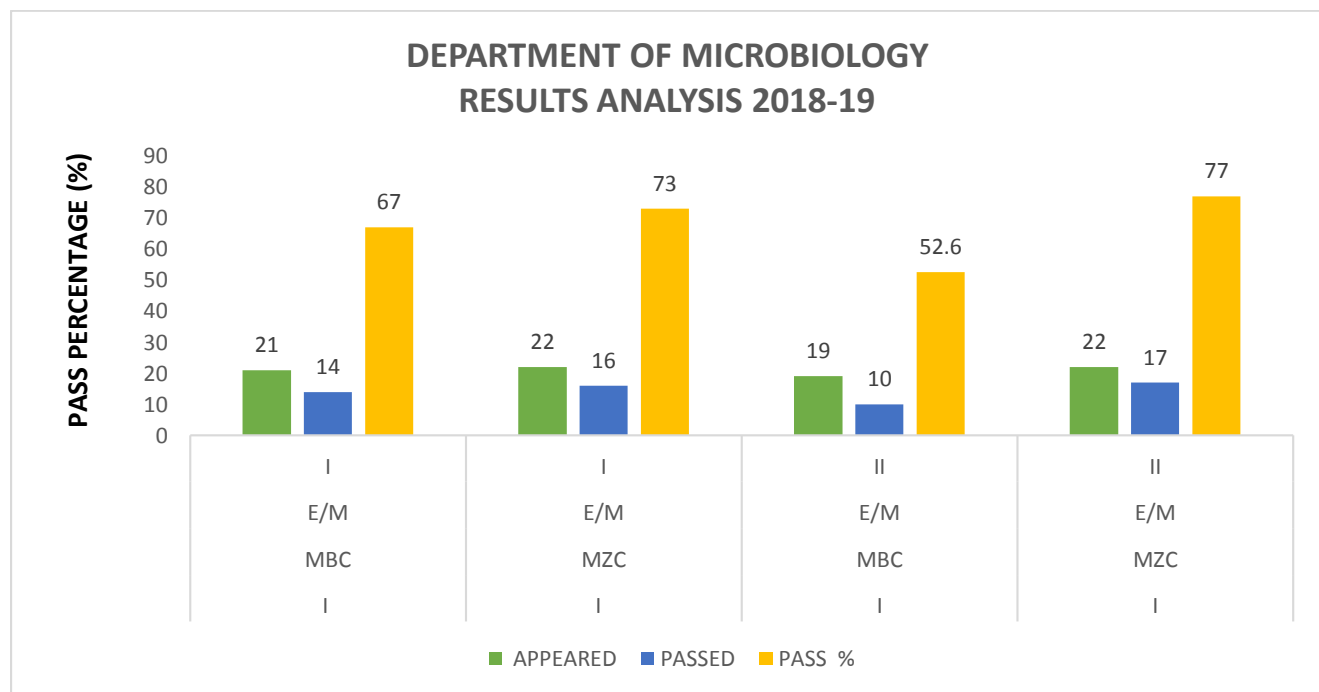
RESULT ANALYSIS OF I, II V SEMESTER

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

**SEMESTER I & II**

**Subject: Microbiology**

S.No.	CLASS/ YEAR	COURSE/ PROGRAMME	MEDIUM	PAPER	APPEARED	PASSED	PASS %
1	I	MBC	E/M	I	21	14	67
2	I	MZC	E/M	I	22	16	73
3	I	MBC	E/M	II	19	10	52.6
4	I	MZC	E/M	II	22	17	77





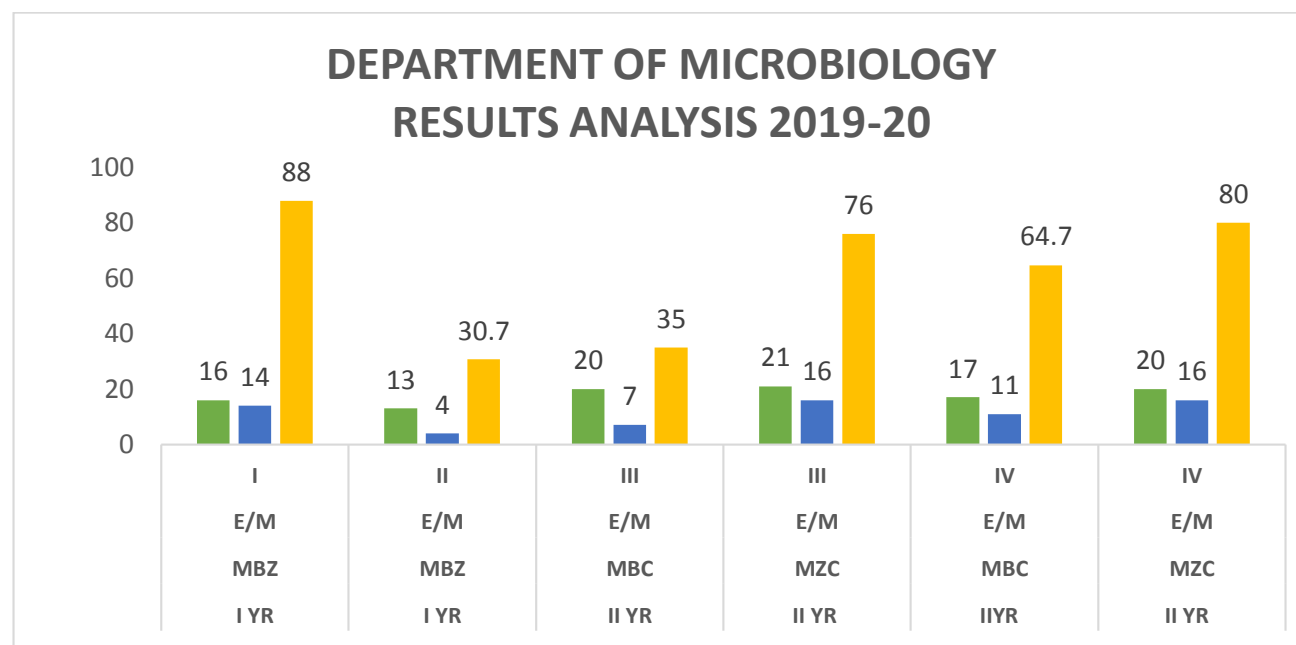
**GOVERNMENT DEGREE COLLEGE, KHAIRATABAD**

**DEPARTMENT OF MICROBIOLOGY**

**RESULT ANALYSIS FOR ACADEMIC YEAR – 2019-20**

**Semester- I, II, III & IV**

S.No .	CLASS/ YEAR	COURSE/ PROGRAMME	MEDIUM	PAPER	APPEARED	PASSED	PASS PERCENTAGE (%)
1	I YR	MBZ	E/M	I	16	14	88
2	I YR	MBZ	E/M	II	13	4	30.7
3	II YR	MBC	E/M	III	20	07	35
4	II YR	MZC	E/M	III	21	16	76
5	I IYR	MBC	E/M	IV	17	11	64.7
6	II YR	MZC	E/M	IV	20	16	80



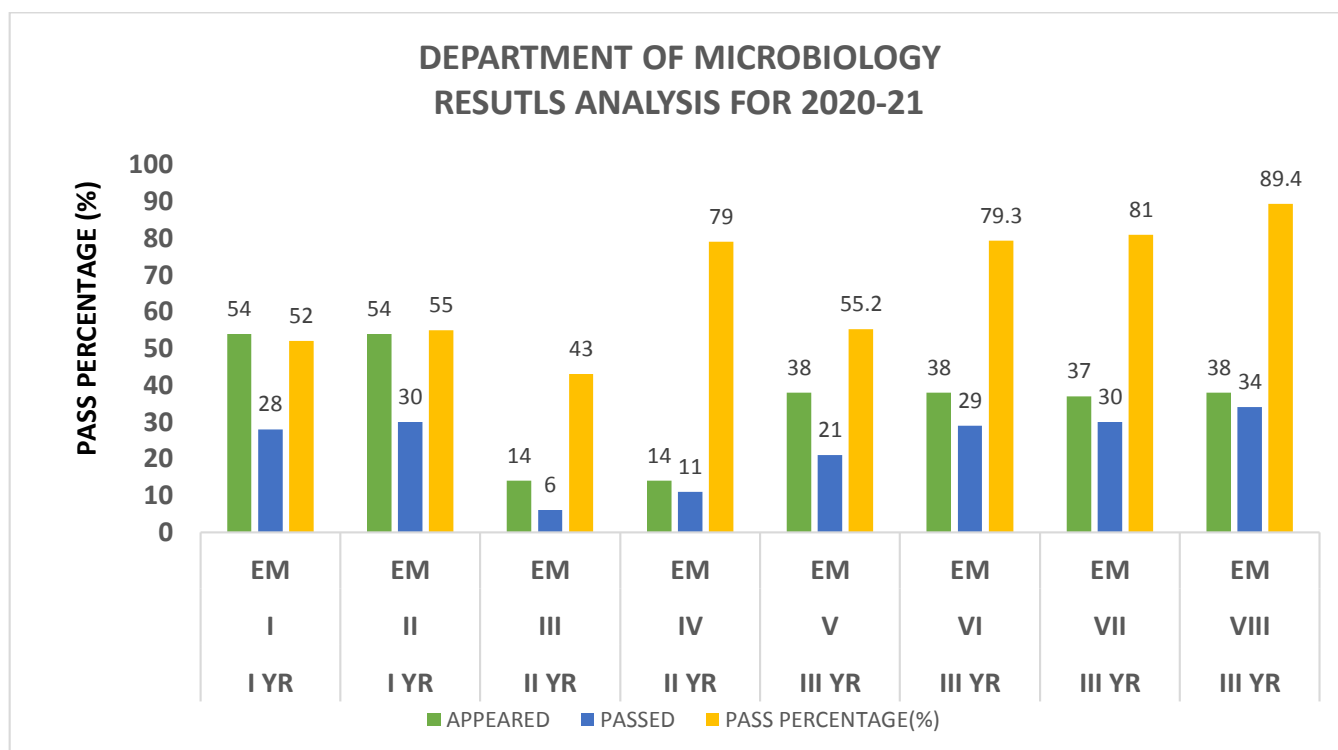
**GOVERNMENT DEGREE COLLEGE, KHAIRATABAD**

**RESULT ANALYSIS FOR ACADEMIC YEAR 2020-21**

**DEPARTMENT OF MICROBIOLOGY**

**RESULT ANALYSIS**

S.No	CLASS/ YEAR	PAPER	MEDIUM	APPEARED	PASSED	PASS PERCENTAGE(%)
1	I YR	I	EM	54	28	52
2	I YR	II	EM	54	30	55
3	II YR	III	EM	14	06	43
4	II YR	IV	EM	14	11	79
5	III YR	V	EM	38	21	55.2
6	III YR	VI	EM	38	29	79.3
7	III YR	VII	EM	37	30	81
8	III YR	VIII	EM	38	34	89.4



## CO-CURRICULAR ACTIVITIES OF THE DEPARTMENT CLASS ROOM SEMINARS

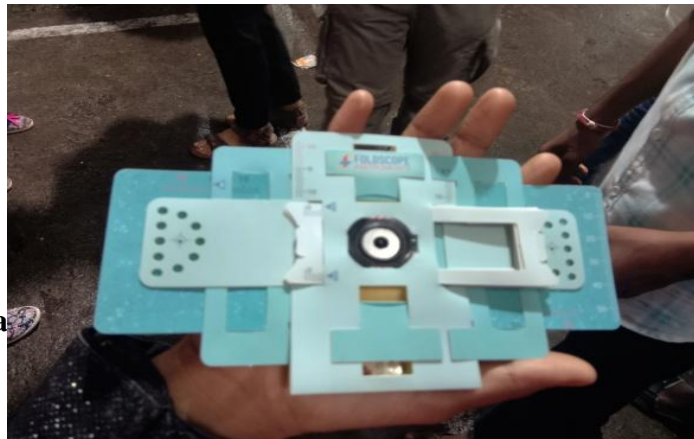
The department regularly conduct the class room seminars. The students also involves in the seminar actively.





## 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, 2018, 2019. Students also visited the CFRD research centre OU, Hyderabad.







Zebra fish model



Models and live presentation demonstration by research scholars

## RESEARCH, INNOVATION AND EXTENSION

The department actively engaged in research activities by organizing and attending webinars, seminars, workshop and extension lectures etc. The students also doing student study projects under JIGNASA programme initiated by Commissionerate collegiate education, Telangana, Hyderabad.

### SEMINARS AND WORKSHOPS ORGANIZED BY DEPARTMENT

#### Webinar on waste management- "WASTE MANAGEMENT" on 5.03.2021

The screenshot shows a Zoom webinar slide with the following content:

Which recycler will accept soiled paper or plastic for recycling?

**PROBLEMS WITH DUMPING OF MIXED WASTES**

- Health hazard to waste pickers and sorters: Bad odour and the risk of infection
- Socially Demeaning and objectionable to sort through personal sanitary wastes and food waste, which are mixed with all the other waste.
- Inefficient Recycling: Many recyclable items cannot be recycled since they are heavily soiled
- Environmental Damage: Soiled recyclables have to be buried or incinerated leading to environmental damage.
- Sorting is a tedious and labor intensive process

**A RESPONSIBLE WASTE MANAGEMENT STRATEGY**

Waste can potentially be a boon or a bane depending upon the management strategy.

The slide also features four images of waste bins and a list of participants on the right side of the Zoom interface.

The screenshot shows a Zoom meeting grid with the following participants:

- Hemalatha Mittoori
- Archna Mary
- B Sofia Rani
- Amulya
- K Bhanu prasad...
- Rajoju shravani...
- V.Dayakar Raju (...)
- T.Abhinav 11401...
- C NIKHL BSC LE...
- Vasavi(bzc) 5044
- Krishnaveni (M...
- K venkata Haris...
- N.mayur(AnMibZ)
- Khushbu ANBZ...
- N. Mohan BZC
- Farhanabeguma...
- Nafisa Hasan M...
- Dhane Niranjan...
- Muskan Moheen ...
- SanaTabassum /...



# Webinar on Emerging applications of Artificial intelligence in Sciences on 19.03.2021

The screenshot shows a Google Meet window with a presentation slide. The slide title is "Invited talk for Khairatabad college, 19.03.2021 (2) - Microsoft PowerPoint". The slide content includes:

- Government Degree College Khairatabad, Telangana  
Department Of Microbiology Organizing Webinar  
on 19th March 2021 @11:00 AM
- Topic: Emerging Applications Of Artificial Intelligence (AI) In Sciences
- Guest Speaker : Dr. N.Harikrishna, M.Sc. Ph.D  
Assistant Prof of Microbiology,  
Government Degree College,  
Gajwel, Siddipet District
- Join Google Meet with ID:  
<https://meet.google.com/bge-pjzb-pso>
- P.Archana Mary, Lecturer in Microbiology
- B.Sofia Rani, Incharge, Department of Microbiology
- Dr.D.S.R. Ramesh Singh, Principal, JD-FMC, CHDSP, PATTOIN

The meeting interface shows 42 participants. The presenter, Harikrishna Nagamalli, is visible in the top right. The Windows taskbar at the bottom shows the time as 11:05 on 19-03-2021.

The screenshot shows a Google Meet window with a presentation slide titled "Machine learning". The slide content includes:

- Subset of AI use to perform a specific task without using explicit instructions, relying on patterns and inference instead.
- It works based on the data
- Simply it learn from the past experience without being actually programmed i.e. without any human assistance

The meeting interface shows 42 participants. The presenter, Harikrishna Nagamalli, is visible in the top right. The Windows taskbar at the bottom shows the time as 11:23 on 19-03-2021.

# Webinar on "SARS COV 2 & COVID 19 AN OVERVIEW on 13/05/2020

The screenshot shows a Zoom meeting in progress. The main window displays a grid of 20 participants in a 4x5 layout. The participants are: Dr. P. Vijaya, B. Sofia Rani, Dr. B. Sarani, Dr. Sarojni Koli, Galaxy A5 (2017), M. Pooja, wwin, Swathimicheal, sk.farheen, Likhit Galkwad, Sairi Radha Laxmi, Archana Mary, Manohar, munha anusha, Mallesh dancer, Manisha, Mallela Sravani, Nandhini Dokuri, Kurati sangectha, Seerapu Padhu..., Tuniki Bhavani, Redmi, N. Bhavithrana..., Aparna M, and Srija Gongati. On the right, a 'Participants (26)' list shows the same names with icons for mute, video, and chat. The Zoom toolbar at the bottom includes options for Mute, Stop Video, Participants, Chat, Share Screen, Record, Reactions, and Leave Meeting. The system tray on the far right shows the time as 11:11 AM on 13-05-2020.

The screenshot shows a PowerPoint presentation slide titled "SARSCoV 2 and COVID 1452620 - PowerPoint (Product Activation Failed)". The slide content includes a URL: <https://collaborationhelp.cisco.com/article/n6dr138>. Below the URL is a detailed diagram of the SARS-CoV-2 virus structure and its interaction with a human cell. The diagram shows the virus particle with its characteristic spike proteins, and its interaction with the host cell's surface receptors. It illustrates the process of viral entry, replication, and the release of new viral particles. The diagram is labeled with various components such as "Spike proteins", "Nucleocapsid protein", "Envelope", "Host cell", "Cell membrane", "Cell nucleus", "Mitochondria", "Golgi apparatus", "Lysosomes", "Endoplasmic reticulum", "Ribosomes", and "Viral RNA". The diagram also shows the virus particle interacting with the host cell's surface receptors, leading to the entry of the viral RNA into the cell.

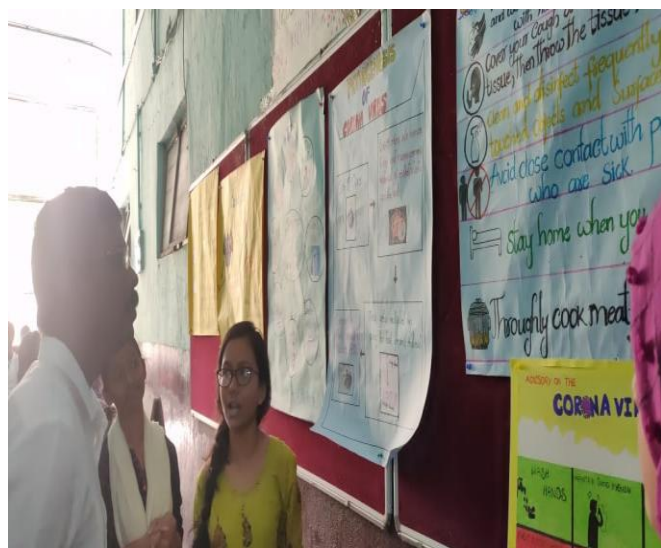


## POSTER PRESENTATION COMPETITIONS

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



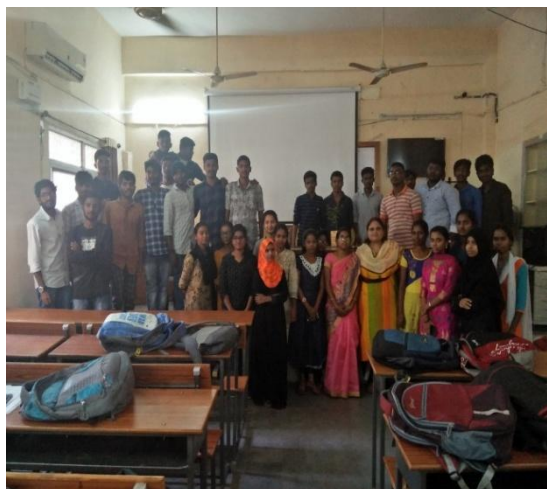
Inauguration of Poster presentation competition



Poster presentation by the students to the audience

# Extension lectures- Arranged

S.No	Topic of Extension lecture	Organized Date	Delivered by
1	Tools and Techniques used in Microbiology	11.03.2019	Smt. Marian Rajani Assistant Professor of Microbiology, Hussaini Aum Degree College, Hyderabad
2	Mutations	11.03.2020	Ms. Shakuntala Tiwari , Lecturer in Microbiology from Kasthurba Gandhi Degree & PG college for women, West Marredpally.



**Extension lecture on Molecular biology techniques- Tools and Techniques used in Microbiology (11.03.2019)**





Extension lecture on Mutations on **11.03.2020** by Ms. Shakuntala Tiwari, Lecturer in Microbiology from Kasthurba Gandhi Degree & PG college for women, West Marredpally.



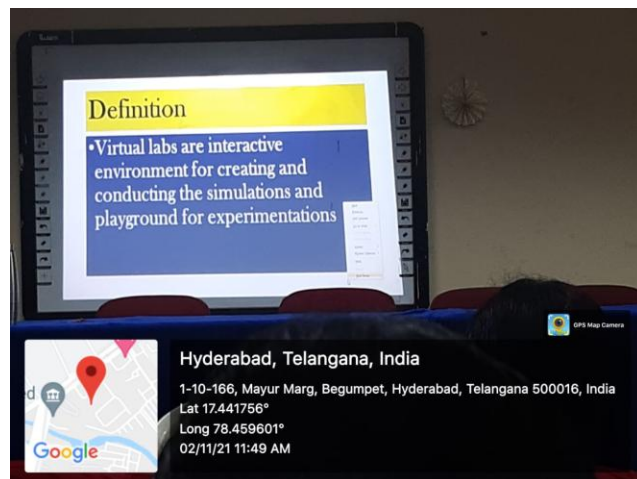
## Extension lectures- Delivered

S.No	Topic of extension lecture	Organized by	Date
1	Invited speaker in national level seminar on "Social Science research methodology with special reference to Commerce"	Department of Commerce, Government Degree College, Siddipet (A), Siddipet District.	11-12 November 2021.
2	State level webinar on " <b>Emerging applications of Artificial of Artificial Intelligence (AI) in Sciences</b> "	Department of Microbiology, Government Degree College, Khairatabad, Hyderabad District,	19 March, 2021
3	Delivered Lectures in Three day national level workshop on " <b>Emerging applications of ICT tools in Higher Education</b> "	Department of Microbiology, Government Degree College, Gajwel, Siddipet District	11-13 June 2020
4	Delivered a lecture as a resource person in national webinar entitled " <b>ICT tools in Higher education</b> ".	TSRWDC, Suryapet, Suryapet District, Telangana	03-04 July 2020

Presentation on ICT tools in Higher education on 31/12/2021 organised by Tara GDC, Sangareddy



Presented a lecture on Statistical tools for research organised by GDC Siddipet on 11-12 November 2021



Extension lecture: Virtual labs at Government Degree College for women Begumpet, Hyderabad  
Date : 02-11-21

# Memorandum of Understanding

Department of Microbiology, Government Degree College, Khairatabad and Janani Voluntary Blood centre, Hyderabad have entered into a Memorandum of Understanding (MoU) in 2019 and aimed to foster quality assurance and quality sustenance in the department. In collaboration with the Janani Voluntary Blood Centre, Hyderabad the Department of Microbiology organized an awareness programme on Blood donation by visiting Janani blood donation centre

Lic No. 06/HD/AP/2005/BB/CP/R



## JANANI VOLUNTARY BLOOD CENTRE

(A UNIT OF JANANI ORGANIZATION)

# Plot No. 7, Survey No.132, 1st floor, Prabha Arcade, GaneshNagar Colony,  
Sanjeevaiah Nagar, Old Bowenpally, Secunderabad - 11, Ph : 040-42015222



## GOVERNMENT DEGREE COLLEGE

KHAIRATABAD, HYDERABAD, T.S.-500 004.

RE-ACCREDITED WITH 'B' GRADE BY NAAC ESTD - 1973

D.S.R. Rajender Singh, M.Sc, Ph. D.D.Litt  
Principal,  
Mobile : 9515659545

Phone No. 040-23314956, 040-23390758  
Email Address : gdck2007@gmail.com  
Website : www.gdckhairatabad.ac.in

### Memorandum of Understanding

The Memorandum of Understanding (MOU) is being entered into on the day i.e., 13/09/2018 between

Janani Voluntary Blood Bank, Plot No.7, Survey no. 132, Prabha Arcade, First floor, Old Bowenpally, 500011.

Represented by: CEO, L.Laxmi Reddy.

And

Government Degree College, Khairatabad

Represented by: The Principal, Government Degree College, Khairatabad, Hyderabad

Enter into Memorandum of Understanding where in:

1. GDC Khairatabad may use the facilities of the blood bank in showing the different haematological techniques to the students of Microbiology.
2. Collaborate to conduct various programmes such as Field trip, Blood donation camp and Certificate Course.

#### Period of Validity:

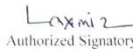
It is mutually understood and agreed between the parties that:

The term of MOU will be valid for 5 years and may be extended based on willingness of both the parties from the date of signing the MOU.

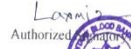
1. All the programs will be planned in advance in consent with both the parties.

  
Authorized Signatory

CEO, JANANI VOLUNTARY BLOOD BANK,  
OLD BOWENPALLY, HYDERABAD

  
Authorized Signatory



  
Authorized Signatory



### Memorandum of Understanding

The Memorandum of Understanding (MOU) is being entered into on the day i.e., between

Government Degree College, Khairatabad-

Represented by: The Principal, Government Degree College, Khairatabad, Hyderabad

And

Janani Voluntary Blood Bank, Plot No.7, Survey no. 132, Prabha Arcade, First floor, Old Bowenpally, 500011.

Represented by: CEO, L.Laxmi Reddy.

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1. All the programs will be planned in advance in consent with both the parties.

  
Authorized Signatory

GOVERNMENT DEGREE COLLEGE,  
KHAIRATABAD, HYDERABAD



## Field trip to Janani Volunteer blood center

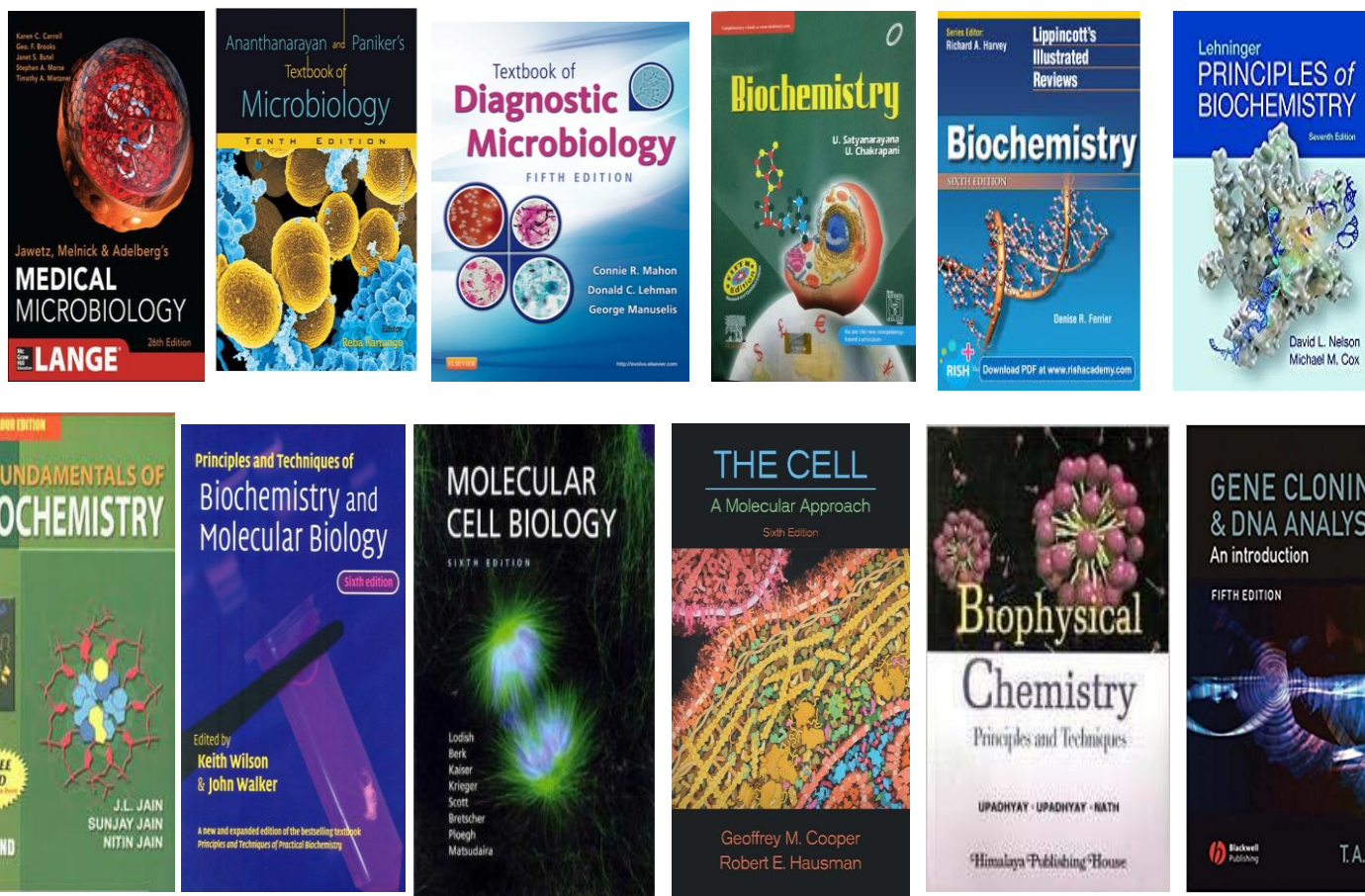


## Infrastructure and Learning Resources

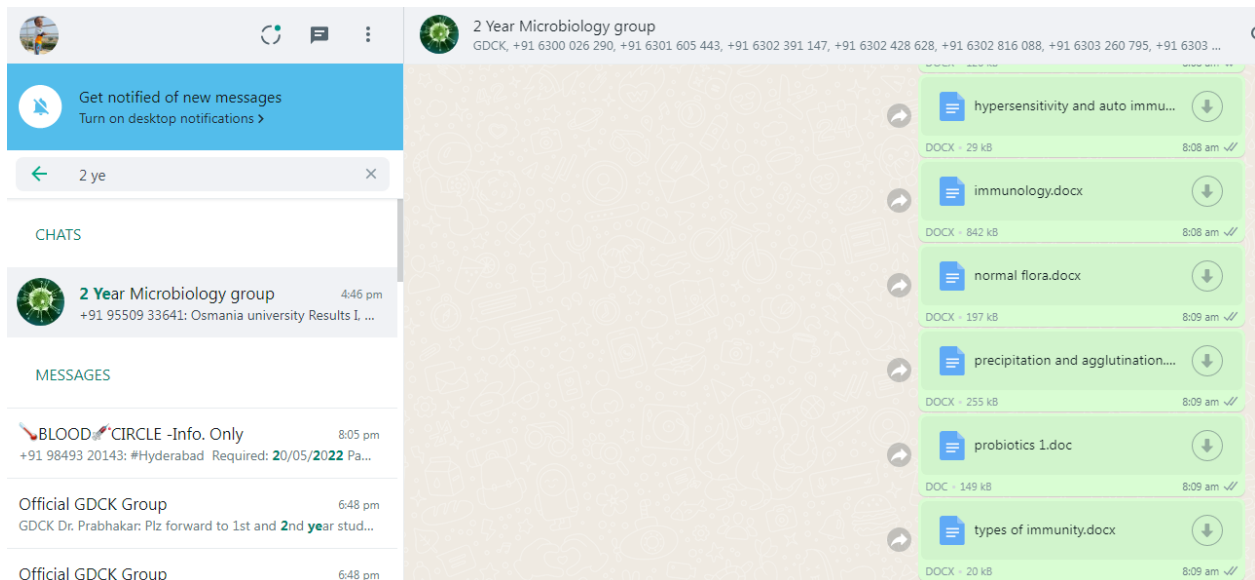
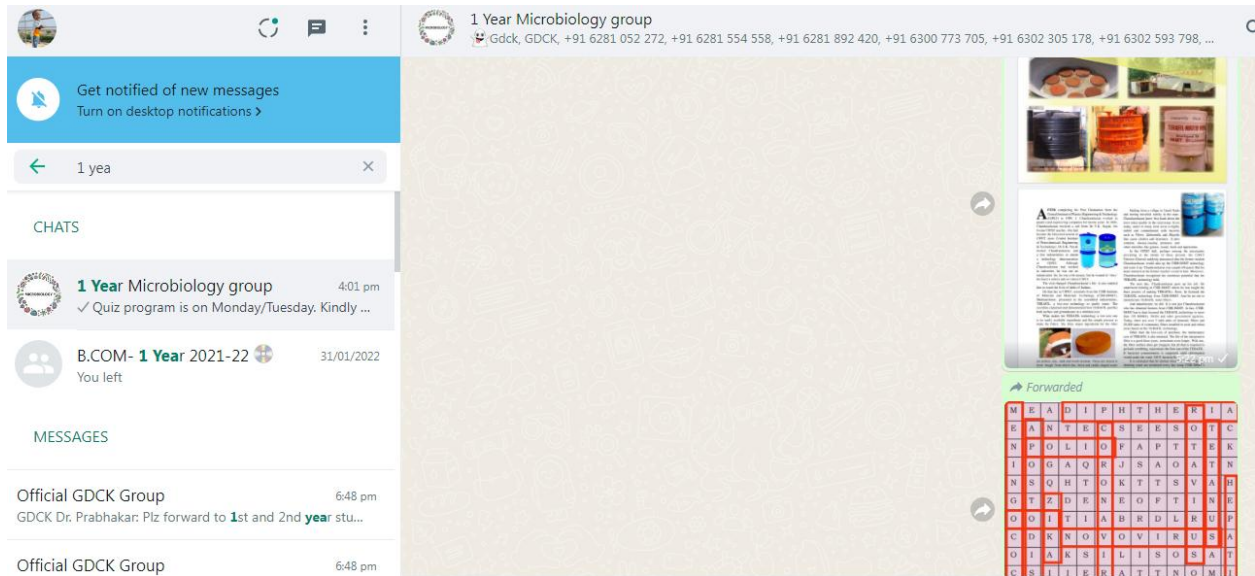
Department of Microbiology is developing its infrastructure and facilities with the support of RUSA funds. At present department of Microbiology using Botany laboratories for practical's. class rooms were allotted to teach theory subject. The department laboratories are acquiring equipment's as per the requirement. Department of Microbiology equipped with laminar air flow chamber, autoclaves, incubators, hot-air oven, monocular and binocular microscopes, colorimeters, electronic balances, digital colony counters etc.

Departmental Library: Standard reference books of national and international publications in the areas of microbiology, biochemistry, molecular biology, genetics and bioinformatics are available. To access the books easily department also providing the e – books to the students by sharing through the whats app groups. Department also sending the question papers pertaining to the PG entrance via whatsapp group.

### e-books



# Whatsapp groups of students





Microbiology -3 rd yr  
GDCK, +91 6305 435 396, +91 6305 599 827, +91 70131 65007, +91 70759 54003, +91 73966 24204, +91 84639 04067, +91 84990 1...

Get notified of new messages  
Turn on desktop notifications >

3 rd

CHATS

Microbiology -3 rd yr 7:12 pm  
Photo

MESSAGES

MBC third Year (2019-22) 16/04/2022  
Gdcg: Company Name: Unschool Domain: Sales & Marke...

BSC Scienc2018-2021 Batch 16/04/2022  
Gdcg: Company Name: Unschool Domain: Sales & Marke...

+91 6303 323 107 31/03/2022  
JOCKEY EXCLUSIVE STORE @ SIDDIPET has missed you l...

DOC - 196 kB 7:44 am ✓✓

screening 1.doc

DOC - 37 kB 7:44 am ✓✓

screening.doc

DOC - 37 kB 7:44 am ✓✓

strain improvement.docx

DOCK - 854 kB 7:44 am ✓✓

clinical microbiology.docx

DOCK - 120 kB 7:47 am ✓✓

clinical sample sample processi...

JPG - 341 kB 7:53 am ✓✓

clinical sample sample processi...

**STUDENT SUPPORT AND PROGRESSION PROGRESSION**

**GOVERNMENT DEGREE COLLEGE KHAIRATABAD**

**DEPARTMENT OF MICROBIOLOGY**

**ACADEMIC YEAR 2020-21**



**Career guidance by Microbiogen Academy 07-01-2022**

**PG ENTRANCE RANK HOLDERS**

<b>S.No</b>	<b>Hall ticket number In college</b>	<b>Name</b>	<b>Hall ticket number of entrance exam</b>	<b>Rank in BCGMES Common test/ Biotech. test (Osmania Univ/ Other Univ)</b>	<b>Allotted College</b>	<b>Allotted Course</b>
1.	1140-18-457-002	BagliSra vanisree	72093490130	2148	Government Degree & PG College, Gajwel.	M.Sc Microbiology
2.	1140-18-457-013	M,Shiva	7209577069	2218	Siddhartha Degree& PG College,Kukatpally, Hyderabad	M.Sc Microbiology
3.	1140-18-457-017	P.Poojitha	72093490310	806	Siddhartha Degree & PG College, Vanasthalipuram, Hyderabad	M.Sc Microbiology
4.	1140-18-457-018	P.Chandan aLahari	62087530285	3376	Sri Sarada Degree& PG College Moosapet,Hyderabad	MSc Organic Chemistry
5.	1140-18-457-019	P.Venkat Krishna Reddy	210141628	1100	Gitam Institute of Science, Vishakapatnam	M.Sc Microbiology
6.	1140-18-457-021	M.Akhil	72088260294	1811	M.N.R.Degree& PG College, Kukatpally, Hyderabad.	M.Sc Genetics
7.	1140-18- 457-024	Siraboina Ravikumar	72088250063	392	University College,Kakatiya University campus, Vidyaranyapuri, Warangal Urban.	MSc Microbiology
8.	1140-18-457-025	S.SaiNithin	2127215085	15391	Auroras PG College, Ramanthapur.	MBA
9.	1140-18-458-015	LasmuAm burao	72087520020	711	Avanthi Degree & PG College, Himayathnagar Hyderabad.	M.Sc Microbiology
10.	1140-18-458-019	P.Anil Kumar	72088250111	286	University PG College,	M.Sc Microbiology

					Palumuru University, Mahabubnagar.	
11.	1140-18-458-028	P.Ruchitha	72088250001	2039	Alphores Womens Degree & PG College, Karimnagar.	M.Sc Microbiology
12.	1140-18-458-030	Y.Mahesh	62153210053	1923	Nagarjuna Govt. Degree College(A) Nalgonda.	M.Sc Organic Chemistry

 <b>CPGET - 2021</b> <b>DIRECTORATE OF ADMISSIONS : OSMANIA UNIVERSITY, HYDERABAD</b>	
<b>RANK CARD</b>	
<b>Hall Ticket No.</b> : 72088260294 <b>Candidate's Name</b> : RANGU AKHIL <b>Father's Name</b> : RANGU KRISHNA GOUD <b>Test Name</b> : <b>M.Sc. Biochemistry / Environmental Science / Forensic Science / Genetics / Microbiology (BCESFSG&amp;M)</b>	<b>Community</b> <b>BC_B</b> <hr/> <b>Date of Birth</b> <b>05/04/1998</b>
<b>Marks Obtained</b> : 32 <b>Rank</b> : 1811	  Convener
 	
<small>INSTRUCTIONS TO THE CANDIDATE</small> <sup>1.</sup> <b>The admissions into PG Courses offered by Osmania, Kakatiya, Telangana, Mahatma Gandhi, Palamuru, Satavahana and JNTUH Universities (in campus, constituent and affiliated colleges) will be made through a centralized web-based counseling. Further, the schedules will be available in website. The qualified candidates are advised to visit the website from time to time for further admission schedules.</b> <b>Websites: <a href="http://www.ouadmissions.com">www.ouadmissions.com</a> , <a href="http://www.osmania.ac.in">www.osmania.ac.in</a> and <a href="http://www.tscpget.com">www.tscpget.com</a></b>	



# CPGET - 2021

OSMANIA UNIVERSITY - HYDERABAD

## Joining Report (Final Phase)

Acknowledgement No: 52519

Date :25-01-2022 16:02:14

<b>Candidate Details :</b>			
HT.No	: 72093490310	Rank	: 806
Name	: POLAMADA POOJITHA	Gender	: F
Father's Name	: P VENKATA RAMANAIH	Date of Birth	: 15-11-1998
Category	: OC	Region	: Non Local
Parental Income	: Higher	Special Category	:

<b>Provisional Allotment Details</b>			
Alloted College	: Siddhartha Degree & PG College, Vanasthalipuram, Hyderabad	Course	: M.Sc. Microbiology
College Type	: OU Affiliated	Payment Type	: Payment
Alloted Category	: PAY_OPEN_UNR_GEN	Alloted in	: Phase III

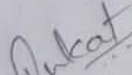
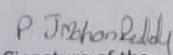
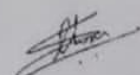
**PROVISIONAL ALLOTMENT ORDER**

Date: 29-10-2021

Application Number : 210141628  
Mode of Admission : Online  
Name of the Student : P VENKAT KRISHNA REDDY  
Name of the Parent / Guardian : P JAGAN MOHAN REDDY  
Gender : Male  
Category : General  
Institute : GITAM Institute of Science , Visakhapatnam  
Program : M.Sc. Microbiology

Admission will be confirmed subject to the following conditions:

1. The candidate is eligible for admission, if he/she fulfils the eligibility criteria prescribed by GITAM (Deemed to be University).
2. The candidate whose allotment is without merit scholarship has to pay the remaining amount of Semester/Year fee before the commencement of class work.
3. The candidate is directed to upload the following scanned copies of original certificates in admission portal for online verification
  - (i) Signed Allotment Letter
  - (ii) X class Marks memo and Pass Certificate
  - (iii) 10+2 / Intermediate marks memo and Pass Certificate
  - (iv) Undergraduate Marks Memo and Original Degree (in case of PG candidates)
  - (v) Transfer and Conduct certificates
  - (vi) Medical Certificate (in case of PH candidates)
  - (vii) Integrated Community Certificate (in case of SC/ST candidates)
4. The original certificates will be physically verified for authenticity at the time of induction and the same will be returned to the candidate after verification. However, it is mandatory that the candidate should submit the original Transfer & Conduct certificate. The schedule of induction program will be notified through GITAM website.
5. If any candidate does not report to the Principal / Director before commencement of class work, his/her provisional allotment of seat will be cancelled. In the event of candidate withdrawing before the prescribed date notified by the statutory bodies / councils, the entire fee collected from the candidate, after a deduction of the prescribed charges shall be refunded.
6. In case, if a candidate leaves the course after the prescribed notified date by the statutory bodies / councils, the institution shall not refund the fee paid by the student.

  
Signature of the  
Candidate  
Signature of the  
Parent / GuardianSignature of the  
Coordinator  
Signature of the  
Director





## Acknowledgement Card

### Phase - II

Acknowledgement No: 40521

Candidate Details :	
HT.No : 62153210053	Rank : 1923
Name : YELLA MAHESH	Gender : M
Father's Name : YELLA SAIDULU	Date of Birth : 10-05-2000
Category : BC-D	Region : OU
Parental Income : Lower	Special Category :

Provisional Allotment Details :	
Alloted College : Nagarjuna Govt. Degree College (A), Nalgonda.	
Course : M.Sc. Organic Chemistry	College Type : MGU Affiliated
Alloted Category : SF_OPEN_OU_GEN	Payment Type : Self-Finance

### Payment Details

Payment Transaction ID	: C211094134
Payment Date	: 02-01-2022 12:30:24
Course Fee Rs	: 29175.00 /-
Fee paid Rs	: 700.00 /-

### Instructions to candidate

1. Report to the respective college and submit the acknowledgement card.
2. Produce all original certificates for final verification within the stipulated time.
3. After final verification the candidate should collect Allotment order and joining report from the college authorities. The Signed copy of joining report along with the original TC have to be submitted at the college
4. Bring two sets of photocopies (Xerox) of all certificates for submission at the respective colleges.
5. After payment of Tuition Fee, if the candidate cancels the provisionally allotted seat, the candidate will forfeit the Counselling Fee of Rs.700/-.

CONVENER  
CPGET - 2021



**CPGET - 2021**  
DIRECTORATE OF ADMISSIONS : OSMANIA UNIVERSITY, HYDERABAD

**RANK CARD**

Hall Ticket No. : 62087530285  
 Candidate's Name : PRUDHIVI CHANDANA LAHARI  
 Father's Name : PRUDHIVI BALAJI RAO  
 Test Name : M.Sc. Chemistry

Community  
**BC\_B**

Date of Birth  
**07/09/2001**

Marks Obtained : 28  
 Rank : 3736



*Prudhivi*  
Convener



*Chandana Lahari*



**CPGET - 2021**  
DIRECTORATE OF ADMISSIONS : OSMANIA UNIVERSITY, HYDERABAD

**RANK CARD**

Hall Ticket No. : 72088250111  
 Candidate's Name : PUTTAPAGA ANILKUMAR  
 Father's Name : P THULASIRAM  
 Test Name : M.Sc. Biochemistry / Environmental  
                   : Science / Forensic Science / Genetics /  
                   Microbiology (BCESFSG&M)

Community  
**SC**

Date of Birth  
**24/01/2000**

Marks Obtained : 43  
 Rank : 286



*Prudhivi*  
Convener







**AVANTHI**  
**DEGREE & P.G. COLLEGE**  
 ESTD. 1992 (Approved by AICTE & Affiliated to O.S.U.)




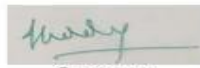
Name: L. Amburao  
 Father Name: L. Gangaram  
 Course : M.Sc. Microbiology  
 Hall ticket No.: 105921518010  
 Blood Group: B<sup>+</sup>  
 Address : AVANTHI COLLEGE, Narayanaguda, Hyderabad  
guda (Affiliated to Osmania University)

Road No. 12, Above Honda Showroom, (Block-II),  
 Narayanaguda, Hyd. Ph: 66414463,55 Fax: 6678220  
 www.avanthicollege.ac.in

  
 Issuing Auth. [Signature]


**CPGET - 2021**  
**DIRECTORATE OF ADMISSIONS : OSMANIA**  
**UNIVERSITY, HYDERABAD**

**RANK CARD**

Hall Ticket No.	: 72093490130	Community <b>BC_D</b>
Candidate's Name	: BAGLI SRAVANISREE	Date of Birth <b>28/10/1999</b>
Father's Name	: BAGLI ASHOK RAO	
Test Name	<b>M.Sc. Biochemistry / Environmental : Science / Forensic Science / Genetics / Microbiology (BCESFSG&amp;M)</b>	
Marks Obtained	: <b>31</b>	 <u>B. Sravanthi</u>
Rank	: <b>2148</b>	
   Convener		

INSTRUCTIONS TO THE CANDIDATE

1. The admissions into PG Courses offered by Osmania, Kakatiya, Telangana, Mahatma Gandhi, Nalanda, Satyameva Jayate and



Logout

**Candidate Details :**

HT.No	: 72088250111	Rank	: 286
Name	: PUTTAPAGA ANILKUMAR	Gender	: M
Father's Name	: P THULASIRAM	Date of Birth	: 24-01-2000
Category	: SC	Region	: OU
Parental Income	: Lower	Special Category	:

**Provisional Allotment Details :**

Alloted College	: University PG College, Palamuru University, Mahabubnagar		
Course	: M.Sc. Microbiology	College Type	: PU Campus
Alloted Category	: REG_SC_OU_GEN	Payment Type	: Regular

Candidates are informed that the amount shown against the entry total fee payable / refundable is subject to verification of the actual fee paid through online payment in the **Previous phase of allotment**. The students belonging to SC/ST/BC/EBC/PH Categories will be considered for Reimbursement of Tuition Fee (RTF) which is subject to verification and eligibility criteria Prescribed by Government of Telangana from time to time. In the event of non-eligibility for fee reimbursement, the candidate shall have to pay the total fee.

**Instructions to Candidates :**

- Self Reporting System** : Click on Self Reporting Check box before the Payment. This activity is **mandatory** so as to confirm your admission.
- Payment through online (Net Banking / Credit Card / Debit Card)**: Click on **Pay Now** Button you will be directed to payment Gateway. Make the payment accordingly duly entering the details as per the payment mode selected and after the successful payment, download the acknowledgement card
- Make the Payment on or before 27/01/2022**. If the candidate fails to pay the amount, this provisional allotment order automatically stand cancelled and candidate has no claim on the provisional seat allotment.
- The candidate has to report at the college and hand over the acknowledgement card at the college
- The Original Transfer Certificate (T.C.) shall be submitted at the allotted college and provide all original certificates for verification.
- Candidates can verify status of self reporting / payment details in student's login by duly clicking on view Joining / Fee Payment Transaction Report.
- After payment of Tuition Fee, if the candidate cancels the provisionally allotted seat, the candidate will forfeit the Counselling Fee of Rs.700/-.
- The candidate supposed to take admission in only one of the courses in CPGET - 2021 counselling.

**Note:**

- Candidates are informed to verify the transaction limit and validity of Credit Card / Debit Card before proceeding for payment. Candidates are informed to pay Tuition Fee from their own account or parents account. In case of refund, if any, will be remitted to the same account.

**Online Payment**

Payment Transaction ID	: C211116968 (Please Note this ID for future reference)
Course Fee Rs	: 32200.00 /-
Amount paid in Previous phase Rs	: .00 /-
Fee to be paid Rs	: 700.00 /-
<input type="checkbox"/> I Accept Above terms and Conditions	
<input type="checkbox"/> Self Reporting	

Proceed to Payment



**CPGET - 2021**  
**DIRECTORATE OF ADMISSIONS : OSMANIA UNIVERSITY,**  
**HYDERABAD**

**RANK CARD**

Hall Ticket No. : 72088250001  
Candidate's Name : VILASAGARAPU RUCHITA  
Father's Name : VILASAGARAPU SAMBAIAH  
Test Name : M.Sc. Biochemistry / Environmental  
: Science / Forensic Science / Genetics /  
Microbiology (BCESFSG&M)

Community  
BC\_B

Date of Birth  
16/08/2001

Marks Obtained : 32  
Rank : 2039



*Handwritten signature*  
Convener



V. Ruchitha.

**INSTRUCTIONS TO THE CANDIDATE**

1. The admissions into PG Courses offered by Osmania, Kakatiya, Telangana, Mahatma Gandhi, Palamuru, Satavahana and JNTUH Universities (in campus, constituent and affiliated colleges) will be made through a centralized web-based counseling. Further, the schedules will be available in website. The qualified candidates are advised to visit the website from time to time for further admission schedules.  
Websites: [www.ouadmissions.com](http://www.ouadmissions.com) , [www.osmania.ac.in](http://www.osmania.ac.in) and [www.tscpget.com](http://www.tscpget.com)
2. The eligibility of the candidates is not verified / decided at the time of application and during the entrance test. The verification will be done only during the admissions. Hence, candidates are advised to ensure that they are eligible for the course/subject they are applying for admission.
3. The candidates called for certificate verification must have the following original certificates /documents to be Upload for Online Certificate Verification.
  - i. Rank Card and Hall Ticket of CPGET – 2021.
  - ii. Transfer Certificate (T.C) from the institution where the candidate has last studied.
  - iii. Degree certificate and complete memorandum of marks or consolidated memo of qualifying examination (the downloaded memos are not allowed). The candidate should ensure that he/she has passed the qualifying examination with a requisite percentage of marks without which his/her admission will not be entertained.
  - iv. SSC or 10th class or its equivalent marks memo.
  - v. Bonafide certificates from 9th Class onwards or Proof of Local \ Non-Local status of the candidate as per the rules in force (see ANNEXURE - I).
  - vi. Community / Caste Certificate if applicable.
  - vii. Latest Income Certificate issued by Tahsildar on or after 01.01.2021, if applicable.
  - viii. Certificates of special categories, if applicable, and when called for admission under these categories.
  - ix. Aadhaar Card.





# CPGET - 2021

OSMANIA UNIVERSITY - HYDERABAD

Logout

### Candidate Details :

HT.No	: 72088250001	Rank	: 2039
Name	: VILASAGARAPU RUCHITA	Gender	: F
Father's Name	: VILASAGARAPU SAMBAIAH	Date of Birth	: 16-08-2001
Category	: BC-B	Region	: OU
Parental Income	: Lower	Special Category	:

### Provisional Allotment Details :

Alloted College	: Alphores Womens Degree & PG College, Karimnagar		
Course	: M.Sc. Microbiology	College Type	: SU Affiliated
Alloted Category	: SF_OPEN_OU_FEMALE	Payment Type	: Self-Finance

Candidates are informed that the amount shown against the entry total fee payable / refundable is subject to verification of the actual fee paid through online payment in the Previous phase of allotment. The students belonging to SC/ST/BC/EBC/PH Categories will be considered for Reimbursement of Tuition Fee (RTF) which is subject to verification and eligibility criteria Prescribed by Government of Telangana from time to time. In the event of non-eligibility for fee reimbursement, the candidate shall have to pay the total fee.

#### Instructions to Candidates :

- Self Reporting System** : Click on Self Reporting Check box before the Payment. This activity is **mandatory** so as to confirm your admission.
- Payment through online (Net Banking / Credit Card / Debit Card)**: Click on **Pay Now** Button you will be directed to payment Gateway. Make the payment accordingly duly entering the details as per the payment mode selected and after the successful payment, download the acknowledgement card
- Make the Payment on or before 27/01/2022**. If the candidate fails to pay the amount, this provisional allotment order automatically stand cancelled and candidate has no claim on the provisional seat allotment.
- The candidate has to report at the college and hand over the acknowledgement card at the college
- The Original Transfer Certificate (T.C.) shall be submitted at the allotted college and provide all original certificates for verification.
- Candidates can verify status of self reporting / payment details in student's login by duly clicking on view Joining / Fee Payment Transaction Report.
- After payment of Tuition Fee, if the candidate cancels the provisionally allotted seat, the candidate will forfeit the Counselling Fee of Rs.700/-.
- The candidate supposed to take admission in only one of the courses in CPGET - 2021 counselling.

#### Note:

- Candidates are informed to verify the transaction limit and validity of Credit Card / Debit Card before proceeding for payment. Candidates are informed to pay Tuition Fee from their own account or parents account. In case of refund, if any, will be remitted to the same account.

### Online Payment

Payment Transaction ID	: C211117038 (Please Note this for future reference)
Course Fee Rs	: 31210.00 /-
Amount paid in Previous phase Rs	: .00 /-
Fee to be paid Rs	: 700.00 /-
<input type="checkbox"/> I Accept Above terms and Conditions	
<input type="checkbox"/> Self Reporting	

## Governance, Leadership and Management

S.NO	Activity
1	Mentor Mentee
2	Class Representatives
3	PG entrance Coaching
4	Feedback analysis
5	Student grievance reddresal

### Other Responsibilities

#### Membership in Government/ NGO/ Private Organizations

Name of the organization	Designation	From date	To date
The Indian Science Congress Association	Life member	18 September 2017	Till date
Surabhi Dayakar Rao College of Pharmacy, Rimmanaguda, Gajwel	Governing Body member	24 January 2020	Till date
Microbiology Society of India	Coordinator of Osmania University	15 June 2020	14 June 2021

## Additional responsibilities

Additional responsibility in the college	From Date	To Date
Examination branch Member	January 2022	Till date
BC Study circle Coordinator	March-2022	Till date
TSKC Member	March 2022	Till date
Mentor Mentee	March 2022	Till date
Science club Member	March 2022	Till date
BOS member in organization- 01	May 2022	Till date

## BEST / INNOVATIVE PRACTICES

### 1. Title of the Practice: Did You Know - 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



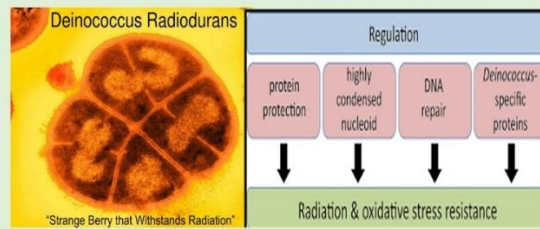
- It is *Pseudomonas syringae*.
- It forms ice crystals from water
- Ice crystal proteins, INA creates ordered structures in the water & remove heat from the water
- Commercial trade name- **Snomax**



*P. syringae*

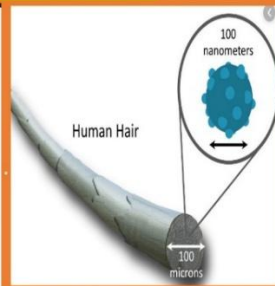
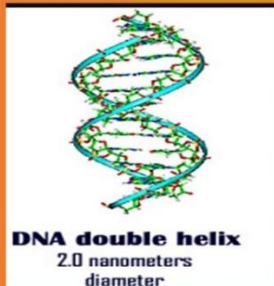
❑ Ice nucleation-active proteins found on the outer bacterial cell wall acts as the nucleating centers for ice crystals.

#### DEINOCOCCUS- STRANGE BACTERIA



- ❖ **D. radiodurans** is an extremophilic bacterium, one of the most radiation-resistant organisms.
- ❖ Survives in cold, dehydration, vacuum, and acid. Hence known as **polyextremophile**.

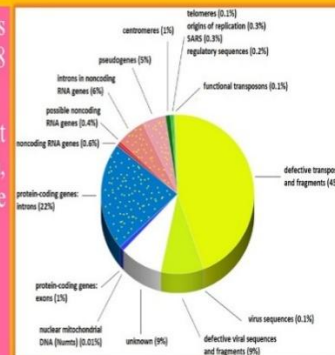
#### FACTS OF DNA



- ❑ You could fit 25,000 strands of DNA side by side in the width of a single adult hair.
- ❑ Average diameter of hair is 100  $\mu\text{m}$ . DNA diameter is 2 nm

#### FACTS OF DNA

- ❖ Your DNA includes materials from at least 8 viruses
- ❖ They help in important functions like cell division, regulation of immune system.



### 3. QR coding for instruments



1Waterbath



Autoclave



Colony counter



Distillation Unit



Hot air oven



Incubator



## **STRENGTH, WEAKNESS, OPPORTUNITIES AND THREATS / CHALLENGES (SWOT) OF THE MICROBIOLOGY DEPARTMENT**

### **Strengths:**

- Good repository of soft copies of books
- 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 sophisticated labs and class rooms
- 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

### **Threats / 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,  
Department of Microbiology,  
Government Degree College, Khairathabad  
Hyderabad(Dt)-500004, India.



Name : **Dr. N. Harikrishna**  
Designation : **Assistant Professor**  
Department : **Microbiology**  
Institute : **Government Degree College, Khairathabad**  
Office Address : **Department of Microbiology,  
Government Degree College, Khairathabad  
Hyderabad (Dt), Telangana, India**  
Date of Birth : **03-07-1985**  
Marital Status : **Married**  
Telephone No : **+91 9966222110, Office: 08457-222110**  
E-mail : **harinagmalli@gmail.com**  
Sex : **Male**

**Educational Qualifications : M.Sc., Ph D.**

#### **Teaching Experience:**

For Undergraduate Students (B.Sc) : **10 Years.**

#### **Scholarly work:**

Research Papers published in ISSN/ISBN-Journals :**10**  
National & International level seminars attended :**20**  
Papers presented in National and International level seminars :**14**  
Faculty Development Programmes& R.C,s Attended :**14**  
Projects Guided/Supervised :**04**  
Books published (Editorial member) :**03**

## PAPERS PUBLISHED:

- **HarikrishnaNagamalli**, P. Ayodhya Reddy, B. Srisailam. 2021. Avifaunal diversity of the re-organized Siddipet District of Telangana, India. Journal of the Maharaja Sayajirao University of Baroda. (ISSN No. 0025-0422)
- **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 (Impact factor : 2.4 ) (Citations : 9)
- **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) (Citations: 13)
- **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**) (SJIF Impact factor :6.2)
- 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**)(SJIF Impact factor :6.2)
- 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) (Citations: 19)
- Vijay Kumar, E., M. Srijana, K. Kiran Kumar, **N. Harikrishna**and 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) (Citations :63)
- 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 )
- NagamalliHarikrishna. 2021. Impact of Covid 19 on higher education: A Digitalization Era. Multipdisciplinary perspectives on emerging challnges- Fresh contemplations of

schoarsduring COVID – 19. Vagdevi Publishers. First edition 2021. ISBN: 978-93-85132-05-6. (Book chapter)

- 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) (Book chapter)

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

- Participated in National webinar on “Recent Research opportunities and Challenges in Biological sciences” organized by Department of Biotechnology and Biochemistry, Career College, Bhopal on 17 May 2021.
- 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 international symposium 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 March 2018).
- Participated presented paper entitled “**A study on avian diveristy 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 Nov 2017).
- 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 Univeristy, 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, Maharashtra ( 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- Asparaginase**” in “**Global Meet Of Biologists**” conducted by ICT, 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 Thiruvandrum ( 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 one week online FDP on “**Learning through virtual labs for technical institutions**” Organized by Lendi Institute of Engineering and Technology, in association with NITK Surathkal from 18-22 October 2021.
- Participated two day Workshop on “**SPSS**” organized by Faculty of education, Dr. M.G.R Educational and Research Institute, Tamil Nadu Chennai, from 14-15 May 2021.
- Participated in two day Lecture workshop on “**Recent trends in Biological Sciences**”organised by PG & Research Department of Biochemistry, Sacred Heart College (Autonomous), Tirupattur, Tamilnadu from 16-17 February 2021.
- 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 Univeristy, 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 Univeristy, 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, Madurai, Tamilnadu. (16 september to 1 October 2010)
- Participated in workshop entitled “**Chromatography Equipments**” conducted by CFRD, Osmania Univeristy, 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 MeitY, GOI sponsored FDP on **Advances in Bioinformatics** organized by Department of Biotechnology, NIT Warangal from 10-16 May 2021.
- 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 Univeristy, Hyderabad, Telangana state.
- Participated in National Lecture workshop “**COVID 19: Basics to clinical**” organized by Department of Botany, Telangana university, Telangana from 9-10 December 2020

- Participated in FDP entitled **“Effective Ways to Develop E-content For Teaching-Learning”** organized by Maratha Vidya Prasarak Samaj’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), Savitribai Phule 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 Biotechnology, NIT Warangal, Telangana (25-30 May 2019)
- Participated in FDP on **“Certificate Course on Bionanotechnology”** organized by Association of Indian biologists, Chennai, Tamilnadu, from 15.05.2020 to 11.06.2020
- Participated in 84 orientation course conducted by Univeristy 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 EDITED / PUBLISHED:**

- **“Choice based credited system : Opportunities challnges and concerns. National seminar”**. Vagdevi publications.
- **“Competency Mapping Among College Teachers: Problems and Prospects”**(29-30 January 2014). New Age Publishing House.
- **Multipdisciplinary perspectives on emerging challnges- Fresh contemplations of schoars during COVID – 19**. Vagdevi Publishers. First edition 2021. ISBN: 978-93-85132-05-6.

### **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 national level seminar on “Social Science research methodology with special reference to Commerce”, organized Department of Commerce, Government Degree College, Siddipet (A), Siddipet District, Telangana, held during 11-12 November 2021.
- 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 selections**” **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.