# **GOVERNMENT DEGREE COLLEGE,**

# GAJWEL DIST SIDDIPET.



## **DEPARTMENT OF BOTANY PROFILE**

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#### **HISTORY OF THE DEPARTMENT**

The college was established during the year 26-08-1997 with traditional courses in social science i.e., B.A and B.Com.

The services of the following faculty were rendered to the department of Botany

- 1. Mr. P.Janardhan Reddy
- 2. Dr. K.Neranjan Rao
- 3. Dr. K.Venkateshwar Rao
- 4. Mrs. P.Jahnavi

At present **Smt Rafia khanam (Assistant professor)** acting as in charge of the department and **Sri G.YuvaRaju** are serving in the department till date.

#### **COURSES OFFERED**

- **1.** Microbiology with Botany and Chemistry (English medium)
- 2. Biotechnology with Botany and Chemistry (English medium)
- **3.** Botany with Zoology and Chemistry (English medium) & (Telugu medium)

# **HIGHLIGHTS OF THE DEPARTMENT**

All the Staff members of our departments are active and enthusiasticin discharging their work load. They teach the subject of Botany by creating zeal and interest among the students.

- 1. Bio visual charts are being used for better understanding and easy remembrance of the student.
- 2. Various models are exhibited to the students for the particular topic.
- 3. Various museum specimens will be shown to the students for the observation of the morphology.
- 4. The students are asked to submit project reports, assignments, seminars report, charts and models.
- 5. Conducting field trips for students on concerned topics.
- 6. Evaluation of the student is done by conducting slip tests and remedial coaching is given.

The department was well established with two labs with sufficient equipments. Department purchases required materials as per the norms of Osmania University and availability of funds provided by the state Government and UGC.

# **ABSTRACT OF CRITERION WISE ACTIVITIES**

#### **CURICULLAR ASPECTS**

The Curriculum taught in this Institution is according to the syllabus issued by the Department of Botany, Osmania University, Hyderabad. The subject part is dealt in theory and practical in Laboratory. Besides, the students will be exposed to various curricular activities carried out in and out the college. They will be provided with teaching notes and books for reference.

Year wise annual curricular plans are prepared by the department in advance and same will be intimated to the students. As per the schedule if any program is not conducted the same is reviewed by the principal later it will be completed by the instructions of the principal. Semester wise CBCS system is introduced from 2016-17.

Coverage of Syllabus is being reviewed in the Department meetings held at regular intervals. Teaching is done by different methods.

S.No.	Methods	S.No.	Methods	S.No.	Methods
1	Overhead project/transparencies	6	Field Trips.	11	Extension Lectures.
2	Charts	7	Assignments.	12	Educational Tours.
3	PPTs	8	Seminars.	13	Guest lectures
4	Group Discussions	9	Project works.	14	
5	Quiz programs.	10	Remedial coaching.	15	

#### THE DEPARTMENT MAINTAINS ACADEMIC STANDING BY

- \* Organizing seminars
- \* Conducting slip tests
- Giving assignments
- Project works
- Remedial classes

#### **ASSIGNMENTS**

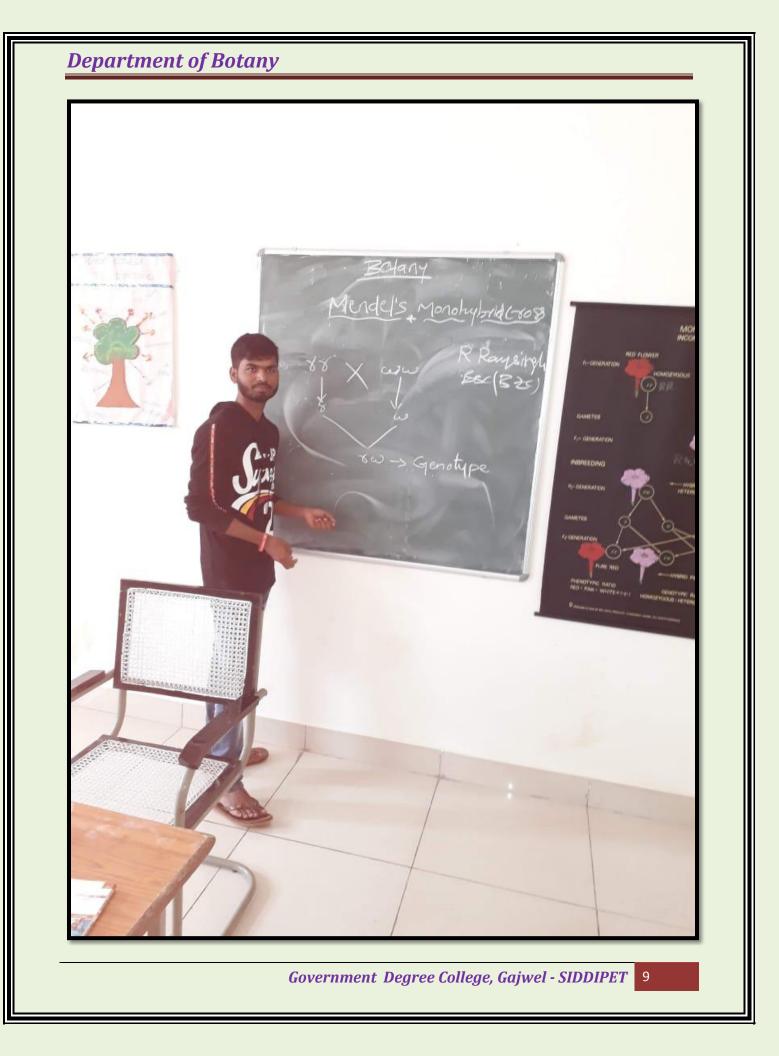
To inculcate the study culture among the students, assignments are given periodically. An assignment makes the students to read and write the subject in a detailed way. it enables the students to have knowledge of the subject.

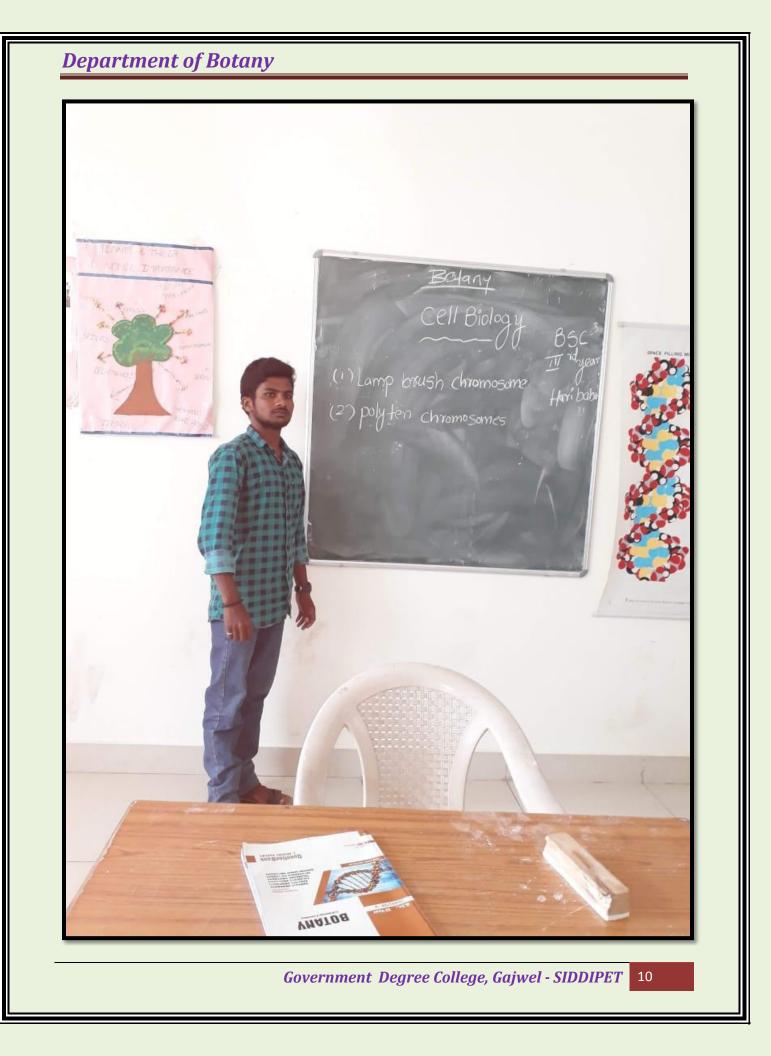
## **STUDENTS SEMINARS:-**

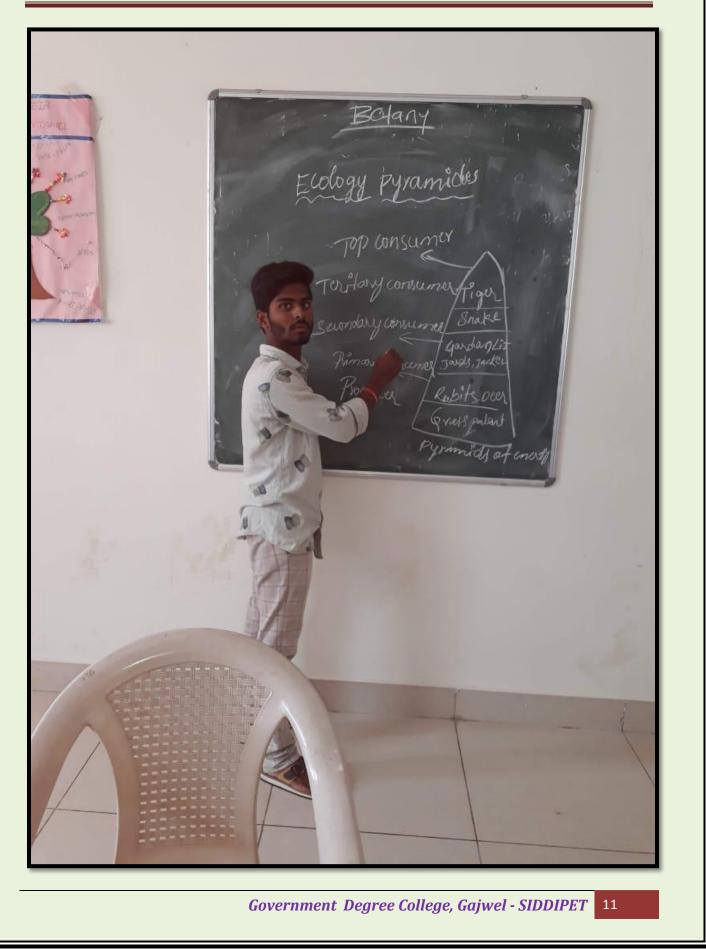
The department of Botany encourages the students to actively participate in the seminar presentations. The presentation of siminar allows the students to increase the analytical skills of the subject. To present a seminar, the student needs to have a good knowledge of the subject. This work helps the students to develop teaching and presentation skills.





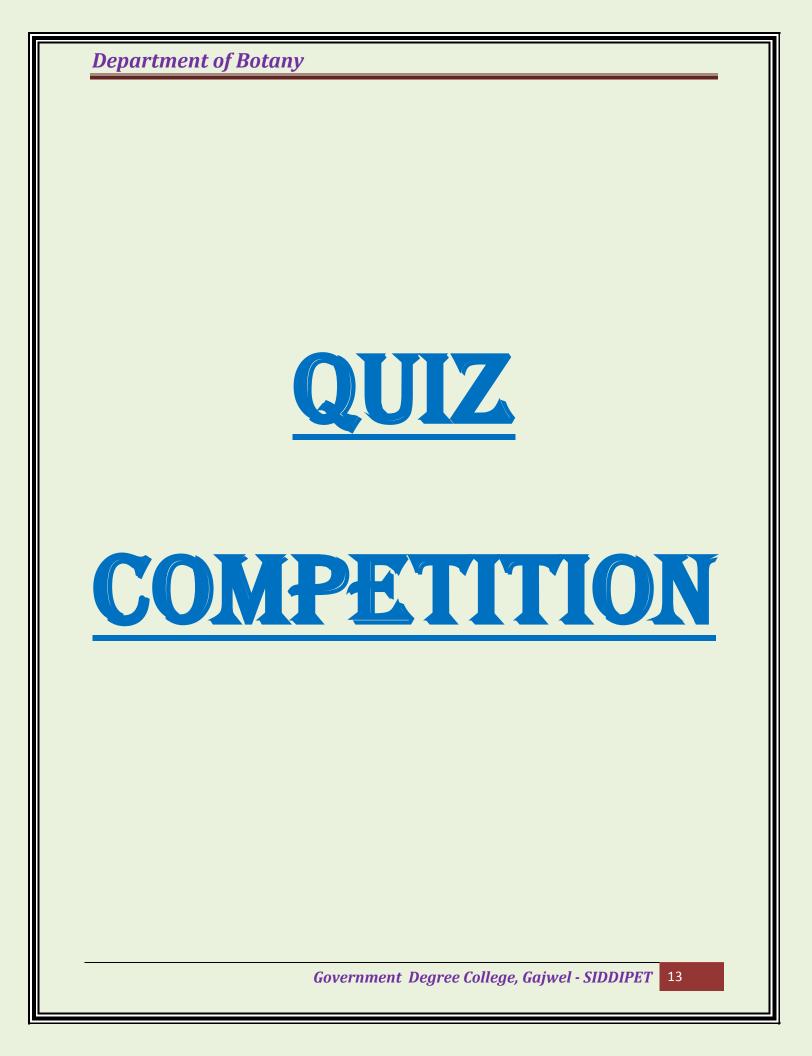






#### Some of the seminars presented by the students :-

S.No.	Name of the Student	Торіс		
1	Md.Shabbir	Phytohormones-Ethylene		
2	Ch.Mounika	Phytohormones-Gibberelline		
3	G.Radhika	Phytohormones-auxins		
4	K.Ravali	Shade nets		
5	K.Rajeshwari	Green House		
6	Manisha	Vegetative propagation in plants		
7	K.Srinivas	Traditional medicinal system of siddha		
8	K.Aruna	Carbon cycle		
9	K.Swarnalatha	Ecological Pyramid		
10	M.Roja	Energy Pyramid		
11	D.Kalyan	Medicinal botany ayurvedha		
12	Syed Althaf	Asteraceae		
13	J.Sairam	Rutaceae		
14	Ramavath Ramsingh	Mendal Monohybrid cross		
15	B.Bhoopal	Ecological Pyramid		



- To inculcate a healthy competitive spirit, the students were divided into different groups and quiz competitions were conducted.
- The students responded with great Zeal and enthusiasm.





This is a novel way of engaging the students during their leisure hours and to inculcate a sense of affiliation among them. Generally, the topics were of subject and a few belonged to General Science and Technology and dimensions of Botany. Always they were monitored by a student leader and possibly with the assistance of faculty member. Because of the varied opinions expressed by different students, all the participants used to get much information and wide exposure. This also helped the students to move in a group and made them to realize the importance of team work. They also helped them to acquire leadership qualities and ability of substantiating their statements.



Department of Botany
EXTENSION
LECTURES
Government Degree College, Gajwel - SIDDIPET 17

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1. Arranged a guest lecture on Gene Expression by Dr.Rachana (assistant professor) Government Degree College (mens) – Gajwel



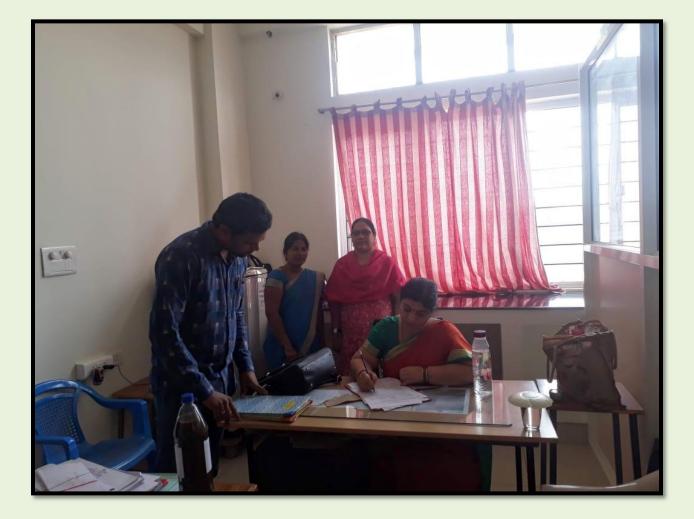
2. A Guest Lecture was given by K.Anuradha (Asst. Professor Botany at GDC SADASHIVPET on the topic ENZYMES FOR B.Sc third year students.



3. An Extension lecture was delivered by R. Lalitha on the topic RUTACEAE which benefited B.Sc final year students.



# **AUDIT TEAM** INSPECTION IN THE DEPARTMENT



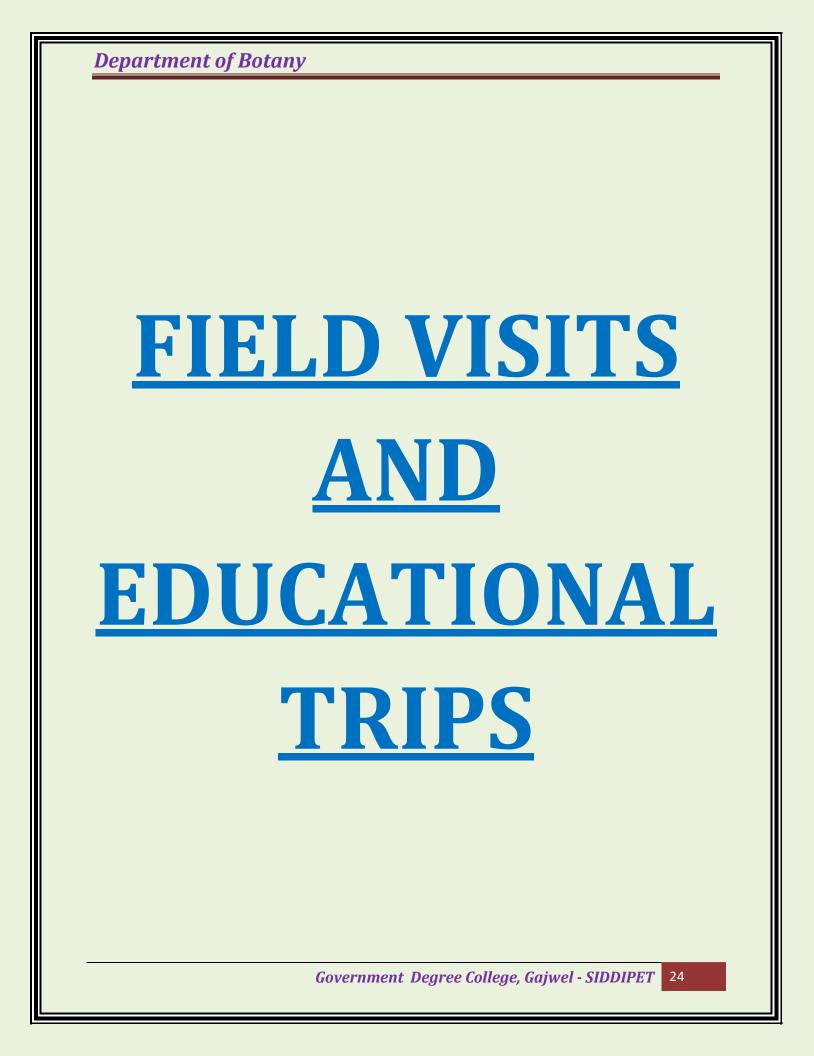
# Date: 10<sup>th</sup> January 2020

# **ACTED AS A JURY** MEMBER FOR POSTER PRESENTATION @ **GDC GAJWEL(W)**, SIDDIPET DIST ON THE EVE OF SCIENCE **DAY CELEBRATIONS**





#### DATE: 4<sup>TH</sup> JANUARY, 2020



As a part of curriculum field trips were conducted so as to enhance the scientific attitude among the students of Botany. The field trips gave impetus to the thinking and reasoning ability of the students. Different field trips arranged by the department are as follows:

- 1. Visit to CCMB
- 2. Visit to pandavula cheruvu
- 3. Visit to Ganeshpally (jeevamrutham)
- 4. Visit to Mandapally (Dump yard)
- 5. Visit to Urban Park, Gajwel for study of different taxa.





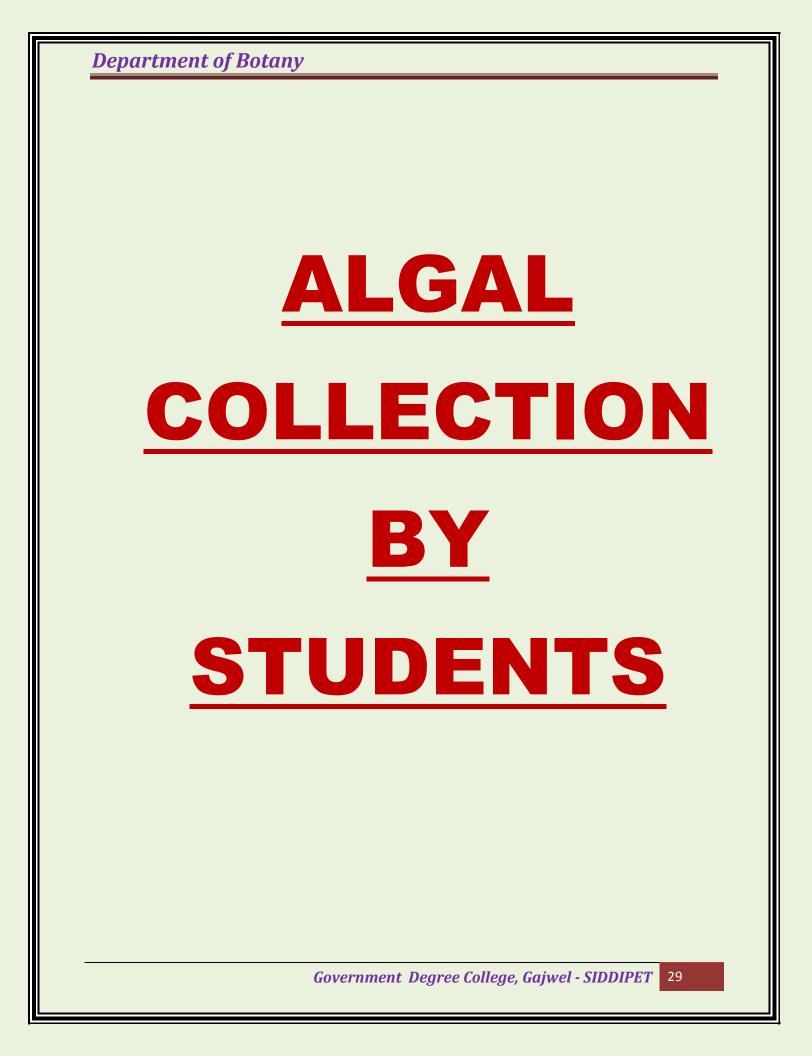
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Department of Botany
STUDENT
ACTIVITIES
Government Degree College, Gajwel - SIDDIPET 31









# FOOD ITEMS DISPLAY BY STUDENTS:-

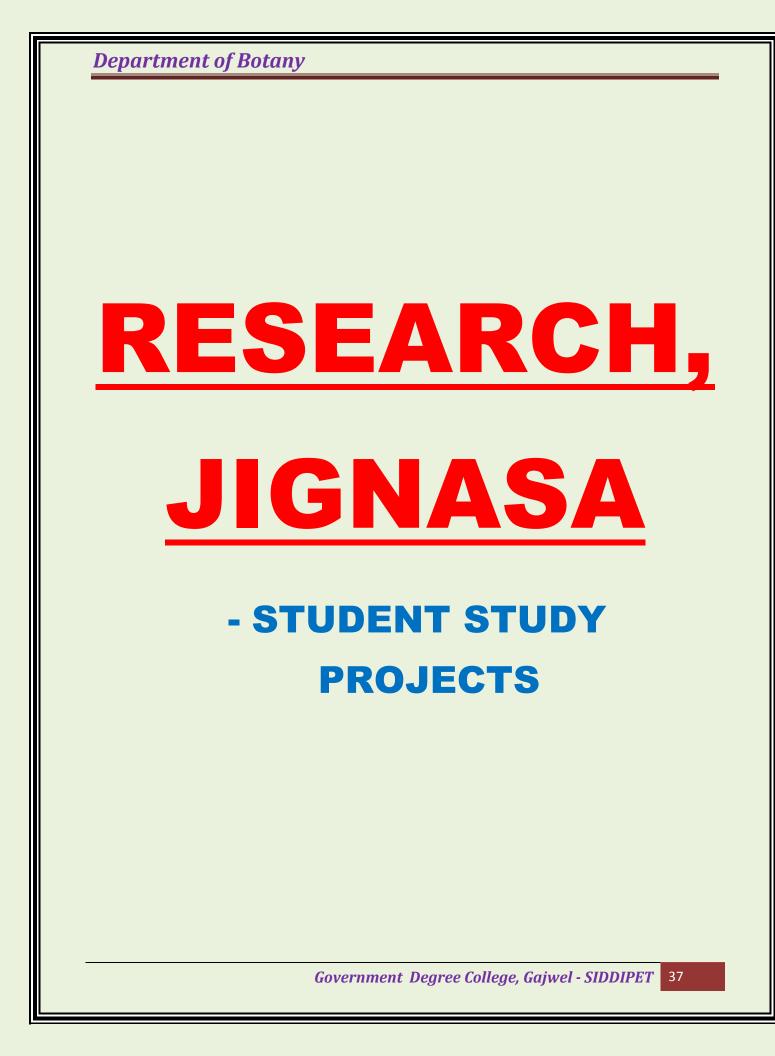


# > WORLD OZONE DAY CELEBRATIONS:-



# ><u>MOVED TOWARDS A PARTHENIUM</u> FREE CAMPUS





### **PROJECT WORKS:**

1. The Dept has been enthusiastically taking up Jignasa students study projects as instructed by CCE and we are proud to have achieved State level 1<sup>st</sup> prize sponsored by RUSA in 2018-19 for the topic "Solid waste management at mandapally" a study and won a cash prize of Rs 30000/-- from commissioner and appreciation certificates for both mentor and students.



### **STUDENTS AT THE MUNICIPAL SOLID WASTE**

### **MANAGEMENT RESOURCE DEVELOPMENT MARK AT**

### **MANDAPALLY:-**









2. The Dept has been enthusiastically taking up Jignasa students study projects as instructed by CCE and we are proud to have achieved State level 1<sup>st</sup> prize Telangana in 2019-20 for over topic "JEEVAMRUTHAM – A BOON FOR FARMERS AND A SUBSTITUTE FOR CHEMICAL FERTILIZERS" a study and won a cash prize of Rs 30000/-- from commissioner and appreciation certificates for both mentor and students.





# STUDENTS AT FIELD FOR THE PREPARATION OF JEEVAMRUTHAM:-









# **PROJECTS TAKEN UP**

I)2017-18

1. Vaccines' play a key role in Reducing our relevance on Antibiotics

2. Uses of medicinal plants in primary health care

3. Air and water pollution in Gajwel village and Industreal Area

II) 2018-19.

1.Astudy on solid waste management in mandapally dump yard Siddipet area

### **REMEDIAL COACHING:**

The faculty of department of Botany conducted several remedial coaching classes to the average and below average students.

Marks scored by the students in the osmania university exams were taken as a criteria in the selection of the students these classes. Internal tests conducted by the department were also taken into consideration for listing the students for remedial classes. Important topics were explained to these students. Material was provided and

needed guidance was given to these students. Even the good students sometimes attended these classes.

### **INFRASTRUCTURE AND LEARNING RESOURCES:**

The college has a well established library and its serves the student 's community by lending the text books and reference books. Apart from the college central library the department of Botany posses a departmental library. This library of department helps the students by lending text books and test papers. The department library also has C.D that caters the need of students by providing audio-visual material.

### **STUDENT SUPPORT AND PROGRESSION:**

The department of Botany stands in forefront in supporting the students in a human approach.

The lectures of the department take special care in counseling the students so that the psychological aspect of the students is touched, there by strengthening them to face the future with confidence.

The department conducts career guidance classes. Previous students of the department who are pursuing post

graduate courses, B.Ed courses are invited to share their experiences with the present students. This experience paves a way for the present students to make a plan of their studies.

Students who are employed are also invited to give guidance to the present students.

Lecturers from different faculties are also invited to give lectures, so that the students of the department are psychologically made strong.



### **ORGANIZATION AND MANAGEMENT:**

The department very often conducts departmental meetings. In the departmental meetings various aspects of the department such as coverage of syllabus, need of extra periods to be taken to cover the syllabus, remedial classes to be taken for the needy students, improving the department infrastructure etc is discussed.

Coverage of the syllabus in the subject with reference to time was one of the main agenda that is discussed very often.

### **INFRASTRUCTURE OF THE DEPARTMENT**

The department was well established with two labs with sufficient equipments. Department purchase required equipments as per the norms of Osmania university and availability of funds provided by the Goverment and UGC. The following equipment is available in the department.

### **Equipment**

The Department has the following equipment for the benefit of the students.

- 1. compound microscopes
- 2.Dissection Microscope
- **3.Electronic Microscope**
- 4. over head projector
- 5. Bio-visual charts
- 6. Refrigerator
- 7. Micro slide Cabinet
- 8. Incubator
- 9. Stop Clock
- 10. Centrifuge
- **11.Vertical Autoclave**
- 12.Slide projector
- 13.Laminar Airflow
- 14.Water bath
- 15.Rectangular water bath



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### **LIST OF AVAILABLE CHARTS IN THE DEPARTMENT**

### l YEAR BZC

### Algae:

- 1. Ectocorpus Brown algae
- 2. Nostoc BGA
- 3. Polysyphonia Red algae
- 4. Vaucheria Yellow Green algae
- 5. Volvox Green algae
- 6. Oedogonium Green algae
- 7. Chara Green algae
- 8. Bacteria Cell -

### Fungi:

- **9**. Puccinia Heterogenous red rust disease
- **10**. Collecto trichum Red rust or sugarcane
- **11**. Peziza Cup fungi
- **12**. Pencilium Blue fungi
- **13**. Albugo White rust

### **Bryophyte:**

- **14.** Anthocerous
- 15. Marchentia Sexual reproduction
- **16.** Polytrichum
- **17.** Sporophytic evolution in Bryophytes

### **Pteriodophytes:**

- 18. Rhynia
- 19. Lycopdium structure
- 20. Stelar evolution
- 21. Equisetum structure
- 22. Marsilea reproduction
- 23. Lycopodium reproduction
- 24. Marsilia structure
- 25. Equisetum reproduction

### Gymnosperms:

- 26. Gnetum structure
- 27. Gnetum Reproduction

Department of Botany
28. Pinus reproduction
29. Pinus needle and stem
ll YEAR BZC
30. Fabaceae
31. Stomatal types
32. Amaranthaceae
33. Annonaceae
34. Asteraceae
35. Rutaceae
36. Lamiaceae
37. Poaceae
38. Asclepiadaceae
39. Euphorbiaceae
40. Mimosaceae
41. Orchidaceae
42. Cucurbitaceae
43. Ceasalpinaceae <i>Government Degree College, Gajwel - SIDDIPET</i> 54

44. Monocot stem-Zeamaize

45. Megasporangium and female gametophyte

- 46. Fertilisation and Embryogeny
- 47. Dicot stem Helianthus
- 48. Microsporangium and male gametophyte
- 49. Monocot embryo development
- 50. Dicot embryo development

### III YEAR BZC

- 51. DNA Structure
- 52. RNA Structure
- 53. Ultra structure of plant cell
- 54. Protein synthesis

### **LIST OF AVAILABLE SPECIMENS IN THE DEPARTMENT**

- 01. Tobacco Mosaic virus
- 02. Bhendi Yellow Vein Clearing
- 03. Papaya leaf curl
- 04. Puccinia rust on wheat
- 05. Puccinia rust on Barberry
- 06. Head smut of sugarcane

- 07. Ergot of Bajra
- 08. Whip smut of sugarcane
- 09. Tikka disease of Ground nut
- 10. Brown leaf spot of rice
- 11. Blast of Rice (Paddy)
- 12. Crustose lichen
- 13. Foliose lichen
- 14. Fruticose lichen
- 15. Marchantia thallus with Gemma cups
- 16. Marchantia thallus with Antheridiopshore
- 17. Marchantia thallus with Archegoniophore
- 18. Anthoceros Thallus
- 19. Anthoceros with Sporophyte
- 20. Polytrichium with Sporophyte
- 21. Lycopodium with cone
- 22. Equisetum with cone
- 23. Marsilea with sporocarp
- 24. Pinus male cone
- 25. Pinus female cone
- 26. Gnetum twig
- 27. Gnetum male cone
- 28. Gnetum female cone

### **LIST OF AVAILABLE SLIDES IN THE DEPARTMENT**

- 01. Albugo conidia
- 02. Albugo oospores
- 03. Saccharomyces vegetative / budding
- 04. Pencillium conidia
- 05. Pencillium ascocarp

- 06. Puccinia uredial stage
- 07. Puccinia telial stage
- 08. Puccinia pycnial stage
- 09. Puccinial aecial stage
- 10. Alternaria conidia
- 11. Marchantia thallus V.S
- 12. Marchantia thallus with Gemma cups
- 13. Marchantia antheridiiophore L .S.
- 14. Marchantia archegoniophore L .S.
- 15. Marchantia sporophyte V.S.
- 16. Anthoceros thallus V.S.
- 17. Anthoceros thallus with antheridia
- 18. Anthoceros Thallus with archegonia
- 19. Anthoceros Sporophyte L.S
- 20. Anthoceros Sporophyte T.S
- 21. Polytrichum Leaf TS
- 22. Polytrichum Stem
- 23. Politrichum Antheridial branch
- 24. Politrichum archegonial branch
- 25. Politrichum capule L.S
- 26. Politrichum protonema
- 27. Rhyna(Fossil slide)
- 28. Lycopodium Strobiuls L.S
- 29. Equisetum strobilus L.S
- 30. Marsilia sporocarp V.S
- 31. Cycadeoidea(Fossil slide)
- 32. Pinus male cone V.S
- 33. Pinus pollen grains
- 34. Pinus female cone V.S
- 35. Pinus ovule V.S

- 36. Gnetum male cone V.S
- 37. Gnetum female coneV.S
- 38. Gnetum ovule V.S

ll year

- 1. Anther W.M
- 2. Microsporangous tissue( Anther T.S)
- 3. Dicot Embryo T.S
- 4. Monocot Embryo T.S
- 5. OrthotropousOvule
- 6. Anatropous Ovule
- 7. Campylotropous Ovule
- 8. Hibiscus Pollen
- 9. Acacia Pollen
- 10. Grass Pollen
- 11. Ocimum Pollen

## **DEPARTMENTAL LIBRARY:**

Depatmental library has text books as well as reference books.Department maintains paper clipping of the subject Question papers and study materials to strengthen the knowledge of the students the department library as books covering different aspects of botany such asmicrobes algae,fungi,bryophyte,petridophyta,Gymnosperms,Angiosperms Physiology,Genetics,Evolution,Ecology,Embryology,Tissue Culture and Bio-Technology.

S.No	Name of the Faculty	Designations	Teaching Experience As on 31-12-2019
01	Rafia khanam, M.Sc ,M.Phil , SLET	Assistant professor	20 Years
02	G.Uvaraju, M.Sc ,SET ,B,Ed	Lecturer	7 Years

### List of teaching Staff in the Department

### List of Non-Teaching Staff in the Department

Name of the N.T.staff	Designation	Qualification	Experience	Sex
K.Durgavva	Herbarium keeper	10th	8 years	Female

### **DEPARTMENT OF BOTANY TIME TABLE**

### **FOR THE YEAR 2018-19**

Period &Time	I	II	111	IV		v	VI	VII
Day	10-10:50	10:50-11:40	11:40- 12:30	12:30-1:20		2:00-2:50	2:50- 3:40	3:40- 4:30
Monday		III BZC Practical R	III BZC Practical R	III BZC Theory R III BZC Theory U.V.	L	l Practical U.V.	l Practical U.V.	l Practical U.V.
Tuesday	l Theory U.V.	III Practical R	III Practical R III Theory U.V.	III Theory R	U	l Practical U.V. II Theory U.V.	Practical U.V.	l Practical U.V.
Wednesday	ll Practical U.V.	II Practical U.V. I Theory U.V.			N	III Theory R II Theory U.V.		III Theory R
Thursday	ll Practical U.V.	II Practical U.V. I Theory U.V.	III Theory R		С	III Practical R	III Practic al R	l Theory U.V. II Theory U.V.
Friday	III Theory R	l Theory U.V.	ll Theory U.V.		н			
Saturday	III Practical R		ll Theory U.V.			III Practical R	III Practial R I Theory U.V.	

### **TIME TABLE FOR THE ACADEMIC YEAR 2019-20**

PERIOD	I	11	III	IV	LUNCH BREAK	V	VI	VII
TIMINGS/ DAY	10-10:50 AM	10:50- 11:40 AM	11:40- 12:30 PM	12:30- 1:20 PM	1:20-2 PM	2-2:50 PM	2:50-3:40 PM	3:40- 4:30 PM
MONDAY		III YR B.Z.C PRACTICALS		III YR THEORY	LUNCH BREAK	I YR PRACTICALS		I YR THEOR Y
TUESDAY	I YR THEORY	III YR MBC PRACTICALS		III YR THEORY	LUNCH BREAK		II YR THEORY	
WEDNES DAY	II YR MBC	PRACTICALS			LUNCH BREAK	III YR THEORY		
THURSDA Y	II YR BZC	PRACTICALS	III YR THEORY		LUNCH BREAK		R MBC CTICALS	II YR THEOR Y
FRIDAY	III YR THEORY		I YR THEORY	II YR THEORY	LUNCH BREAK			I YR THEOR Y
SATURDA Y	III YR THEORY		II YR THEORY		LUNCH BREAK	III YR BZC PRACTICALS		

### **TIME TABLE FOR THE ACADEMIC YEAR 2020-21**

PERIOD	I	II	111	IV	LUNCH BREAK	V	VI	VII
TIMINGS/ DAY	10-10:50 AM	10:50- 11:40 AM	11:40- 12:30 PM	12:30- 1:20 PM	1:20-2 PM	2-2:50 PM	2:50-3:40 PM	3:40- 4:30 PM
MONDAY		III YR B.Z.C P	RACTICALS	III YR THEORY	LUNCH BREAK	I YR PR	I YR PRACTICALS	
TUESDAY	I YR THEORY	III YR MBC P	III YR MBC PRACTICALS		LUNCH BREAK		II YR THEORY	
WEDNES DAY	II YR MBC	PRACTICALS			LUNCH BREAK	III YR THEORY		
THURSDA Y	II YR BZC	PRACTICALS	III YR THEORY		LUNCH BREAK		R MBC CTICALS	II YR THEOR Y
FRIDAY	III YR THEORY		I YR THEORY	II YR THEORY	LUNCH BREAK			I YR THEOR Y
SATURDA Y	III YR THEORY	Y II YR THEORY			LUNCH BREAK		YR BZC CTICALS	

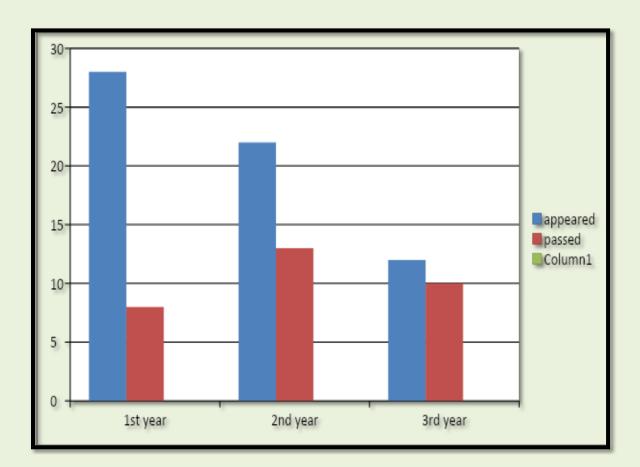
# **PERFORMANCE**

# OF THE STUDENTS:

### RESULT ANALYSIS:-

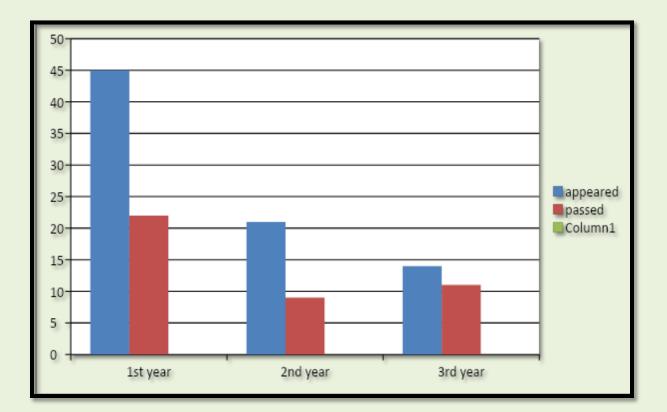
### Progression Analysis-2014-15

	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	Remarks
strength	28	22	12	
appeared	28	22	12	
passed	08	13	10	
Pass%	36%	60%	83%	



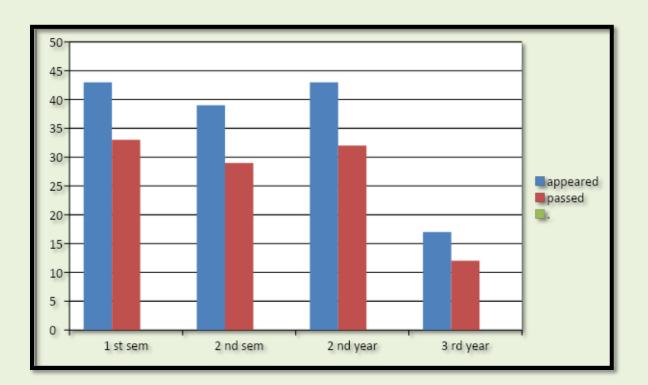
### Progression Analysis-2015-16

	1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	Remarks
strength	45	21	14	
appeared	45	21	14	
passed	22	09	11	
Pass%	49%	43%	79%	



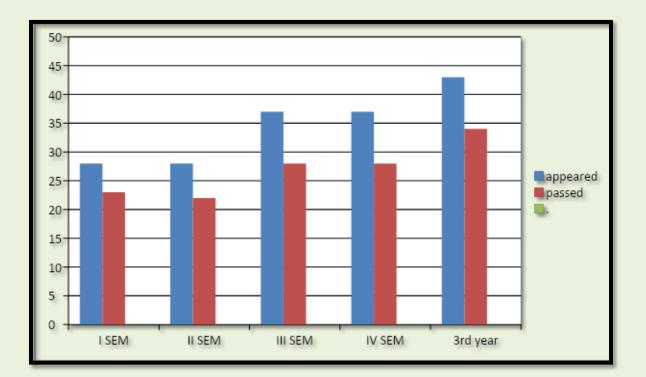
### Progression Analysis-2016-17

	1 <sup>st</sup> year		2 <sup>™</sup> year	3 <sup>rd</sup> year	Remarks
	I SEM	II SEM			
strength	43	39	43	17	
appeared	43	39	43	17	
passed	33	29	32	12	
Pass%	76%	74%	74.4%	70.5%	



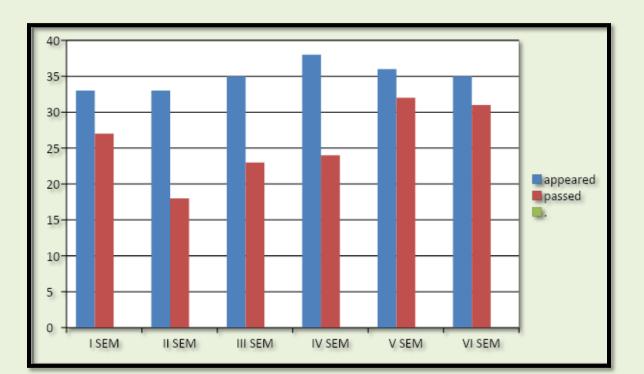
### Progression Analysis-2017-18

	1 <sup>st</sup> year		2 <sup>nd</sup> y	/ear	3 <sup>r</sup> d year	Remarks
	I SEM	II SEM	III SEM	IV SEM		
strength	28	28	37	37	43	
appeared	28	28	37	37	43	
passed	23	22	28	28	34	
Pass%	82%	78%	75%	75%	79%	



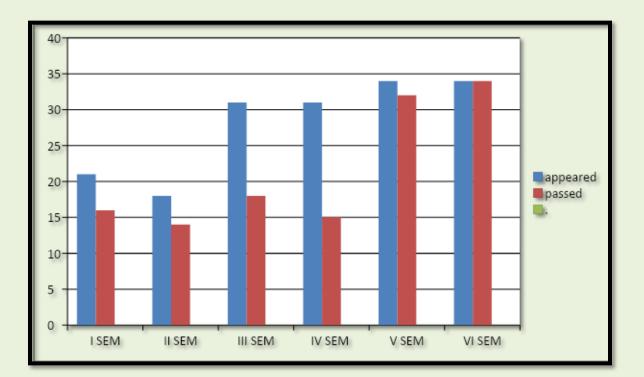
### Progression Analysis-2018-19

	1 <sup>st</sup> year		2 <sup>nd</sup> )	2 <sup>nd</sup> year		ar	Remarks
	I SEM	II SEM	III SEM	IV SEM	V SEM	VI SEM	
strength	33	33	35	38	36	35	
appeared	33	33	35	38	36	35	
passed	27	18	23	24	32	31	
Pass%	81%	54%	65%	63%	88%	88%	





	<b>1</b> <sup>st</sup> year		2 <sup>nd</sup>	2 <sup>nd</sup> year		ar	Remarks
	I SEM	II SEM	III SEM	IV SEM	V SEM	VI SEM	
strength	21	18	31	31	34	34	
appeared	21	18	31	31	34	34	
passed	16	14	18	15	32	34	
Pass%	76%	77%	58%	48%	94%	100%	



### **TEACHING LEARNING AND EVALUTION**

#### **TEACHING:**

Yearlong Annual Teaching is prepared for Teaching.Faculty members takes the classes according to time table. Seminars,Group discussions,Quiz programs are added to supplement the normal teaching practices.For better understanding,charts,ppts are used as teaching aids.

#### **LEARNING:**

To encourage independent learning in addition to class room learning, some study projects are undertaken. Assignments are given to increase the student learning capacity.model questions for PG entrance are also discussed. To make the students acquire additional knowledge, gust lectures are arranged.

#### **EVALUATION:**

This is an important process of feedback from student through which the faculty member will assess the level of understanding of the students with regard to the subject and ability of subject reproduction. This is done regular conduct of tests. This will reveal the difference between the slow and advanced learners. This will enable the lectures to conduct remedial classes for the slow learners and assigning project works bright students. The marks secured by the students are maintained in a register. For slow learners remedial classes are taken.

# **CIRRICULUM**



### **CURRICULUM VITAE OF RAFIA KHANAM**

RAFIA KHANAM Assistant Professor and Head Department of Botany Government Degree College, Gajwel Siddipet (Dt) – 502103, India.



Name	:	RAFIA KHANAM
Designation	:	Assistant Professor
Department	:	Botany
Institute	:	Government Degree College, Gajwel
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Sex	:	Female
Educational Qualification	: 46	M.Sc. (Botany), M.Phil. (Education).
Teaching Experience :		and the second second
For Undergraduate Students (B.Sc)	÷	6 years
Scholarly work:		and the second sec
National Seminars & Conferences Attended		11
Refresher & Orientation Courses Attended	:	09
Jignasa Project Guided	: 1	01+02
Books Published (Editorial Board)	:	01

# **CONFERENCE AND SEMINARS ATTENDED:**

- Participated in Two Day National Seminar on Food Safety , Quality & Policy
- organized by Dept. of Microbiology , GDC(M) Gajwel , Siddipet (June 2018 ).
  Poster Presentation in Two Day National Conference on <u>Plant Science research:</u>
- Poster Presentation in Two Day Handback <u>Current Status and Future Challenges</u> organized by University College for Women, Kothi (December 2017).
- Participated in National workshop (<u>Katharachana Mariyu Patarachana</u>) organized by Telugu Dept. GDC (M) Gajwel (November 2017).
- Participated in Two Day National Seminar on <u>Impact of Empowerment</u>
   <u>Programme on Rural Development</u> in India organized by GDC (M) Gajwel,
   Department of Economics (November 2017).
- Poster Presentation in <u>Innovative Approaches for Sustainability in Production &</u> <u>Promotion of Utilization</u> organized by Innovative Cell, University College for Women, Kothi, Hyderabad (October 2016).
- Participated in State level Seminar on <u>New Frontiers in Bio diversity &</u> <u>Conversation of Medicinal Plants</u> organized by GDC(W) Begumpet, Department of Microbiology (March 2016).
- Participated in National Conference on <u>Advances in Insect vector Control &</u> <u>Applied Biology</u> organized by Nizam College (A),O.U,Hyderabad (February 2015).
- Participated in Two Days UGC Seminar on <u>Quli Qutub Shah</u> organized by Dept. of Urdu, GDC(W) Jagtial, Karimnagar (October 2014).
- Participated in National Seminar on <u>Recent development in Biological Sciences</u> organized by Dept. of Zoology, GDC Siddipet (August 2014).
- Presented a Paper entitled <u>Control of Water Pollution</u> in National Seminar on Pollution Control & Management organized by Dept. of Chemistry, GDC(W) Hussainialam, Hyd (January 2014).
- Participated in National Seminar on <u>Emerging Trends in Microbial Biotechnology</u> organized by SRR College(Karimnagar) Dept. of Microbiology (January 2014).

# REFRESHER AND ORIENTATION COURSES:-

- Attended the training program titled <u>Management of Educational</u> Institutions at Dr. MCR HRD Institute of Telangana (May 2017).
- Participated as Master Trainer in <u>Gender Sensitization Course</u> organized by RUSA (December 2016).
- Participated in Two Day training program on <u>CHETANA</u> orientation on Gender Sensitization Course organized by RUSA (June 2016).
- Participated in training program on <u>NIPUNA</u> organized by RUSA (April 2016).
- Participated in Three Day Refresher Workshop on <u>HVPE</u> at IIIT, Hyd (April 2016).
- Participated in Refresher Course in <u>Life Sciences</u> organized by UGC-HRDC; ASC, O.U (January 2016).
- Attended a Review meeting on <u>HVPE</u> at Government City College, Hyd organized by Commissionerate of Collegiate Education (September 2013).
- Attended a Three Day District Level Training program on <u>HVPE</u> at SRR College, GDC (Karimnagar) (July 2013).
- Participated in UGC Sponsored <u>Orientation program</u> at UGC-ASC, MANUU (June 2013).

# WORKSHOPS:-

- Attended Workshop on <u>Prevention of Atrocities on Women-</u> <u>Challenges & Strategies</u> conducted on 5<sup>th</sup> March 2013 at Women Empowerment Cell, SRR Govt. Degree & P.G College, Karimnagar.
- Participated in National Workshop on Concepts of Plant Taxonomy organized by Department of Botany, Nagarjuna Govt. College, Nalgonda, Telangana (February 2016).

# EXTENSION ACTIVITIES:-

 Delivered an extension lecture at Telangana Social Welfare Residential Degree College (W), Karimnagar in Botany & Gender Sensitization (April 2017).

### CURRICULUM VITAE OF GADDAM UVARAJU

GADDAM U	VARAJU
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Lecturer in Bio technology

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Teaching experience :8 years

Scholarly work:

National Seminars Attended:02

Jignasa project Guided: 01



# BEST **PRACTICES-**DEPARTMENT **OF BOTANY**

### **BEST PRACTICE – I DEPARTMENT OF BOTANY**

I. TITLE OF THE PRACTICE: "Jeevamrutham" - A bio fertilizer, substitute for chemical fertilizer and a boon for farmers.

II. OBJECTIVES OF THE PRACTICE: The practice has been effectively implemented with the following objectives:-

a) To inculcate the research attitude among students.

b) To prepare fertilizers which are eco-friendly low cost and locally available.

c) To help the farmers who have less awareness about organic farming.

d) To improve soil content it's richness.

e) To save the environment.

III. THE CONTEXT: Gajwel mandal basically an agricultural land. Our students of BSC(BZC) group also from agricultural background with a basic knowledge about the preparation of "Jeevamrutham" with locally available ingredients and a simple procedure to follow ingredients required.

a) Cow dung-10kgs

- b) Cow urine-5litres
- c) Jiggery-3kgs
- d) Pulses powder-3kgs
- e) Ant hills-soil-1kg
- f) Water-200litres
- g) Drum barrel-200litres

All ingredients are mixed and kept for 9-12 days with water in a barrel for the period mentioned above which should be stirred day and night. After the estimated period the mixture becomes a good source of organic fertilizer which can either be sprayed (sprinkled or dripped).

The practice uniqueness: The practice is unique because it is prepared from only locally available materials, much knowledge is not required by the farmers.

**Paves the way for organic farming.** 

**Can be used for all crops.** 

**RESULTS:** When compared with other fertilizers this one yields a good microbial growth.

**Retains soil fertility.** 

**2** Saves soil content.

**P** Enhances the growth of the earthworms.

**RESOURCES REQUIRED:** 

Decal bodies can promote the more and more awareness.

**P** Needs to be linked up with agricultural market.

Production of organic vegetables and its promotion can be done upto super markets in the city.

### BEST PRACTICE-II-DEPARTMENT OF BOTANY

I. Title of the practice:- A study on the solid waste management and its

utilization.

II. Objectives of the practice:- The practice has been implemented with the

following objectives.

a. To make the students aware of the proper disposal of the waste.

b. The waste dumped is useful as bio-fertilizers.

c. The collected waste may be recycled.

d. The waste is processed to yield economic products like bio-gas and

bio-manure.

e. The proper disposal of the waste keeps away stinking problems.

III. The context:- Students of BSC group along with the staff members of the Dept. of botany did a field survey at resource park, Mandapally, 10kms away from Siddipet and collected all the data from dump yard. It was found that the collected waste is segregated into dry and wet. **Dry items are sold out. Wet waste is kept in heaps.** These heaps in turn are processed for 3 different purposes of making of: a. Vermin compost b. Decomposing c. Bio-gas It is a 5-step process: Step I- Curing of heaps. Step II- formation of black color compost. Step III- Cutting of compost in small pieces. Step IV- Mixing of earthworms. Step V- Compost ready to be sold out(Rs 5/kg). The practice-uniqueness:- A novel idea introduced by municipality was brought out into society at both campus level and household level. Awareness is given continuously to all institutions at campus where pits measuring 3\*3 feet can be dug and daily household wastes can be done, they are mixed with earthworms and curing is done for 100 days. In our campus hostel building is in vogue for this practice and they are preparing compost like this and utilizing for plants, which is a good source of bio-fertilizers. Such compost is rich in nutrients too.

Resources required:- More awareness should be bought by the municipality to

the general public.

**P** Agricultural market, co-operatives can also cater to the program.

**The farmers should be encourased for vermin-compost.** 

**2** The utility of bio-gas should be explained to the people.

**People should be advised to separate dry and wet waste.** 

Follow up work:- Awareness program is done in our campus institutions to dig up

their pits in the building and prepare the compost with left over's and the

program is in continuous practice too.