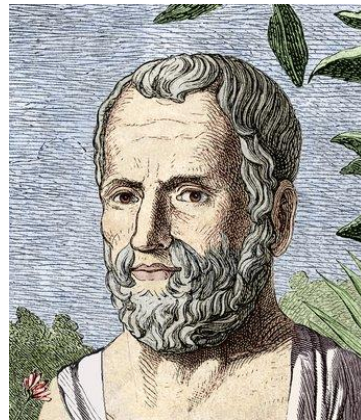


DEPARTMENT OF BOTANY

**Government Degree College for Men
WANAPARTHY, TELANGANA STATE.**



DEPARTMENT OF BOTANY Department Profile



THEOPHRASTUS
The Father of Botany



***SAVE THE PLANTS... SAVE THE EARTH
PLANT A TREE... FOR A HEALTHY LIFE***

***Plants are the factories that give life to all
lives on the Earth***

**Government Degree College Co-Ed,
Wanaparthy, Telangana State.
(Affiliated to Palamuru University, Mahabubnagar)**

DEPARTMENT OF BOTANY



Smt. K. Sunitha Bai, M.Sc., B. Ed., Lecturer.

SALIENT FEATURES OF THE DEPARTMENT OF BOTANY

- The Department was established in the year 1974.
- The performance in University exams is far better than the average of University results.
- Study Projects and Assignments are given to the students.
- Conducting Student Seminars on important topics.
- Conducting the Quiz Programmes and Group Discussions.
- Counseling is given to the students so that they overcome personal as well as carrier problems.
- The Department Library is maintained.
- Guest Lectures and Extension Lectures are arranged for the students.
- Conducting Remedial Classes for slow learners who get least marks in subject.
- The Department is conducting a certificate course on soil testing and pH analysis.
- The Department is conducting coaching for the Post Graduation entrance test and Ed.CET with supplying study material.
- The Department is conserving botanical garden (65 x 65 fts) with good ornamental and valuable medicinal plants in th college ground with QR codes.
- The Department has one staff room and two laboratories with well equipped.

ABOUT THE DEPARTMENT OF BOTANY

The college was established in the year 1974. The department of BOTANY was started with B.Sc, BZC (Botany, Zoology, and Chemistry) in 1974. Previously the department of Botany under the OSMANIA UNIVERSITY up to 2010, after 2010-2011 academic years the department converted to PALAMURU UNIVERSITY. At present the student strength of the department is 180

Faculty Profile

At Present 01 faculty member is working in the department.

| S.No | Name of the Lecturer | Designation | Experience |
|-------------|-----------------------------|--------------------|-------------------|
| 1 | Smt. K.Sunitha bai | Lecturer | 14 years |

Faculty Bio- Data

NAME: K.SUNITHA BAI

Father name: K Gopal Rao

Gender: Female

Date of birth: 09-04-1982

Residential Address: H.no.999-44-Ra0028, Wanaparthy Dist.

Contact number: 8639373420

Email id: sunithakadigekari@gmail.com

Education Qualifications: M.Sc., B. Ed

Designation: Lecturer in Botany

Date of joining: 15-11-2007

Teaching experience: 14 Years.

Name: K.Suunitha bai

Completed M.Sc. from Osmania University, Hyderabad.

- Have 14 Years of teaching experience
- Convener – Eco Club
- Convener – Students grievance redressal cell
- Member – Women empowerment cell
- In charge – Botanical garden.(Size: 60 x 60 sqfts)



Courses Offered:

B.Sc; (Botany, Zoology, Chemistry)

Telugu Medium & English Medium

Time Table

Department of BOTANY

Academic Year-2021-2022

| Government Degree College for Men, Wanaparthi-509103. | | | | | | | | | |
|-----------------------------------------------------------------------------|--------|-------------------|-------------------|-------------------|---------------------|-----------------|-----------------|-----------------|----------------|
| Time Table for B.Sc (BZC) - I Yr, II Yr & III Yr : 2021 - 2022 | | | | | | | | | |
| DAY | Year | I Period | II Period | III Period | 01:00 To 1:30 | IV Period | V Period | VI Period | LUNCH BREAK |
| | | 10:00 to 11:00 | 11:00 to 12:00 | 12:00 to 01:00 | | 1:30 to 2:30 | 2:30 to 3:30 | 3:30 to 4:30 | |
| | | | | | | | | | |
| MONDAY | I Yr | BOTANY | | | | B 1 Practical | | | |
| | II Yr | | | BOTANY | | | | | |
| | III Yr | | | | | | | | |
| TUESDAY | I Yr | BOTANY | | | | B 2 Practical | | | |
| | II Yr | | | BOTANY | | | | | |
| | III Yr | | | | | | | | |
| WEDNESDAY | I Yr | BOTANY | | | | B 3 PRACTICAL | | | |
| | II Yr | | | | | BOTANY | | | |
| | III Yr | | BOTANY | | | | | | |
| THURSDAY | I Yr | | | | | BOTANY | | | |
| | II Yr | B 1 PRACTICAL | | | | | | | |
| | III Yr | | | BOTANY | | B 1 Practical | | | |
| FRIDAY | I Yr | | | | | | | | |
| | II Yr | B 2 PRACTICAL | | | | BOTANY | | | |
| | III Yr | | | BOTANY | | B 2 PRACTICAL | | | |
| SATURDAY | I Yr | | | | | | | | |
| | II Yr | B 3 PRACTICAL | | | | | | | |
| | III Yr | | | BOTANY | | B 3 PRACTICAL | | | |

Student particulars category wise for the year 2014-15 to 2018-19

Academic Year : 2014 - 2015

| SL. No | GROUP | Medium | Boys | Girls | SC | ST | BC | OC | TOTAL |
|--------|--------------|--------|------|-------|----|----|----|----|-------|
| 1 | I B.Sc BZC | EM | 34 | 18 | 17 | 4 | 31 | 0 | 52 |
| 2 | I B.Sc BZC | TM | 51 | 00 | 18 | 01 | 32 | 0 | 51 |
| 3 | II B.Sc BZC | EM | 48 | 23 | 37 | 2 | 32 | 0 | 71 |
| 4 | II B.Sc BZC | TM | 67 | 00 | 33 | 02 | 32 | 0 | 67 |
| 5 | III B.Sc BZC | EM | 34 | 17 | 19 | 04 | 26 | 02 | 51 |
| 6 | III B.Sc BZC | TM | 65 | 00 | 27 | 08 | 28 | 02 | 65 |

Academic Year: 2015 - 2016

| | | | | | | | | | |
|---|--------------|----|----|----|----|----|----|----|----|
| 1 | I B.Sc BZC | EM | 30 | 51 | 29 | 05 | 43 | 04 | 81 |
| 2 | I B.Sc BZC | TM | 59 | 00 | 15 | 00 | 42 | 02 | 59 |
| 3 | II B.Sc BZC | EM | 29 | 20 | 18 | 04 | 19 | 00 | 42 |
| 4 | II B.Sc BZC | TM | 48 | 00 | 23 | 02 | 23 | 00 | 48 |
| 5 | III B.Sc BZC | EM | 44 | 23 | 35 | 13 | 29 | 00 | 67 |
| 6 | III B.Sc BZC | TM | 57 | 00 | 28 | 13 | 26 | 00 | 57 |

Academic Year : 2016 - 2017

| | | | | | | | | | |
|---|--------------|----|----|----|----|----|----|----|----|
| 1 | I B.Sc BZC | EM | 18 | 38 | 23 | 04 | 26 | 03 | 37 |
| 2 | I B.Sc BZC | TM | 37 | 00 | 06 | 00 | 30 | 01 | 56 |
| 3 | II B.Sc BZC | EM | 17 | 23 | 10 | 05 | 25 | 00 | 40 |
| 4 | II B.Sc BZC | TM | 31 | 15 | 11 | 04 | 31 | 00 | 46 |
| 5 | III B.Sc BZC | EM | 16 | 16 | 14 | 04 | 14 | 00 | 32 |
| 6 | III B.Sc BZC | TM | 38 | 00 | 16 | 01 | 21 | 00 | 38 |

Academic Year : 2017 - 2018

| | | | | | | | | | |
|---|--------------|----|----|----|----|----|----|----|----|
| 1 | I B.Sc BZC | EM | 21 | 29 | 11 | 03 | 32 | 04 | 50 |
| 2 | I B.Sc BZC | TM | 31 | 25 | 15 | 04 | 37 | 00 | 56 |
| 3 | II B.Sc BZC | EM | 17 | 14 | 8 | 04 | 18 | 01 | 31 |
| 4 | II B.Sc BZC | TM | 22 | 09 | 08 | 03 | 20 | 00 | 31 |
| 5 | III B.Sc BZC | EM | 20 | 35 | 24 | 04 | 25 | 02 | 55 |
| 6 | III B.Sc BZC | TM | 29 | 00 | 06 | 00 | 22 | 00 | 29 |

Academic Year : 2018 – 2019

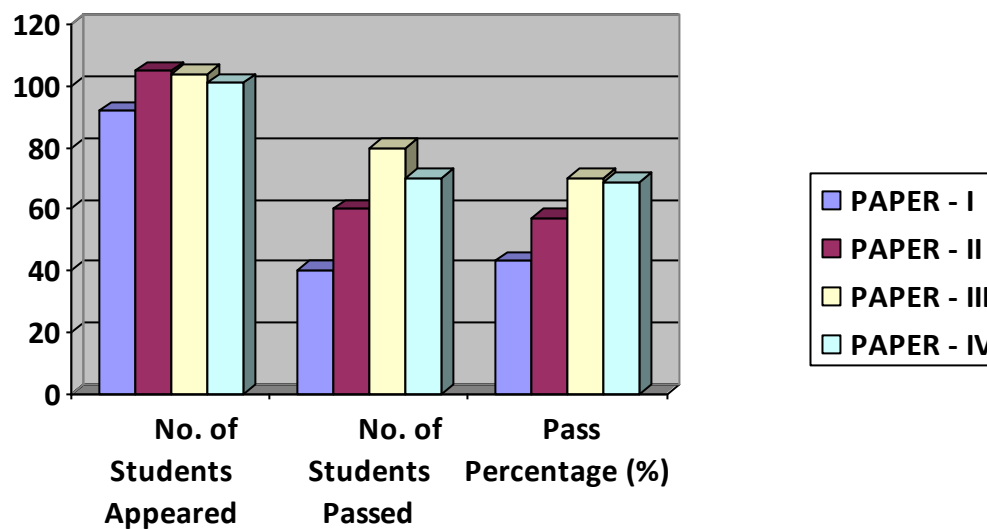
| | | | | | | | | | |
|---|--------------|----|----|----|----|----|----|----|----|
| 1 | I B.Sc BZC | EM | 46 | 13 | 14 | 17 | 36 | 03 | 59 |
| 2 | I B.Sc BZC | TM | 37 | 18 | 12 | 02 | 41 | | 55 |
| 3 | II B.Sc BZC | EM | 19 | 22 | 01 | 01 | 29 | 04 | 41 |
| 4 | II B.Sc BZC | TM | 15 | 18 | 10 | 02 | 21 | 00 | 31 |
| 5 | III B.Sc BZC | EM | 14 | 19 | 09 | 04 | 18 | 01 | 32 |
| 6 | III B.Sc BZC | TM | 20 | 09 | 08 | 04 | 17 | 00 | 29 |

RESULT ANALYSIS

Academic Year 2014-15

| Paper | No. of Students Appeared | No. of Students Passed | Pass Percentage (%) |
|-------------|--------------------------|------------------------|---------------------|
| PAPER - I | 92 | 40 | 43 |
| PAPER - II | 105 | 60 | 57 |
| PAPER - III | 104 | 80 | 70 |
| PAPER - IV | 101 | 70 | 69 |

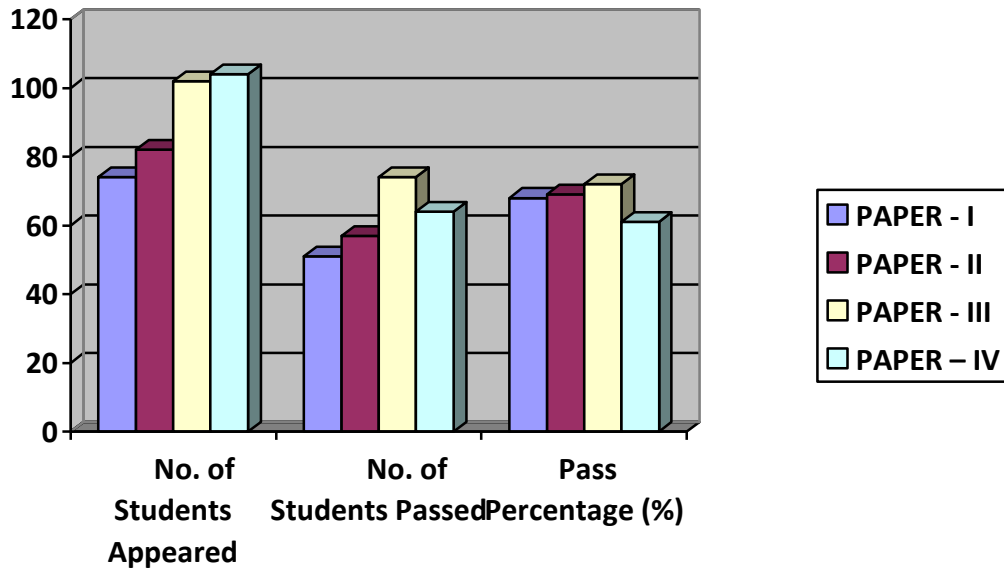
Graphical Presentation.



Academic Year 2015-16

| Paper | No. of Students Appeared | No. of Students Passed | Pass Percentage (%) |
|-------------|--------------------------|------------------------|---------------------|
| PAPER - I | 74 | 51 | 68 |
| PAPER - II | 82 | 57 | 69 |
| PAPER - III | 102 | 74 | 72 |
| PAPER - IV | 104 | 64 | 61 |

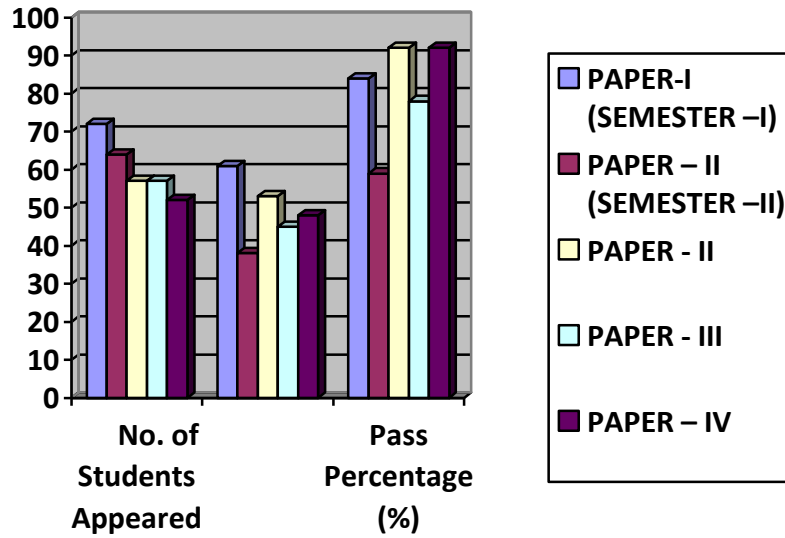
Graphical Presentation.



Academic Year 2016-17

| Paper | No. of Students Appeared | No. of Students Passed | Pass Percentage (%) |
|------------------------------|--------------------------|------------------------|---------------------|
| PAPER-I (SEMESTER -I) | 72 | 61 | 84 |
| PAPER – II (SEMESTER -II) | 64 | 38 | 59 |
| PAPER - II | 57 | 53 | 92 |
| PAPER - III | 57 | 45 | 78 |
| PAPER – IV | 52 | 48 | 92 |

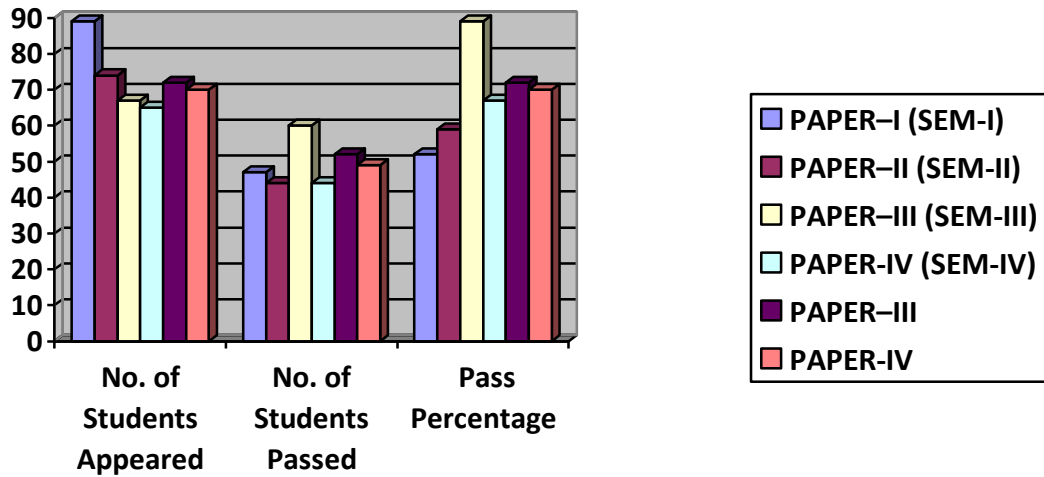
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Academic Year 2017-18

| Paper | No. of Students Appeared | No. of Students Passed | Pass Percentage |
|---------------------|--------------------------|------------------------|-----------------|
| PAPER-I (SEM-I) | 89 | 47 | 52 |
| PAPER-II (SEM-II) | 74 | 44 | 59 |
| PAPER-III (SEM-III) | 67 | 60 | 89 |
| PAPER-IV (SEM-IV) | 65 | 44 | 67 |
| PAPER-III | 72 | 52 | 72 |
| PAPER-IV | 70 | 49 | 70 |

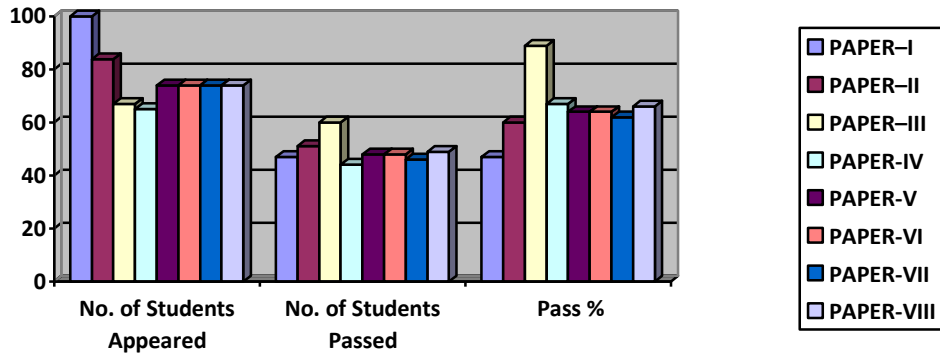
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Academic Year 2018-19

| Paper | No. of Students Appeared | No. of Students Passed | Pass % |
|------------|--------------------------|------------------------|--------|
| PAPER-I | 100 | 47 | 47 |
| PAPER-II | 84 | 51 | 60 |
| PAPER-III | 67 | 60 | 89 |
| PAPER-IV | 65 | 44 | 67 |
| PAPER-V | 74 | 48 | 64 |
| PAPER-VI | 74 | 48 | 64 |
| PAPER-VII | 74 | 46 | 62 |
| PAPER-VIII | 74 | 49 | 66 |

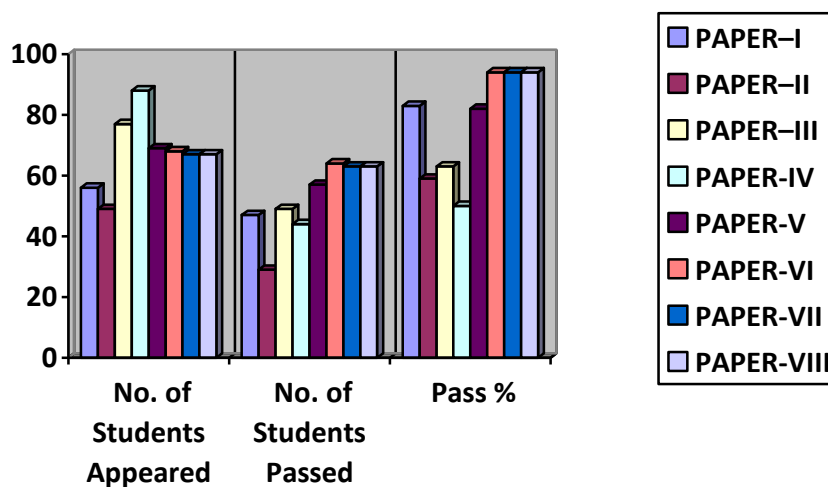
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Academic Year 2019-2020

| Paper | No. of Students Appeared | No. of Students Passed | Pass % |
|------------|--------------------------|------------------------|--------|
| PAPER-I | 56 | 47 | 83 |
| PAPER-II | 49 | 29 | 59 |
| PAPER-III | 77 | 49 | 63 |
| PAPER-IV | 88 | 44 | 50 |
| PAPER-V | 69 | 57 | 82 |
| PAPER-VI | 68 | 64 | 94 |
| PAPER-VII | 67 | 63 | 94 |
| PAPER-VIII | 67 | 63 | 94 |

Graphical Presentation



DEPARTMENTAL ACTIVITIES

CURRICULAR ASPECTS

- We follow the syllabus framed by Palamuru University, Mahbubnagar,
- Improvement of syllabus is done by incorporating the additional inputs.
- Annual curriculum plan is prepared in the beginning of the academic year based on the Academic calendar supplied by the Commissionerate of Collegiate Education.
- In entire B.Sc (BZC) course, there are 06 papers theory each of 80marks and 06 practical papers each of 25 marks. Internal papers each of 20 marks.

The syllabus is listed below.

| Semester | Paper | Syllabus |
|-----------------|--------------|--------------------------------------------------|
| Semester I | I | Microbial Diversity and Lower Plants |
| Semester II | II | Gymnosperms, Taxonomy of Angiosperms and Ecology |
| Semester III | III | Plant Anatomy and Embryology |
| Semester IV | IV | Cell Biology, Genetics & Plant Physiology |
| Semester V | V | Cell Biology and Genetics |
| | VI | Ecology and Biodiversity |
| Semester VI | VII | Plant Physiology |
| | VIII | Tissue Culture and Biotechnology |

TEACHING, LEARNING AND EVALUATION

- Department of Botany follows the syllabus and other curricular aspects framed by Palamuru University, Mahabubnagar.
- Students are encouraged to participate in Class room Seminars, Quiz programmes and Group discussions.
- Further they are guided to do some projects to strengthen their application skills in the subject required during their study.
- The students are encouraged to take active part in extra-curricular activities like campus clean and green programme.

TEACHING:

- The teaching involves mainly Lecture, Inductive and Deductive methods.
- In the beginning of each academic year the annual academic plans are prepared by each lecturer.
- Teaching diary and teaching notes are maintained by every staff member.
- Students are encouraged to participate in seminars, quiz and group discussions conducted by lecturers in their respective classes.
- The educationally backward students in each class are identified and are given remedial coaching.
- The students have been encouraged to collect different clippings related to the subject from newspapers and magazines.
- The department makes use of teaching aids such as charts, models, specimens, Power Point presentation, Digital Boards and also MANA TV programmes.

LEARNING:

- The students are encouraged to read textbooks from the college main library and they discuss difficult topics with the staff members.
- Slow learners are identified and given remedial classes.
- Average students are encouraged to write assignments on the topics useful for the examinations.
- The bright students are encouraged to undertake study projects.

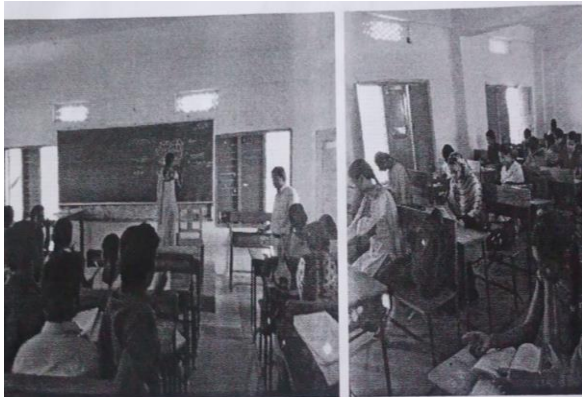
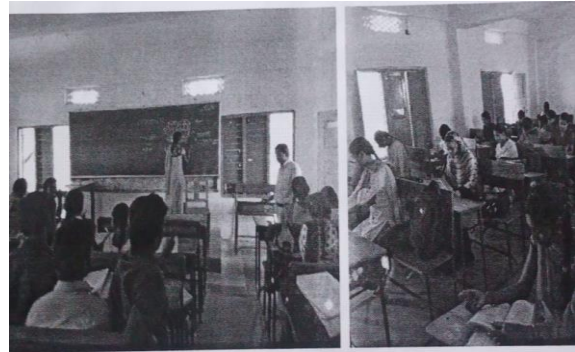
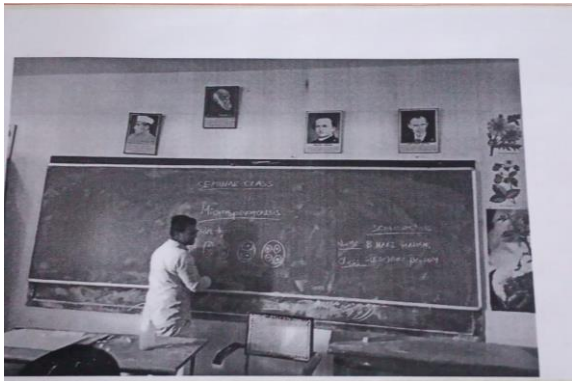
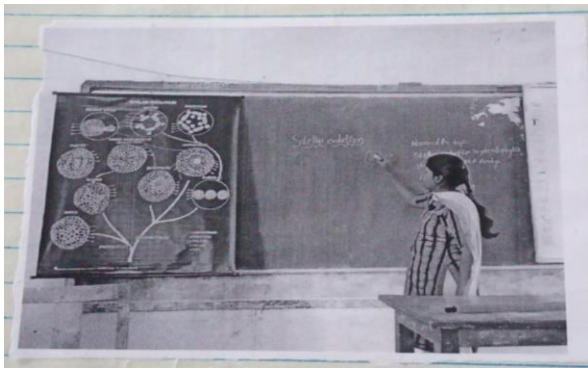
EVALUATION:

- The performance of the students evaluated through unit tests, half yearly exams and Internal Exams. The pre-final examination at the end of the academic year improves final performance level of the students.
- The performance of students is also evaluated by the following programmes.
 - **Student Seminars**
 - **Quiz Programmes**
 - **Group Discussions**
 - **Assignments**

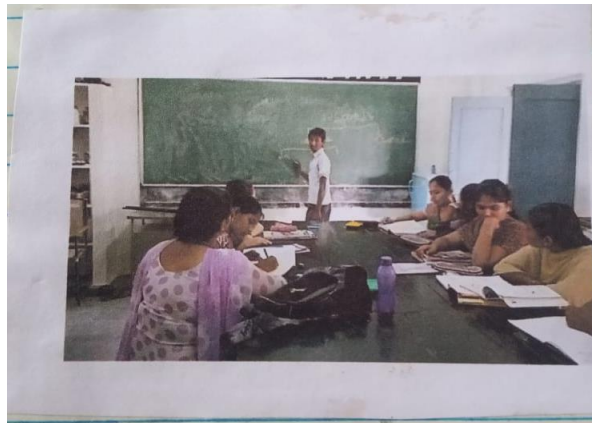
STUDENT SEMINARS:

- To improve the presentation skills of the students, we are arranging the class room seminars regularly.
- The topics of seminar are given in advance to the students and the lecturer will guide them to present the seminar

| DETAILS OF STUDENT SEMINARS | | | | | |
|------------------------------------|-------------|--------------|-----------------|----------------------------|-------------------------------|
| Sl. No. | Date | Class | Roll No. | Name of the Student | Topic |
| 1 | 13-07-2015 | BZC I yr | 301815445501 | G.Rohith kumar | Plant kingdom |
| 2 | 21-09-2015 | BZC II yr | 301815445024 | J.Shivaiah | Classification of Gymnosperms |
| 3 | 13-07-2016 | BZC III yr | 301814445046 | Rohini kantha | Plant cell wall |
| 4 | 21-09-2016 | BZC I Yr | 301814445016 | Hymavathi | Vegetative reproduction |
| 5 | 04-10-2017 | BZC II yr | 17033018445048 | R.Anusha | T.S Anther |
| 6 | 18-02-2018 | BZC II yr | 17033018445010 | B.Hariharish | Microsporogenesis |
| 7 | 20-08-2018 | BZC I yr | 18033018445037 | M.R.Amulya | Stelar evaluation |
| 8 | 20-08-2018 | BZC II yr | 18033018445019 | N.Sravya | Fabaceae |
| 9 | 21-11-2019 | BZC I yr | 19033018445520 | Shiva kumar | Anthoceros |



Hymavathi, III BZC - Vegetative Reproduction



Extension Lectures:

For the benefit of the students the department arranged Guest Lectures.

| Sl. No. | Date | Name of the Lecturer | Name of the College | Topic |
|---------|------------|------------------------|---------------------------------------------|---------------------------|
| 1 | 15-09-2014 | Sri Gangadhar Rao | Professor, Osmania University, Hyderabad | Respiration in plants |
| 2 | 19-11-2014 | Sri K. Sathya Prasad | Professor, Osmania University, Hyderabad | Climate Change |
| 3 | 12-11-2016 | Dr. A. Baleeswar Reddy | Assit. Professor, PU PG Centre, Wanaparthy | Taxonomy |
| 4 | 21-12-2016 | Dr.Md. Khaja Mainuddin | Assit. Professor , PU PG Centre, Wanaparthy | Fungi |
| 5 | 14-09-2017 | Dr.Md. Khaja Mainuddin | Assit. Professor, PU PG Centre, Wanaparthy | Mycology |
| 6 | 15-09-2017 | Dr.Md. Khaja Mainuddin | Assit. Professor PU PG Centre, Wanaparthy | Diversity Of lower plants |
| 7 | 22-11-2017 | Dr. Sneha latha | Assit. Professor, PU PG Centre, Wanaparthy | Angiosperms families |
| 8 | 12-12-2019 | Dr. S. Niranjana | Faculty, PU PG Centre, Wanaparthy | Physiology |
| 9 | 12-12-2019 | Dr.Mohammed Ghani | Faculty, PU PG Centre Wanaparthy | Plant Embryology |



Extension Lecture by Dr. Gangadhar, Professor, Osmania University, Hyderabad.



Extension Lecture by Dr. K. Satyaprasad, Professor, Osmania University, Hyderabad.



Extension Lecture by Sri Dr. A. Baleswar Reddy, PU PG Centre - Wanaparthy



Extension Lecture by Sri .Dr. Mohammed Ghani



Extension Lecture by Sri. Dr. Khajamoinuddin.Mohd.Assistant Professor(C), PU PG, Centre, Wanaparthly.

REMEDIAL CLASSES:

Slow learners are identified based on the performance in the internal examinations and failures are identified based on the annual exam results. The remedial classes were conducted for both slow learners and failures to improve their performance.

FEEDBACK

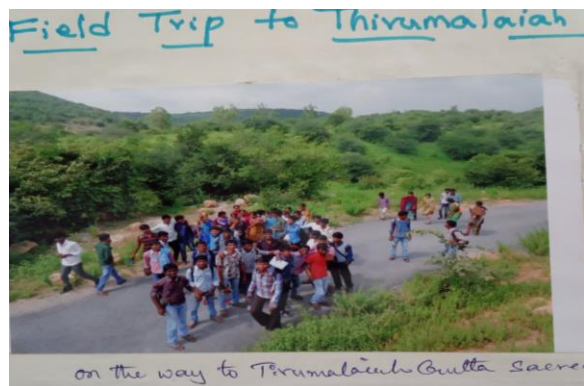
Feedback forms are provided to the students and get the information about the syllabus and teaching mode of faculty. The forms are collected and analyzed by the in charge of the department the report is submitted to the principal for necessary action.

Botanical field trips:

Department organized field trips every year to make the students learn practically by observation. The localities are Thirumalaya Gutta, Mallela theertham, Hyderabad, Peddagudem, Chennai and local field trips in the



college campus.



STUDY PROJECTS

To inculcate the research temper in the young minds, the faculty members of the Department is initiated study projects for students. It encourages the independent learning capacity and research ability.

| SOIL ANALYSIS | | | |
|----------------------|---------------------|--------------------|--------------|
| S.no | Name of the student | Hall ticket number | Group |
| 1. | Chinna Hussain | 3018-12-445-501 | BZC III year |
| 2. | D. Suresh | 3018-12-445-519 | BZC III year |
| 3. | C.Gayathri | 3018-12-445-523 | BZC III year |
| 4. | N.Kalpana | 3018-12-445-026 | BZC III year |
| 5. | K. Shireesha | 3018-12-445-078 | BZC III year |

| CROP CULTIVATION IN VENGALAYAPALLY | | | |
|-------------------------------------------|---------------------|--------------------|--------------|
| S.no | Name of the student | Hall ticket number | Group |
| 1. | A.Mahesh | 3018-13-445-501 | BZC III year |
| 2. | G.Mahesh babu | 3018-13-445-535 | BZC III year |
| 3. | M.Bharath kumar | 3018-13-445-549 | BZC III year |
| 4. | Y. Naresh | 3018-13-445-007 | BZC III year |
| 5. | S.K.Nazma | 3018-13-445-015 | BZC III year |

| STUDY PROJECT ON HOME MEDICINE | | | |
|---------------------------------------|---------------------|--------------------|--------------|
| S.no | Name of the student | Hall ticket number | Group |
| 1. | C.Bharath | 3018-14-445-509 | BZC III year |
| 2. | K.Balaraj | 3018-14-445-524 | BZC III year |
| 3. | E.Karnakar | 3018-14-445-540 | BZC III year |
| 4. | C.Priyanka | 3018-14-445-009 | BZC III year |
| 5. | S.Kavitha | 3018-14-445-049 | BZC III year |

| STUDY PROJECT ON BIODIVERSITY | | | |
|--------------------------------------|---------------------|--------------------|--------------|
| S.no | Name of the student | Hall ticket number | Group |
| 1. | Aasiya | 3018-15-445-017 | BZC III year |
| 2. | K.V Harini | 3018-15-445-028 | BZC III year |
| 3. | T.Srihari | 3018-15-445-510 | BZC III year |
| 4. | G. Rohith kumar | 3018-15-445-501 | BZC III year |
| 5. | P.Yamini | 3018-15-445-055 | BZC III year |

| STUDY PROJECT ON USES OF MEDICINAL PLANTS | | | |
|--------------------------------------------------|---------------------|--------------------|-------------|
| S.no | Name of the student | Hall ticket number | Group |
| 1. | V.Rukmini | 17033018445509 | BZC II year |
| 2. | P.Pavithra | 17033018445045 | BZC II year |
| 3. | A.Sony | 17033018445003 | BZC II year |
| 4. | Tabassum | 17033018445 | BZC II year |
| 5. | Pravalika | 3018-15-445-030 | BZC II year |

Best and innovative Practices of the Department

Students are encouraging to the preparation of art crafts by the dried plant parts for innovative practices.





Highlights of the Department

- The Department of Botany is producing good results every year.
- The students are encouraged to involve in study projects.
- Students are encouraged to join in job oriented courses like TASK-TSKC.
- The Department is involving in plastic eradication in Thirumalaya Gutta and supplying cloth bags, Paper bags
- The Department is adopting a village(Narasingaipally) and distributing plants
- Students are encouraging to do the best practices by the plant parts.

Thank You.