

**GOVERNMENT DEGREE COLLEGE**

**Bhadrachalam**

**District: Bhadradi Kothagudem**

**Telangana 507111**



**PROFILE OF**

**DEPARTMENT OF BOTANY**



## DEPARTMENT OF BOTANY

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## **HIGHLIGHTS OF THE DEPARTMENT OF BOTANY**

<b>No.of Doctorates</b>	<b>-01</b>
<b>Pursing Ph.D</b>	<b>-01</b>
<b>Student admissions enrolment</b>	<b>-82%</b>
<b>Add on Courses (AECC,SEC)</b>	<b>-02</b>
<b>Certificate Course</b>	<b>-01</b>
<b>Department and Lab Area</b>	<b>-3004 Sq. Feet</b>
<b>Well-equipped Laboratories</b>	<b>- 03</b>
<b>Department Museum</b>	<b>-01</b>
<b>Terrace Shade Net</b>	<b>-01</b>
<b>Botanical Garden</b>	

# DEPARTMENT OF BOTANY

Department of Botany established in the year **1989**

The Department offers an undergraduate program which is in affiliation with Kakatiya University, Warangal.

## **Vision & Mission**

### **Vision**

“Inculcate students with scientific temperament, environmental awareness & prepare them to face challenges in life”

### **Mission**

Impart quality education in the field of plant sciences & to sensitize students towards the need for conserving natural resources.

It targets at providing an environment that encourages, promotes and stimulates the intellectual, professional and personal development of the student.

The curriculum caters to the all-round development of the student, preparing globally ready individuals into the fast-pacing world. A three-year bachelor's degree program in Botany provides the foundation for prospective botanists to pursue a graduate level education or find an entry-level career.

## **SWOC ANALYSIS**

### **STRENGTHS**

- **Three well equipped laboratories and one museum.**
- **Adequate number of Bio visual charts.**
- **Disciplined students eager to learn.**
- **Experienced faculty, capable of using ICT tools.**

### **WEEKNESS**

- **Many students, having studied in their mother tongue are slow to grasp the subject due to lack of language skills (English).**
- **No PG programme in Botany.**

### **OPPORTUNITIE S**

- **To start M.SC Botany**
- **Organize National level conference, seminars and workshops.**

### **CHALLENGES**

- **To enhance self- reliance among the students.**
- **Few of Intelligent students getting marriages during their education period.**

## FACULTY PROFILE

**Name** : S.SYAM PRASAD  
**Designation** : Assistant professor of Botany.  
**Qualification** : M.Sc.M.Phil, SET, B.Ed, (Ph.D) .  
**Experience** : 07 Years.



**Date of joining as a lecturer** : 31-07-2016.

**Date of joining in present institution** : 28-12-2019.

**E mail:** ssp.drk@gmail.com

**RELIGION** : HINDU

**NATIONALITY** : INDIAN

**LANGUAGE KNOWN** : TELUGU & ENGLISH

**Mobile no:** 9885079090

### QUALIFICATIONS:

DEGREE	YEAR OF PASSING	UNIVERSITY	PERCENTAGE OF MARKS	DIVISION
M.Phil	2009	Annamali University	69.75	FIRST CLASS
M.Sc	2002	Osmania University	69.00	FIRST CLASS
B.Ed	2001	Osmania University	67.00	FIRST CLASS
B.Sc	1999	Kakatiya University	69.89	FIRST CLASS
AP SET	2014	Osmania University		

**No. of Research papers published : 02**

**Titles :**

1. Role of the AM Fungi in Physico-chemical Properties of Soil, Study in Sathupally Forest Area, Khammam (District) Telangana State with Reference to *Anogeissus latifolia* and *Bambusa arundinacea*.

**Author names – S.Syam prasad, K.Ashok kumar and P.R.Sushma**

2. Identification and characterization of abbuscular mycorihizal fungi associated with to *Diospyros melanoxylon*

**Author names – S.Syam prasad, K.Ashok kumar and P.R.Sushma**

**Seminars attended**

1. One Day National Seminar on Forest Resources, Diversity, Utilization and Conservation, on 5th November 2022  
Sponsored by Telangana State Council of Higher Education (TSCHE) organized by Department of Botany Gopal Rao Patil, Government Degree College, Bhainsa-504103, Nirmal District, Telangana State
2. Two-days National level inter disciplinary seminar on perspectives of Hydrobiology on 18/11/2023 & 19/11/2023  
Sponsored by Telangana State Council of Higher Education (TSCHE)  
Organized by Department of Zoology SRR Government Degree College, Karimnagar, Telangana State.

**M.Phil Title :**

**Role of the AM Fungi in Physio-chemical Properties of Soil, Study in Sathupally Forest Area, Khammam (District) Telangana**

**Papers handled**

- Paper –1) Microbial diversity of lower plants
- 2) Gymnosperms, Taxonomy of angiosperms and Ecology
  - 3) Plant anatomy and embryology
  - 4) Medicinal Botany
  - 5) Cell biology, Genetics and Plant physiology
  - 6) Bio Diversity and Conservation

**Specialization : Plant Physiology.**

## Training programmes attended:

1	S.SYAM PRASAD	FDP on "New Paradigms in e-learning Tools and Techniques for Teaching Learning"	17th to 19 th 2020
		Dynamics e-learning strategies skill oriented tools	30-08-2020
		UGC Paramarsh FDP on "ICT in Teaching & Learning"	13th July – 18th July 2020
		STC on Green Auidt organized by OU	09-08-2020 TO 14-08-2020
		STC on Plant Taxonomy organized by nizam college	03-08-2020 TO 08-08-2020
		(FIP)(STC)ICT Tools in Higher Education	12-08-2020 To 19-08-2020
		Refresher course in Life sciences by UGC HRDC - MANU	17-09-2020 To 30-09-2020
		"Awareness workshop - NIRF INDIA RANKINGS - 2021 for Higher Educational Institutions"	18 th & 19 th Janurary 2021
		Transformation Through NAAC Accreditation Process A National Level Workshop for Higher Educational Institutions	21 st & 22 nd June 2021
		"CONSTRUCTING CONSTRUCTIVIST LESSON PLAN"	27th-29th January 2021
		Refresher course in Life sciences UGC HRDC - OU	03-01-2022 to 18-01-2022
		MOOC online course developementfor SWAYAM	20-12-2021 to 07-01-2022
		"RURAL ENTERPRISES-SKILL DEVELOPMENT FACILITIES"	05-02-2022





**Name :** Dr.N.Naga Sameera.

**Designation :** Lecturer in Botany.

**Qualification :** M.Sc. ,Ph.D.

**Experience :** 11 Years.

**Date of joining as a lecturer :** 15-09-2009.

**Date of joining in present institution :** 24-01-2020.

**E mail:** [n.nagasameera@gmail.com](mailto:n.nagasameera@gmail.com)

**RELIGION :** HINDU

**NATIONALITY :** INDIAN

**LANGUAGE KNOWN :** TELUGU & ENGLISH

**Mobile no:** 9963687030

**QUALIFICATIONS:**

DEGREE	YEAR OF PASSING	UNIVERSITY	PERCENTAGE OF MARKS	DIVISION
Ph. D	2022	Telangana University	-	
M.Sc	2007-2009	Telangana University	81.00	FIRST WITH Distinction
B.Sc	2004-2007	Kakatiya University	75.00	FIRST WITH Distinction

**No.of Research papers published : 02**

**Titles :**

- 1) Study of physico – chemical parameter of Ali sagar and Ahok sagar lakes of Nizamabad district,Telangana.  
Author name – Naga sameera.N and Aruna.M
- 2) Studies on plankton diversity of Ashok sagar lake in Telangana  
Author name – Naga sameera.N and Aruna.M

**Seminars attended :**

International conference on Agriculture, veterinary and life sciences -2015,  
Jan 30-31, Ujjain, India.

**No .of National seminars attended : 03**

- 1) Bio- diversity conservation –role of student youth 21<sup>st</sup> & 22<sup>nd</sup>  
Dec-2015.Sponserd by UGC-SERO Hyderabad.
- 2) Quality education : Emerging trends and challenges for 21<sup>st</sup> century from 18<sup>th</sup> &19<sup>th</sup>  
Aug-2016 ,Telangana University, Dichpally Nizamabad.
- 3) National seminar on Microbial Bio- diversity organized by Department of  
Botany,Telangana University,Dichpally,Nizamabad,Telangana State.  
on 22<sup>nd</sup> Aug,2016

**Training program attended:** Training program on adolescent health for teaching  
staff-collegiate education under RSK from 26<sup>th</sup> to 28<sup>th</sup> Nov-2015.

**Ph.D Title :**

Bio-diversity of Algae in Ashok sagar and Ali sagar lakes of nizamabad  
district,Telangana.

**Papers handled**

- Paper –1) Microbial diversity of lower plants
- 2) Gymnosperms,Taxonomy of angiosperms and Ecology
  - 3) Plant anatomy and embryology
  - 4) Medicinal Botany
  - 5) Cell biology, Genetics and Plant physiology
  - 6) Bio Diversity and Conservation

**Specialization :** Plant Physiology.

# Criterion 1

## Curricular Planning and Implementation

Kakatiya University. “Undergraduate programmes offered the Choice Based Credit System Constituent Colleges and Affiliated Colleges from the Academic Year 2016-2017.

### CBCS Course Structure

- a. UG Courses in the CBCS are offered within the Semester pattern.
- b. There shall be six semesters in each UG course. The duration of an Academic year consists of two semesters, each of 15 weeks of teaching.
- c. The Academic session in each semester will provide 90 teaching days.
- d. The period of the odd semesters shall be from July to November and the even semesters shall be from December to April.
- e. There shall be Following categories of courses/papers in the UG programmes

**A.E.C.C** : Ability Enhancement Compulsory Course  
**(ENVIRONMENTAL SCIENCE)**

**S.E.C** : Skill Enhancement Course

**G.E** : Generic Elective  
**(WATER RESOURCE MANGEMENT)**

**D.S.C** : Discipline Specific Course

**D.S.E** : Discipline Specific Elective

Example: **BSc - Every Semester (BOTANY)**

Course category	Title of the Paper	No. of Credits	Hrs PW	Max. Marks			Total
				Internal Exam	End Exam	Lab	Marks
<b>DSC-1A</b>	MICROBIAL DIVERSITY & LOWER PLANTS	4	4	20	80	25	125
	MICROBIAL DIVERSITY & LOWER PLANTS	1	3				
<b>AECC</b>	ENVIRONMENTAL STUDIES	1	2	10	40	~	50
<b>DSC-1B</b>	BRYOPHYTA, PTERIDOPHYTA & GYMNOSPERMS	4	4	20	80	25	125
	BRYOPHYTA, PTERIDOPHYTA & GYMNOSPERMS	1	3				
<b>DSC-2A</b>	PLANT TAXONOMY & MEDICINAL BOTANY	4	4	20	80	25	125
	PLANT TAXONOMY & MEDICINAL BOTANY	1	3				
<b>DSC-2B</b>	PLANT ANATOMY & EMBRYOLOGY	4	4	20	80	25	125
	PLANT ANATOMY & EMBRYOLOGY	1	3				
<b>DSC-3A</b>	CELL BIOLOGY & GENETICS	4	4	20	80	25	125
	CELL BIOLOGY & GENETICS	1	3				
<b>GE</b>	WATER RESOURCE MANAGEMENT	1	2	10	40	~	50
<b>DSE -3A</b>	ECOLOGY & BIODIVERSITY	4	4	20	80	25	125
	ECOLOGY & BIODIVERSITY	1	3				
<b>DSC-3A</b>	PLANT PHYSIOLOGY	4	4	20	80	25	125
	PLANT PHYSIOLOGY	1	3				
<b>DSE -3A</b>	TISSUE CULTURE & BIOTECHNOLOGY	4	4	20	80	25	125
	TISSUE CULTURE & BIOTECHNOLOGY	1	3				

## DEPARTMENT OF BOTANY

### PROGRAMME SPECIFIC OUTCOMES

S.No	BOTANY
PSO-1	Understand the nature of microbial diversity and basic concepts of lower group of plants, classifications of Algae, Fungi, Bryophyta and Pteridophyta
PSO-2.	Understand morphology and reproductive parts of Gymnosperms, basic concepts of Plant Taxonomy, Plant identification and systematic study of families
PSO-3.	Basic concepts of Ecology, Plants and environment and succession in plants
PSO-4.	Understand Plant Anatomy and Embryology of Angiosperms
PSO-5	Students will have Critical understanding of Cell Biology and Plant metabolisms and Plant regulations
PSO-6	Gain complete knowledge of morphology, nutritional value and economic importance of vegetables, cereals, millets, beverages, edible oils and other plant products
PSO-7	Acquire fundamentals of Tissue culture and Biotechnology its applications and hands on experience
PSO-8	Students will have strong fundamentals on modern and classical aspects of Botany
PSO-9	Understand knowledge of Botany is an essential pre-requisite for the pursuit of many applied sciences
PSO-10	To facilitate students for taking up and shaping a successful career in Botany

BOTANY

### FIRST YEAR, I-SEMESTER PAPER-I

#### MICROIAL DIVERSITY AND LOWER PLANTS

**CO1: Describe Bacteria structure, Nutrition and Re production and compare Arche bacteria, Actinomycetes and Mycoplasma**

**CO2: Describe structure of Viruses, Replication and Transmission**

**CO3: Classify Algae, Fungi and Lichens based on their structure, Reproduction and Lifecycles and their Economic importance**

**CO4: Analyze and ascertain the important plant disease symptoms due to Viruses, Bacteria and Fungi**

**CO4: Classify Bryophytes based on morphology, anatomy and Lifecycles and know their evolutionary significance**

**CO5: Classify Pteridophytes based on Morphology, Anatomy and Lifecycles and gain knowledge on their stelar evolution, Heterospory and Seed habit**

**CO6: Demonstrate the techniques of use of lab equipment, preparation of slides and identify the material and draw diagrams**

**CO7: Preparation of Double stained Permanent mounts.**

### **First Year, II -Semester Paper-II**

#### **Gymnosperms, Taxonomy of Angiosperms and Ecology**

**On successful completion of this course, the students will be able to:**

**CO1: Classify Gymnosperms based on their structure, reproduction and write down the life history of Pinus and Gnetum.**

**CO2: Explain the Geological time scale, process of fossilization and compare the characteristics of extinct and extant plants**

**CO3: Critically understand various types of Classifications and taxonomical aids for identification of Angiosperms.**

**CO4: Analyze the morphology of the most common angiospermic plants of their local it and recognize their families.**

**CO5: Evaluate the Economic importance of Plants belonging to different families.**

**CO6: Understand the basic components of Ecosystem, Food chains and ecological adaptations of Plants.**

**CO7: Describe serial stages in Plant succession**

**CO8: Demonstrate the techniques of section cutting, preparing slides, identifying of the material and drawing exact figures.**

**CO9: Exhibit skill to identify the local angiosperms of the families prescribed to the irgenus and species level**

**CO10: Prepare and preserve specimens of local wild plants using herbarium techniques.**

#### **II Year SEMESTER –III PLANTANATOMY AND EMBRYOLOGY**

**CO1: Classify Meristems and understand the histological organization of tissues and tissue systems in plants Identify local timbers based on wood structure**

**CO2: Interpret various aspects of embryology in detail about microsporogenesis is and megaspore genesis**

**CO3: Illustrate and interpret pollen morphology, seed structure, Endosperm types and Embryo types Understand Polyembryony and Apomixis**

**CO4: Get familiarized with techniques of double stained permanent slides Conduct of Pollen viability test, Pollengrain whole mounts.**

**CO5: Isolation and mounting of embryos**

#### **II Year SEMESTER–IV CELL BIOLOGY AND PLANT PHYSIOLOGY**

**CO1: Explain the organization of cell wall and cell membranes**

**CO2: Distinguish the semiautonomous and other cell organelles**

**CO3: Explain the organization of chromosomes and structure of genetic material and cell division.**

**CO4: Comprehend the importance of water in plant life and mechanisms for transport of water and solutes in plants**

**CO5: Evaluate the role of minerals in plants nutrition and their deficiency symptoms critically understand the light reactions and carbons simulation processes in C3,C4 and CAM Plants**

**CO6: Analyze the biochemical reaction sin relation to Nitrogen metabolism Evaluate the photo hormones that regulate growth and development in plants.**

**CO7: Fixation of plant material and nuclear staining form mitotic and meiotic studies.**

**CO8: Conduct lab and field experiments pertaining to Plant Physiology ,using related glass ware, equipment, chemicals and plant material.**

#### **Final Year (DSC-1E)SEMESTER–V Cell Biology and Genetics**

**CO1: Explain the organization of cell wall and cell membrane**

**CO2: Distinguish these mi autonomous and other cell organelles**

**CO3: Explain the organization of chromosomes and structure of genetic material and cell division.**

**CO4: Discuss the basics of Mendelian genetics its variations and interpreting inheritance of traits in living beings. CO5: Construction of Genetic maps**

**CO6: Evaluate the structure and functions and regulation of genetic material**

**CO7: Demonstrate techniques to observe the cell and its components under microscope.**

**CO8: Demonstration of cyto chemical methods and fixation of plant material**

**CO9: Show the understanding of techniques of demonstrating Mitosis and Meiosis in the laboratory and identify different stages of cell division**

**CO10: Solve the problems related to crosses and genetic interactions**

**Final Year SEMESTER–V(Elective)Economic Botany**

**CO1: Understand the basic concepts of Economically important plant products, Origin, Nutritional, commercial values of vegetables, Millets and Cereals.**

**CO2: Develop an overall view of commercial and nutritional values of Fruits and Nuts.**

**CO3: Understand the processing of Sugar and its by products and important spices CO4: Understand morphological features, Processing of Beverages, Extraction of Edible oils, Rubber and Tobacco**

**CO5: Evaluate various drug yielding plants, various fibers and extraction methods**

**CO6: Estimation of Iodine number of different oils, comparative study of proteins in Millets and Cereals.**

**Final Year SEMESTER –VI(Elective)Plant Molecular Biology**

**CO1: Plant molecular biology focuses on exploration of molecular basis of plant life mainly on DNA, RNA, protein, molecular systems and regulation of gene expression in prokaryotic and eukaryotic organisms.**

**CO2: Understand the function of cells at molecular level. Understand DNA and its functions central dogma of life and salient features of genetic code.**

**CO3: Understand the process of transcription in prokaryotes and eukaryotes, m-RNA processing, editing and its transport.**



## Courses / Programmes and subject's combinations offered

1. Botany, Zoology, Chemistry (EM/ TM\*) - 2016-Till date
2. Botany, Zoology, Sericulture (EM/ TM\*)- 2016-19 & 2021-Till date
3. Botany, Zoology, Computer Application (EM) 2017- Till date
4. Botany, Sericulture, Chemistry (EM/T TM\*) 2016-19 & 2021-Till date

TM\* TELUGU MEDIUM COURSES HAVE BEEN CLOSED SINCE 2019

## Methods for Implementation of Curriculum


Value-based Teaching and Learning input our curriculum plan

Kakatiya University releases **Annual calendar(Almanac)** for two

semesters in every academic year, according to which we prepare

**Action plan, curriculum plan, Synopsis and Time table** in presence of

Principal, Academic coordinator and Department HOD.

**OFFICE OF THE REGISTRAR  
KAKATIYA UNIVERSITY  
WARANGAL**

**PROF. K. PURUSHOTHAM  
REGISTRAR**  
No. 08 /Acad. Audit/KU/2020 Date: 10-01-2020  
The Principals of  
University and Affiliated Colleges offering UG (NP) Courses  
Kakatiya University

Sub: ALMANAC – Revised almanac for Under-Graduate (NP) Courses – II, IV & VI Semesters under Choice Based Credit System for the academic year 2019-2020 – Communicated – Regarding.

Ref: 1. This Office Lr. No. 189/Acad. Audit/KU/2019, dated 01.07.2019.  
2. This Office Lr. No. 07/Acad. Audit/KU/2020, dated 08.01.2020.

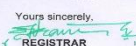
-00-

Sir/Madam,

In partial modification to this office letter 2<sup>nd</sup> cited, I am to communicate the approval of the University for the Revised Almanac for Under-Graduate (NP) Courses II, IV & VI semesters for the academic year 2019-2020, as follows:

Sl. No.	Particulars	Almanac
1.	Commencement of Classes	20/12/2019
2.	Short Vacation	13/01/2020 to 16/01/2020
3.	I-Internal Assessment Test	Any two days from 24/02/2020 to 29/02/2020
4.	II-Internal Assessment Test	Any two days from 06/04/2020 to 11/04/2020
5.	<b>Last day of Instruction</b>	15/04/2020
6.	Preparation Holidays and Practical Examinations	16/04/2020 to 25/04/2020
7.	Commencement of Theory Examinations	28/04/2020
	Summer Vacation	01/05/2020 to 31/05/2020
	Re-opening of Colleges for 2020-2021	01/08/2020

The above **Revised Almanac** may please be brought to the notice of the staff and the students accordingly.

Yours sincerely,  
  
REGISTRAR

**ALMANAC**

Copy to:

1. The Dean, College D
2. The Deans of Faculty
3. The Heads of Department
4. The Chairpersons of
5. The Controller/Addl. Controller to Examinations (UG & Condonation), KU.
6. The Secretary, University Sports Board, KU.
7. The Programme Co-ordinator, NSS, KU.
8. The Finance Officer, KU.
9. The Dy. Registrar/Asst. Registrar (Admin/Academic/Accounts/Audit), KU.
10. The Secretary to the Vice-Chancellor, KU.
11. The SF.

## Prepare Action plan

### GOVERNMENT DEGREE COLLEGE, BHADRACHALAM

### ACTION PLAN FOR 2021-22

S.No	Month	Activity / Programme
1	June	Environment Day
2	July	1.Career Guidance 2.Swacha Bharath
3	August	1.Haritha Haram – Platanation 2.Student Seminars
4	September	1.Extension Lecture 2.Field visit
5	October	1.Quiz Programme 2.Election
6	November	Semester End Examinations
7	December	1.National Pollution Day 2.World Soil Day
8	January	Eco Club Activities
9	February	1.Extension Lecture
10	March	1.Seminars 2.Election/ Quiz programme
11	April	Semester End Examinations

## Curriculum plan

CURRICULAR PLAN																			
NAME OF THE LECTURER :		S.SYAM PRASAD		DEPARTMENT :		BOTANY		CLASS :		B.Sc (BZC)		YEAR :		2020-2021		PAPER :		III	
SL NO	MONTH	WEEK	HOURS/AVAILBLE	SYLLABUS TOPIC	ADDITIONAL INPUT / VALUE ADADDITION	CURRICULAR ACTIVITY			CO-CURRICULAR ACTIVITY			REMARKS							
						ACTIVITY	HOURS ALLOTTED	WHETHER COVERED IF NOT ALTERNATE DATE	ACTIVITY	HOURS ALLOTTED	WHETHER COVERED IF NOT ALTERNATE DATE								
1		1 WEEK																	
2		2 WEEK																	
3		3 WEEK																	
4		4 WEEK																	
5		5 WEEK																	

**CURRICULUM PLAN**

GOVERNMENT DEGREE COLLEGE, BHADRACHALAM	
Name of the Department / Subject	BOTANY
Name of the Lecturer	S.SYAAM PRASAD
Course / Group	B.Sc (BZC/SBZ)
Paper	III
Name of the Topic	Tissues and Tissue Systems
Hours required	6h
Learning Objectives	state that a tissue is a group of specialized cells that carry out a particular function, distinguish between simple plant tissues (parenchyma, collenchyma, and sclerenchyma) and complex plant tissues (xylem and phloem).
Previous Knowledge to be Reminded	simple tissue
Topic Synopsis	Tissues and Tissue Systems: Simple, complex and special tissues.
Examples / Illustrations	
Additional Inputs	
Reference cited	
Student activity Planned After	
Activity Planned Outside the Classroom if any	
Any other Activity	

## SYNOPSIS

### Time table

PERIODS			I	II	III		IV	V	VI	VII
Time/Days		GROUPS	9.30 - 10.30	10.30 - 11.30	11.30 - 12.30		1.00- 1.50	1.50-2.40	2.40 - 3.30	3.30 - 4.30
MON	YEAR-1	BZC / SBZ / SBC / BZCS/BCCS				12.30 TO 1.00 LUNCH BREAK		BOTANY -3EYAR LAB-2 BOTANY -1EYAR LAB-3		
	YEAR-2	BZC / SBZ / SBC / BZCS		BOT						
	YEAR-3	BZC / SBZ / BZCS			WRM					
TUE	YEAR-1	BZC / SBZ / SBC / BZCS/BCCS					EST	BOTANY -3EYAR LAB-2 BOTANY -1EYAR LAB-3		
	YEAR-2	BZC / SBZ / SBC / BZCS		BOT						
	YEAR-3	BZC / SBZ / BZCS			WRM					
WED	YEAR-1	BZC / SBZ / SBC / BZCS/BCCS		BOT			LIB	BOTANY -2EYAR LAB-2 BOTANY -1EYAR LAB-3		
	YEAR-2	BZC / SBZ / SBC / BZCS								
	YEAR-3	BZC / SBZ / BZCS			BOT					
THU	YEAR-1	BZC / SBZ / SBC / BZCS/BCCS		BOT			LIB	BOTANY -2EYAR LAB-2 BOTANY -1EYAR LAB-3		
	YEAR-2	BZC / SBZ / SBC / BZCS								
	YEAR-3	BZC / SBZ / BZCS			BOT					
FRI	YEAR-1	BZC / SBZ / SBC / BZCS/BCCS		BOT		EST	BOTANY -2EYAR LAB-2 BOTANY -1EYAR LAB-3			
	YEAR-2	BZC / SBZ / SBC / BZCS	BOT							
	YEAR-3	BZC / SBZ / BZCS	WRM		BOT					
SAT	YEAR-1	BZC / SBZ / SBC / BZCS/BCCS		BOT			BOTANY -2EYAR LAB-2 BOTANY -1EYAR LAB-3			
	YEAR-2	BZC / SBZ / SBC / BZCS	BOT							
	YEAR-3	BZC / SBZ / BZCS	WRM		BOT					

## Teaching diary:

Commissioner College Education (HEI) implemented digital teaching diary 2021 for all government degree colleges in the state. Therefore, every faculty member entered the in digital diary as per his/her time table every day.



**GOVERNMENT DEGREE COLLEGE. BHADRACHALAM****DEPARTMENT OF BOTANY****FILED TRIPS FROM-2016-17 TO -2020-21**

SL NO	Academic year	Date	Place of Visit	Name of the faculty involved	No. Of Students attended	Class & Year
1	2020-21	23-03-2021	Heavy water plant. Aswapuram	Dr.CH.GUPTA S.SYAM PRASAD	51	B.sc life science 3rd,2nd&1st year students
2	2020-21	20-02-2021	sompalli village	Dr.CH.GUPTA S.SYAM PRASAD	51	B.sc life science 3rd,2nd&1st year students
3	2019-20	17-02-2020	vudyanavana kendum , kothagudem	Dr.CH.GUPTA S.SYAM PRASAD	50	B.sc life science 3rd,2nd&1st year students
4	2019-20	20-01-2020	morampally bazar	Dr.CH.GUPTA S.SYAM PRASAD	50	B.sc life science 3rd,2nd&1st year students
5	2017-18	13-03-2018	MALLURU VILLAGE	Dr.P.VIJAYANAD M.SIRISHA M.RAMESH	30	B.sc life science 3rd,2nd&1st year students
6	2016-17	21-01-2017	GODAVARI RIVER, PARNASHALA	Dr.P.VIJAYANAD M.SIRISHA M.RAMESH	40	B.sc life science 3rd,2nd&1st year students
7	2016-17	17-11-2016	KRUSHI VIJANA KENDRAM WYRA	Dr.P.VIJAYANAD M.SIRISHA M.RAMESH	50	B.sc life science 3rd,2nd&1st year students



## Group discussions

SL.NO	CHAIRPERSON NAME	TOPIC	DATE	YEAR	NO.OF STUDENTS PARTICIPATE
1	Dr.Ch.GANTAYYA GUPTA	TAXONOMY	18-01-2021	2020-21	40
2	S.SYAM PRASAD	GENETICS	10/12/2020	2020-21	40
3	S.SYAM PRASAD	ANOTAOMY & PTERIDOPHYTES	11/2/2020	2019-20	40
4	Dr.Ch.GANTAYYA GUPTA	EMBRYOLOGY	27-02-2020	2019-20	40
5	Dr.L..DHOOP SINGH	PHYCOLOGY & MYCOLOGY	29-01-2019	2018-19	40
6	Dr.L..DHOOP SINGH	TAXONOMY & BRYOPHYTES	15-11-2019	2018-19	40
7	D.RAMESH	EMBRYOLOGY	18-09-2017	2017-18	40
8	K.SARITHA	MEDICINAL BOTANY	20-02-2018	2017-18	40
9	P.VIJAYANAD	PLANT TAXONOMY	3/8/2017	2016-17	40
10	D.RAMESH	PLANT PHYSIOLOGY	9/11/2016	2016-17	40



## QUIZ COMPETITONS

SL NO	QUIZ INCHARGE	YEAR-3	GROUP	DATE	WINNER	NO.OF PARTICIPANTS
<b>2016-17</b>						
1	K.SARITHA	YEAR-3	BZC & SBC	02/12/2016	GROUP-C	50
2	D.RAMESH	YEAR-3	BZC & SBC	15/09/2017	GROUP-E	52
<b>2017-18</b>						
1	K.SARITHA	YEAR-1,2,3	LIFE SCIENCE	21-12-2017	GROUP-C	44
2	D.RAMESH	YEAR-1,2,3	LIFE SCIENCE	02/01/2018	GROUP-A	41
<b>2018-19</b>						
1	Dr.DHOOP SINGH	YEAR-1,2,3	LIFE SCIENCE	13/08/2018	GROUP-B	37
2	Dr.DHOOP SINGH	YEAR-1,2,3	LIFE SCIENCE	12/6/2018	GROUP-A	31
3	Dr.DHOOP SINGH	YEAR-1,2,3	LIFE SCIENCE	24/10/2018	GROUP-C	37
4	Dr.DHOOP SINGH	YEAR-1,2,3	LIFE SCIENCE	15/11/2018	GROUP-B	37
<b>2019-20</b>						
1	Dr.CH GANTAYYA GUPTA	YEAR-1,2,3	LIFE SCIENCE	18/07/2019	GROUP-B	32
2	Dr.CH GANTAYYA GUPTA	YEAR-1,2,3	LIFE SCIENCE	25/08/2019	GROUP-D	33
3	Dr.CH GANTAYYA GUPTA	YEAR-1,2,3	LIFE SCIENCE	20/11/2019	GROUP-A	37
<b>2020-21</b>						
1	Dr.CH GANTAYYA GUPTA	YEAR-1,2,3	LIFE SCIENCE	23/01/2021	GROUP-C	41
2	Dr.CH G ANTAYYA GUPTA	YEAR-1,2,3	LIFE SCIENCE	27/02/2021	GROUP-A	42



Students are participating in the Quiz

### QUIZ COMPETITONS IMAGES



## Remedial classes taken for slow learners

2018-19

NAME OF THE DEPARTMENT - BOTANY		REMEDIAL COACHING REGISTER		YEAR		2018-19	
S.NO	TOPIC	NAME OF THE LECTURER	NAME OF THE STUDENTS ATTENDED	NAME OF THE LECTURER	NAME OF THE STUDENTS ATTENDED	NAME OF THE LECTURER	NAME OF THE STUDENTS ATTENDED
1	Micro Proragation	RAGAN	MARLA BHISHA	F	2	2	2
	Classification		SHREYAS LALITH KHAMMAM	F	2	2	2
	Plant Kingdom		VALE SAROJA	F	2	2	2
	Secondary growth in dicotyledonous stem		RADHA RAJANIKAN	F	2	2	2
	Secondary growth in dicotyledonous stem		CHANDRANANDA BANARJIA	F	2	2	2
	Secondary growth in dicotyledonous stem		VALE SAROJA	F	2	2	2
	Secondary growth in dicotyledonous stem		CHANDRANANDA BANARJIA	F	2	2	2

Principal  
Govt. Degree College  
Bijinicholan-537111,  
B. Visakhapatnam-5.A

2018-19

NAME OF THE DEPARTMENT - BOTANY		REMEDIAL COACHING REGISTER		YEAR		2018-19	
S.NO	TOPIC	NAME OF THE LECTURER	NAME OF THE STUDENTS ATTENDED	NAME OF THE LECTURER	NAME OF THE STUDENTS ATTENDED	NAME OF THE LECTURER	NAME OF THE STUDENTS ATTENDED
1	Micro Proragation	RAGAN	MARLA BHISHA	F	2	2	2
	Classification		SHREYAS LALITH KHAMMAM	F	2	2	2
	Plant Kingdom		VALE SAROJA	F	2	2	2
	Secondary growth in dicotyledonous stem		RADHA RAJANIKAN	F	2	2	2
	Secondary growth in dicotyledonous stem		CHANDRANANDA BANARJIA	F	2	2	2
	Secondary growth in dicotyledonous stem		VALE SAROJA	F	2	2	2
	Secondary growth in dicotyledonous stem		CHANDRANANDA BANARJIA	F	2	2	2

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B. Visakhapatnam-5.A

2019-20

NAME OF THE DEPARTMENT - BOTANY		REMEDIAL COACHING REGISTER		YEAR		2019-20	
S.NO	TOPIC	NAME OF THE LECTURER	NAME OF THE STUDENTS ATTENDED	NAME OF THE LECTURER	NAME OF THE STUDENTS ATTENDED	NAME OF THE LECTURER	NAME OF THE STUDENTS ATTENDED
1	Micro Proragation	RAGAN	MOTHSUKAN SAMBETHANA	F	2	2	2
	Classification		MOTHSUKAN SAMBETHANA	F	2	2	2
	Plant Kingdom		VALE SAROJA	F	2	2	2
	Secondary growth in dicotyledonous stem		SHREYAS LALITH KHAMMAM	F	2	2	2
	Secondary growth in dicotyledonous stem		CHANDRANANDA BANARJIA	F	2	2	2
	Secondary growth in dicotyledonous stem		VALE SAROJA	F	2	2	2
	Secondary growth in dicotyledonous stem		CHANDRANANDA BANARJIA	F	2	2	2

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Bijinicholan-537111,  
B. Visakhapatnam-5.A

2019-20

NAME OF THE DEPARTMENT - BOTANY		REMEDIAL COACHING REGISTER		YEAR		2019-20	
S.NO	TOPIC	NAME OF THE LECTURER	NAME OF THE STUDENTS ATTENDED	NAME OF THE LECTURER	NAME OF THE STUDENTS ATTENDED	NAME OF THE LECTURER	NAME OF THE STUDENTS ATTENDED
1	Micro Proragation	RAGAN	VALE SAROJA	F	2	2	2
	Classification		SHREYAS LALITH KHAMMAM	F	2	2	2
	Plant Kingdom		CHANDRANANDA BANARJIA	F	2	2	2
	Secondary growth in dicotyledonous stem		SHREYAS LALITH KHAMMAM	F	2	2	2
	Secondary growth in dicotyledonous stem		CHANDRANANDA BANARJIA	F	2	2	2
	Secondary growth in dicotyledonous stem		VALE SAROJA	F	2	2	2
	Secondary growth in dicotyledonous stem		CHANDRANANDA BANARJIA	F	2	2	2

Principal  
Govt. Degree College  
Bijinicholan-537111,  
B. Visakhapatnam-5.A

## Extension Lecture

SL.NO	RESOUCE PERSON NAME & COLLEGE	TOPIC	YEAR	DATE
1	Dr.Ch.GANTAYYA GUPTA SR&BGNR GOVT.DEGREE COLLEGE KHAMMAM	MICRO PRORAGATION	YEAR-3	16/11/2016
2	B.VENKATESWARALU JVR GOVT.DEGREE COLLEGE SATHUPALLY	BIO STATSTICS	YEAR-2	07/09/2017
3	A .J .RAMA RAO GOVT.DEGREE COLLEGE MARIPEDA	CONSERVATION OF BIO -DIVERSITY	YEAR-3	22/12/2018
4	Dr.G.VALYA SR&BGNR GOVT.DEGREE COLLEGE KHAMMAM	PALEO BOTANY	YEAR-2	05/03/2019
5	K.REKA GOVT.DEGREE COLLEGE MEDAK	STOMATAL TYPES(ONLINE MODE)	YEAR-2	01/10/2020



**Bhadrachalam, Andhra Pradesh, India**  
 MV7Q+HR2, Bhadrachalam, Andhra Pradesh 507111, India  
 Lat 17.664175°  
 Long 80.889502°



## MoUs

Name of the institution MoU is signed	Year of signing MoU	Duration
SR&BGNR GOVERNMENT DEGREE COLLEGE KHAMAM Dept.of Botany	2016-17	5-YEARS
GOVERNMENT DEGREE COLLEGE PALVONCHA Dept.of Botany	2018-19	5-YEARS
GOVERNMENT DEGREE COLLEGE YELLANDU	2018-19	Till date
DISPOSAL OF DEGRADABLE & NON-DEGRADABLE WASTAGE, GRAM PANTHAYTHI , BHADRACHALAM	2020-21	1-YEAR



## Setting of question papers for UG programme & Examination duties

The following staff worked in paper setting and examination duties of University. Our department conducted

SL.NO	NAME OF THE QP SETTER/ EXAM DUTIES	SEM	YEAR
1	P. VIJYANAND	EXAM BRANCH	2016
2	D.RAMESH	OBSERVER	2016
3	Dr.DHOOP SINGH	OBSERVER	2018
4	Dr.DHOOP SINGH	OBSERVER	2019
5	Dr.Ch.GANTYYA AGUPTA	FLYING SQUAD	2021
6	S.SYAM PRASAD	SEM-1,5	2020
7	S.SYAM PRASAD	FLYING SQUAD	2021
8	S.SYAM PRASAD	SEM-1,3	2021
8	S.SYAM PRASAD	SEM-4 OLS & NEW	2022
9	S.SYAM PRASAD	OBSERVER	2022



OFFICE OF THE CONTROLLER OF EXAMINATIONS  
KAKATIYA UNIVERSITY  
WARANGAL - 506 009

No. 1527 /E2/KU/2020

Date: 19-09-2020

### ORDERS

Sub-Kakatiya University - Examination Branch - BA/BAL/BBA/BCA/  
B.Com/B.Sc VI Semester Examinations- 2020 - Appointment of Flying Squad  
- Orders Issued:

The following faculty members are appointed as the Flying Squad for smooth conduct of BA/ BAL/ BBA/ BCA/ B.Com/ B.Sc VI Semester Examinations- 2020. The members of the Flying Squad will visit the centers from 21st September, 2020 to 06th October, 2020 (Team-II) located in Bhadradi Kothagudem District.

1. Dr. G. Gantayya Gupta, Asst. Prof. of Botany, Govt Degree College, Bhadrachalam.
2. Sri. V. Kameswar Rao, Asst. Prof. of History, Govt Degree College, Bhadrachalam

They are requested to visit the theory examinations centers during the examinations timings and submit a detailed report about the conduct of examination to the undersigned by the end of the day.

They are permitted to hire a vehicle from visiting the examination centers. The hire charges will be paid as per University rules. The squad members will be paid TA/DA and remunerations as per University rules on the examinations dates only.

The squad members will visit all the centers in the given route on the dates of examinations.

  
Controller of Examinations

To  
The Person concerned

Copy to  
The principals of the concerned colleges



OFFICE OF THE CONTROLLER OF EXAMINATIONS  
KAKATIYA UNIVERSITY  
WARANGAL - 506 009

No:820/ E2 / KU / 2018

Date:13-03-2018

### ORDERS

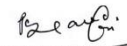
Sub: - KAKATIYA UNIVERSITY-Examination Branch - BA/BBM/B.Com/B.Sc  
Annual Examinations, 2018 - Appointment of Observer (s) - Orders - Issued.

The following teacher is appointed as **Observer** at the following examination center for conducting of BA/BBM/B.Com/B.Sc Annual Examinations, 2018 commencing from **14-03-2018 to 22-03-2018**.

NAME	RAMESH
DESIGNATION	FACULTY IN BOTANY
COLLEGE	GOVT DEGREE COLLEGE, BHADRACHALAM
CENTRE	S R ARTS & SCIENCE COLLEGE, KOTHAGUEDEM.

He/She is requested to present the above-mentioned center during the examination timings i.e., **from 09.00 A.M to 12.00 Noon / 02.00 P.M to 05.00 P.M** and submit a detailed report about the conduct of examinations to the undersigned before submitting the bill. He/She is also instructed to present at the time of opening the question papers and also sign on the sealed answer booklet bundle, other wise bill will not be admitted for payment.

He/She will be paid TA/DA on exams dates only.

  
for Controller of Examinations

To  
The Person concerned

Copy to:  
1. The Chief Superintendent of the respective examination center.  
2. The Principal concerned the college.



OFFICE OF THE CONTROLLER OF EXAMINATIONS  
KAKATIYA UNIVERSITY  
WARANGAL - 506 009

No:1456/ E2 / KU / 2019

Date: 04-12-2019

**ORDERS**

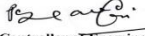
Sub:-KAKATIYA UNIVERSITY-Examination Branch - B.A/BAL/BBA/BCA/B.Com/B.Sc \* Examinations, 2019 - Appointment of Observer(s) - Orders - Issued.

The following teacher is appointed as **OBSERVER** at the following examination center for conducting of B.A/BAL/BBA/BCA/B.Com/B.Sc \* Examinations, 2019 commencing from **09th December, 2019 to 23rd December, 2019**:-

NAME	DR. L. DHUPINGH
DESIGNATION	FACULTY IN BOTANY
COLLEGE	GOVT DEGREE COLLEGE, BHADRACHALAM
CENTRE	SIDDARTHA DEGREE COLLEGE, NARSAMPET

He/She is requested to present the above-mentioned center during the examination timings i.e., **from 09.00 A.M to 12.00 Noon / 02.00 P.M to 05.00 P.M** and submit a detailed report about the conduct of examinations to the undersigned before submitting the bill. He/She is also instructed to present at the time of opening the question papers and also sign on the sealed answer booklet bundle, other wise bill will not be admitted for payment

He/She will be paid TA/DA on exams dates only.

  
for **Controller of Examinations**

To  
The Person concerned

Copy to:  
1. The Chief Superintendent of the respective examination center.



OFFICE OF THE CONTROLLER OF EXAMINATIONS  
KAKATIYA UNIVERSITY  
WARANGAL - 506 009

No.16 /E2/KU/2021

Date: 28-01-2021

**ORDERS**

Sub:-Kakatiya University - Examination Branch - BA/BAL/BBA/BCA/B.Com/B.Sc I, II, III,VI and VI Semester Examinations- 2021 - Appointment of Flying Squad - Orders Issued:

The following faculty members are appointed as the Flying Squad for smooth conduct of BA/ BAL/ BBA/ BCA/ B.Com/ B.Sc I, II, III,VI and VI Semester Examinations- 2021. The members of the Flying Squad will visit the centers from 29th January, 2021 to 10th February, 2021 (Team -I) located in Bhadradi Kothagudem District.

1. Dr. G. Ganayya Gupta, Asst. Prof. of Botany, Govt Degree College, Bhadrachalam.
2. Sri. T. Kiran Kumar, Asst. Prof. of Physics, Govt Degree College, Yellandu
3. Sri. S. Syam Prasad, Asst. Prof. of Botany, Govt Degree College, Bhadrachalam

They are requested to visit the theory examinations centers during the examinations timings and submit a detailed report about the conduct of examination to the undersigned by the end of the day.

They are permitted to hire a vehicle from visiting the examination centers. The hire charges will be paid as per University rules. The squad members will be paid TA/DA and remunerations as per University rules on the examinations dates only.

The squad members will visit (05) centers in the given route on the dates of examinations.

  
**Controller of Examinations**

To  
The Person concerned

Copy to  
The principals of the concerned colleges



OFFICE OF THE CONTROLLER OF EXAMINATIONS, CONFIDENTIAL SECTION  
SR & BGNR GOVERNMENT ARTS & SCIENCE COLLEGE(AUTONOMOUS); KHAMMAM  
(Under the jurisdiction of Kakatiya University, Warangal, Re-Accredited by NAAC with B+ Grade)

From:  
Dr.N. Gopi  
Controller of Examinations  
SR & BGNR Govt. Arts & Science College(A)  
KHAMMAM

*Re.Lr.No. SRBGNRGDCA/EB /OSEE/Jan-2013 Date181-01-2021*

To  
**Sri.S. Shyam Prasad**  
Assistant Professor of Botany  
Govt. Degree College, Bhadrachalam

Dear Sir/Madam,

Sub: Request for UG CBCS Question Paper Setting -Reg.

I am directed to inform you that you are appointed as Paper Setter for the Subject(s) given below:

Name of the Course/ Subject	Semester/ Paper	Title of the Paper	Version	No. of Sets
BSc/ Botany	V	Biodiversity and Conservation	Bilingual	2
BSc/ Botany	II	Cell Biology and Genetics	Bilingual	2

I request you to prepare question paper in the subject mentioned above in specified version and number of sets. You have to type question paper in the attached password protected document only. Kindly send the typed Question Paper to [srbgnrscienceexams@gmail.com](mailto:srbgnrscienceexams@gmail.com) within seven days from the date of receipt of this letter. Please send question paper along with duly signed copy of the bill and undertaking letter by post to the address given below:

**The Controller of Examinations,  
SR&BGNR GOVERNMENT ARTS & SCIENCE COLLEGE(A)  
KHAMMAM T.S. - 507002**

**Kindly follow the guidelines given below for setting the question paper:**

1. The questions are to be prepared from and within in the entire range of prescribed syllabus and Model Paper pattern (Blueprint).
2. You are requested to use Model question paper template provided.
3. You are requested to confirm your acceptance through mail.
4. You are requested to reject the offer and intimate the same, if any of your relatives are appearing for the examination or you are involved in any extra assignment in any tutorial/coaching centers.

  
Controller of Examinations  
SR & BGNR Arts & Science College  
(Autonomous), KHAMMAM.

**Enclosures:**

1. Question Paper Format.
2. A copy of the Syllabus and Model paper Blueprint.
3. Remuneration Bill.

## Academic Flexibility:

### Add on courses:

Kakatiya University has introduced (2016) an Ability enhance compulsory course (AECC) semester-I & G.E semester-VI. Semester-I Environmental studies & Semester-VI Water resource management. These are very helpful all the students (B.A,B.Com.B.SC) in ethical,moral values on environment among the students. Two credits have also been given for this.

**KAKATIYA UNIVERSITY**  
B.Sc I YEAR SEMESTER-I - CBCS  
Ability Enhancement Compulsory Course (AECC)  
**ENVIRONMENTAL STUDIES**  
(2 hrs/week) Credits – 2

**UNIT - I : Ecosystem, Biodiversity & Natural Resources (15 hrs.)**

1. Definition, Scope & Importance of Environmental Studies.
2. Structure of Ecosystem – Abiotic & Biotic components Producers, Consumers, Decomposers, Food chains, Food webs, Ecological pyramids)
3. Function of an Ecosystem :Energy flow in the Ecosystem ( Single channel energy flow model)
4. Definition of Biodiversity - Genetic,Species & Ecosystem diversity , Hot-spots of Biodiversity, Threats to Biodiversity , Conservation of Biodiversity (In situ & Ex situ )
5. Renewable & Non – renewable resources, Brief account of Forest , Mineral & Energy (Solar Energy & Geothermal Energy) resources
6. Water Conservation , Rain water harvesting & Watershed management.

**UNIT – II: Environmental Pollution , Global Issues & Legislation (15 hrs.)**

1. Causes, Effects & Control measures of Air Pollution, Water Pollution
2. Solid Waste Management
3. Global Warming & Ozone layer depletion.
4. III – effects of Fire- works
5. Disaster management – floods, earthquakes & cyclones
6. Environmental legislation :-  
(a) Wild life Protection Act (b) Forest Act (c) Water Act (d) Air Act
7. Human Rights
8. Women and Child welfare
9. Role of Information technology in environment and human health

♦ **Field Study: (5 hours)**

- Pond Ecosystem
- Forest Ecosystem

**REFERENCES:**

- Environmental Studies - from crisis to cure – by R. Rajagopalan (Third edition) Oxford University Press.
- Text book of Environmental Studies for undergraduate courses (second edition) by Erich Blarucha
- A text book of Environmental Studies by Dr.D.K.Asthana and Dr. Meera Asthana

*Dr. G. SHAMITHA*  
Chairperson  
Board of Studies  
Department of Zoology & Biotechnology Unit  
KAKATIYA UNIVERSITY - WGL-50609 (TS)

**KAKATIYA UNIVERSITY, WARANGAL-506 009**  
B.Sc. Under CBCS System wef A.Y: 2021-22  
Third Year :: Semester - V  
**GENERIC ELECTIVE (Common to all students)**

### WATER RESOURCES MANAGEMENT

(4 hrs/week) (Taught by ant Science Dept) (Credits:4) (Marks:100)

#### UNIT-I:

Introduction to water resources management, different types of water resources, water resources and its importance, Global distribution of water. Hydrological cycle, Conservation of water, recycling of water.

#### UNIT-II:

Rain water harvesting, methods of roof top rain water harvesting in urban setting: Direct method - Storing rain water in tanks for direct use; indirect methods - Recharge pits, bore wells/dug wells, Recharge trenches. Over use of surface and ground water and control measures.

#### UNIT-III:

Importance of water shed and water shed management, Rain water harvesting in rural setting: Check dams, percolation tanks, gabion structure, continuous contour trenches, staggered contour trenches, farm ponds. Surface water and ground water pollution, control measures.

#### UNIT-IV :

Mission Bhagiratha: Telangana government water grid project for drinking water supply - aims and objectives and method of implementation.Mission Kakatiya: Telangana government project for the restoration of minor irrigation tanks, aims and objectives and method of implementation.

#### Text books:

- 1) Water Resources, Conservation and Management by Chatterjee, S.N.
- 2) Groundwater hydrology by Todd
- 3) Watershed management by J.V.S.Murthy
- 4) Applied Hydrogeology by Fetter.

కాకతీయ విశ్వవిద్యాలయం  KAKATIYA UNIVERSITY

UG(CBCS) BA, BCOM, BSC, BBA, BCA - I Semester Examination Results SEP 2021

Semester		Hall Ticket	
I - I Semester		033213002	
Full Name		Father Name	
BALUSUPATI NAVA TEJA		BALUSUPATI DAYAKAR RAO	
Sem / Course		H.T.No. / Type	
11 - B.Sc (B)		033213002 - Regular	

#	Subject Code	Subject Name	Credits	Grade
1	EST	ENVIRONMENTAL STUDIES	2	A
2	EN1	ENGLISH -I	4	D
3	TE1	TELUGU -I	4	B
4	BO1	BOTANY -I	4	F
5	ZO1	ZOOLOGY -I	4	F
6	CH1	CHEMISTRY -I	4	F
7	BOF	BOTANY - I.LAB.	1	O
8	ZOF	ZOOLOGY - I.LAB.	1	O
9	CHF	CHEMISTRY - I.LAB.	1	A

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Last date for Revaluation is 10-12-2021. Revaluation applications should be applied through Online only. [Click Here](#)

కాకతీయ విశ్వవిద్యాలయం  KAKATIYA UNIVERSITY

UG(CBCS) BA, BCOM, BSC, BBA, BCA - VI Semester Examination Results AUG 2021

Semester		Hall Ticket	
III - II Semester		033193002	
Full Name		Father Name	
BATA KEERTHI		BATA KRISHNA	
Sem / Course		H.T.No. / Type	
32 - B.Sc (B)		033193002 - Regular	

#	Subject Code	Subject Name	Credits	Grade
1	QAT	QUANTITATIVE APTITUDE TEST	2	A
2	WRM	WATER RESOURCE MANAGEMENT	2	B
3	PPV	PLANT PHYSIOLOGY	3	A
4	TCB	TISSUE CULTURE AND BIOTECHNOLOGY	3	A
5	IAB	IMMUNOLOGY & ANIMAL BIOTECHNOLOGY	3	A
6	AQB	AQUATIC BIOLOGY	3	B
7	CHE	CHEMISTRY	3	A
8	MEC	MEDICINAL CHEMISTRY	3	A
9	PPVP	PLANT PHYSIOLOGY LAB	1	A
10	TCBP	TISSUE CULTURE AND BIOTECHNOLOGY LAB	1	A
11	IABP	IMMUNOLOGY & ANIMAL BIOTECHNOLOGY LAB	1	O
12	AQBP	AQUATIC BIOLOGY LAB	1	O
13	CHFP	CHEMISTRY LAB	1	A
14	MECP	MEDICINAL CHEMISTRY LAB	1	B

Last date for Revaluation is 28-10-2021. Revaluation applications should be applied through Online only. [Click Here](#)

Result	SGPA	CGPA Part-I	CGPA Part-II	CGPA(over all)
Passed	7.57	Kakatiya University © 2023 - Product by i252		6.91

## Certificate course

SL NO	TITLE OF COURSE	INCHARGE OF COURSE	NO.OF ENROLLED	NO.OF COMPLETED	YEAR	No.of DAYS
1	SOIL SAMPLING AND SOIL TESTING	P.VIJAY ANAND	10	10	2016-17	30
2	SOIL SAMPLING AND SOIL TESTING	Dr.Ch.GANTAYYA GUPTA	10	10	2018-19	30
3	SOIL SAMPLING AND SOIL TESTING	Dr.Ch.GANTAYYA GUPTA	15	15	2019-20	30
4	SOIL SAMPLING AND SOIL TESTING	Dr.Ch.GANTAYYA GUPTA	16	16	2020-21	30



## Criterion 2

# Teaching-learning and Evaluation

## Student Enrolment and Profile

**GOVERNMENT DEGREE COLLEGE, BHADRACHALAM**

**BOTANY ADMISSIONS DATA 2016-2023**

**GROUP WISE, GENDER WISE & SOCIAL STATUS**

**2016-17**

GROUP	*OC*		*BC*		*SC*		*ST*		TOTAL		GRAND TOTAL
	M	F	M	F	M	F	M	F	M	F	
SBC-TM	3	1	11	4	1	3	4	12	19	20	39
BZC-TM	2	6	5	10	8	2	12	13	27	31	58
<b>GRAND TOTAL</b>	<b>5</b>	<b>7</b>	<b>16</b>	<b>14</b>	<b>9</b>	<b>5</b>	<b>16</b>	<b>25</b>	<b>46</b>	<b>51</b>	<b>97</b>

**2017-18**

GROUP	*OC*		*BC*		*SC*		*ST*		TOTAL		GRAND TOTAL
	M	F	M	F	M	F	M	F	M	F	
SBC-TM	1	7	2	2	4	1	12	6	19	16	35
BZC-TM	2	11	1	9	0	12	8	10	11	42	53
<b>GRAND TOTAL</b>	<b>3</b>	<b>18</b>	<b>3</b>	<b>11</b>	<b>4</b>	<b>13</b>	<b>20</b>	<b>16</b>	<b>30</b>	<b>58</b>	<b>88</b>

**2018-19**

GROUP	*OC*		*BC*		*SC*		*ST*		TOTAL		GRAND TOTAL
	M	F	M	F	M	F	M	F	M	F	
SBZ-EM	0	4	2	5	0	1	0	2	3	12	15
SBZ-TM	1	4	2	10	1	2	6	3	10	19	29
BZC-EM	0	2	2	4	3	5	3	4	8	15	23
BZC-TM	0	1	2	8	3	8	2	14	7	31	38
<b>GRAND TOTAL</b>	<b>1</b>	<b>11</b>	<b>8</b>	<b>27</b>	<b>7</b>	<b>16</b>	<b>11</b>	<b>23</b>	<b>28</b>	<b>77</b>	<b>105</b>



**2019-20**

GROUP	*OC*		*BC*		*SC*		*ST*		TOTAL		GRAND TOTAL
	M	F	M	F	M	F	M	F	M	F	
SBZ-EM	0	0	0	0	0	0	0	0	0	0	0
SBZ-TM	0	1	2	2	6	5	7	3	15	11	26
BZC-EM	1	9	0	13	0	6	10	17	11	45	56
BZC-TM	0	2	0	3	0	1	1	9	1	15	16
BZCA-EM	0	0	0	0	0	1	0	0	0	1	1
<b>GRAND TOTAL</b>	<b>1</b>	<b>12</b>	<b>2</b>	<b>18</b>	<b>6</b>	<b>13</b>	<b>18</b>	<b>29</b>	<b>27</b>	<b>72</b>	<b>99</b>

**2020-21**

GROUP	*OC*		*BC*		*SC*		*ST*		TOTAL		GRAND TOTAL
	M	F	M	F	M	F	M	F	M	F	
BZC-EM	1	10	3	16	2	13	8	23	14	62	76
SBZ-EM	2	1	6	2	4	2	4	3	16	8	24
BZCS-EM	0	0	1	0	0	0	0	0	1	0	1
<b>GRAND TOTAL</b>	<b>3</b>	<b>11</b>	<b>10</b>	<b>18</b>	<b>6</b>	<b>15</b>	<b>12</b>	<b>26</b>	<b>31</b>	<b>70</b>	<b>101</b>

**2021-22**

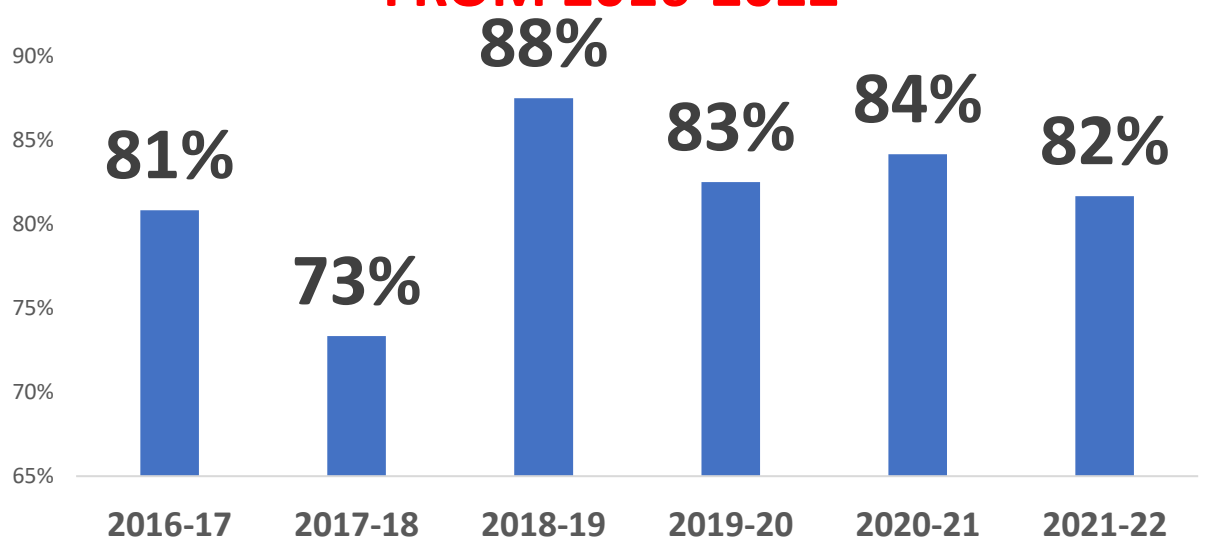
GROUP	*OC*		*BC*		*SC*		*ST*		TOTAL		GRAND TOTAL
	M	F	M	F	M	F	M	F	M	F	
BZC-EM	7	14	5	15	10	5	21	32	43	66	109
BZCS-EM	0	1	0	1	0	0	1	1	1	3	4
SBC-EM	1	0	0	0	1	1	1	9	3	10	13
SBZ-EM	2	2	0	1	0	2	5	9	7	14	21
<b>GRAND TOTAL</b>	<b>10</b>	<b>17</b>	<b>5</b>	<b>17</b>	<b>11</b>	<b>8</b>	<b>28</b>	<b>51</b>	<b>54</b>	<b>93</b>	<b>147</b>

## BOTANY ADMISSIONS DATA 2016-2022

### GOVERNMENT DEGREE COLLEGE, BHADRACHALAM BOTANY ADMISSIONS DATA 2016-2022 GENDER WISE & SOCIAL STATUS

YEAR	*OC*		*BC*		*SC*		*ST*		DIVYANG		TOTAL		GRAND TOTAL
	M	F	M	F	M	F	M	F	M	F	M	F	
2016-17	05	07	16	14	09	05	16	25	00	00	46	51	97/120
2017-18	03	18	03	11	04	13	20	16	00	00	30	58	88/120
2018-19	01	11	08	27	07	16	11	23	00	00	28	77	105/120
2019-20	01	12	02	18	06	13	18	29	00	00	27	72	99/120
2020-21	03	11	09	18	06	15	12	26	01	00	31	70	101/120
2021-22	10	17	05	17	11	08	28	51	00	00	54	93	147/180

### PERCENTAGE OF ADDMISSIONS FROM 2016-2022



<b>ACEDMIC YEAR</b>	<b>I<sup>st</sup> YEAR</b>	<b>II<sup>nd</sup> YEAR</b>	<b>III<sup>rd</sup> YEAR</b>	<b>GRAND TOTAL</b>
<b>2016-17</b>	<b>97</b>	<b>67</b>	<b>59</b>	<b>223</b>
<b>2017-18</b>	<b>88</b>	<b>56</b>	<b>62</b>	<b>206</b>
<b>2018-19</b>	<b>105</b>	<b>60</b>	<b>49</b>	<b>214</b>
<b>2019-20</b>	<b>99</b>	<b>76</b>	<b>58</b>	<b>233</b>
<b>2020-21</b>	<b>101</b>	<b>71</b>	<b>70</b>	<b>242</b>
<b>2021-22</b>	<b>147</b>	<b>70</b>	<b>63</b>	<b>280</b>

**NO. OF TEACHING POSTS SANCTIONED:**

<b>S.NO</b>	<b>No of Teaching Posts Sanctioned</b>	<b>Filled – in</b>	<b>Vacant</b>	<b>On OD Basis</b>
<b>1</b>	<b>02</b>	<b>02</b>	<b>00</b>	<b>Nil</b>

## Department workload particulars:

Programme B.Sc.	Paper	Theory Hours/week	Practical Batches	Practical Hours	Total
1 st YEAR	SEM-1	4	6	3	22
	SEM-2	4	6	3	22
AECC	SEM-1&2	2	~~	~~	2
2 nd YEAR	SEM-3	4	3	3	13
	SEM-4	4	3	3	13
3 rdYEAR	SEM-5	4	3	3	13
	SEM-6	4	3	3	13
GE	SEM-5	2	~~	~~	2
					<b>100/WEEK</b>

## List of Faculty members:

S. No.	Name of Faculty	Qualification	Nature of appointment	Experience	Year of Joining	Year of Leaving
1	<b>D.RAMESH</b>	M.Sc, M.Ed, APSET	Regular	<b>EXP:10 YRS</b>	2016	2018
2	<b>P.VIJAYANAND</b>	M.Sc, B.Ed, APSET	Regular	<b>EXP:11 YRS</b>	2016	2018
3	<b>K.SARITHA</b>	<b>M.Sc, B.Ed, APSET</b>	Regular	<b>EXP:11 YRS</b>	2016	2018
4	<b>Dr.L. DHOOP SINGH</b>	M.Sc, Ph.D	Contract	<b>EXP:15 YRS</b>	2018	2019
5	<b>B.JAGAN MOHAN</b>	M.Sc, B.Ed	Contract	<b>EXP:18 YRS</b>	2018	2019
6	<b>Dr.Ch.GANTAYYA GUPTA</b>	M.Sc, Ph.D	Regular	EXP:13 YRS	2019	2022
7	<b>S.SYAM PRASAD</b>	M.Sc, B.Ed, APSET	Regular	<b>EXP:07 YRS</b>	2020	Till date
8	<b>Dr.N.NAGA SAMEERA</b>	<b>M.Sc, B.Ed,Ph.D</b>	contract	<b>EXP:11 YRS</b>	2022	Till date

## RESULT ANALYSIS:

### SEMSTER/PAPER WISE RESULT

2016-17 & 2017-18

2016-17				2017-18			
SUB:BOTANY	APPERED	PASSED	%	SUB:BOTANY	APPERED	PASSED	%
SEM-1	83	48	58%	SEM-1	71	37	52%
SEM-2	67	42	63%	SEM-2	64	45	70%
2-YEAR	70	45	64%	SEM-3	56	37	66%
3-YEAR-PAPER-III	59	52	88%	SEM-4	53	42	79%
3-YEAR-PAPER-IV	59	48	81%	3-YEAR-PAPER-III	62	55	89%
				3-YEAR-PAPER-IV	62	58	94%

### RESULT ANALYSIS: SEMSTER/PAPER WISE RESULT FROM 2018-19 TO 2021-22

SUB:BOTANY	2018-19			2019-20			2020-21			2021-22		
	APPERE D	PASSE D	%	APPERE D	PASSE D	%	APPERE D	PASSE D	%	APPERE D	PASSE D	%
SEM-1	80	53	66%	82	58	71%	73	46	63%	118	86	39%
SEM-2	79	67	85%	70	66	94%	70	45	64%	101	75	57%
SEM-3	60	47	78%	76	63	83%	71	67	94%	70	67	96%
SEM-4	58	48	83%	74	72	97%	71	62	87%	63	53	84%
SEM-5	49	42	86%	58	38	66%	70	70	100%	64	61	95%
	49	47	96%	58	49	84%	70	70	100%			
SEM-6	47	44	94%	57	51	89%	70	70	100%	64	55	86%
	47	44	94%	57	55	96%	70	70	100%			

YEAR	SEM	O- GRADE	A- GRADE	B- GRADE	C- GRADE	D- GRADE	E- GRADE	F- GRADE	TOTAL APPERED	TOTAL PASS	PASS %
2016-17	SEM-1	1	6	12	18	9	2	35	83	48	58%
2016-17	SEM-2	2	5	24	7	3	1	25	67	42	63%

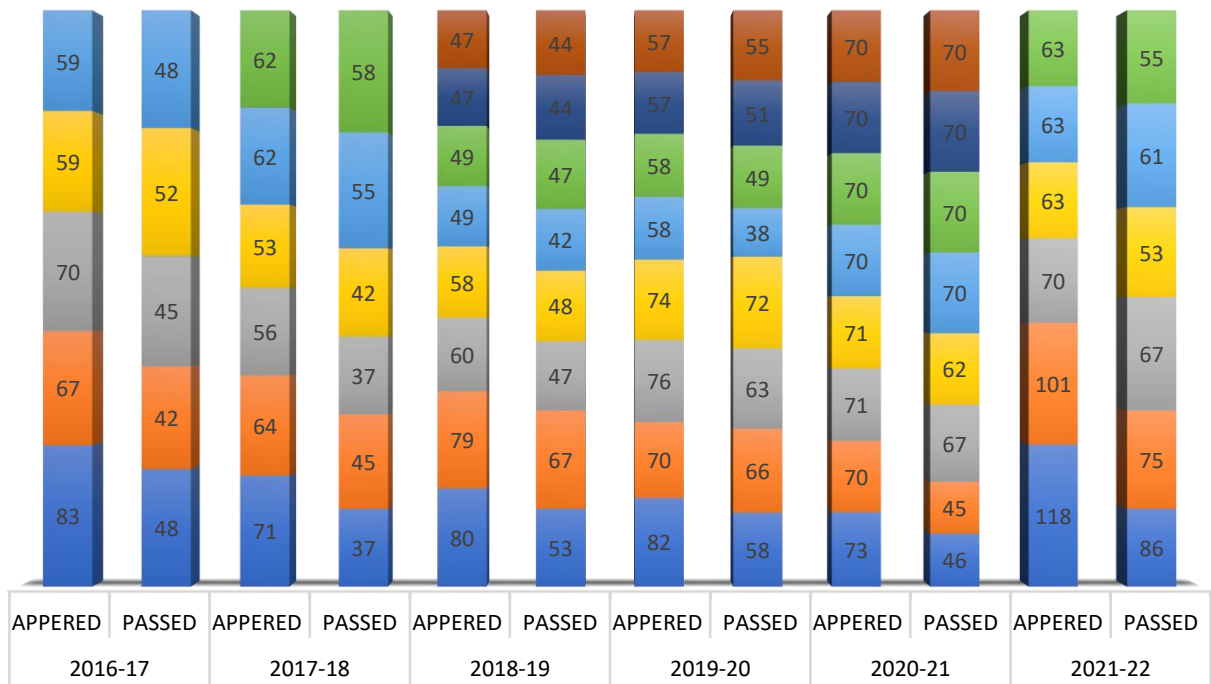
YEAR	SEM	O- GRADE	A- GRADE	B- GRADE	C- GRADE	D- GRADE	E- GRADE	F- GRADE	TOTAL APPERED	TOTAL PASS	PASS %
2017-18	SEM-1	1	3	14	9	8	2	34	71	37	52%
2017-18	SEM-2	5	13	10	10	7	0	19	64	45	70%
2017-18	SEM-3	0	6	9	15	6	1	19	56	37	66%
2017-18	SEM-4	4	13	15	7	2	1	11	53	42	79%

YEAR	SEM	O- GRADE	A- GRADE	B- GRADE	C- GRADE	D- GRADE	E- GRADE	F- GRADE	TOTAL APPERED	TOTAL PASS	PASS %
2018-19	SEM-1	2	11	16	18	6	0	27	83	48	58%
2018-19	SEM-2	6	18	29	9	4	1	12	79	67	85%
2018-19	SEM-3	1	8	16	14	5	3	13	60	47	78%
2018-19	SEM-4	7	24	11	5	1	0	10	58	48	83%
2018-19	SEM-5	2	11	13	10	3	3	7	49	42	86%
2018-19	SEM-5	2	34	8	3	0	0	2	49	47	96%
2018-19	SEM-6	5	29	4	3	2	1	3	47	44	94%
2018-19	SEM-6	10	24	7	4	0	0	2	47	45	96%

YEAR	SEM	O- GRADE	A- GRADE	B- GRADE	C- GRADE	D- GRADE	E- GRADE	F- GRADE	TOTAL APPERED	TOTAL PASS	PASS %
2019-20	SEM-1	2	16	18	9	13	0	24	82	58	71%
2019-20	SEM-2	15	27	17	5	0	2	4	70	66	94%
2019-20	SEM-3	0	17	23	14	6	3	13	76	63	83%
2019-20	SEM-4	4	48	16	3	1	0	2	74	72	97%
2019-20	SEM-5	5	14	12	5	2	0	20	58	38	66%
2019-20	SEM-5	5	22	12	6	3	1	8	57	49	86%
2019-20	SEM-6	4	27	11	4	5	0	6	57	51	89%
2019-20	SEM-6	3	16	18	3	8	7	2	57	55	96%

YEAR	SEM	O- GRADE	A- GRADE	B- GRADE	C- GRADE	D- GRADE	E- GRADE	F- GRADE	TOTAL APPERED	TOTAL PASS	PASS %
2020-21	SEM-1	0	8	15	10	13	0	47	93	86	72%
2020-21	SEM-2	1	13	16	12	3	0	25	70	75	74%
2020-21	SEM-3	1	45	16	5	0	0	0	67	67	100%
2020-21	SEM-4	1	20	19	18	4	0	5	67	62	93%
2020-21	SEM-5	9	35	19	5	2	0	0	70	70	100%
2020-21	SEM-5	1	31	31	5	2	0	0	70	70	100%
2020-21	SEM-6	7	51	10	0	2	0	0	70	70	100%
2020-21	SEM-6	7	53	9	1	0	0	0	70	70	100%

### RESULT ANALYSIS 2016-2022



# Criterion -3

## RESEARCH, INNVATION & EXTENSION ACTIVITIES

### Research Papers/Books/Chapters Published by the faculty

SL NO	Name of the Faculty	Title of the paper	Name of journal	Year of publication	ISSN number
1	S. Syam Prasad	Identification and charcterization of AM fungi associated with the roots of Diospyros mlanoxylon	Indian Mycological Society	2021	0971:3719
2	S. Syam Prasad	Role of the AM Fungi in Physio-chemical Properties of Soil, Study in Sathupally Forest Area, Khammam (District) Telangana State with Reference to Anogeissus latifolia and Bambusa arundinacea	International Journal of Current Microbiology and Applied Sciences (IJCMAS)	2020	2319-7692
3	Dr.N. Naga sameera	Study of physico-chemical parameters of alisagar and ashok sagar lakes of nizamabad district, Telangana	International Journal of Recent Scientific Research	2019	0976-3031
4	Dr.N. Naga sameera	Studies on plankton Diversity of Ashok sagar lake in telangana	International Journal of Scientific Research in Science and Technology	2019	2395-602X





Original Research Article

<https://doi.org/10.20546/ijcmas.2020.909.342>

**Role of the AM Fungi in Physio-chemical Properties of Soil, Study in Sathupally Forest Area, Khammam (District) Telangana State with Reference to *Anogeissus latifolia* and *Bambusa arundinacea***

**S. Syam Prasad<sup>1\*</sup>, K. Ashok Kumar<sup>2</sup>, P.R. Sushma<sup>2</sup> and B. Ramadevi<sup>2</sup>**

<sup>1</sup>Department of Botany, Government Degree College, Bhadrachalam, Telangana, India

<sup>2</sup>Department of Botany, University College of Science, Osmania University, Hyderabad, Telangana, India

\*Corresponding author

**ABSTRACT**

**Keywords**

*Anogeissus latifolia*,  
*Bambusa arundinacea*,  
Colonization,  
Khammam, Physio-chemical properties,  
Sathupally, Khammam

In the present study, explained about the physio-chemical properties of soil with relation to the AM fungi. Soil was taken from Sathupally forest area of Telangana state. Before and after taken the soil all the properties of soil were taken i.e. p<sup>H</sup>, moisture content, Temperature, Water holding capacity. 2 different soil samples were taken from 2 different sites and analyze the soil samples in laboratory which are having 11 species belongs to 2 genera of Combretaceae and Poaceae family. Hence, an attempt has been made to

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University of Calcutta, Kolkata 700 019, India

**Identification and characterization of arbuscular mycorrhizal fungi associated with the roots of *Diospyros melanoxylon* Roxb.**

**S. SYAM PRASAD<sup>1\*</sup>, K. ASHOK KUMAR<sup>2</sup>, P.R. SUSHMA<sup>2</sup> AND B. RAMADEVI<sup>2</sup>**

<sup>1</sup>Department of Botany, Government Degree College, Bhadrachalam, Telangana-570111.

<sup>2</sup>Department of Botany, University College of Science, Osmania University, Hyderabad, Telangana-500007

Received : 11.06.2021

Accepted : 25.11.2021

Published : 27.12.2021

Isolation, identification and characterization of arbuscular mycorrhizal (AM) fungi associated with the roots of *Diospyros melanoxylon* Roxb. were studied by taking two random samples from plants grown in area from forest of Sathupally, Telangana state with physiological properties of samples. Properties of soil samples tested were- pH, moisture content, temperature and water holding capacity. Two samples containing roots were taken from two different randomly selected areas and were analyzed in laboratory which showed the presence of 11 species belonging to 2 genera. Hence, an attempt has been made to screen the availability of AM fungi associated with forest angiosperm species *Diospyros melanoxylon* in Sathupally forest area of Telangana State. The rhizosphere samples along with roots of *Diospyros melanoxylon* were collected, AM fungi isolated and identified. The fungal spore numbers in soil were determined along with the percentage of root colonization.

**Key words:** *Diospyros melanoxylon*, root colonization, AM fungi

## Studies on Plankton Diversity of Ashok Sagar Lake in Telangana

**N. Naga Sameera, M. Aruna\***

\*Department of Botany, Telangana University, Dichpally, Nizamabad, Telangana, India

\*Corresponding Author – email: drarunatu@gmail.com

### ABSTRACT

The present study was undertaken to study the diversity of Phytoplankton of freshwater bodies in Nizamabad District and after survey Ashok Sagar lake was selected. The present work was carried out during October, 2013 to September, 2014. Ashok Sagar lake is main source of drinking water for Nizamabad and surrounding villages, It also used for agriculture and support fish culture. All the collected water samples were preserved in 4% formalin and were observed under binocular microscope for identification. Mainly four groups of planktonic algae were recorded in Ashok Sagar lake. They were Chlorophyceae, Cyanophyceae, Euglenophyceae and Bacillariophyceae. The species diversity pattern was more or less uniform throughout the study period in lake, indicating the oligotrophic nature and it is useful for human consumption.

**Keywords :** Phytoplankton, Ashok Sagar Lake, Diversity , Oligotrophic, Nizamabad.



Available Online at <http://www.recentscientific.com>

CODEN: IJSRFP (USA)

International Journal of Recent Scientific Research  
Vol. 10, Issue, 01(C), pp. 30329-30331, January, 2019

**International Journal of  
Recent Scientific  
Research**

DOI: 10.24327/IJSR

### Research Article

## STUDY OF PHYSICO-CHEMICAL PARAMETERS OF ALISAGAR AND ASHOK SAGAR LAKES OF NIZAMABAD DISTRICT, TELANGANA

**Naga Sameera N and Aruna M\***

Department of Botany, University College, Telangana University, Dichpally,  
Nizamabad, T.S. INDIA

DOI: <http://dx.doi.org/10.24327/ijrsr.2019.1001.3036>

### ARTICLE INFO

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Published online 28<sup>th</sup> January, 2019

#### Key Words:

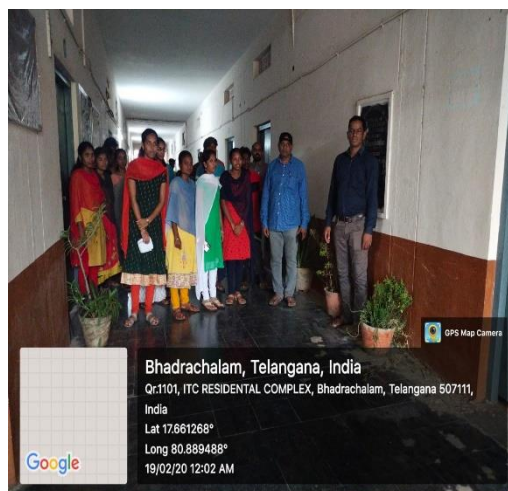
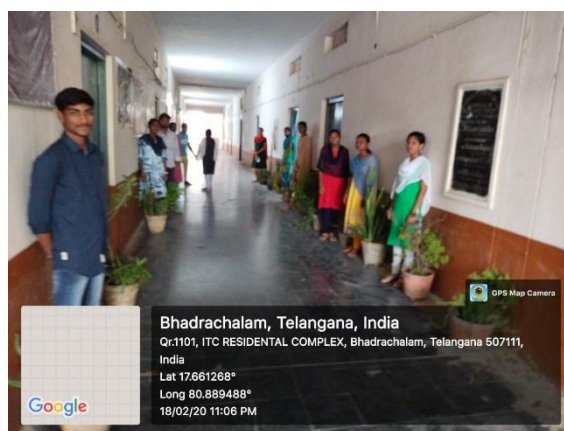
Alisagar lake, Ashok Sagar Lake, Physico-chemical parameters, oligotrophic.

### ABSTRACT

The present study was undertaken to study the physico-Chemical parameters of water. Alisagar and Ashok sagar lakes are the well known lakes of Nizamabad District. They have gained importance as point of tourism. To assess the quality of water and algal growth of these lakes Physico-chemical Parameters like temperature, pH, total alkalinity, Dissolved Oxygen, free CO<sub>2</sub> total hardness, phosphate were carried out seasonally from 2014 to 2015. Data obtained in this study has shown the Co-relation between physico-chemical parameters and occurrence of algae. It was revealed that status of water is oligotrophic and it is suitable for human consumption.

**SEMINARS /WORK SHOPS CONDUCTED AT COLLEGE**

SL NO	TOPIC	DATE OF WEBINAR/ WORKSHOP CONDUCTED	RESOURCE PERSON	DISGINATION
1	Medicinal and Aromatic Plants	18-02-2020	G.D.N Kumar Garu	BHMS AYERVEDIC DOCOTR



### ATTEND SEMINARS /WORK SHOPS

SL NO	NAME OF THE STUDENT	TOPIC	DATE OF WEBINAR/WORKSHOP ATTENDED	ORGANISED BY
1	S.SYAM PRASAD	ONE DAY NATIONAL SEMINAR OM FOREST RECOUSUCES, DIVERSITY, UTILIZATION AND CONSERVTION	05-11-2022	GDC BHAINSA TELANGANA
2	S.SYAM PRASAD	TWO DAYS NATIONAL LEVEL INTER DISCIPLINARY SEMINAR ON PERSPECTIVES OF HYROBIOLOGY	19-01-2023	SRR GDC KARIM NAGAR TELANGANA

SL. NO	NAME OF THE STUDENT	TOPIC	DATE	ORGANISED BY
1	S. BHARATH-3SBZ	ONE DAY NATIONAL SEMINAR ON FOREST RESOURCES, DIVERSITY, UTILIZATION AND CONSERVTION	05-11-2022	GDC BHAINSA
2	M.ANUSHA-3BZC			
3	M.DIVYA SRI-3BZC			
4	K.RAJYA LAXMI-3 SBZ			
5	CH.PRASANNA-3SBZ			
6	K.SATISH KUMAR3SBZ			
7	M.BHAVANI-3BZC			
8	N.RISHITHA-2BZC			
9	N.SHIVA RAJU-3SBZ			
10	M.ARUNA KUMARI-3BZC			
11	B.REVATHI-3BZC			
12	P.RIBKA-3BZCS.			
13	LAVANYA-3BZC			



**Gopal Rao Patil Government Degree College, Bhainsa.**

**Dist. Nirmal, Telangana State - 504 103**

(Affiliated to Kakatiya University, Warangal)

**One Day National Seminar**

on

**“Forest Resources, Diversity, Utilization and Conservation”**

**Sponsored by Telangana State Council of Higher Education**

**Organized by Department of Botany**

**on 5 th November, 2022**



## CERTIFICATE

This is to certify that Sri/Smt/Dr Somazoni Bharath Department of SBZ  
University / College/ Institution Govt Degree College, Bhadrachalam  
has participated in One Day National Seminar on **“Forest Resources, Diversity, Utilization and Conservation”** on 5th November, 2022. He / She Deliverd Keynote Address / Invited Talk / Chaired a session / Presented a paper / Poster entitled \_\_\_\_\_

in this Seminar.

**Guntha Sudhaker**  
Organising Secretary

**Dr. Velmala Madhu**  
Convenor

**Dr. M. Sudhaker**  
Principal

## STUDENT STUDY PROJECTS

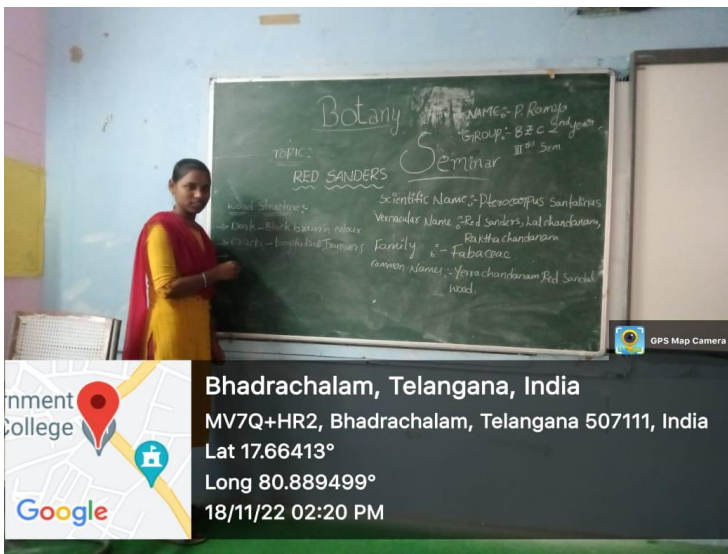
SL NO	TITLE	YEAR	INCHARGE OF PROJECT	NO.OF STUDENTS PARTICIPATED
1	A study of socio – Economic Development of Tribes in Bhadrachalam Forest area by utilizing the forest plant produce	2017-18	K.SARITHA	5
2	AN ETHNO BOTANICAL SURVEY OF MEDICINAL PLANTS USED BY VILLAGERS OF BURGAMPAHAD	2020-21	S.SYAM PRASAD	10
3	A STUDY ON PLANT DIVERSITY OF GOVERNMENT DEGREE COLLEGE BHADRACHALAM AND ITS SURROUNDINGS	2020-21	Dr.Ch.GANTAYAA GUPTA	10
4	USES OF SMART PHONE IN SMART FARMING IN BHADRACHALAM AREA	2022-23	S.SYAM PRASAD	6



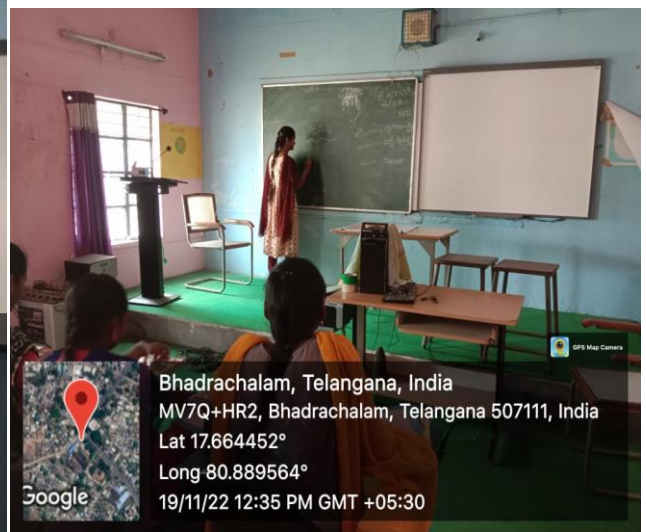
**STUDENTS COLLECT THE INFORMATION FORM VILLAGE**

## STUDENT SEMINAR

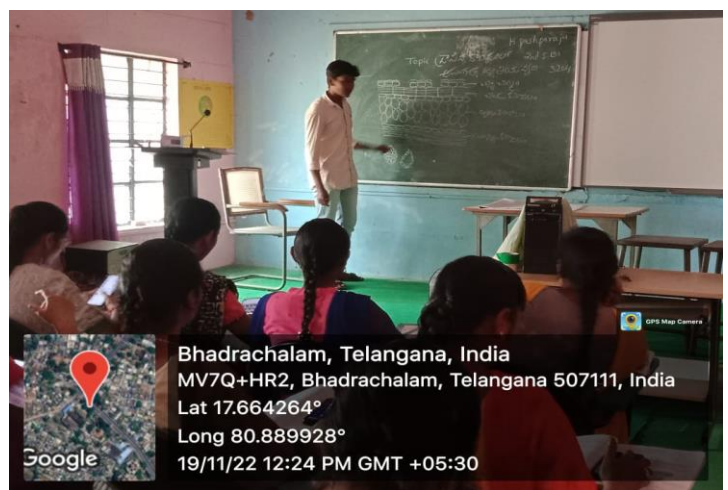
SL NO	No OF STUDENTS PRESENTED THE SEMINAR	DATE	YEAR	No.of STUDENT PATICIPATED IN SEMINAR
1	M.PADMA, BBHARGAVI, P.BHAVANI, V.MOUNIKA, D.SANDHYA	09-09-2016	YEAR-3	33
2	G.PAVANI, K.RAMESH, P.SRINU, E.VENKATESH	05-08-2017	YEAR-3	27
3	M.SHIRISHA, N.VAVEENA, V.SANDHYA, R.NARENDRA KUMAR	29-08-2017	YEAR-3	30
4	K.RAMESH, G.RAJ KUMAR, CH.MANI DEEP, E.VENKATESH	05-08-2017	YEAR-2	28
5	S.BHARGAVI, P.SRAVAN, J.JIVA MANI, K.TEJA SRI	05-01-2018	YEAR-3	23
6	A.KRISHNA BHARGAV, M.SRIKANTH, M.SIRISHA,A.SUDHAKAR	22-02-2018	YEAR-3	30
7	CH.MOHAN SAI, R.SUCHITRA, B.KAVITHA,M.SANDHYA	17-04-2018	YEAR-1	37
8	K.SRAVANI	04-09-2018	YEAR-3	22
9	S.BHUVANESWARI	14-01-2019	YEAR-2	29
10	K.JAYA RAM	18-12-2019	YEAR-3	27
11	K.MUTYALA RAO	17-02-2019	YEAR-3	21
12	G.PAVAN	05-08-2019	YEAR-1	32
13	B.KUMARA SWAMY	20-11-2020	YEAR-3	19
14	J.BHARATH KUMAR	28-12-2020	YEAR-3	19
15	G.SARIKA	25-11-2020	YEAR-2	32
16	K.MAHENDAR	29-10-2020	YEAR-3	24
17	J.NAGA RAJU	27-02-2021	YEAR-3	19
18	V.VIJAY	12-08-2021	YEAR-1	30
19	V.GANESH	14-0-2021	YEAR-3	27
20	S.SHIREESHA	29-10-2021	YEAR-3	20
21	R.RANJITH	17-11-2021	YEAR-3	31



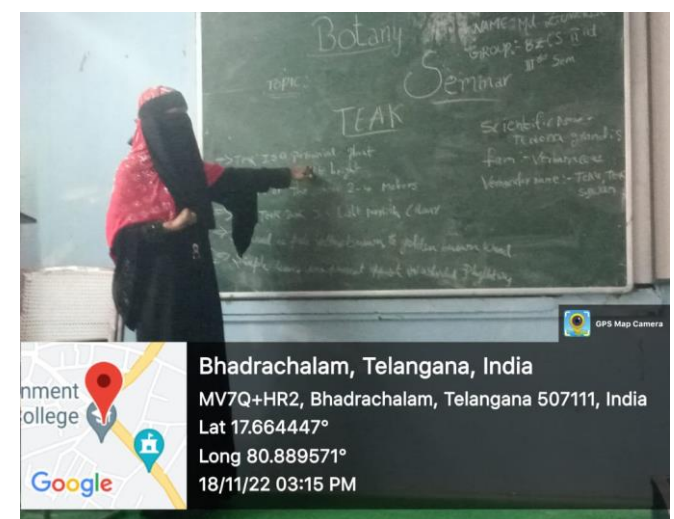
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 MV7Q+HR2, Bhadrachalam, Telangana 507111, India  
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 Long 80.889499°  
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**Bhadrachalam, Telangana, India**  
 MV7Q+HR2, Bhadrachalam, Telangana 507111, India  
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 Long 80.889564°  
 19/11/22 12:35 PM GMT +05:30



**Bhadrachalam, Telangana, India**  
 MV7Q+HR2, Bhadrachalam, Telangana 507111, India  
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 Long 80.889928°  
 19/11/22 12:24 PM GMT +05:30



**Bhadrachalam, Telangana, India**  
 MV7Q+HR2, Bhadrachalam, Telangana 507111, India  
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 Long 80.889571°  
 18/11/22 03:15 PM



**Bhadrachalam, TG, India**  
 Bhadrachalam, Bhadrachalam, 507111, TG, India  
 Lat 17.663985, Long 80.889431  
 11/02/2022 12:33 PM GMT+05:30  
 Note: Captured by GPS Map Camera

# Extension Activities

Department of botany actively participated /conducted many programmes inside /outside the campus and conducted awareness programmes.

## BLOOD DONATION

### BSc life science students donating blood as part of



### ఎన్ఎస్ఎస్ ఆర్డర్స్ లో రక్తదానం



భద్రాచలం, సెప్టెంబర్ 25 (ప్రభుత్వం దినోత్సవం సందర్భంగా) : నేషనల్ సర్వీస్ స్కీమ్ పట్టణంలోని ప్రభుత్వ డిగ్రీ, పిజి (ఎన్ఎస్ఎస్) 50వ ఆవిర్భావ కళాశాల విద్యార్థులు బుధవారం

రక్తదానం చేశారు. కళాశాల ప్రిన్సిపాల్ భద్రయ్య సైతం విద్యార్థులతో కలిసి రక్తదానం చేశారు. స్థానిక ప్రభుత్వ ఏరియా ఆసుపత్రిలో విద్యార్థులు రక్తదానం చేశారు. ఈ సందర్భంగా ఏర్పాటు చేసిన సమావేశంలో ఏరియా ఆసుపత్రి ఆర్ఎంఓ చావా యుగంధర్ విద్యార్థులకు పలు సూచనలు చేశారు. ఈ కార్యక్రమంలో మధర్ థెరిస్సా ఛారిటబుల్ ట్రస్టు అధ్యక్షులు కొప్పుల మురళి, కళాశాల అధ్యాపకులు, విద్యార్థులు పాల్గొన్నారు.



As part of **NSS**, every year our college students **adopt a village** and participate in its progress during the winter special camp (one week programme)



Our students helping the elderly during the **Lok Sabha** elections



As a part of social service, our students take out various **rallies** in the town and try to create awareness about them



**SAY TO NO DRUGS**



**SWACHHA SEVA**



**SAY TO NO PLASTIC**



**BATHUKAMMA CELEBRATIONS**

# TELANGANA HARITHA HARAM





**అక్షరం**  
అక్షరం తెలుగు దినపత్రిక

aksharam telugu daily tab 3.11.2021 - 03 Nov 2021 - Page 13

**హరిత దీపావళి అవగాహన ర్యాలీ**

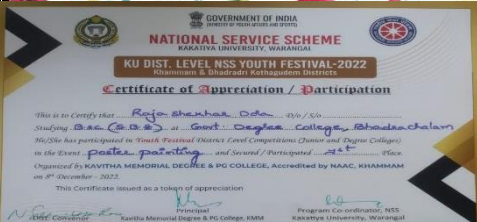
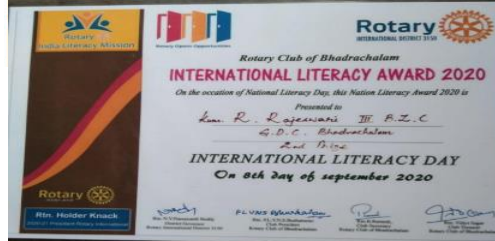
భద్రాద్రి కొత్తగూడెం /భద్రాచలం/ నవంబర్ 2 /అక్షరం సూన్ :  
పట్టణంలోని ప్రభుత్వ డిగ్రీ కళాశాల వృక్ష శాస్త్ర విభాగం ఆధ్వర్యంలో హరిత దీపావళి అవగాహన ర్యాలీ నిర్వహించారు. విద్యార్థులు అధ్యాపకులు ర్యాలీ ర్యూహించి టపాసుల వలన కలిగే అనర్ధాలను పర్యావరణ కాలుష్యం యంత్రించాలని ప్రజలకి మల్లీ ప్రమిదలను పంచటం ద్వారా అవగాహన ప్పించారు ఈ దీపావళి టపాసుల రహితంగా పర్యావరణ హితంగా జరుపుకోవాలని ప్రజలందరికీ విన్నవించారు. ఈ కార్యక్రమంలో కళాశాల ప్రిన్సిపాల్ భద్రయ్య వైస్ ప్రిన్సిపాల్ రెడ్డయ్యగా వృక్ష శాస్త్ర విభాగ అధిపతి దాక్షర్ జి గుప్తా అధ్యాపకులు శ్యాం ప్రసాద్ వీరప్ప శ్రీనివాస్ పావని లలిత పాల్గొన్నారు



# GREEN ACTIVITIES

## STUDENT COMPETITIONS & AWARDS

SL NO	NAME OF THE STUDENT	GROUP	PARTICIPATION OF THE PROGRAMME	POSITION
1	B. REVATHI	BZC-2 YEAR	POSTER PAINTING- WORLD ENVIRONMENTAL DAY CELEBRATIONS	1 ST PLACE IN DISTRICT LEVEL
2	M.HARIKA	BZC-2 YEAR	POSTER PAINTING- WORLD ENVIRONMENTAL DAY CELEBRATIONS	2 ND PLACE IN DISTRICT LEVEL
3	N. RISHITHA TEAM	BZC-2 YEAR	QUIZ ON EARTH DAY	1 ST PLACE IN COLLEGE LEVEL
4	MD.ZUVERIA	BZC-2 YEAR	ELOCUTION ON WORLD FOREST DAY	1 ST PLACE IN COLLEGE LEVEL
5	S. RAJASEKHAR DORA	BZC-1YEAR	POSTER PAINTING	1 ST PLACE IN DISTRICT LEVEL
6	R. RAJESWARI	BZC-3YEAR	RESTORE OUR EARTH	PARTICIPATION
7	R. RAJESWARI	BZC-3YEAR	ENVIRONAMYTNAL INFLUENCES AND BIODIVERSITY	PARTICIPATION
8	R. RAJESWARI	BZC-3YEAR	INTERNATIONAL LITERCY DAY	PARTICIPATION
9	R. RAJESWARI	BZC-3YEAR	INTERNATIONAL DAY OF BIODIVERSITY	PARTICIPATION





**NO. OF LABORATORIES -03**

**NO. OF MUSEUM -01**

**STAFF ROOM-01**

**TERRACE SHADE NET-01**

**COMPUTER -01**

**PRINTER-01**

**LCD PROJECTOR-01**

**Wi-Fi NET WORK-YES (60 MBPS)**



<b>GOVERNMENT DEGREE COLLEGE, BHADRACHALAM</b>		
<b>DEPARTMENT OF BOTANY</b>		
<b>LIST OF LABORATORY EQUIPMENT</b>		
<b>SL NO</b>	<b>NAME OF THE ITEM</b>	<b>QUANTITY</b>
1	COMPOUND MICROSCOPE	59
2	DISSECTION MICROSCOPE	46
3	MONOCULAR MICROSCOPE	5
4	BINOCULAR MICROSCOPE	2
6	OVER HEAD PROJECTOR	1
7	DISSECTING MAGNIFIER	12
8	SLIDES	250
9	SPECIMENS	31
10	BIO VISUAL CHARTS	65
11	BURETTES	40
12	PIPPETS	45
13	BURETT STANDS	48
14	CONICAL FLASKS 250 ML	20
15	CONICAL FLASKS 500 ML	15
16	CONICAL FLASKS 750 ML	10
17	MEASURING CYLINDERS	5
18	CENTRIFUGE TUBE	10
19	OCULAR MICROMETER	1
20	THERMOMETER	2
21	SPIRIT LAMP	7
22	DROPPING BOTTLES	57
23	BOD BOTTLES	12
24	CHROMATOGRAPHY TUBES	34

<b>GOVERNMENT DEGREE COLLEGE, BHADRACHALAM</b>		
<b>DEPARTMENT OF BOTANY</b>		
<b>LIST OF LABORATORY EQUIPMENT</b>		
<b>SL NO</b>	<b>NAME OF THE ITEM</b>	<b>QUANTITY</b>
25	FUNNELS	48
26	WOODEN SLIDE BOXES	6
27	TEST TUBES	100
28	PETRI DISHES	30
29	TEST TUBE BASKETS	25
30	STAINING RACKS	20
31	VASCULUM	1
32	LAB WORKING TABLES	24
33	STOOLS	69
34	CALLING BELL	2
35	STOP CLOCK	2
36	STEEL ALMIRAH	9
37	SLIDE CABINET	3
38	BIO VISIBLE CHARTS CABINET	3
39	ANALYTICAL BALANCED	1
40	HERBARIUM CABINET	1
41	LCD PROJECTOR	1
42	HOT AIR OVEN	1
43	DIGITAL PH METRE	1
44	DIGITAL TDS METER	1
45	HERBARIUM PRESSING PLATES	10
46	GLASS MUSEUM CABINETS	6
47	MODELS	10





**Department of Botany has a library with**

**Reference books-36**

**Practical manuals-06**

**PG entrance books-02**

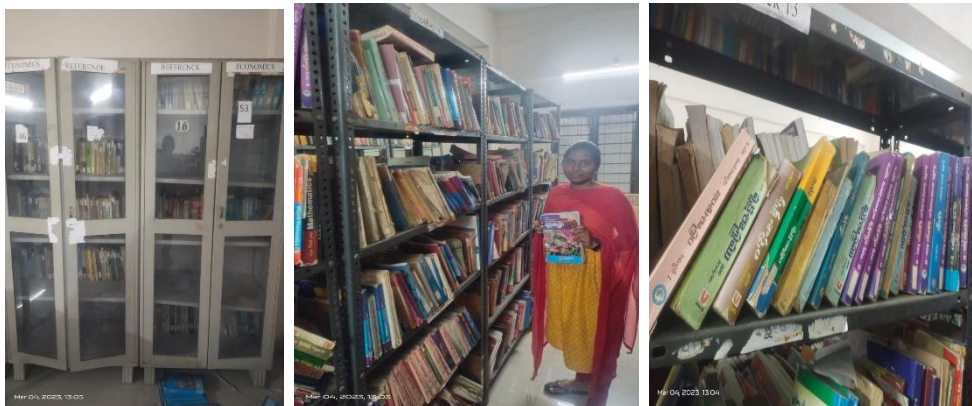
**Other books-02.**

**e-magzines send through what's app group -Times of Agriculture**

**It Is Free Open E-Magazine**

**<https://timesofagriculture.in/issue/>**

**They are readily available for faculty and students in the department**



**COLLEGE LIBRARY**



## DEPARTMENTAL LIBRARY

# Criterion -5

## STUDENT SUPPORT & PROGRESSION

S.NO	HALL TICKET NUMBER	STUDENT NAME	GROUP	ALLOTTED SEAT PG/B.ed	YEAR	INSTITUTION NAME
1	033-15-3024	MARAM PADMA	BSC LIFE SCIENCE	M.SC [BOTANY]	2016-2017	UNIVERSITY COLLEGE OF SCIENCE , WARANGAL
2	033-16-3043	SHANTHAPURI BHARGAVI	BSC LIFE SCIENCE	M.SC [BOTANY]	2017-2018	ARTS & SCIENCE COLEGE, SUDEDARI,WARANGAL
3	033-16-3021	KONDAPALLI SARASWATHI	BSC LIFE SCIENCE	B.ed	2017-2018	MOTHER THERESSA COLLEGE OF EDUCATION ,BHADRACHALAM
4	033-17-3046	T.PADMA	BSC LIFE SCIENCE	M.SC [BOTANY]	2018-2019	GEETHAM PG COLLEGE, SATHUPALLY
5	033-18-3042	E.MANI LAHARIKA	BSC LIFE SCIENCE	M.SC [BOTANY]	2019-2020	GEETHAM PG COLLEGE, SATHUPALLY
6	033-19-3213	R.RAJESWARI	BSC LIFE SCIENCE	B.ed	2020-2021	HOLIFAIETH COLLEGE OF EDUCATION ,PALVANCHA
7	033-19-3309	K.DWARAKA	BSC LIFE SCIENCE	M.SC [BOTANY]	2020-2021	MOTHER THERESSA COLLEGE OF EDUCATION ,BHADRACHALAM
8	033-19-3009	M.SHIRIRSHA	BSC LIFE SCIENCE	B.ed	2020-2021	MOTHER THERESSA COLLEGE OF EDUCATION ,BHADRACHALAM
9	033-20-3241	SAPAVATH SPANDANA	BSC LIFE SCIENCE	B.ed	2021-2022	SRI ARABINDO COLLEGE OF EDUCATION,NARKET PALLY,NALGONDA
10	033-20-3221	KUNJA RENUKA	BSC LIFE SCIENCE	M.SC [BOTANY]	2021-2022	SINGERENI WOMEN'S P.G COLLEGE , KOTHAGUDEM
11	033-20-3006	M.SRIDEVI	BSC LIFE SCIENCE	B.ed	2021-2022	SRI ARABINDO COLLEGE OF EDUCATION,NARKET PALLY,NALGONDA
12	033-20-3222	M.HARIKA	BSC LIFE SCIENCE	B.ed	2021-2022	SRI ARABINDO COLLEGE OF EDUCATION,NARKET PALLY,NALGONDA
13	033-20-3517	P.ASHWINI	BSC LIFE SCIENCE	B.ed	2021-2022	SRI ARABINDO COLLEGE OF EDUCATION,NARKET PALLY,NALGONDA
14	033-20-3248	V.SRAVAN KUMAR	BSC LIFE SCIENCE	M.SC [BOTANY]	2021-2022	SR AND BGNR COLLEGE , KHAMMAM
15	033-20-3212	G.SDAI KIRAN	BSC LIFE SCIENCE	M.SC [BOTANY]	2021-2022	SR AND BGNR COLLEGE , KHAMMAM
16	033-20-3211	G.KAVAY SREE	BSC LIFE SCIENCE	M.SC [BOTANY]	2021-2022	SINGERENI WOMEN'S P.G COLLEGE , KOTHAGUDEM

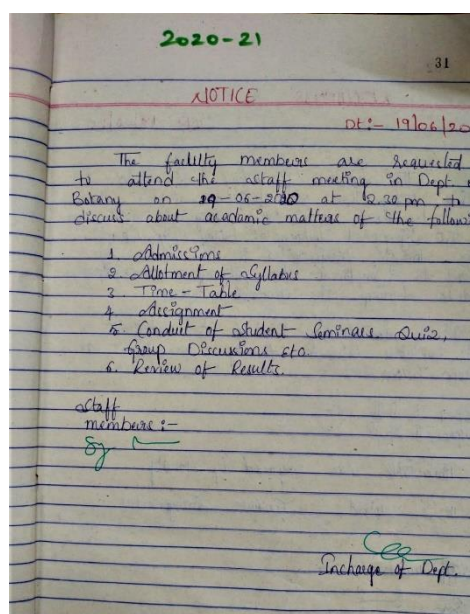
# Criterion -6

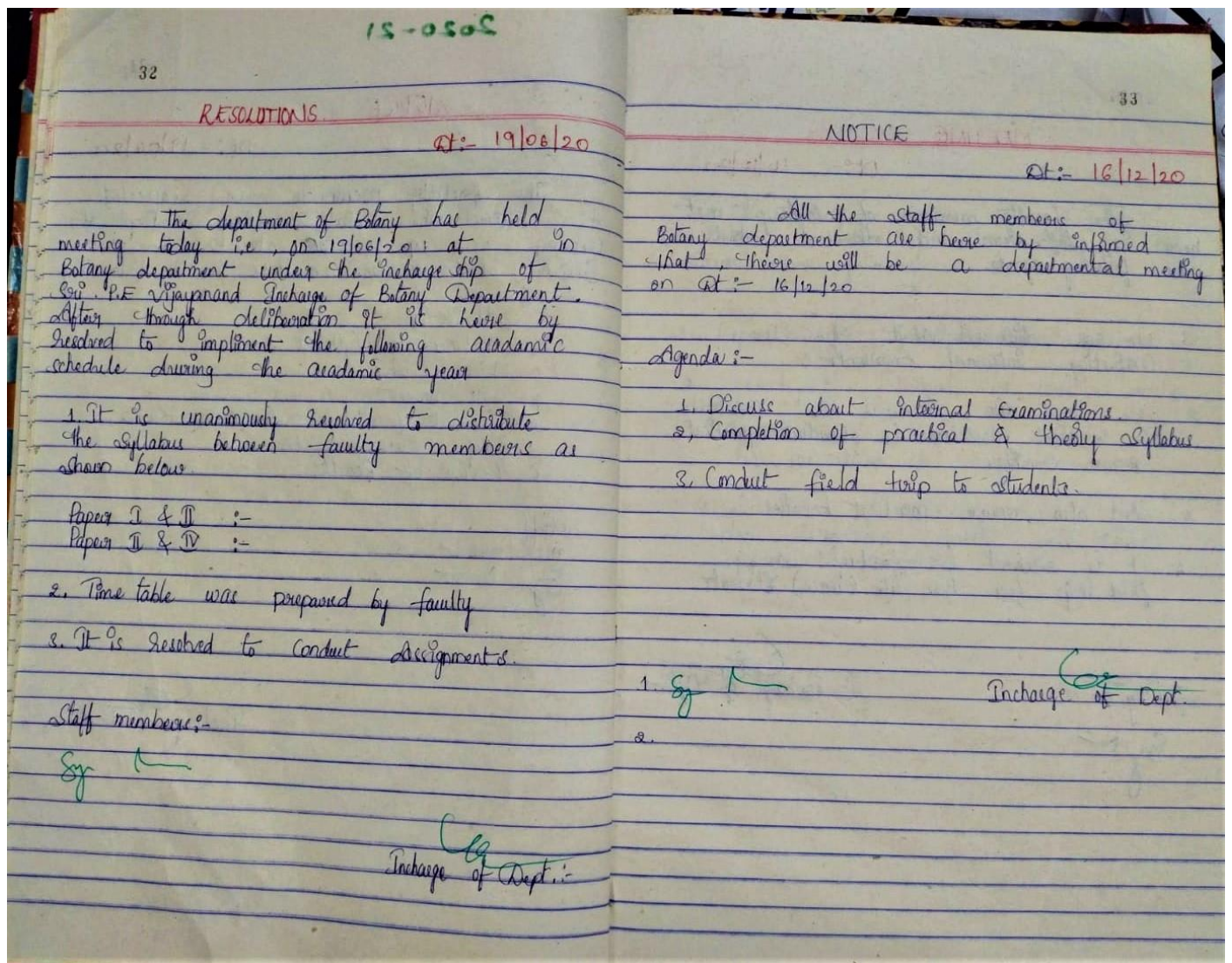
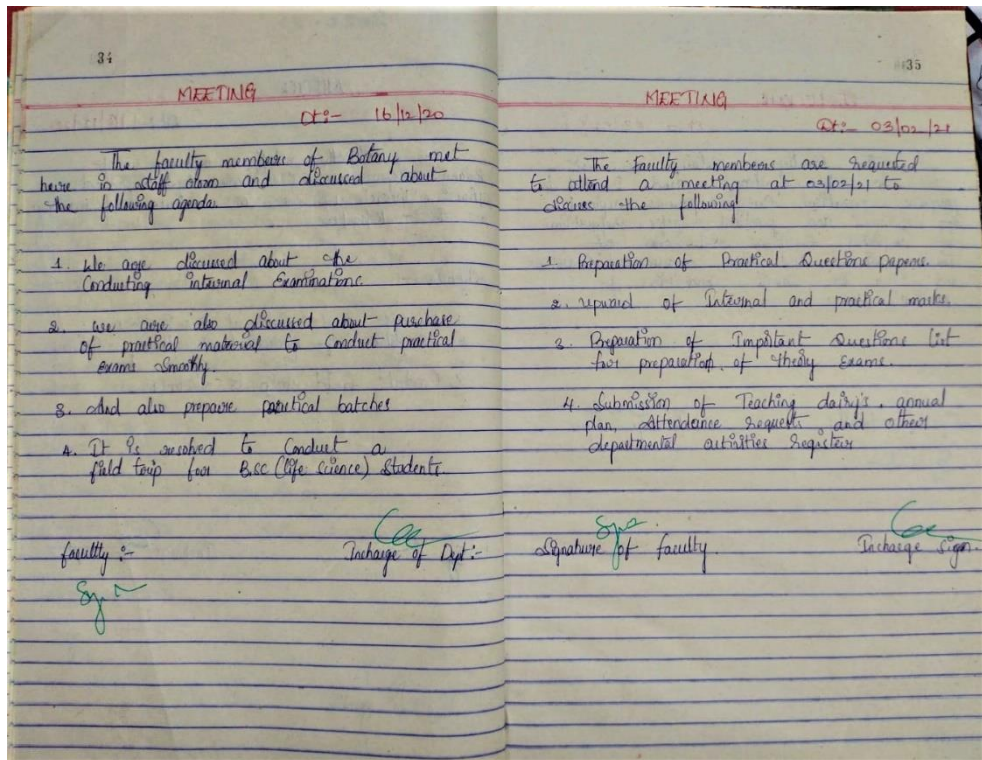
## GOVERNANCE LEADERSHIP AND MANAGEMENT

### DEPARTMENTAL MEETINGS

At the Department level, Department faculty members meet at necessary days to discuss academic matters like distribution of the syllabus among the faculty, Review of coverage of syllabus, Result Analysis and Course Outcomes, important days to celebrate, ICT, NAAC Records, etc.

SL NO	ACEDMIC YEAR	NAME OF THE DEPARTMENT INCHARGE	DESIGNATION
1	2017-18	P.VIJAYANNAD	ASSITANT PROFESSOR
2	2018-19	Dr.B.DHOOP SINGH	LECTURER
3	2019-20	Dr.B.DHOOP SINGH	LECTURER
4	2020-21	Dr.GANTAYYA GUPTA	ASSITANT PROFESSOR
5	2021-22	Dr.GANTAYYA GUPTA	ASSITANT PROFESSOR





## STAFF COUNCIL

At the college level, staff council is the apex body of the college in which important decision related to academic or non-academic matters are made and executed. In charge of every Department is a member of this body. Botany department in charges are actively participating in the meetings.



## COORDINATOR/MEMBER OF VARIOUS COMMITTEES

SL.NO	Name of the faculty	Coordinator	Committees Member
<b>2016-17</b>			
1	P.VIJAYANNAD	EXAM BRANCH	UGC COMMITTEE, STAFF COUNCIL, FINANCE AND RESTRUCTRE, FACULTY OF LIFE SCIENCE, CARRIER GUIDENCE CELL, SC & ST CELL TEACHING AIDS, RUSA ,ECO CLUB
2	D.RAMESH	FACULTY FORUM	STUDENT UNION COUNCIL GRIEVENCE & READ RESSAL CELL, INFORMATION ACT COMMITTEE,DRC COMMITTEE, SPECIAL FEE COMMITTEE
3	K.SARITHA		FACULTY OF LIFE SCIENCE

### 2017-18

1	P.VIJAYANNAD		UGC COMMITTEE, STAFF COUNCIL, FINANCE AND RESTRURE, FACULTY OF LIFE SCIENCE, CARRIER GUIDENCE CELL, SC & ST CELL TEACHING AIDS, RUSA ,ECOCULB
2	D.RAMESH	FACULTY FORUM	STUDENT UNION COUNCIL GRIVENCE & READRESSAL CELL INFORMATION ACT COMMITTEE DRC COMMITTEE SPECIAL FEE COMMITTEE
3	K.SARITHA		WOMEN ENPOWERMENT CELL

### 2018-19

1	Dr.L.DHOOP SINGH		TEACHING AIDS, LIBRARY AND READING, GAMES & SPORTS, TSKC, SC & ST CELL, HARITHAHARAM AND ECOCLUB
2	B.JAGAN MOHAN		SC & ST CELL, SCIENCE ASSOCIATION-1



**2019-20**

1	<b>Dr.L.DHOOP SINGH</b>	TEACHING AIDS, LIBRARY AND READING, GAMES & SPORTS, TSKC, SC & ST CELL, HARITHAHARAM AND ECOCLUB
2	<b>B.JAGAN MOHAN</b>	SC & ST CELL, SCIENCE ASSOCIATION-1

**2020-21**

1	<b>Dr.Ch.GANTAYYA GUPTA</b>	AUDIOVISUAL, VALUE EDUCATION, TSKC, SHILPAKALA VEDIKA, IQAC, SPECIAL FEE
2	<b>S.SYAM PRASAD</b>	GANANA VEDIK, SWACHHA BHARAT, DRC COMMITTEE, FACULTY FORUM, SCIENCE E.CLASS

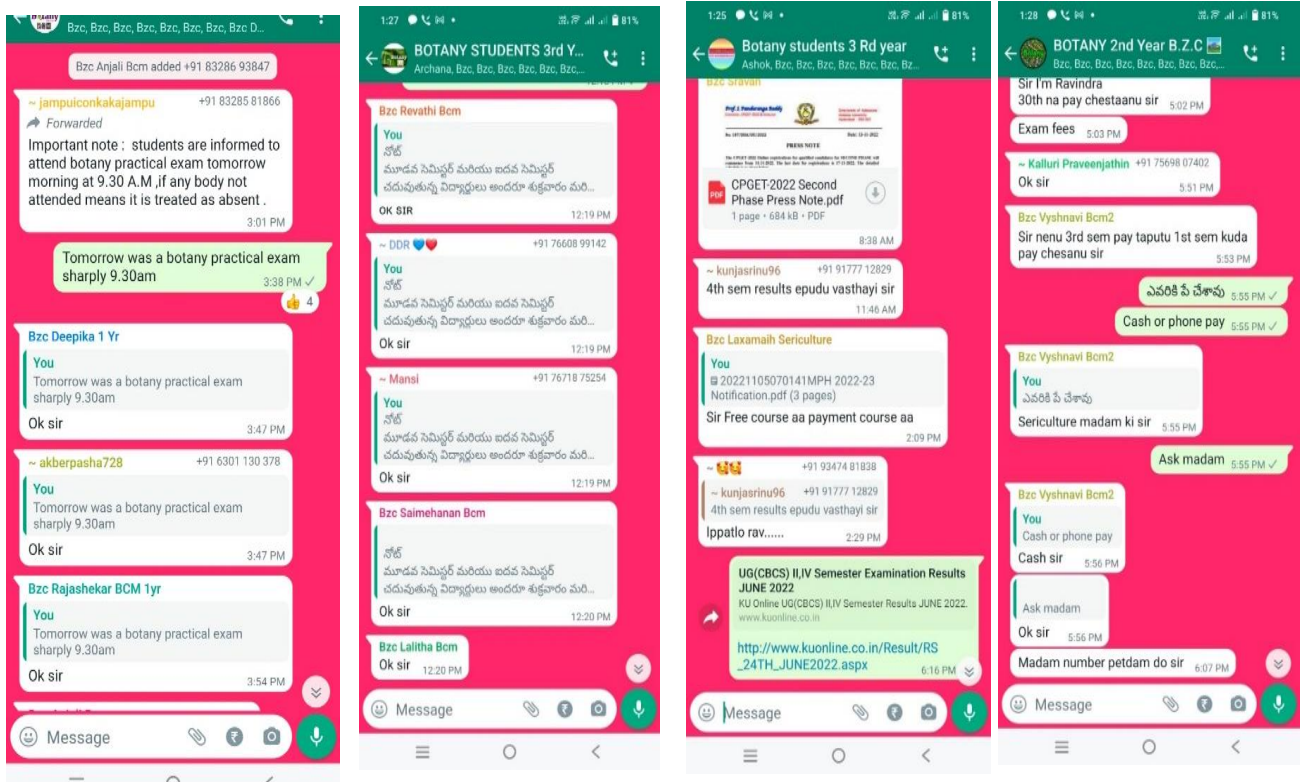
**FACULTY RC /OC/FDP/STC**

<b>SL NO</b>	<b>NAME OF THE FACULTY</b>	<b>RC/FDP/STC</b>	<b>ATTENDED DATES</b>
1	<b>Dr.Ch.GANTAYYA GUPTA</b>	One week online short term course on "Developments in Advanced drug Delivery systems and Drug Discovery to Treat life Threatening Diseases	22-06-2020 To 22-06-2020
2	<b>S.SYAM PRASAD</b>	FDP on "New Paradigms in e-learning Tools and Techniques for Teaching Learning"	17th to 19 th 2020
		Dynamics e-learning strategies skill oriented tools	30-08-2020
		UGC Paramarsh FDP on "ICT in Teaching & Learning"	13th July – 18th July 2020
		STC on Green Audit organized by OU	09-08-2020 TO 14-08-2020
		STC on Plant Taxonomy organized by nizam college	03-08-2020 TO 08-08-2020
		(FIP)(STC)ICT Tools in Higher Education	12-08-2020 To 19-08-2020

	Refresher course in Life sciences by UGC HRDC - MANU	17-09-2020 To 30-09-2020
	"Awareness workshop - NIRF INDIA RANKINGS - 2021 for Higher Educational Institutions"	18 th & 19 th January 2021
	Transformation Through NAAC Accreditation Process A National Level Workshop for Higher Educational Institutions	21 st & 22 nd June 2021
	"CONSTRUCTING CONSTRUCTIVIST LESSON PLAN"	27th-29th January 2021
	Refresher course in Life sciences UGC HRDC -OU	03-01-2022 to 18-01-2022
	MOOC online course developmentfor SWAYAM	20-12-2021 to 07-01-2022
	"RURAL ENTERPRISES-SKILLDEVELOPMENT FACILITIES"	05-02-2022

### MENTOR MENTEE SYSTEM

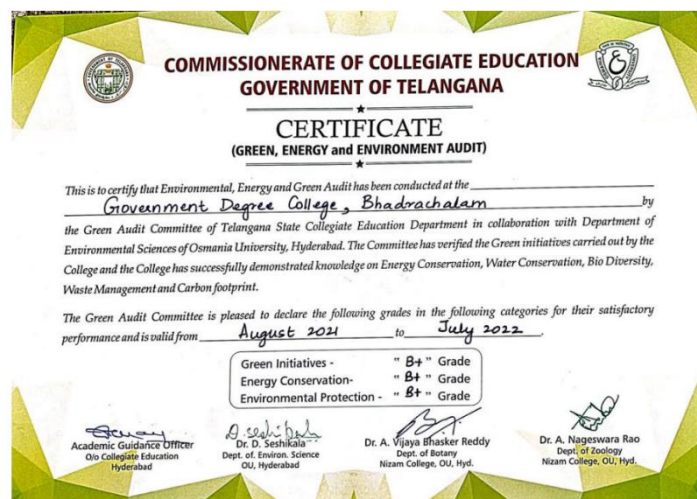
In each academic year, Principal will allot mentor for each group/section. Mentor will facilitate election of Class Representatives. Mentor takes responsibility of whole group/section. Mentor will communicate with the students through CRs. Mentor will guide the students in every academic aspect like Examinations, Fee payment, Feedback on marks obtained, maintaining decorum and advise them on issues on Scholarships. (24X7) Through WhatsApp group.



## CRITERION VII

### INSTITUTIONAL VALUES AND BEST PRACTICES

#### Green audit:



#### Green audit- 2022-23

<http://ccets.cgg.gov.in/Uploads/files/buttonDetails/109646.pdf>





## BEST PRACTICES

### 1. TERRACE SHADE NET

**TITLE OF THE PRACTICE: TERRACE SHADE NET**

#### OBJECTIVES OF THE PRACTICE

To make students aware of the plants which they encounter frequently. As the plants are source of food, medicine and other economically important products it is an inevitable for the students of Botany to know about the plants.

#### THE CONTEXT

Now a days India's urban population is increasing day by day. As a result, people are living in cramped quarters and losing their fresh environment & enjoyment. To recapture this pleasure, terrace garden is an innovative initiative to grow pleasant plants on the rooftop in our homes.

#### THE PRACTICE

We took some rings. The students filled the rings by mixing the fertile soil and the vermicompost in our college to create a humid environment. After that the students started growing different types of flower plants

## EVIDENCE ODF SUCCESS

This practice helped the students of botany and also the students of other disciplines who are interested to terrace garden. Students of Botany feel advantageous even in their class work and examination to exemplify the plants which they observed during the practice.

## PROBLEMS ENCOUNTERED

We are presenting the pictorial representation of the selected plants

Water leakage problem.

Deficiency of nutrition



## **2. KNOW OUR PLANT**

### **TITLE OF THE PRACTICE**

**Know our plant**

### **OBJECTIVES OF THE PRACTICE**

To make students aware of the plants which they encounter frequently. As the plants are source of food, medicine and other economically important products it is an inevitable for the students of Botany to know about the plants.

### **THE CONTEXT**

Now a days even the students of botany are also not aware of the plants of their vicinity. They even don't know the scientific name and basic morphology of the plants whose products they use in their daily life.

### **THE PRACTICE**

Every week on Monday picture and botanical information regarding plant will be posted in the notice board of the department, so that all the students can know about the plant and its speciality. The plant picture will be changed on every Monday and this duty of changing the plant information will be assigned to selected students.

### **EVIDENCE ODF SUCCESS**

This practice helped the students of botany and also the students of other disciplines who are interested to know about the plants of their vicinity and their scientific information. Students of Botany feel advantageous even in their class work and examination to exemplify the plants which they observed during the practice.

### **PROBLEMS ENCOUNTERED**

We are actually presenting the pictorial representation of the selected plants, hence it is little bit difficult to recognise the live plants when they encountered them in their real life, to overcome this problem we are placing the herbarium specimens of available plants along with pictures and taking them to field visits frequently.



## Use of ICT for teaching

SL.NO	Name of the Lecturer	ICT	ZOOM/GOOGLE MEET/WEBEX	PPT	Lecturers uploaded on Youtube	MANA TV Lessons
1	D.RAMESH	2	0	5	0	0
2	P.VIJAYANAND	4	0	4	0	0
3	K.SARITHA	4	0	4	0	0
4	Dr.L. DHOOP SINGH	2	0	3	0	0
5	B.JAGAN MOHAN	2	0	3	0	0
6	Dr.Ch.GANTAYYA GUPTA	8	20	5	20	0
7	S.SYAM PRASAD	5	20	10	15	0
8	Dr.N.NAGA SAMEERA	4	10	8	15	0

<a href="https://youtu.be/ILuxfdKXx28">https://youtu.be/ILuxfdKXx28</a>
<a href="https://youtu.be/iIFxy1JGqJY">https://youtu.be/iIFxy1JGqJY</a>
<a href="https://youtu.be/568_4Ykm3Cg">https://youtu.be/568_4Ykm3Cg</a>
<a href="https://youtu.be/27PW90teWP4">https://youtu.be/27PW90teWP4</a>
<a href="https://youtu.be/EgGYMFsZSm0">https://youtu.be/EgGYMFsZSm0</a>
<a href="https://youtu.be/ODZz-Sb8_Xw">https://youtu.be/ODZz-Sb8_Xw</a>
<a href="https://youtu.be/0k1oH4UiGPw">https://youtu.be/0k1oH4UiGPw</a>
<a href="https://youtu.be/3Z9zEtBgTLo">https://youtu.be/3Z9zEtBgTLo</a>
<a href="https://youtu.be/t7ii-iLOJ4U">https://youtu.be/t7ii-iLOJ4U</a>
<a href="https://youtu.be/3E7Hlc7IKiw">https://youtu.be/3E7Hlc7IKiw</a>
<a href="https://youtu.be/ILuxfdKXx28">https://youtu.be/ILuxfdKXx28</a>
<a href="https://youtu.be/iIFxy1JGqJY">https://youtu.be/iIFxy1JGqJY</a>
<a href="https://youtu.be/Z_DwiTbpylo">https://youtu.be/Z_DwiTbpylo</a>
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<a href="https://youtu.be/H4kmzmTjoJw">https://youtu.be/H4kmzmTjoJw</a>
<a href="https://youtu.be/Qnni7FjlhOE">https://youtu.be/Qnni7FjlhOE</a>
<a href="https://youtu.be/cMk7fedew0A">https://youtu.be/cMk7fedew0A</a>
<a href="https://youtu.be/3U6_csBbk4I">https://youtu.be/3U6_csBbk4I</a>
<a href="https://youtu.be/kSZ94DyR6IA">https://youtu.be/kSZ94DyR6IA</a>
<a href="https://youtu.be/Lr7urjIMovI">https://youtu.be/Lr7urjIMovI</a>
<a href="https://youtu.be/LJlQL3FN0Xk">https://youtu.be/LJlQL3FN0Xk</a>
<a href="https://youtu.be/I7Wyl5br7LM">https://youtu.be/I7Wyl5br7LM</a>
<a href="https://youtu.be/nzrIOAf75wA">https://youtu.be/nzrIOAf75wA</a>
<a href="https://youtu.be/uFLaNhi6x8c">https://youtu.be/uFLaNhi6x8c</a>
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<a href="https://youtu.be/cRjixbfGao4">https://youtu.be/cRjixbfGao4</a>
<a href="https://youtu.be/5BbM-iPYRKU">https://youtu.be/5BbM-iPYRKU</a>

## FUTURE PLANS:

- To develop digital herbarium.
- To create awareness among the students and society about conservation of biodiversity and conservation of herbal wealth.
- To identify the floral diversity of Bhadrachalam and near by rural area.