



**TELANGANA TRIBAL WELFARE RESIDENTIAL
DEGREE COLLEGE Girls Khammam Telangana State**

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DEPARTMENT OF BOTANY

BEST PRACTICES

Best practices are an inherent part of a curriculum that exemplifies the connection and relevance identified in educational research. Best practices are applicable to all grade levels and provide the building blocks for instruction. Best practices in Teaching learning process are important which motivate, engage and prompt students to learn and achieve, skills and abilities. Relationships are also built through opportunities for communication and teamwork. In Teaching learning process, the Department. of Botany followed more than 5 best practices so as to enable effective learning.

II. Objectives of the best practices:

1. To develop independent knowledge and skills.
2. To engage in higher order thinking and engage in active learning.
3. To construct hypotheses and make decisions.
4. To work collaboratively with others.
5. To connect real-life work between college and what will take place in the rest of their lives.
6. To address cultural influences and individual learning styles.
7. To empowers students to take ownership of their learning.
8. To develop research skills.
9. Refine and update their advanced technological skills.

DEPARTMENT OF BOTANY BEST PRACTICE I

TITLE OF THE PRACTICE: P.G COACHING

CONTEXT OF THE PRACTICE:

PG course, or Postgraduate course, is an advanced level of study that students take after completing their undergraduate degree. Comprehensive curriculum comprising subject-specific lectures, problem-solving sessions, practice tests, and exam strategy discussions. Tailored content to acquaint students with the CUCET,CPGET,JAM etc exam pattern, syllabi, and effective preparation methodologies.

OBJECTIVES OF THE PRACTICE:

- ✓ **Subject Mastery:** To facilitate a comprehensive understanding of the core concepts and subject-specific knowledge required for M.Sc. entrance exams.
- ✓ **Exam Familiarity:** To familiarize students with the exam pattern, question types, and syllabi specific to CPGET,CUCET,JAM etc.
- ✓ **Problem-Solving Skills:** To enhance problem-solving abilities and critical thinking necessary to tackle complex questions in the entrance exams.
- ✓ **Time Management:** To equip students with effective time management strategies for the exam and optimize their performance within the stipulated time frame.
- ✓ **Exam Strategy:** To provide guidance on effective exam strategies, including question selection, prioritization, and efficient answering techniques.

THE PRACTICE :

The Practice of P.G Coaching started from 1st batch outgoing Final years. A Particular syllabus was framed as per universities and it is partitioned into 120 days. Each week a particular topic is taught to students in P.G hour and students have to practice. At weekends a P.G Weekend Test will be conducted and the scripts are evaluated and mistakes are explained to students.

OBSTACLES:

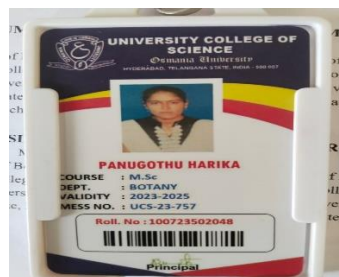
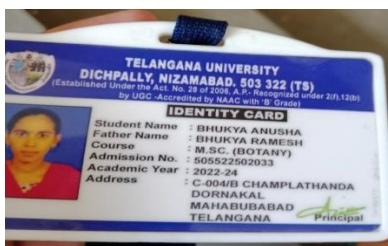
The main Obstacle is as the students are Adolescent Girls parents stop education at undergraduate level.

EVIDENCE OF SUCCESS

Through regular practice and guidance, students are likely to gain confidence in handling diverse questions and scenarios during the examination. The coaching program aims to prepare students adequately for the rigors of postgraduate studies in their chosen fields. many Students got seats in Universities.

Students Placed in Top Notch Universities for M.Sc Botany

Sl.Nb	Name of the student	H.T.Nb	University
1	B.Sowjanya	645193005	Shathavahana University
2	G.Kalyani	645193010	Kakatiya University
3	Y.Vandana	645193024	Osmania University
4	B.Anusha	645203008	Telangana University
5	A. Swathi	645203001	Telangana University
6	P.Harika	645213025	Osmania University
7	N.Sravani	645223020	Mahathma Gandhi University
8	E.Navya	645223008	Kakatiya University



DEPARTMENT OF BOTANY BEST PRACTICE II

TITLE OF THE PRACTICE: DIFFERENT TEACHING STRATEGIES

CONTEXT OF THE PRACTICE:

Teaching strategies are very important in bringing desirable changes in the behaviour of learners in a systematic and well-planned way according to the pre-determined learning objectives. Different strategies have different characteristics and importance in the field of teaching and learning. Teaching is considered as an activity, undertaken to make learners acquire knowledge, develop skills and attitude which ultimately prepare them for their future roles and responsibilities in true sense. It helps in making children fit for the larger society by imbibing the social and cultural norms and values.

- ❖ Seminars
- ❖ Assignments
- ❖ Projects
- ❖ Quiz/Group Discussions/Debate
- ❖ Extension lecture

OBJECTIVES OF THE PRACTICE:

- ❖ It can be used for engaging students in critical thinking, collaborative work, creative thinking and developing skills and attitude.
- ❖ Effective use of teaching strategies brings positive learning outcome in the students.
- ❖ It helps in generating interest of students and it promotes deep and long lasting learning.
- ❖ It helps in maximizing the students' learning by involving them to actively participate in teaching learning process
- ❖ It helps in building good teacher-taught relationship. • It transforms the dull content into interesting one.

THE PRACTICE :

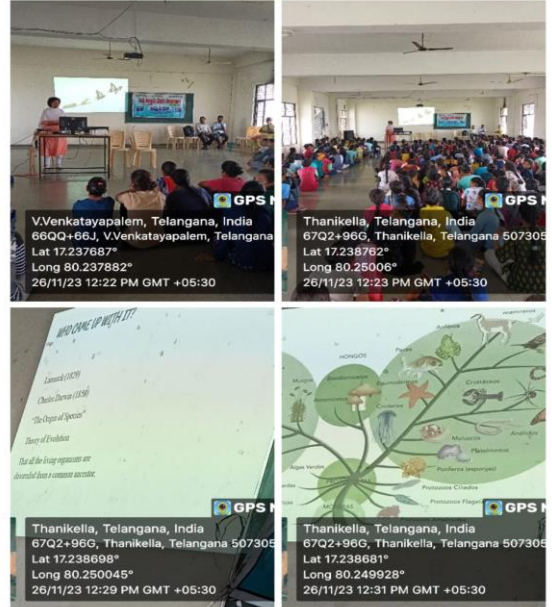
From the Inception of Department different Teaching strategies are been implemented to make the students come out of the box of the traditional teaching methods. Different teaching strategies like student seminars, quiz, debate, discussions, projects etc are given to students so that they actively participate and learn by doing. It develops a sense of curiosity, anxiety to learn and creates interest in subject. Students become Confident , lose stage fear and can achieve their goals.

OBSTACLES:

The main obstacle is more time consuming in activity based learning, students don't have mobile so they lack information gathering skills.

EVIDENCE OF SUCCESS

Modern teaching strategies have become increasingly significant in the realm of education, especially concerning students' academic and educational advancements. Students are actively participating in all activities in and out of the campus and proving themselves.



DEPARTMENT OF BOTANY Best Practice – III

TITLE OF THE PRACTICE : ICT LEARNING

THE CONTEXT OF PRACTICE

Information and Communication Technology (ICT) is a mode of communication technology used to communicate, enhance, and optimize the delivery of information in the classroom by the teachers. ICT is the most effective mode of communication used in teaching-learning process to improve the learner's/students' learning ability, attention, interest, creativity and think critically. Basically ICT improves the quality education and motivates the students to learn more and create active participation.

ICT is not only helpful for students but teachers as well. Teachers' professional development and their knowledge is enhanced with the use of ICT in classroom. Teachers are provided with new sources of knowledge and information. It motivates both students and teachers for self learning and develops their confidence.

OBJECTIVES OF PRACTICE

- Improved teaching and learning
- Higher-order cognitive skills
- Better retention
- Improved communication

THE PRACTICE:

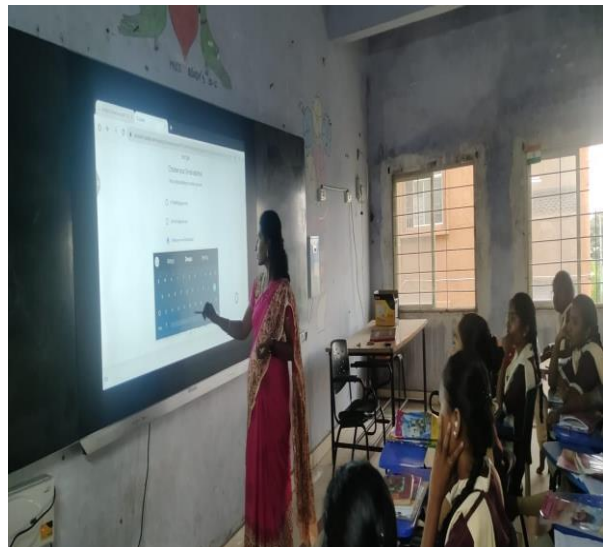
Upgrading the use of Teaching-Learning Materials (TLM) from traditional technique to the modern use of ICT tools helps and prepares students to cope up with the trends of 21st century. The department of using ICT tools has in fact reduced the barriers of time and place because it has become easier to communicate and interact with students through Google classroom, WhatsApp, etc. During the Covid19 Pandemic the College was close and classes were on hold so, in order to complete the syllabus the Google Meet, Zoom App, etc. The competency level of both the teacher and students has enhanced because of the active participation in the classroom. Using ICT tools in the classroom has also provided greater exposure to Vocational and Workforce skill for students. Use of Audio Visual Teaching aids in the classroom clears the doubt and understanding of the students. The videos or images can help students those who are facing language problems. The use of modern techniques or ICT in classroom also helps to develop leadership skills and help them to differentiate reliable from unreliable sources.

OBSTACLES :

Network issues are major problems in implementing the process.

IMPACT OF PRACTICE :

The classroom became lively, fun and exciting as the technology provides opportunities and new ideas. Students developed their retention power because the old traditional technique mainly focused only reading and writing, while Modern techniques attracts attention as it presents new ideas.



DEPARTMENT OF BOTANY Best Practice – IV

Title of the practice : Medicinal Plants Drive

The Context that required the initiation of the practice:

Herbal medicine is eco-friendly, bio-friendly, cost-effective and relatively safe and moved to the mainstream with increased research in the field of traditional medicine. Medicinal plants are an integral component of alternative medical care. For small health issues which people face daily like common cold, cough, fever, sore throat, headache, indigestion problems people consume herbal medicine. For maintaining good health herbal products are being used. For skin care and beauty care also plant products have been used since ages. Medicinal plants will be useful for Maternal and Child health care, as essential drugs, in food and nutrition, for common illnesses and injury, for endemic infectious diseases, mental health and oral health. World is facing a pandemic and people are facing a lot of stress and emotional trauma and daily being affected with a lot of health problems. So based on all the situations the world is currently facing, being aware about commonly available medicinal plants in our surroundings, growing medicinal plants, knowing their medicinal and curative properties is a must. The Department of Botany decided to bring awareness to students, faculty conducting Medicinal plants drive, as a best practice.

OBJECTIVES OF PRACTICE

- Creating awareness on the significance of Medicinal plants and their uses in students and faculty.
- Increasing the use of medicinal plant products as herbal medicine is much safer and won't cause any side effects.
- Increasing the herbal medicine usage useful for Maternal and Child health care, as essential drugs, in food and nutrition, for common illnesses and injury, for endemic infectious diseases, mental health and oral health.

THE PRACTICE :

Students distributed Medicinal plants information and their uses and created awareness about the role of these medicinal plants in curing normal ailments in daily life. Students were divided into batches and visited all the departments in the college premises, herbs and explained to the faculty and students about the significance of those medicinal plants and the need for the conservation of plants. Students Brought awareness on medicinal uses especially for Maternal and Child health care, as essential drugs, in food and nutrition, for common illnesses and injury, endemic infectious diseases, mental health and oral health. Students organized small stalls in College premises with the collected plant material and seeds and explained to the college students about the significance of medicinal plants. Students took feedback on Medicinal and aromatic plants and on this Medicinal plants drive and collected their suggestions and inputs.

OBSTACLES :

No Specific Constraints or obstacles observed in implementing this practice.

IMPACT OF PRACTICE :

The drive was received well by the faculty and students in the college. Students and faculty got much information about the significance of plants. College Students, faculty appreciated this effort from students and gave suggestions.



ప్రకృతిలో దొరికే మూలికలు అనేక వ్యాధులకు ఔషధాలు

ప్రజాపక్షం/కొటిజర్ : ప్రకృతి మనకు అందించిన అనేక మూలికల ద్వారా అనేక వ్యాధులకు ఔషధాలను అందిస్తుందని తెలంగాణ గిరిజన మహిళా డిగ్రీ కళాశాల ప్రిన్సిపాల్ డాక్టర్ శ్రీ వాణి అన్నారు. మండల పరిధిలోని తనికెళ్లలో గల గిరిజన బాలికల డిగ్రీ కళాశాల నందు శనివారం వృక్షశాస్త్ర ఆధ్వర్యంలో ఔషధ మొక్కలు విద్యార్థినిలతో కలిసి నాటారు. ఈనందర్పంగా ఆమె మాట్లాడుతు ఈ ఆధునిక ప్రపంచంలో మనం ఎంత వేగంగా ముందుకు సాగుతున్నామో ప్రకృతికి అంత దూరం అవుతున్నామని అన్నా. ఔషధ మొక్క ఔషధ గుణాలు కలిగి ఉంటుందని అనేక రోగాలు నయం చేస్తుందని అని అన్నారు. పురాతన కాలం నుంచి మన పూర్వీకులు అనేక జబ్బులకు ఔషధ మొక్కలనుంచే వైద్యం పొంది ఎటువంటి దుష్ప్రభావాలు లేకుండా సంపూర్ణ ఆరోగ్యంగా ఉన్నారని గుర్తు చేశారు. మనచుట్టు ఉన్న పరిసరానరాల్లోనే అనేక ఔషధ మొక్కలు ఉన్నాయని వాటిని గుర్తించి మనం ఉపయోగించుకుంటే మన ఆరోగ్యానికి ఎంతో మేలు జరుగుతుందని



అన్నారు. అనంతరం ఔషధ మొక్కల ప్రాధాన్యతను విద్యార్థినిలకు వివరించారు. ఈకార్యక్రమంలో వైస్ ప్రిన్సిపాల్ ఐక్యావీసి కో ఆర్డినేటర్ సిజిసి, ఇతర అధ్యాపక బృందం, విద్యార్థినిలు పాల్గొన్నారు.

DEPARTMENT OF BOTANY BEST PRACTICE V

TITLE OF THE PRACTICE: KITECHEN GARDEN

CONTEXT OF THE PRACTICE:

Kitchen Garden is a garden in which vegetables, fruits, and herbs are grown for household consumption. Kitchen gardens are developed for the purpose to cultivate maximizes harvest in the hottest and driest of weather. Low cost, low maintenance and adaptability make them a required gardening option around the houses. A kitchen garden can be a healthy, useful, and environmentally friendly hobby for the whole family. It can also save time and money.

OBJECTIVES OF THE PRACTICE:

- ❖ Raising fresh vegetables rich in nutrients
- ❖ Proper utilization of land in the vicinity
- ❖ Best utilization of time in a pleasure way exercising an efficient and effective training to the students
- ❖ Utilization of kitchen water and waste
- ❖ Economizing the food cost
- ❖ Useful for utilizing the spare time in a profitable way.

THE PRACTICE :

As our college has enough land area Botany Department decided to start Kitchen Gardening to make students aware of Utilisation of land and effectively cultivate leafy vegetables in available land area with no cost low cost mechanism which is very healthy beause as they are free from chemical fertilisers. Students actively participated and we allocated specific land to group of students and they cleaned the land and prepared the beds for cultivation and sow the seeds and watered them.

OBSTACLES:

The main obstacles to the widespread adoption of kitchen gardening are a lack of information, the prevention and treatment of pests, diseases, and insects, as well as a lack of skills in the production of high quality manure.

EVIDENCE OF SUCCESS

A College kitchen garden is more than just a place to grow plants; it is a dynamic **hands-on learning** environment that offers a wealth of educational, health, environmental, and social benefits. By incorporating gardening to the students can cultivate a love for nature, foster healthy habits, and nurture a sense of environmental responsibility in students. The seeds of learning planted in a school garden can grow into a lifelong appreciation for nature, health, and community.



DEPARTMENT OF BOTANY Best Practice – VI

Title of the practice : QR Code For Plants

The Context:

QR codes are like barcodes that you scan with our phone to get access to more information on something. Everyone can scan this one and take a look! Department of Botany and NSS Unit of the college jointly initiated the QR Codes for Plants which are located in the college campus. Each plant in the college campus given with a QR code. Each QR code gives access to a 'Plant Info' webpage of complete details for that plant.

OBJECTIVES:

The main aims of QR coding for plants are: → QR code gives access to a 'Plant Info' webpage of complete details for that plant. It creates the awareness on plants and their scientific names, its uses, etc. to Students and Staff Members. To Save the local plants species of college campus.

THE PRACTICE:

Every year good number of Plants are being planted during Haritha Haram Programmes. Some plants in the college campus given with a QR code. Anyone with a smartphone can use a QR code scanning app to scan the code and see the scientific name and family of the plant. In August every year Department of Botany starts QR coding the each plant planted in the college campus. B.Sc. Life Sciences Students are generally involved in this practice to learn how to prepare and tagging QR codes.

OBSTACLES:

Financial resources are required for QR code tagging to all the plants and trees in the college campus.

IMPACT OF PRACTICE:

Visitors of TGTWRDC Girls Khammam, college started to take a look at the trees and are learning more about their nature and uses.

In future we are going to link QR Code to important details about the plant including plant care tips, fertilizers to be used. And some interesting facts about the plant or parent family. The Department of Botany is going to put forward a proposal with the Panchayat to allow the students and teachers of the Botany department to put up the codes in the surrounding area of Tanikella as well.

