



GOVT. DEGREE FOR WOMEN NALGONDA DEPARTMENT OF BOTANY

INNOVATIVE PRACTICES PLANT DATA BASE & QR CODES.

While the world seems to be going digital, people lack the time to read books and process the information they contain. So, we (department of botany) have decided to exploit the rapidly growing platform for unique purpose. Students in the college campus were seen using their smartphones, not to play games, take selfies, but to scan QR codes hung on the trees for its information. These QR codes give students all the information they need to know about the tree or plant from its scientific name to its importance or value. They only need to put their smart phones to use.

Students now do not have the time to learn about the things around them via books. to keep up with the digital trend. We prepare the database of all trees and plants in the college campus and assigned QR codes to them, making it easier for everybody to learn about a plant or a tree at the tip of their fingers.

The college has 60 different species of plants in the campus. the students and the faculty of the department worked for 20 days to prepare the database and assign QR codes to them. Any app generating the QR code, which is available for free on the online, can be used to avail the information of trees. We started this an experiment but the response is overwhelming. We see a lot of students, teachers and even visitors extracting the information about the trees and plants via the QR codes.

METHODOLOGY:

First, we prepare the list of plant or tree species in the college campus. Then ask each student prepare the database of one plant species, which they have provided. The database of all plants was placed in the department google drive in the form of google documents. The URL link of each google document was copied and generated a QR code. we took the print outs of QR codes laminated and hang on the trees. Every year QR codes are assigned to newly planted plants and damaged QR codes replaced with new QR codes.


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2021-2022

(QR codes assigned to newly planted plants and replaced the damaged QR codes during 2021-22 academic year)



2020-2021



Faculty members are involved in fixation of QR codes to plants.





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Landscaping with Trees and Plants:

Botanical garden is a learning paradise in educational institutions. Gardens offer many benefits with respect to teaching. These include accessibility, diversity of collections, and the opportunity for frequent repeat visits. Learning in botanic gardens also offers a pleasant respite from the hectic college campus, and the aesthetic garden's environment is conducive to learning and creativity. Keeping in this view Government Degree college for women is also maintaining a botanical garden in the college campus.

Department of botany and Eco club is maintaining the botanical garden in the college campus with the help of three NSS units. The total land area of the campus is 1.40 acres of which building, playground and internal roads are covered by approximately 1.30 acres and the remaining area (0.10 acres) is covered by different types of trees and plants. All the faculty members of botany are actively involved in garden maintenance. College has a gardener she looks after the plants in the garden and watering the plants daily. We are growing diversified plants and trees (60 different types species) like avenue trees, ornamental plants, medicinal plants, timber yielding trees and fruit yielding plants etc., in the college campus with in the limited space available. Bore water as well as municipal water available for watering the plants. Drain out water from the drinking water taps also for plants.

We maintain the botanical with 65 species of different varieties of trees like timber yielding, fruit yielding, avenue tree, ornamental and medicinal plants. We also maintain landscape in the college campus.





Canopy of trees on either side of the internal road



Coverage of trees in the college campus



Dense coverage of trees in the college campus









Landscaping in the college campus



Landscaping in the college campus