

GDC FALAKNUMA
DEPARTMENT OF BOTANY
BEST PRACTICE (2021-2022)

Title of the Practice – QR Coding of Plants

Objectives –

- To create awareness of the flora in our college campus.
- To make a survey and collect data of the flora.
- To attach the plant information to quick response code.
- To visualise the plant information through quick response code using QR scanner.
- To inculcate digital taxonomic study for identifying plants and to know their importance with an ease.
- To monitor the QR Codes of Plants.

Context -

Students hardly find time to learn through books. There was a need to make students study about the plants by using attractive digital methods. The flora in the college campus were identified and information of plants is given in the form of quick response code.

These codes give students all the information they need to know about the plants from its scientific name to its medicinal value. They only need to put their smartphones to use.

Practice –

We continued the same Best practice of QR Coding in this academic year of 2021-2022. Students were assigned the duty to make survey of plants in the college campus every month. During survey they thoroughly checked for any damage caused due to environmental or any other disturbances to the QR Codes which were tagged last year. They replaced the spoiled QR Codes with new QR Codes.

They also identified any new plants grown in the campus. Students of First year were given the task to collect some information about plants including their botanical names, a few characters and their medicinal value. Once students have got all these information students were taught by Last year students who were trained with QR Coding to generate a Quick Response code using QR code generator app. The students were explained how to create QR Codes and their printouts were taken and attached to the trees and plants. Students were explained to install the QR Code generator as well as QR Code scanner in their smart phones which are online free apps. Once the QR code is scanned of a plant by using QR code scanner they got the text information of that particular plant including all the particulars uploaded in QR Code.

As a part of World Environment Day celebrations we have planted 21 indoor oxygen plants such as on 4th June 22 (as 5th June was Sunday).The Principal, Teaching staff, Non-teaching staff and students actively participated in Indoor Plantations of following 21 plants.

1. Anthurium	12. Ocimum sanctum
2. Areca palm	13. Peace lily
3. Aleovera	14. Philodendron
4. Bamboo	15. Rubber Plant
5. Calathea	16. Snake Plant
6. Croton	17. Spider Plant
7. Diffenbachia	18. Syngonium
8. Fern	19. Table palm
9. Fiddle fig	20. Weeping fig
10. Gerbera diasy	21. ZZ plant
11. Money Plant	

QR Coding was done by active participation of all life science students for these 21 plants with their details and tagged to the plants. The students could easily access the information of QR coded plants by using QR Code Scanner.



Evidence of success

Students could successfully install the QR Code generator app and QR Code scanner app in their smart phones. They were very enthusiastic and participated actively in generating QR Codes plants planted on the Worlds Environment day celebrated in our college on 4-6-22. They also coded some more plants and replaced spoiled QR Codes with new ones. Students were explaining to their friends of commerce stream and arts stream about QR Coding method and shared their experiences and knowledge with them. We made it a point to make the QR Codes of whatever Plants we were planting.



Problems Encountered –

One of the constraint is we don't have our own building.

Our college campus does not have proper secured compound wall.

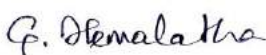
We have school and junior college in our college premises some of the students and the people from neighbouring areas pose problem to the plants planted and also for the QR Codes labelled to the plants.


Heavy rains also are threat for the plants and QR labels.

Sources required –

Continuation of this practice requires funds for fencing, maintenance of gardener, water facility and for preparation of labels.

Students require android phones with mobile data for generating QR Codes and Scanning Codes.


Head of the Department
Department of Botany
GDC, Falaknuma, Hyd.


PRINCIPAL(FAC)
Principal
Govt. Degree College
Falaknuma, Hyderabad.

