

SRR & CVR Government Degree College (A)

An Autonomous & ISO 9001: 2015 Certified Institution:: Ranked by NIRF in 101-150 band at NIRF-2020 & 151-200 band in NIRF 2019 NAAC accredited Institution with grade B+ with C.G.P.A 2.6 during March, 2017

Machavaram, Vijayawada, Krishna District, AP-520 004



QR Tagging as Best Practice

DEPARTMENT OF BOTANY

Best Practice - III

Title of the practice : QR Tagging

The Context that required the initiation of the practice: In this digital world , This work is an effort to create a means to establish environmental sustainability through QR code tagging to trees. With increased usage of smartphones, tablets and the availability of these devices at a lower cost motivated us to adopt QR code tagging for obtaining detailed information about the flora collection available in our college.

QR Codes are 2D barcodes occupying little space that are easily scannable via a smartphone. They are already being used in Botanical gardens, Parks and Nature trails . QR Codes can link detailed information like text, website URL, an image, or a video. Hence, they can be easily placed on a small size sapling to a big tree . We can also add design to QR Codes by adding a background color or an image and show how a plant looks when it blooms and can then print this QR Code on the tag placed on every plant in the College .

The Department of Botany at the SRR and CVR Govt Degree College has started tagging trees in the College Campus area with QR code from 2019-2020 with the help of students and faculty and now wishes to extend the initiative by completely tagging the trees in and beyond the campus like machavaram area. It is an effort to save the local plant species in and around College as a part of Natural Conservation .

Objectives of the Practice:

- To tag each tree in the campus with QR Code and enable the students and faculty to be aware of all the scientific and preliminary information and IUCN Status of the plants.
- To Know the tree information like scientific name , medicinal significance, IUCN Status along with other interesting information.
- To gain knowledge about the College campus plants taxonomy and their ecological significance .
- To increase awareness in faculty, students and public on significance of plants and their role in day to day life .
- To increase awareness in people about the dire need of conservation of plants.

The practice :

This Practice started in 2019-2020 and after Pandemic since this academic year continuing this Practice . These codes can be easily accessed by anyone in the college faculty and students .

The college grounds also has an herbal garden with up to 50 different varieties of medicinal plants. Other than these, there are many different types of plants, like flowering plants from nearly 30 Families .

The Department of Botany generated QR codes and displayed them on the plants. Anyone with a smartphone can download a QR code scanning app, scan the code and see the scientific name and family of the plant. After finding basic information , there is massive amounts of information one can find on the internet .

QR Codes are damage resistant and can resist slight damage upto 30%. This is especially useful in a wear-and-tear environment. QR Codes are readable from any direction. That is, even if you place a QR Code upside down, it will still be scannable. Latest QR Coding technology allows us to scan from Left to right also .

Obstacles : There were No specific constraints for this Practice except financial .

Impact of the Practice :

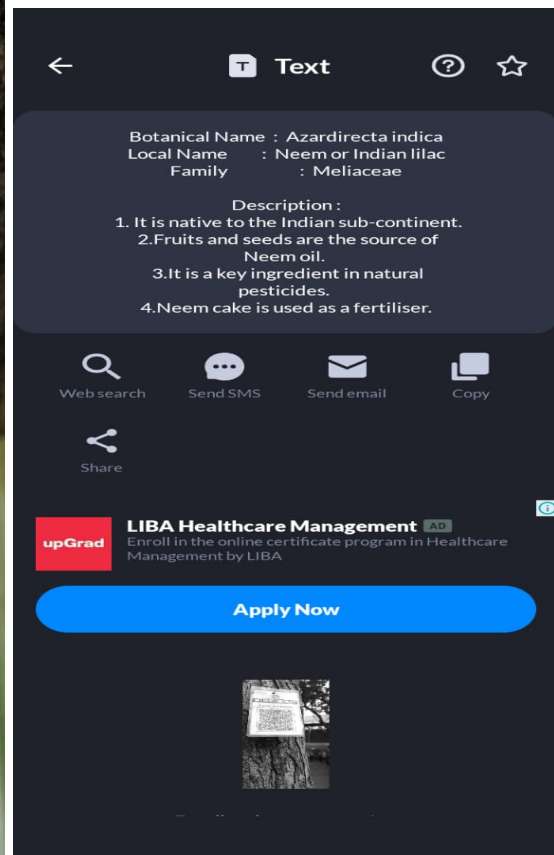
Visitors of SRR & CVR Govt Degree College , Vijayawada started to take a look at the trees and are learning more about their nature and uses. Walkers who use the grounds in the morning are also seen scanning the codes and knowing more about trees in which they are interested .

The IUCN (International Union for Conservation of Nature) categorizes the status of every plant species every year. We mentioned the status in the QR code in some plants so that one can know whether a plant species is vulnerable, or endangered, or nearing extinction, threatened or in the red list already; it will encourage people to know about the plant status and also help in Plant Conservation .

In future we are going to link QR Code to important details about the plant including plant care tips, fertilizers to be used, how and when to prune it, and what ailments is the plant prone to. And some interesting facts about the plant or parent family.

The Department of Botany is going to put forward a proposal with the Vijayawada Municipal Corporation to allow the students and teachers of the Botany department to put up the codes in the surrounding area of Machavaram as well.

Evidence of the Practice:



S.R.R. & C.V.R. Government Degree College (A)

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QR TAGGING - 19.2.2021



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Dates	19.2.2021
Conducted through (DRC/JKC/ELF/NCC/NSS/ Departments etc.	Department
Nature of activity (seminar/Workshop/Extn. Lecture etc.	Best Practice
Title of the Activity	QR Tagging
Name of the Department/Committee	Department of Botany
Details of Resource Persons (Name , Designation etc.,)	B.SC BZC Students
No of students participated	70
Name of the Lecturers who planned & conducted the activity	Planned and Organized by Mrs D. Jyothi Lecturer In Charge Ms Kanthasri Lecturer in Botany
Remarks	This QR Tagging activity was a best practice and a green initiative from department

Department of Botany, SRR & CVR Govt Degree College Organized QR Tagging on 19.2.2021 as one of the green initiatives of the Department.

Objectives of the Activity:

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- ❖ To Know the tree information like scientific name , medicinal significance, IUCN Status along with other interesting information.
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- ❖ To increase awareness in faculty, students and public on significance of plants and their role in day to day life .
- ❖ To increase awareness in people about the dire need of conservation of plants.



Honourable Principal, Staff and students exhibiting QR Codes

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The Department of Botany at the SRR and CVR Govt Degree College tagged trees in the College Campus area with QR code on 19.2.2021 with the help of students and faculty and now wishes to extend the initiative by completely tagging the trees in and beyond the campus like machavaram area. It is an effort to save the local plant species in and around College as a part of Natural Conservation .

The practice :



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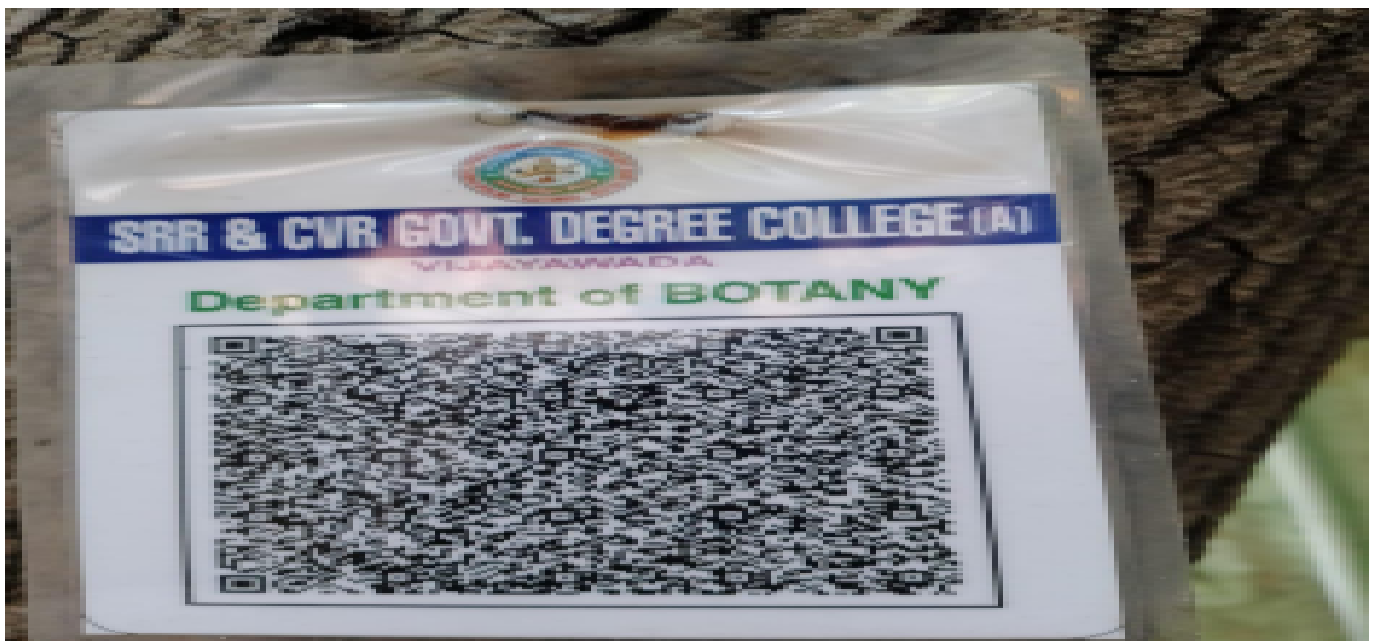
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Plant details were mentioned in the QR code in some plants so that one can know the plant details and also help in Plant Conservation .

In future the department of Botany is going to link QR Code to important details about the plant including plant care tips, fertilizers to be used, how and when to prune it, and what ailments is the plant prone to and some interesting facts about the plant or parent family.



QR CODE TAGGED TO TREE

QR code generator sites

www.qrfy.com

www.qrfy.com/qr-code-generator/

www.ne.qr.com

www.scanovia.io

www.qr-code-generator.com

www.producthunt.com

Bulk vcard QR Code generator



Department of Botany Faculty and students Tagging Trees in the college campus.

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STUDENT SIGNATURES AND FEEDBACK

S.No	Date	Class	Roll no/ Reg no	Signature	Remarks
1	19/12/21	II BZC		T. Lakshmi	Good
2.	19/12/21	II BZC	20311001	B. Muni	useful.
3	19/12/21	II BZC	20311002	B. Ravi	very good.
4.	19/12/21	II BZC	20311003	G. RUPAKSHI	Beneficial.
5.	19/12/21	II BZC	20311004	K. Rani	Good awareness
6.	19/12/21	II BZC	20311005	M. Hussain	Good.
7.	19/12/21	II BZC	20311006	P. Lakshmi	very good.
8.	19/12/21	II BZC	20311007	P. Sai Kumar	Good.
9.	19/12/21	II BZC	20311008	P. Ganesha	Very Good.
10.	19/12/21	II BZC	20311009	P. Vinod	useful.
11.	19/12/21	II BZC	20311010	U. Suresh	Beneficial
12.	19/12/21	II BZC	20311011	J. Anjali	Good
13.	19/12/21	II BZC	20311012	V. Dhana	Excellent
14.	19/12/21	II BZC	20311013	Ch. Divya	Good.
15.	19/12/21	II BZC	20311013	B. Rehel	very good.
16.	19/12/21	II BZC	20311015	G. Gantosh	useful.





STUDENT SIGNATURES AND FEEDBACK

S.No	Date	Class	Roll no/ Reg no	Signature	Remarks
17	19-12-21	II BZC	21317207	K. Monika	Useful
18	19-12-21	II BZC	21317201	A. Poojanthi	Good
19	19-12-21	II BZC	21317209	T. Lavanya	Beneficial
20	19-12-21	II BZC	21317205	K. Jagadeesh	Good
21	19/12/21	II BZC	21317206	T. Manjula	Useful
22	19/12/21	II BZC	21317212	P. V. R. R. R.	Good
23	19/12/21	II BZC	21317204	Devi Raja Ch	Got awareness
24	19/12/21	II BZC	20311215	K. Monika	Good
25	19/12/21	III BZC	20311223	Shank Baji	Useful
26	19/12/21	III BZC	20311003	G. R. R.	Useful
27	19-12-21	III BZC	20311216	P. Sai	average
28	19/12/21	III BZC	20211227	K. R. R.	Good
29	19/12/21	III BZC	20311213	M. Gayathri	Good
30	19/12/21	III BZC	20311206	J. Manju	useful
31	19/12/21	III BZC	20311208	K. Abhishek	Beneficial
32	19/12/21	III BZC	20311204	H. Gopid.	Very Good





STUDENT SIGNATURES AND FEEDBACK

S.No	Date	Class	Roll no/ Reg no	Signature	Remarks
33	19/12/21	B2C	203112010	H. Wareek	Good.
34	19/12/21	B2C	203112013	M. Gayathri	useful.
35	19/12/21	B2C	203112015	N. Manika	Very good.
36	19/12/21	B2C	203112016	P. Bharat	useful.
37	19/12/21	B2C	203112019	P. Pravalika	Excellent
38	19/12/21	B2C	203112020	P. Sochan	Not answered
39	19/12/21	B2C	203112021	P. Rahul	Beneficial
40	19/12/21	B2C	203112022	G. Nidana	Good.
41	19/12/21	B2C	203112023	G. Balasi	Very good
42	19/12/21	B2C	203112024	S. Pradha	useful.
43	19/12/21	B2C	203112025	T. Hemasi	Good.
44	19/12/21	B2C	203112027	X. Tadesh	useful.
45	19/12/21	B2C	20311202	B. Durgarao	Excellent.
46	19/12/21	B2C	20311203	B. Bechel	Very good.
47	19/12/21	B2C	19311001	Ch. Ashu	Good.
48	19/12/21	B2C	19311002	K. manga	useful.





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S.No	Date	Class	Roll no/ Reg no	Signature	Remarks
49	19/12/21	II BZC	21317207	K. Monali	Beneficial
50	19/12/21	II BZC	21317201	A. Pooasahthi	Good
51	19/12/21	II BZC	21317209	T. Lavanya	useful
52	19-12-21	II BZC	21317205	K. Jagadeesh	useful
53	19/12/21	II BZC	21317206	T. Mondula	Good
54	19/12/21	II BZC	21317212	P. Latha	Beneficial
56	19/12/21	II BZC	21317204	Deviraga chi	Got awareness
57	19-12-21	III BZC	20311215	Varidee	Good
58	19/12/21	III BZC	20311223	Govil. Bari	Useful
69	19/12/21	III BZC	20311003	G. R	Good
70	19/12/21	III BZC	20311216	P. R	Good
71	19/12/21	III BZC	20311227	Y. Jeyadevi	Good
72	19/12/21	III BZC	20311213	M. Gayathri	Good

