

Andhra Christian College, Guntur

(DAY, EVENING & P.G.)

Accredited with 'A' Grade by NAAC

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PRINCIPAL



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GREEN AUDIT / ENVIRONMENTAL AUDIT – [2022-2023]

The objective of this Green Audit / Environmental Audit is to assess the current state of biodiversity and green cover in the college and to suggest ways to enhance it. The students used transect and quadrant methods to identify the different types of flora and fauna in the college. This audit also helps the students in gaining knowledge about the richness of nature through identifying the organisms. The staff and students made several surveys to assess both the quantitative and qualitative aspects. The survey indicates high biodiversity of plants and limited number of animal species. It is proposed to increase the number of plant and animal species to make college look more ecofriendly.

PURPOSE

- To conduct a Biodiversity Audit on A.C College, Guntur campus and suggest measures for the improvement

AIMS

- To identify the different types of plants and animals on the college campus
- Students through participating in this audit will not only identify the various species but also will be able to tabulate and analyze the data.
- To recommend ways to increase biodiversity on the college campus

PROCEDURE

A comprehensive survey of the flora and fauna was carried out on the college campus spread over an area of 20 acres. The study was carried out from 03-01-2022 and 06-01-2022. Two batches of 10 students each of B.Sc., (CBZ) from A.C.College, Guntur, Guntur district were assigned to do the audit and they surveyed the entire area and identified the flora and fauna on the campus. Data was scientifically recorded and tabulated.

List of Audited Plants on the campus for the academic year 2022-23

S.No.	Scientific name of plant	Local Name	Family	Habitat T/S/H/C	Uses
1	<i>Parthenium hysterophorus</i>	Carrot grass	Asteraceae	H	Medicinal
2	<i>Acalypha indica</i>	Indian mercury	Euphorbiaceae	H	Medicinal
3	<i>Sida acuta</i>	Common wire weed	Malvaceae	H	Medicinal
4	<i>Boerhaavia diffusa</i>	Punarnava	Nyctaginaceae	H	Medicinal
5	<i>Euphorbia hirta</i>	Asthma weed	Euphorbiaceae	H	Medicinal
6	<i>Cynodon dactylon</i>	Bermuda grass	Poaceae	H	Medicinal
7	<i>Citrus aurantifolia</i>	Key lime	Rutaceae	T	Medicinal
8	<i>Manilkara zapota</i>	Sapota	Sapotaceae	T	Edible Fruit
9	<i>Murraya koenigii</i>	Curry leaves	Rutaceae	T	Medicinal
10	<i>Ziziphus zuzuba</i>	Jujube	Rhamnaceae	S	Medicinal
11	<i>Croton bonplandianum</i>	Ban tulasi	Euphorbiaceae	H	Medicinal
12	<i>Vernonia cinerea</i>	Purple fleabane	Asteraceae	H	Medicinal
13	<i>Tridax procumbens</i>	Tridax daisy	Asteraceae	H	Medicinal
14	<i>Ruellia tuberosa</i>	Cracker plant	Acanthaceae	H	Medicinal
15	<i>Ocimum sanctum</i>	Tulasi	Lamiaceae	H	Medicinal
16	<i>Cocos nucifera</i>	Coconut	Arecaceae	T	Medicinal
17	<i>Ixora chinensis</i>	Scarlet jungle flame	Rubiaceae	S	Ornamental
18	<i>Abutilon indicum</i>	Indian mallow	Malvaceae	S	Medicinal
19	<i>Asparagus recemosus</i>	Shatavari	Asparagaceae	S	Medicinal
20	<i>Polyalthia longifolia</i>	Naramamidi	Annonaceae	T	Ornamental
21	<i>Cicca distica</i>	Chinni usiri	Euphorbiaceae	T	Medicinal
22	<i>Cocos nucifera</i>	Kobbari	Arecaceae	T	Edible
23	<i>Albizia lebbeck</i>	Dirisena	Mimosaceae	T	Ornamental
24	<i>Millingtonia hortensis</i>	Akasa malli	Bignoniaceae	T	Ornamental
25	<i>Bauhinia variegata</i>	Addaku	Fabaceae	T	Ornamental
26	<i>Tabebuia rosea</i>	Rosy trumpet	Bignoniaceae	T	Ornamental
27	<i>Casuarina equisetifolia</i>	Sarugudu	Casuarinaceae	T	Fire wood
28	<i>Borassus flabellifer</i>	Thati	Areaceae	T	Toddy
29	<i>Spathodia campanulata</i>	Tulip tree	Bignoniaceae	T	Ornamental
30	<i>Syagrus romanzoffiana</i>	Queen palm	Arecaceae	T	Ornamental
31	<i>Dalberzia sissoo</i>	Indian Rose wood	Fabaceae	T	Ornamental
32	<i>Wrightia tinctoria</i>	Tooth ache plant	Apocyanaceae	T	Medicinal
33	<i>Vitex negundi</i>	Chinese chaste tree	Lamiaceae	T	Medicinal
34	<i>Tecoma stans</i>	Golden bells	Bignoniaceae	T	Ornamental
35	<i>Rhaphidophora tetrasperma</i>	Mini monstera	Araceae	C	Ornamental

36	<i>Azadirachta indica</i>	Neem tree	Meliaceae	T	Medicinal & Timber
37	<i>Bamboosa aridinarifolia</i>	Bamboo	Poaceae	T	Timber
38	<i>Pongamia pinnata</i>	Kanuga	Fabaceae	T	Medicinal
39	<i>Ceodea grandis</i>	Lettuce tree	Nyctaginaceae	T	Medicinal
40	<i>Psidium guajava</i>	Jama	Myrtaceae	T	Edible fruit
41	<i>Cycas revoluta</i>	Sago palm	Cycadaceae	T	Medicinal
42	<i>Pritchardia pacifica</i>	Fiji Fan Palm	Arecaceae	T	Ornamental
43	<i>Bougainvillea spectabilis</i>	Kagithapu puvuu	Nyctaginaceae	S	Ornamental
44	<i>Ceiba pentandra</i>	Booruga	Malvaceae	T	Economic
45	<i>Dypsis lutescens</i>	Areca palm	Arecaceae	T	Ornamental
46	<i>Trichilia dregeana</i>	Forest Mahogany	Meliaceae	T	Timber
47	<i>Mangifera indica</i>	Mango	Anacardaceae	T	Fruit
48	<i>Leucaena leucocephala</i>	Lead Tree	Fabaceae	T	Economic
49	<i>Thuja orientalis</i>	Chinese thuja	Cupressaceae	T	Medicinal
50	<i>Syzygium cumini</i>	Kala jamoon	Myrtaceae	T	Edible
51	<i>Ixora chinensis</i>	Nooru varahalu	Rubiaceae	S	Ornamental
52	<i>Licuala grandis</i>	Palasa palm	Arecaceae	T	Ornamental
53	<i>Delonix regia</i>	Gold mohar /Turai	Fabaceae	T	Ornamental
54	<i>Yucca gloriosa</i>	Nabhi	Asparagaceae	S	Ornamental
55	<i>Hibiscus rosasinensis</i>	Mandara	Malvaceae	S	Ornamental
56	<i>Syzygium jambos</i>	Rose apple	Myrtaceae	T	Ornamental
57	<i>Citrus aurantiifolia</i>	orange	Rutaceae	T	Edible fruit
58	<i>Adenium obesum</i>	Desert rose	Apocynaceae	S	Ornamental
59	<i>Catheranthus roseus</i>	Billa ganneru	Apocynaceae	H	Medicinal
60	<i>Tradescantia spathacea</i>	Boat lilly	Commelinaceae	H	Ornamental
61	<i>Chrysanthemum indicum</i>	Chemanthi	Asteraceae	H	Ornamental
62	<i>Agave americana</i>	Kalabanda	Asparagaceae	H	Medicinal
63	<i>Murraya paniculata</i>	Curry leaf	Rutaceae	T	Condiment
64	<i>Allamanda cathartica</i>	Butter cup	Apocyanaceae	S	Ornamental
65	<i>Jasminum sambac</i>	Malle puvvu	Oleaceae	S	Ornamental
66	<i>Citrus lemon</i>	Nimbu/ Nimma	Rutaceae	T	Medicinal
67	<i>Bryophyllum pinnata</i>	Ranapala	Crassulaceae	H	Ornamental
68	<i>Euphorbia hirta</i>	Mexican plant	Euphorbiaceae	H	Medicinal
69	<i>Ficus retusa</i>	Peddajuvvi	Moraceae	T	Timber
70	<i>Costus spiralis</i>	Crepe ginger	Costaceae	H	Medicinal
71	<i>Coleus barbatus</i>	Gandh Moolika	Lamiaceae	H	Ornamental
72	<i>Aloe vera</i>	Kalabanda	Asphodelaceae	S	Medicinal
73	<i>Andrographis paniculata</i>	Nela vemu	Acanthaceae	H	Medicinal
74	<i>Artemisia annua</i>	Machipatri	Asteraceae	H	Medicinal

75	<i>Centella asiatica</i>	Saraswathi aaku	Apiaceae	H	Medicinal
76	<i>Withania somnifera</i>	aswagandha	Solanaceae	H	Medicinal
77	<i>Rauwolfia serpentina</i>	Sarpagandha	Apocyanaceae	S	Medicinal
78	<i>Acorus calamus</i>	Vasa	Acoraceae	H	Medicinal
79	<i>Ruta graveolens</i>	Sadapaku	Rutaceae	H	Medicinal
80	<i>Cassia alata</i>	Seema tangedu	Caesalpinoideae	S	Medicinal
81	<i>Gymnema sylvestris</i>	Podapatri	Apocyanaceae	H	Medicinal
82	<i>Plumbago zeylanica</i>	Chitrak	Plumbaginaceae	H	Medicinal
83	<i>Psoralea corylifolia</i>	Bavanchalu	Fabaceae	H	Medicinal
84	<i>Evolvulus alsinoides</i>	Vishnukranthi	Acathaceae	H	Medicinal
85	<i>Adathoda vasica</i>	addasaram	Acanthaceae	H	Medicinal
86	<i>Uraria picta</i>	Prishni parni	Fabaceae	H	Medicinal

DISCUSSION

The environmental audit conducted by the college for the year 2022-23 revealed the existence of many species of plants on the campus. Out of the plant species the trees outnumber the herbs and shrubs. Many flowering and Medicinal plants are seen to flourish in the campus. The college management has taken an active role in increasing the greenery on the campus. However there is scope for adding more plants as the college is huge and sprawling. By increasing the greenery of the college not only more animals are attracted to the trees for the shelter but also lead to increase in biodiversity and maintain the ecological balance.

CONCLUSIONS AND RECOMMENDATIONS

This Green/Environmental Audit was completed as per the schedule and the data collected was systematically tabulated and analyzed in the above table. This audit helped very much to improve the knowledge, awareness and skills of students in conserving biodiversity.

GREEN AUDIT CERTIFICATE

This is to certify that the staff of the Government Degree College for Women (A) and students and faculty of Andhra Christian College have conducted the green audit 05-01-2022 to 08-01-2022 for the academic year 2022-23 to assess the green initiative planning efforts and activities implemented on the college campus like plantation, biodiversity preservation and creating environmental awareness. The green audit proved that the campus is eco-friendly.

Place: Guntur

Date: 10-01-2022.

External Auditors:

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