

FULORA

# "FULORA"

An Interactive Web-Based Application  
Exploring Campus Diversity



Shri Shivaji Education Society, Amravati's

## Shri Shivaji Science College, Amravati

NAAC Accredited by Grade A+ with CGPA 3.42 (4th Cycle)

UGC awarded status of College with Potential for Excellence (2nd Phase)

DBT Star College (Under Strengthening Component)

Included in NIRF Ranking TWICE (2022 and 2023) Rank Band 151 - 200

ISO 9001:2015 Certified College

Identified by: DST, Govt. of India for FIST,

Sant Gadge Baba Amravati University as Lead College, and

Career Katta as Centre of Excellence

Prepared and Maintained by

**Department of Botany**

**Shri Shivaji Science College, Amravati – 444 603 (M.S.)**

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## Journey begins....

Former Principal of the college, Dr. Vasant R. Ghurde and his team mate colleagues from Department of Botany has conceived the concept to make the campus lush green and envisioned a college where learning was not confined to buildings. He sought to develop the campus environment into an outdoor classroom. Extensive Medicinal, Ornamentals and RET species now provides a unique opportunity for learning and also fulfils his dream. The diversity of plants is vast and makes up a unique living collection. There are species from different climatic conditions and number of plant families represented.

With the long-term goal of obtaining arboretum status for the campus, the Campus Flora aims to identify, map and catalogue these plants. So far, over 270 plants species have been mapped and entered into a custom database. One can roam through to view the map displaying this information. The map can be viewed based on a number of different criteria. Walking tours showcasing some of our campus trees are available at the Visitor Center.

Plants were surveyed for the seasons around the year and identified by well-known taxonomist of the region Dr. Prabha Bhogaonkar, Ex Head, Department of Botany, Govt Vidarbha Institute of Science and Humanities, Amravati. Plant species belonging to 81 families are reported in the college campus with dominance of Araceae, Asteraceae, Apocynaceae, Fabaceae and Euphorbiaceae. 56 tree species with 187 individuals are found in the college campus. The medicinal plants are conserved by using green house and poly house available with the college.

## **FULORA: A Web-based Interactive Android Application**

In tune with the technological advent and inclination of the students towards digital gadgets department has identified the need to transform the way of communication to attract students towards the nature in general and campus plant diversity in particular. The joint discussion revealed an idea of creation of the easy going, entertaining and interactive application with the help of the students. Here genesis of the "Fulora" application have happened.

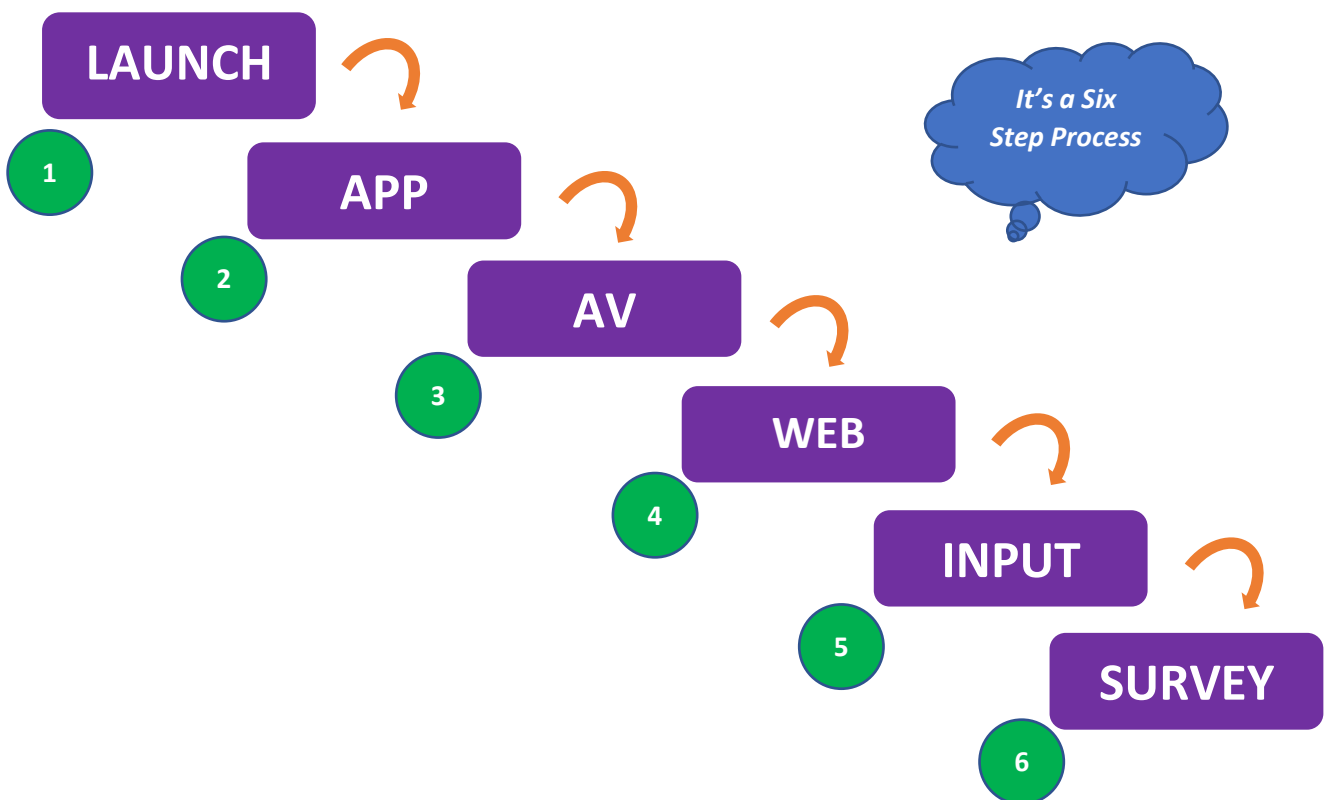
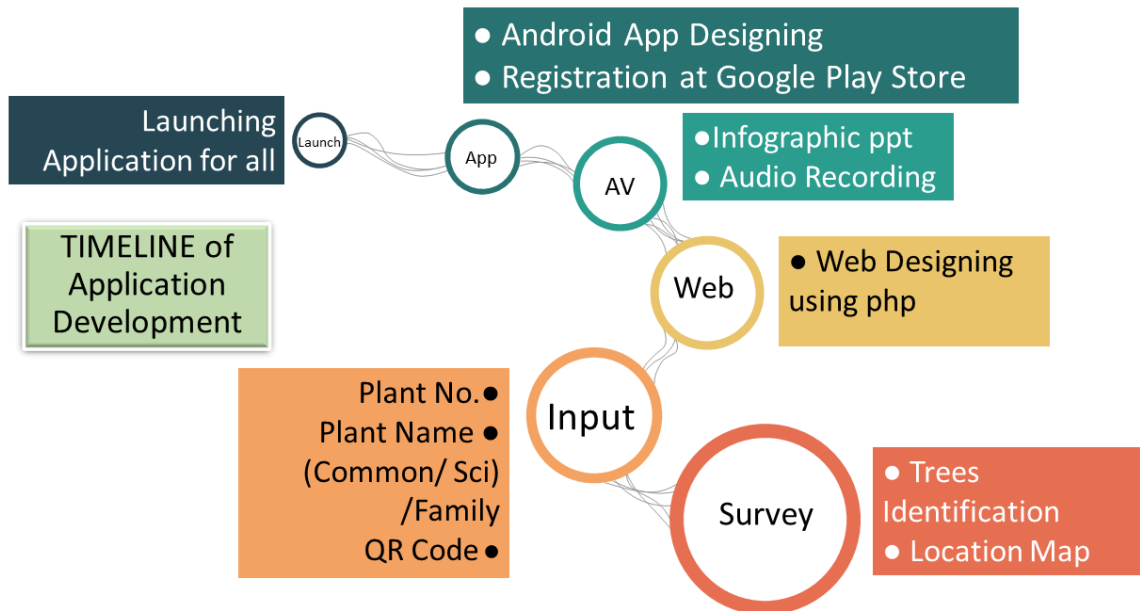
"FULORA" is the term applied locally to the bunch flowers from diverse plant groups. Here the "FULORA" portrays the Tree Flora of the lush green campus of Shri Shivaji Science College, Amravati. It is the Web-based interactive application to explore and understand the plant diversity dwelling in the campus. It provides the location map of all the trees with their geographical coordinates as well as General information about each plant.

This application extends study of Botany from physical classroom to lively environment

This application narrates the general as well as Botanical information about each plant. It will provide joyful learning experience and extends the study of Botany from physical classroom to lively environment.

The uniqueness of this application is its integration with the Google Maps to locate each tree in the campus which is visible from every corner of the World. The Research-Based, Problem Solving, Role play, etc. pedagogies were implemented to develop this application.

# TIMELINE OF APPLICATION DEVELOPMENT



The diversity of plants is vast and makes up a unique living collection. There are species from different climatic conditions and number of plant families represented.

With the long-term goal of obtaining arboretum status for the campus, the Campus Flora aims to identify, map and catalogue these plants. So far, over 270 plants species have been mapped and entered into a custom database. One can roam through to view the map displaying this information. The map can be viewed based on a number of different criteria. Walking tours showcasing some of our campus trees are available at the Visitor Center.

Plant species belonging to 81 families are reported in the college campus with dominance of Araceae, Asteraceae, Apocynaceae, Fabaceae and Euphorbiaceae. 67 tree species are found in the college campus. The medicinal plants are conserved by using green house and poly house available with the college.

## The most common families found in the campus

S.N.	Families	No. of Species
1.	Araceae	6
2.	Asteraceae	12
3.	Apocynaceae	11
4.	Fabaceae	11
5.	Euphorbiaceae	9
6.	Asparagaceae	7
7.	Bignoneaceae	7
8.	Lamiaceae	7
9.	Moraceae	7
10.	Myrtaceae	7
11.	Moringaceae	2
12.	Meliaceae	1

## Family Representation in the College Campus

S. N.	Family	No of Species
1.	Acanthaceae	5
2.	Agavaceae	1
3.	Amaranthaceae	2
4.	Amaryllidaceae	1
5.	Anacardeceae	2
6.	Annonaceae	5
7.	Apiaceae	1
8.	Apocynaceae	11
9.	Araceae	17
10.	Araucareaceae	1
11.	Asparagaceae	7
12.	Asteraceae	12
13.	Balsaminaceae	1
14.	Basellaceae	1

15.	Bignoneaceae	7
16.	Bixaceae	1
17.	Bombaceae	2
18.	Brassicaceae	1
19.	Burseraceae	2
20.	Cactaceae	2
21.	Cactaceae	2
22.	Caesalpiniaceae	5
23.	Camelinaceae	1
24.	Caryophyllaceae	2
25.	Cleomaceae	1
26.	Colchicaceae	1
27.	Combretaceae	1
28.	Comelinaceae	1
29.	Convolvulaceae	3
30.	Crassulaceae	1
31.	Cupressaceae	1
32.	Dioscoreaceae	1
33.	Dracaenaceae	2
34.	Dryopteridaceae	1
35.	Euphorbiaceae	9
36.	Febaceae	11
37.	Geraniaceae	1
38.	Heliconiaceae	1
39.	Lamiaceae	7
40.	Lauraceae	2
41.	Liliaceae	2
42.	Liliaceae,	1
43.	Lythraceae	1
44.	Magnoliaceae	1
45.	Malpighiaceae	1
46.	Malvaceae	4
47.	Meliaceae	1
48.	Menispermaceae	1



49.	Millingtoniaceae	1
50.	Mimosaceae	4
51.	Moraceae	7
52.	Moringaceae	1
53.	Musaceae	1
54.	Myrtaceae	7
55.	Nyctaginaceae	3
56.	Nymphaeaceae	1
57.	Oleaceae	3
58.	Orchidaceae	1
59.	Papilionaceae	3
60.	Piperaceae	2
61.	Plantaginaceae	1
62.	Plumbaginaceae	1
63.	Poaceae	3
64.	Polemoniaceae	1
65.	Pontederiaceae	1
66.	Portulacaceae	1
67.	Rosaceae	1
68.	Rubiaceae	2
69.	Rubiaceae	4
70.	Rutaceae	5
71.	Santalaceae	1
72.	Sapindaceae	1
73.	Sapotaceae	1
74.	Scrophulariaceae	2
75.	Simaroubaceae	2
76.	Solanaceae	4
77.	Strelitziaceae	1
78.	Theaceae	1
79.	Verbenaceae	2
80.	Vitaceae	1
81.	Zingiberaceae	4

## Flora of the Campus

S. N.	Botanical Name	Habit	Vernacular name	Family
1.	<i>Abelmoscus manihot</i> L.	Herb	Bhendi	Malvaceae
2.	<i>Abrus precatorius</i> L.	Climber	Gunj	Mimosaceae
3.	<i>Acalypha hispida</i> Burm.f.	Shrub	Chenille plant, red-hot cattail	Euphorbiaceae
4.	<i>Achyranthus aspera</i> L.	Herb	Prickly chaff flower, <i>apamarga</i>	Amaranthaceae
5.	<i>Acorus calamus</i> Linn.	Herb	Sweet flag or calamus	Araceae
6.	<i>Adathoda vasica</i> ( <i>Justicia adhatoda</i> Linn.)	Shrub	Adulsa	Acanthaceae
7.	<i>Adenium obesum</i> Linn.	Shrub	Unhali gulab	Apocynaceae
8.	<i>Adhatoda vasica</i> Nees	Shrub	Adulsa	Acanthaceae
9.	<i>Aegle marmelos</i> (L.) Corr.	Tree	<u>Bel</u>	Rutaceae
10.	<i>Agave Americana</i> L.	Herb	Maguey, or american aloe	Asparagaceae
11.	<i>Agave sisalana</i> Perr.	Shrub	Sisal	Agavaceae
12.	<i>Ageratum conozoydes</i> L.	Herb	Goatweed	Asteraceae or Compositae
13.	<i>Aglonema commutatum</i> Schott.	Herb	Chinese evergreens	Araceae
14.	<i>Ailanthus altissima</i> (Mill) Swingle	Tree	Ailanthus	Simaroubaceae
15.	<i>Albizzia lebeck</i> (L.) Willd.	Tree	Shishir	Cesalpiniaceae
16.	<i>Alianthus excelsa</i> Roxb.	Tree	Maharukh	Simaraubaceae
17.	<i>Aloe vera</i> (L.) Burm.f.	Herb	<i>Aloe vera</i>	Liliaceae,
18.	<i>Alstonia scholaris</i> (L.) R. Br.	Tree	Blackboard tree, indian devil tree	Apocynaceae
19.	<i>Andrographis paniculata</i> (L.) Ness.	Herb	Kadu kirayata, oli-kiryata	Acanthaceae
20.	<i>Annona reticulate</i> L.	Shrub	Ramphal	Annonaceae

21.	<i>Annona squamosa</i> L.	Shrub	Sitafal	Annonaceae
22.	<i>Antirrhinum majus</i> L.	Herb	Snapdragon	Plantaginaceae
23.	<i>Araucaria araucana</i> Pav.	Tree	Khrismas tree	Araucareaceae
24.	<i>Areca catechu</i> L.	Tree	Areca palm	Arecaceae
25.	<i>Artobotrys odorotissimus</i> R.Br.	Shrub	Hirva chapha	Annonaceae
26.	<i>Asparagus racemosus</i> (L.) Willd.	Woody Liana	Shatavari	Asparagaceae
27.	<i>Azadirachta indica</i> A. Juss	Tree	Neem	Meliaceae
28.	<i>Bacopa monniera</i> Pennell.	Herb	Brahmi	Scrophulariaceae or plantaginaceae
29.	<i>Bambusa bambos</i> L.	Herb	Welu, bas	Poaceae
30.	<i>Basella rubra</i> Stewart	Herb	<u>Malabar nightshade</u>	Basellaceae
31.	<i>Bauhinia purpurea</i> L.	Tree	Hawaiian orchid tree	Papilionaceae
32.	<i>Bauhinia variegata</i> L.	Tree	Kachnar	Papilionaceae
33.	<i>Bixa orellana</i> L.	Shrub	Arabic (galuga)	Bixaceae
34.	<i>Boerhaavia repens</i> L.	Herb	Alena	Nyctaginaceae
35.	<i>Bombax ceiba</i> L.	Tree	Kat sawar	Bombaceae
36.	<i>Bursera simaruba</i> (L.)	Tree	Turpentine tree	Burseraceae
37.	<i>Cactus sp.</i>	Shrub	Nivdunga	Cactaceae
38.	<i>Caesalpinia pulcherima</i> L.	Tree	Gulmohar	Mimosaceae
39.	<i>Caladium bicolor</i> (W. Ait.) Vent.	Herb	Angel wings	Araceae
40.	<i>Callindra sp.</i>	Shrub	Fairy duster	Fabaceae
41.	<i>Callistemon citrinus</i> R. Br.	Tree	Bottlebrushes	Myrtaceae
42.	<i>Callistemon lanceolatus</i> L.	Tree	Bottle brush	Myrtaceae
43.	<i>Camellia sp.</i>	Shrub	Tea plant	Theaceae
44.	<i>Caryota urens</i> L.	Tree	Fish tail palm	Areaceae
45.	<i>Cassia fistula</i> L.	Tree	Amaltash	Cesalpiniaceae
46.	<i>Cassia siamea</i> Lam.	Tree	Kashida	Mimosaceae
47.	<i>Catharanthus roseus</i> (L.)	Climber	Madagascar periwinkle or rosy periwinkle	Apocynaceae
48.	<i>Ceiba pentandra</i> L.	Tree	Pandharisawar	Bombaceae

49.	<i>Celosia pulchella</i> Moq.	Herb	<i>Cockscomb</i>	Amaranthaceae
50.	<i>Cestrum nocturnum</i> L.	Shrub	Night-blooming jasmine	Solanaceae
51.	<i>Chlorophytum boriviliaum</i> Fer.	Herb	Safed musli	Liliaceae
52.	<i>Chrysanthemum indicum</i> L.	Herb	Chrysanthemum.	Asteraceae
53.	<i>Cinnamomum cassia</i> L.	Shrub	Kassia	Lauraceae
54.	<i>Cinnamomum tamala</i> Linn.	Shrub	<i>Tamala</i> cassia, tejpatta	Lauraceae
55.	<i>Cissus quadrangularis</i> Roxb.	Climber/Herb	Haddijod / mangaravalli	Vitaceae
56.	<i>Cleome viscosa</i> L.	Herb	Silisilihan	Cleomaceae
57.	<i>Clitoria biflora</i> Dalz.	Herb	Asystasia intrusa	Fabaceae
58.	<i>Clitoria ternatea</i> Linn.	Climber	Blue pea	Fabaceae
59.	<i>Cocos nucifera</i> L.	Tree	Naral	Arecaceae
60.	<i>Coleus bicolour</i> Benth.	Herb	Blume	Lamiaceae
61.	<i>Coleus blumei</i> Benth.	Herb	Painted nettle	Lamiaceae
62.	<i>Commiphora mukul</i> Engl.	Shrub	Guggu	Burseraceae
63.	<i>Cosmos bipinnatus</i> cav.	Herb	Mexican aster	Asteraceae
64.	<i>Costus speciosus</i> (Koen.) Sm.	Shrub	Keukand, pushkarmula	Zingiberaceae
65.	<i>Cuphea hookeriana</i> L.	Herb	Cupheas	Lythraceae
66.	<i>Curcuma</i> L. (Wild)	Herb	<u>Turmeric</u>	Zingiberaceae
67.	<i>Cymbopogon martini</i> (Roxb.) Wats.	Herb	Palmarosa	Poaceae
68.	<i>Cypripedium reginae</i> Walter	Herb	Lady slipper	Orchidaceae
69.	<i>Daemia extensa</i> R.Br.	Climber	Trellis-vine	Apocynaceae
70.	<i>Dahlia pinnata</i> Cav.	Herb	Garden dahlia	Asteraceae
71.	<i>Datura metel</i> L.	Shrub	Daturas	Solanaceae
72.	<i>Daucus carota</i> L.	Herb	Bird's nest	Apiaceae

73.	<i>Delonix regia</i> (Boj. ex. Hook.) raf.	Tree	Gulmohar	Fabaceae
74.	<i>Dendrocalamus strictus</i> Roxb.	Culm	Clumping bamboo	Poaceae
75.	<i>Dianthus chinensis</i> L.	Herb	Sweet william	Caryophyllaceae
76.	<i>Dieffenbachia picta</i> (Lodd.) Schott.	Herb	Dieffenbachia	Araceae
77.	<i>Dioscorea</i> sp. L.	Climbers	Purple yam	Dioscoreaceae
78.	<i>Dolichandrone falcata</i> Seem.	Shrub	Medhshingi	Bignoniaceae
79.	<i>Dracaena fragrans</i> Kerl.-Gawl	Shrub	Fragrant dracaena	Asparagaceae
80.	<i>Dracaena draco</i> L.	Shrub	Draco	Dracaenaceae, asparagaceae
81.	<i>Dracaena victoria</i>	Shrub	Corn plant	Dracaenaceae
82.	<i>Dyopsis lutescens</i> (H.Wendl.) Beentje & J.Dransf.	Shrub	Areca palm	Arecaceae
83.	<i>Echinops echinatus</i> Roxb.	Herb	Utkatar, kate-chendu	Asteraceae
84.	<i>Eichornia</i> sp.	Aq. Herb	Water hyacinth	Pontederiaceae
85.	<i>Elettaria cardamomum</i> (L.) Maton	Shrub	Green or true cardamom	Zingiberaceae
86.	<i>Emblica officinalis</i> Gaertn.	Tree	Emblic, emblic myrobalan myrobalan, indian gooseberry, malacca tree, or amla	Euphorbiaceae
87.	<i>Erathemum tricolor</i> W. Bull	Shrub	Rosy eranthemum, blue eranthemum	Acanthaceae
88.	<i>Erythrina indica</i> Lamk.	Tree	'Mandara' in hindi and 'indian coral tree' in english	Fabaceae
89.	<i>Eucalyptus globulus</i> Labill.	Tree	Nilgiri	Myrtaceae
90.	<i>Eucalyptus</i> L. Herit.	Tree	Eucalypts	Myrtaceae
91.	<i>Eucalyptus muculata</i> (Hook) var. citriodora (Hook)	Tree	Spotted gum	Myrtaceae
92.	<i>Euphorbia antiquorum</i> L.	Shrub	Tridhara, vajrakantaka	Euphorbiaceae

93.	<i>Ficus blackiana</i> L.	Shrub	Weeping fig, ( <i>ficus benjamina</i> )	Moraceae
94.	<i>Ficus elastica</i> Roxb.	Tree	Rubber	Moraceae
95.	<i>Ficus hispida</i> Roxb.	Tree	Karwati, bokheda	Moraceae
96.	<i>Ficus kingbrush</i> Roxb.	Tree		Moraceae
97.	<i>Ficus rasnold</i> Roxb.	Tree		Moraceae
98.	<i>Ficus species</i>	Tree	Fig trees or figs	Moraceae
99.	<i>Gardenia sp.</i> J. Ellis nom. cons.	Tree	Anant	Rubiaceae
100.	<i>Gazania splendens</i> L.	Shrub	Treasure-flower	Asteraceae
101.	<i>Geranium nepalensis</i> L.	Shrub	Nepal geranium, nepalese crane's bill	Geraniaceae
102.	<i>Gerbera sp.</i>	Herb	Gerbera, transvaal daisy	Asteraceae
103.	<i>Gliricidia sepium</i> (Jacq.) Kunth. ex. Steud	Tree	Giripushpa	Fabaceae
104.	<i>Gloriosa superba</i> L.	Climber	Flame lily,climbing lily, creeping lily.	Colchicaceae
105.	<i>Hamelia patens</i> Jacq.	Shrub	Firebush, hummingbird bush, scarlet bush and redhead.	Rubiaceae
106.	<i>Helianthus annuus</i> L.	Herb	Sunflower,	Asteraceae
107.	<i>Heliconia bihai</i> L.	Herb	Balisier	Heliconiaceae
108.	<i>Helicteris isora</i> L.	Shrub	Indian screw tree, east indian screw tree, deer's horn	Malvaceae/sterculiaceae
109.	<i>Hibiscus esculentus</i> L./ <i>Abelmoschus</i> <i>esculentus</i>	Herb	Ladies fingers, bhendi, bhindi,	Malvaceae
110.	<i>Hiptage</i> <i>benghalensis</i> (L.) Kurz	Tree	Madhumalti	Malpighiaceae
111.	<i>Howea forsteriana</i> Becc.	Tree	Kentia palm	Arecaceae
112.	<i>Hyophorbe lagenica</i> <i>ulis</i> (L.H.Bailey) H.E.Moore	Tree	Bottle palm	Arecaceae
113.	<i>Hyophorbela</i> <i>genicaullis</i>	Tree	Bottle palm	Arecaceae

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114.	<i>Iberis amara</i> L.	Herb	Rocket candytuft	Brassicaceae
115.	<i>Impatiens balsamina</i> L.	Herb	Garden balsam, garden jewelweed, rose balsam, spotted snapweed, touch-me-not	Balsaminaceae
116.	<i>Ipomoea indica</i> (Burm. f.) Merr./ <i>Ipomoea indica</i>	Twiner	Blue morning glory, oceanblue morning glory, <i>koali awa</i> , and blue dawn flower.	Convolvulaceae
117.	<i>Ipomoea triloba</i> L.	Herb	Littlebell and aiea morning glory	Convolvulaceae
118.	<i>Ixora chinensis</i> Lamk.	Shrub	<u>Santan-tsina</u>	Rubiaceae
119.	<i>Ixora coccinia</i> L.	Shrub	Rugmini	Rubiaceae
120.	<i>Jacaranda sp.</i> Juss.	Shrub	Blue jacaranda	Bignoniaceae
121.	<i>Jacquemontia</i> <i>paniculata</i> (Burm.f.) Andr.	Shrub	Clustervine	Convolvulaceae
122.	<i>Jasminum</i> <i>multiflorum</i> (Burm. f.)	Shrub	Winter jasmine, indian jasmine, downy jasmine, and star jasmine	Oleaceae
123.	<i>Jasminum sambac</i> (L.)	Shrub	Arabian jasmine	Oleaceae
124.	<i>Jatropha curcas</i> Linn.	Shrub	Taxyh ,jam	Euphorbiaceae
125.	<i>Jatropha</i> <i>gossypifolia</i> auct.	Shrub	Chandra jyoti	Euphorbiaceae
126.	<i>Jatropha</i> <i>pandurifolia</i> L.	Shrub	Buddha belly plant	Euphorbiaceae
127.	<i>Kalanchoe laciniata</i> (L.)	Herb	Fir-tree kalanchoe, christmas- tree kalanchoe	Crassulaceae
128.	<i>Kigelia Africana</i> (Lam.) Benth.	Tree	Hatti fal	Bignoneaceae
129.	<i>Lagerstroemia</i> <i>speciosa</i> L.	Shrub	Jarul	Lythraceae
130.	<i>Lagerstromia indica</i> L.	Shrub	<u>Crape myrtle</u> , crepe myrtle	Lythraceae
131.	<i>Leucaena</i> <i>leucocephala</i> L.	Tree	Subabhul	Fabaceae

132.	<i>Limonia variegated</i> L.	Shrub	Lemonia, limonia, pink ravenia	Rutaceae
133.	<i>Mangifera indica</i> L.	Tree	Amba	Anacardeceae
134.	<i>Mentha spicata</i> L.	Herb	Spearmint or spear mint	Lamiaceae
135.	<i>Mentha spicata</i> Linn.	Herb	Mints	Lamiaceae
136.	<i>Michaelia champaka</i> L.	Tree	Champak	Magnoliaceae
137.	<i>Milligotonia hortensis</i> L.	Tree	Akashmogra, buch	Millingtoniaceae
138.	<i>Mimusops elengi</i> L.	Tree	Bakul	Sapotaceae
139.	<i>Mirabilis jalapa</i> L.	Herb	Gulabakshi	Nyctaginaceae
140.	<i>Monstera deliciosa</i> Liebm.	Climber	Fruit salad plant, fruit salad tree	Araceae
141.	<i>Moringa oleifera</i> L.	Tree	Shevaga	Moringaceae
142.	<i>Morus alba</i> L.	Tree	Tuti	Moraceae
143.	<i>Murraya exotica</i> L.	Shrub	Barktree	Rutaceae
144.	<i>Murraya paniculata</i> (L.)	Tree	Kunti	Rutaceae
145.	<i>Musa paradisiaca</i> L.	Culm	Banana, pisang, plantain	Musaceae
146.	<i>Mussanda sp.</i>	Shrub	Queen sirikit	Rubiaceae
147.	<i>Nephrolepis biserata</i> (Sw.) Schott	Herb	Macho fern, giant sword fern	Dryopteridaceae
148.	<i>Nerium indicum</i> Mill.	Shrub	Adelfa	Apocynaceae
149.	<i>Nerium oleander</i> Blanco.	Shrub	Laurel de flor	Apocynaceae
150.	<i>Nyctanthes arbor- tristis</i> L.	Tree	Parijat	Oleaceae
151.	<i>Nymphaea lotus</i> auct.	Aq. Herb	Water-lilies	Nymphaeaceae
152.	<i>Ocimum sanctum</i> Linn., <i>Ocimum tenuiflorum</i>	Herb	Tulsi	Limiaceae
153.	<i>Opuntia sp.</i> Mill.	Shrub	Sabra, nopal	Cactaceae
154.	<i>Peltophorum pterocarpum</i> (DC.) K.Heyne	Tree	Son mohar	Caesalpiniaceae
155.	<i>Pentas lanceolatus</i> (Forsk.) Decne.	Herb	Butterfly gardens	Rubiaceae
156.	<i>Petunia hybrida</i> Vilm.	Herb	Petunia	Solanaceae



157.	<i>Phlox drumondii</i> Hook.	Herb	Drummond's phlox	Polemoniaceae
158.	<i>Phyllanthus emblica</i> L.	Tree	Amla	Euphorbiaceae
159.	<i>Piper betel</i> L.	Climber	Betel pepper, betelvine	Piperaceae/ arecaceae
160.	<i>Piper nigrum</i> L.	Climber	Black pepper	Piperaceae
161.	<i>Pistia stratiotes</i> L.	Aq. Herb	Water cabbage, water lettuce, Nile cabbage	Araceae
162.	<i>Pithecellobium dulce</i> Roxb.	Tree	Ingrajichincha	Mimosaceae
163.	<i>Plumbago zeylanica</i> L.	Herb	Ceylon leadwort or doctorbush	Caesalpiniaceae
164.	<i>Poinsettia pulcherima</i> R. Grah.	Shrub	Christmas star	Plumbaginaceae
165.	<i>Polialthia longifolia</i> (Sooner.)	Tree	False ashoka, the buddha tree	Euphorbiaceae
166.	<i>Polyalthia longifolia</i> Sonn.	Tree	Ashoka	Annonaceae
167.	<i>Polyanthes tuberosa</i> (L.)	Herb	Rajanigandha	Annonaceae
168.	<i>Pongamia pinnata</i> (L.)	Tree	Beech tree	Fabaceae
169.	<i>Portulaca grandiflora</i> Hook.	Herb	Eleven o'clock, Mexican rose	Fabaceae
170.	<i>Pothos aureus</i> / <i>Epipremnum aureum</i> Lind & Andre	Shrub	Golden pothos	Portulacaceae
171.	<i>Psidium guajava</i> L.	Tree	Peru, jamb	Araceae
172.	<i>Pterocarpus marsupium</i> (L.) Roxb.	Shrub	Vijayasar or Indian kino tree	Myrtaceae
173.	<i>Quisqualis indica</i> L.	Climber	Rangunweli	Fabaceae
174.	<i>Rauvolfia canescens</i> Linn., <i>Rauvolfia serpentina</i>	Herb	Sarpagandha	Combretaceae
175.	<i>Ravenala madagascarensis</i> Soonerat	Tree	Traveler's tree	Apocynaceae
176.	<i>Rhoea spathacea</i> (Sw.) Stearn	Herb	Boat lily, oyster plan	Strelitziaceae

177.	<i>Ricinus communis</i> L.	Shrub	Palm of christ	Camelinaceae
178.	<i>Rosa indica</i> L.	Shrub	Gulab	Euphorbiaceae
179.	<i>Russelia equisetiformis</i> Schlecht & Chan.	Herb	Coralblow	Rosaceae
180.	<i>Ruta graveolens</i> Linn.	Herb	Rue, common rue or herb-of-grace	Scrophulariaceae
181.	<i>Salvia splendens</i> Sellow ex Nees.	Herb	Bonfire salvia, scarlet sage	Rutaceae
182.	<i>Sansevieria zeylanica</i> L.	Herb	Mother-in-law's tongue, devil's tongue	Lamiaceae
183.	<i>Santalum album</i> L.	Tree	Sandalwoods	Asparagaceae
184.	<i>Sapindus mukorossi</i> Linn.	Tree	Soapberries or soapnuts	Santalaceae
185.	<i>Saraca indica</i> L.	Tree	Sita ashok	Sapindaceae
186.	<i>Semecarpus anacardium</i> L.	Shrub	Biba	Cesalpiniaceae
187.	<i>Syzygium aromaticum</i> L.	Shrub	Clove	Anacardaceae
188.	<i>Spathiphyllum wallisii</i>	Herb	Peace lily	Myrtaceae
189.	<i>Spathodia companulata</i> P. Beauv.	Tree	Fountain tree, african tulip tree, pichkari or nandi flame	Liliaceae
190.	Spider lily	Herb	Spider lily	Bignoniaceae
191.	<i>Spilanthus paniculata</i> Wall. ex DC.	Herb	Spot flower	Amaryllidaceae
192.	<i>Syngonium auritum</i> Schott	Climber	Arrowhead vine	Asteraceae
193.	<i>Syzygium aromaticum</i> Linn.	Shrub	Lavanga	Araceae
194.	<i>Tabebuia auera</i> (Bur. & Schum.) Britt.	Tree	Caribbean trumpet tree ,silver trumpet tree and tree of gold	Myrtaceae
195.	<i>Tabernaemontana divaricata</i> (L.) R. Br.	Shrub	Sadaphuli /pandharitagar	Bignoniaceae
196.	<i>Tagetis erecta</i> L.	Herb	<u>Marigold</u>	Apocynaceae
197.	<i>Tamarindus indica</i> L.	Tree	Chincha	Asteraceae or compositae

198.	<i>Tecoma stans</i> (L.) H.B.K.	Shrub	Yellow bells	Fabaceae
199.	<i>Tectona grandis</i> L.	Tree	Sag	Bignoniaceae
200.	<i>Terminallia catappa</i> L.	Tree	Kadubadam	Lamiaceae
201.	<i>Thevetia peruviana</i> L.	Tree	Bitti	Malvaceae
202.	<i>Thuja accidentalis</i> L.	Tree	Vidya	Apocynaceae
203.	<i>Thunbergia erecta</i> (Benth.) T. Anders.	Climber	Bush clockvine and king's- mantle	Cupressaceae
204.	<i>Tinospora cordifolia</i> (Willd.) Miers.	Herb	Heart-leaved moonseed, guduchi	Acanthaceae
205.	<i>Tithonia diversifolia</i> (Hemsley) A. Gray.	Shrub	Japanese sunflower, tree marigold	Menispermaceae
206.	<i>Verbena</i> <i>bipinnatifida</i> Schau.	Herb	Dakota mock	Asteraceae
207.	<i>Vinca rosea</i> L.	Herb	Madagascar periwinkle or rosy periwinkle	Verbenaceae
208.	<i>Vitex negunda</i> Linn.	Shrub	Chinese chaste tree, horseshoe vitex	Apocynaceae
209.	<i>Withania somnifera</i> (L.) Dunal	Shrub	Ashwagandha	Verbenaceae
210.	<i>Wodyetia bifurcate</i> A.K.Irvine	Tree	Foxtail palm	Solanaceae
211.	<i>Yucca gloriosa</i> L.	Herb	Spanish dagger, palm lily, roman candle, mound lily yucca	Arecaceae
212.	<i>Zingiber officinale</i> Rosc.	Herb	Ginger	Asparagaceae
213.	<i>Zinnia liniaris</i> Benth.	Herb	Creeping zinnia	Zingiberaceae
214.	<i>Ziziphus jujube</i> Lamk.	Tree	Ber, Chinese apple	Asteraceae
215.	<i>Putranjiva roxburghii</i> Wall.	Tree	Jivanputra, putravanti	Putranjivaceae

**Habit wise distribution of the plant species found in the college campus**

<b>Habit</b>	<b>No. of Species</b>
<b>Aq. Herb</b>	03
<b>Climbers</b>	13
<b>Culm</b>	02
<b>Herb</b>	66
<b>Shrub</b>	61
<b>Tree</b>	70
<b>Twiner</b>	01
<b>Woody Liana</b>	01
<b>Total No. of Species</b>	<b>217</b>

## Tree Species distribution in the college campus

Sr. No	Botanical Name	Vernacular Name	Family	Serial No of plant	
1.	<i>Albizzia lebback</i> (L.) Benth.	Shishir	Cesalpiniaceae	5,25,57,58,84, 92,95,150	8
2.	<i>Alianthus excelsa</i> Roxb.	Maharukh	Simarubaceae	184	1
3.	<i>Alstonia scholaris</i> (L.) R. Br.	Satavai	Apocynaceae	63, 64, 66, 67	4
4.	<i>Annona reticulata</i> L.	Ramphal	Annonaceae	85, -----	2
5.	<i>Annona squamosa</i> L.	Sitafal	Annonaceae	254	1
6.	<i>Azadirachta indica</i> A. Juss	Kadu limb	Meliaceae	14,33, 37, 40, 43, 69, 70, 79, 83, 93, 116, 117, 118, 193, 206, 212, 228, 229, 234, 246	20
7.	<i>Bambusa bambos</i> L.	Welu, Bas	Poaceae	178, 198, 199, 203	4
8.	<i>Bauhinia purpurea</i> L.	Apta	Leguminoceae	56. 59, 187	3
9.	<i>Bombax ceiba</i> L.	Kat sawar	Bombaceae	204	1
10.	<i>Bursera simaruba</i> (L.)		Burseraceae		1
11.	<i>Cactus sp.</i>	Nivdunga	Cactaceae	50	1
12.	<i>Caryota urens</i> L.	Fish tail palm	Areaceae	87	1
13.	<i>Cassia fistula</i> L.	Amaltash	Cesalpiniaceae	202	1
14.	<i>Cassia siamea</i> Lam.	Kashida	Leguminoceae	1,17,21,26,30,31,32,36	8
15.	<i>Ceiba pentandra</i> L.	Pandharisawar	Bombaceae	28	1
16.	<i>Cocos nucifera</i> L.	Naral	Arecaceae	240	1
17.	<i>Delonix regia</i> (Boj. ex. Hook.) raf.	Gulmohar	Fabaceae	102 to 115, 196, 200,205	18

18.	<i>Eucalyptus globulus</i> Labill.	Nilgiri	Myrtaceae	11, 224	2
19.	<i>Ficus glomerata</i> L.	umber	Moraceae	122	1
20.	<i>Gardenia jasminoides</i> J.Ellis	Anant	Rubiaceae	265,268,269	3
21.	<i>Gliricidia sepium</i> (Jacq.) Kunth. ex. Steud	Giripushpa	Fabaceae	80,99,101,189,201,209	6
22.	<i>Ixora chinensis</i> Lamk.		Rubiaceae	245,247	2
23.	<i>Jatropha curcas</i> L.	Danti/ Chandra jyoti	Euphorbiaceae	227	1
24.	<i>Jatropha pandurifolia</i> L.	Buddha belly plant	Euphorbiaceae	39 and new building	2
25.	<i>Kigelia Africana</i> (Lam.) Benth.	Hatti fal	Bignoneaceae	226	1
26.	<i>Leucaena leucocephala</i> L.	Subabhul	Fabaceae	3,6,38	3
27.	<i>Mangifera indica</i> L.	Amba	Anacardeceae	86,88,89,223,233	5
28.	<i>Millingtonia hortensis</i> L.F.	Akashmogra / Buch	Millingtoniace ce	180,181,183,195,222	5
29.	<i>Mimusops elengi</i> L.	Bakul	Sapotaceae	62,182,190	3
30.	<i>Moringa oleifera</i> L.	Shevaga	Moringaceae	4,75,76,81,179	5
31.	<i>Morus alba</i> L.	Tuti	Moraceae	210	1
32.	<i>Ficus elastica</i> Roxb.	Rubber	Moraceae	186	1
33.	<i>Murraya paniculata</i> (L.)	Kunti	Rutaceae	242	1
34.	<i>Nyctanthes arbor-tristis</i> L.	Parijat	Oleaceae	191	1
35.	<i>Peltophorum pterocarpum</i> (DC.) K.Heyne	Son mohar	Caesalpiaceae	2,8,10,12,15,16,27,29	8

36.	<i>Phyllanthus emblica</i> L.	Amla	Euphorbiaceae	194	1
37.	<i>Pithecellobium dulce</i> Roxb.	Ingrajichinch a	Caesalpiniace ae	34,35	1
38.	<i>Psidium guajava</i> L.	Peru, Jamb	Myrtaceae	230	1
39.	<i>Polyalthia longifolia</i> Sonn.	Ashok	Annonaceae	73,74,121,151,152,153,215,216,22 0,221	1 0
40.	<i>Pongamia pinnata</i> (L.)	Karanj	Fabaceae	18,19,20,22,42,44,45,71,119,120,2 07	1 1
41.	<i>Quisqualis indica</i> L.	Rangunweli	Combretaceae	197,255	2
42.	<i>Saraca indica</i> L.	Ashok	Ceasalpiniacea e	238	1
43.	<i>Semecarpus anacardium</i> L.	Biba	Anacardaceae	232	1
44.	<i>Terminalia catappa</i> L.	KaduBadam	Malvaceae	154	1
45.	<i>Tabernaemonta na divaricata</i> (L.) R. Br.	Sadaphuli /Pandharitag ar	Apocynaceae	214	1
46.	<i>Tamarindus indica</i> L.	Chincha	Fabaceae	23,72,192,208	4
47.	<i>Thevetia peruviana</i> L.	Bitti	Apocynaceae	239,241	2
48.	<i>Tectona grandis</i> L.	Sag	Lamiaceae	7,9,24,155 to 177	2 3
49.	<i>Ziziphus jujuba</i> Mill.	Bor	Rhamnaceae	77,78	2
50.	<i>Hyophorbela genicaullis</i> (L.H.Bailey) H.E.Moore	Bottle Palm	Arecaceae	128,129,130,131	4
51.	<i>Araucaria araucana</i> Pav.	Khrismas tree	Araucareaceae	126	1
52.	<i>Dypsis lutescens</i> (H.Wendl.) Beentje & J.Dransf.	Areca palm	Arecaceae	256 to 260, 270 to 272	8

53.	<i>Beaucarnea recurvata</i> Lem.	Ponitail palm	Asparagaceae	261,264,267	3
54.	<i>Breynia disticha</i> J.R.Forst. & G.Forst.	Foliage	Phyllanthus	262,263	2
55.	<i>Euphorbia milii</i> Des Moul.	Crown of thorns	Eubhorbiaceae	266	1
56.	<i>Syagrus romanzoffiana</i> Glassman	Giriba palm	Arecaceae	47,48,50,52,55,91,94,96,98, 100,185	1 1
57.	<i>Putranjiva roxburghii</i> Wall.	Putravanti	Putrajivaceae	273	1
58.	<i>Aegle marmelos</i> L.	Bel	Rutaceae	231	1
59.	<i>Artocarpus heterophyllus</i> Lam.	Fanas	Moraceae	252	1
60.	<i>Syzygium cumini</i>	Jambhul	Myrtaceae	41	1
61.	<i>Daibergia sissoo</i> Roxb.	Shisam	Fabaceae	65,68	2
62.	<i>Ficus religiosa</i> L.	Pimpal	Moraceae	90	1
63.	<i>Wodyetia bifurcate</i> A.K.Irvine	Foxtail palm	Arecaceae	123,124,125,127,134 to 149, 243, 244	2 2
64.	<i>Cycas cercinalis</i> L.		Cycadaceae	132,133,225,250,251,253	6
65.	<i>Santalum album</i> L.	Chandan	Santalaceae	213,249	2
66.	<i>Areca catechu</i> L.	Supari	Arecaceae	217,218,219,235,236,237	6
<b>Total = 261</b>					



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## QR code to Download "Fulora" Application (Template)

**FULORA**  
AN APPLICATION EXPLORING TREE DIVERSITY IN CAMPUS  
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**"FULORA"** is the term applied locally to the bunch flowers from diverse plant groups. Here the "FULORA" portrays the Tree Flora of the lush green campus of Shri Shivaji Science College, Amravati. It is the Web-based interactive application to explore and understand the plant diversity dwelling in the campus. It provides the location map of all the trees with their geographical coordinates. This application narrates the general as well as Botanical information about each plant. It will provide a joyful learning experience and extend the study of Botany from a physical classroom to a lively environment. Nature Lovers can download the "Fulora" application from the Google Play Store or just scan the QR Code to get the link for the app. It is also available on the official website of the college under Academic Department of Botany.

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Shri Shivaji Science College, Amravati