



Floristic inventory of Vidya Pratishthan Educational Campus, Vidyanagari, Baramati, Dist-Pune (M.S.), India

B K Avchar

Associate Professor, Department of Botany, Vidya Pratishthan's Arts, Science and Commerce College,
Vidyanagari, Baramati, Pune, Maharashtra, India

Abstract

The present investigation was carried out on floristic composition of Vidya Pratishthan Educational Campus, Vidyanagari, Baramati, Dist-Pune. There is no comprehensive data available for floristic diversity of this area. Keeping these points in mind, the present investigation was planned. Biodiversity conservation is major concern now a day. The floristic survey was carried out during different seasons namely pre-monsoon, monsoon, and post monsoon of the year 2019-2020. During the course of study total 267 species belongs to 83 genera and 69 families have been reported. These families comprise 48 belongs to Dicotyledons with 199 species and 15 families of Monocotyledons with 58 species. There are 6 Gymnosperms species recorded from 4 families and 3 species of Pteridophytes belong to 2 families. The Fabaceae family was the most dominant family with 30 species followed by Arecaceae, Bignoniaceae, Apocynaceae, Acanthaceae, Euphorbiaceae, Moraceae, Verbenaceae, Araceae and Nyctaginaceae with 16, 15, 14, 12, 9, 8, 7, 6 and 6 plant species respectively. The total 267 plant species from 69 families have been documented with their botanical names, local names, families and flowering season. The study consists of total 267 species where 110 trees, 90 shrubs, 58 herbs, 8 climbers and 5 climbing herbs were documented. This record of work is presented as per The Flora of Presidency of Bombay by Theodore Cooke. The plant species found in study area are mostly ornamental cultivated, exotic and naturally growing with varied habits such as herbs, shrubs, climbers, trees having different flowering seasons. The floristic composition shows biodiversity of different plant species. The degradation of biodiversity is the result of several natural as well as anthropogenic factors. Hence there is urgent need to protect the invaluable diversity of luxuriantly growing plant species in this area from further degradation. The present study will provide the baseline data for the stakeholders to plan the conservation of floristic diversity in this area.

Keywords: Vidya Pratishthan, floristic diversity, anthropogenic, conservation

Introduction

Floristic diversity generally refers to the variety and variability of plants in a given area. Floristic diversity deals with the enumeration of plant species growing in a particular region at a particular time. Floristic assessments are considered as the basic requirement to understand the current status of Phyto diversity of a particular region. Floristic studies provide required knowledge about the various plant species, regarding their nomenclature, distribution, utility and ecology. Such studies also help to understand the basic aspects of biology such as speciation, isolation, endemism and evolution.

The first and foremost process in appreciating the biodiversity is the taxonomic treatment of living organisms. Without appropriate knowledge of the exact species composition, it will be difficult to identify and implement conservation priorities for any ecosystem (Ragavan *et al.*, 2016) ^[11]. The most important part of any floristic survey is the correct scientific identification of the plant wealth found in that particular area (Jasrai *et al.*, 2014) ^[7]. Biodiversity of plant forms like herbs, shrubs, trees and climbers constitute the important component of vegetation (Patel Y B *et al.*, 2014a) ^[9]. Floristic studies have acquired increasing importance in recent years in response to the need of developing and under developing countries to assess their plant wealth.

In the course of floristic studies, plant taxonomists are engaged in collecting information about diversity and distribution of plants throughout the world (Qureshi *et al.* 2011) ^[10]. Floristic studies record the enumeration, distribution, ecological status and association of plant species over different geographic regions. The study of socio-economic significance of plant diversity is of much greater importance than of diversity alone. It is essential for human survival and economic well-being and for ecosystem stability and functioning. This is an established fact that we get enormous benefits from plants and they fulfill almost all our basic requirements in the form of food, fodder, fuel, medicine, timber and resins etc. (Gaur, 1999) ^[5]. Due to large scale anthropogenic disturbances in the form of exclusive agricultural practices, industrialization, urbanization, heavy grazing by livestock's, invasive species and encroachment for commercial and residential purpose, the floral as well as faunal diversity of earth is facing threats of extinction, which will eventually lead to unsustainable situation.

A review of literature reveals that quite little floristic survey was conducted by some workers in Baramati tahsil. Baramati falls under semi-arid zone of the rain shadow effect of the western Ghats. According to Sen (1982) ^[12] this area falls in the category of hot semi-arid region. Many exotic and weedy angiosperms were reported from Baramati region (Deokule and Kamble, 1984; Murumkar and Magdum 1991; Deokule 1997) ^[4, 8, 3]. Deokule (1997) ^[3] reported total 573 species belong to 411 genera of 113 families from Baramati tahsil. Out of these 573 species 326 are cultivated and remaining 247 are reported to be wild. Recently, Bhagat, Shimpale and Deshmukh (2008) ^[1] carried out a floristic analysis of Baramati Tahsil and reported 935 species of wild and cultivated plants.

The main aim of present floristic inventory was to analyze the diversified composition of cultivated ornamental plant species of Vidya Pratishthan Educational complex, Vidyanagari, Baramati, District Pune (Maharashtra State), India. Vidya Pratishthan Educational campus was established during 1991. The campus comprises about 200 acres area which is well designed and landscaped by mostly cultivated exotic ornamental plant species. The floristic composition comprises mostly flowering as well as foliage ornamental plant species which are well suited to this climate. Many avenue trees and shrubs add aesthetic beauty to the campus. There is no comprehensive data available for floristic diversity of this area. Keeping these points in mind, the present investigation was conducted to prepare an inventory of floristic diversity of plants of Vidya Pratishthan Educational Campus Baramati.

Material and Methods

Description of the Study Site

Baramati is situated in south eastern part of Pune district and 100 km away from Pune city. It lies between 18°3'-18°12' N latitude and 74°13'-74°40' longitude. The average altitude in the area is about 538 m above mean sea level. The soil is mainly of Deccan trap and volcanic origin. The chief supply of rain falls from the south west monsoon, from June to October. The major amount of precipitation received during the September and October month. The study area receives 530.2 mm of average annual rainfall. The percentage relative humidity ranges from 35-45 in the summer months but during monsoon months it is more than 50 percent. The highest rainfall i. e. 1260 mm was recorded in 1981. While lowest rainfall 147 mm is reported in 1972. The climate of study area is designated as the hot. Maximum temperature reaches 43°C in summer, while minimum goes down up to 9°C in winter. The mean daily temperature is above 22°C throughout year. The study area was divided into different regions as per the educational institutions such as Marathi and English Medium Schools, College of Arts Science and Commerce, Education, Law, Engineering, Biotechnology, Architect, Nakshatra Udyan and Play Ground, Girls and Boys Hostels, Staff Quarters for convenience and systematic study. It was divided into six zones. Each zone was visited frequently as per the season for floristic study and analysis. The floristic survey was carried out during different seasons namely pre-monsoon, monsoon, and post monsoon of the year 2019-2020. A general survey of the cultivated ornamental plants was made and different plants such as herbs, shrubs, trees, climbers, climbing herbs and grasses along with their association of plants were also observed. To record the floristic diversity of cultivated ornamental as well as naturally growing wild and some fruit, medicinal and forest plants in the study site, several field visits were undertaken at weekly intervals throughout the year. During the field survey, vegetation study was carried out with reference to scientific name, local or common name, number of individuals, family, habit and flowering season of each plant species. Photo images of all plant species in flowering condition were taken by using digital camera (Canon 70D DSLR). The identification of observed plant species was done using relevant floras viz., Flora of British India (Hooker J. D., 1872-1897), The Flora of Presidency of Bombay (T. Cooke, 1958), Flora of Kolhapur District (Yadav and Sardesai, 2002), Bhagat et. al., etc. Complete documentation and photographs were prepared for future record and reference.

Results and Discussion

During the course of study total 267 species belongs to 83 genera and 69 families have been reported. These families comprise 48 belongs to Dicotyledons with 199 species and 15 families of Monocotyledons with 58 species. There are 6 Gymnosperms species recorded from 4 families and 3 species of Pteridophytes belong to 2 families. The Fabaceae family was the most dominant family with 30 species followed by Arecaceae, Bignoniaceae, Apocynaceae, Acanthaceae, Euphorbiaceae Moraceae, Verbenaceae, Araceae and Nyctaginaceae with 16, 15, 14, 12, 9, 8, 7, 6 and 6 plant species respectively. The total 267 plant species from 69 families have been documented with their botanical names, local names, families and flowering season. In the present study for enumerating flora, a total 267 species where 110 trees, 90 shrubs, 58 herbs, 8 climbers and 5 climbing herbs were documented. These plants may have been introduced both intentionally and unintentionally from different localities. Majority of the exotic plants have been introduced for ornamental and landscaping purposes in the campus. Some medicinal, fruit plants and religiously important plants have been cultivated in Nakshatra Udyan as Aaradhya Vruksha. Awareness programmes are urgently needed to sensitize the people about the importance of conservation of biodiversity for food, health and other needs of growing population for present and future generations. Capacity building in the field of taxonomy and biodiversity has also been highlighted as some other measures helpful for floristic diversity conservation in this region. There is need to develop a communication link between taxonomists, ecologists and land managers along with local people to monitor and control the invasive alien species. This record of work is presented as per 'The Flora of Presidency of Bombay' by Theodore Cooke. The list of plants documented is given in the Table 1.

Table 1: Showing Floristic Inventory of Vidya Pratishthan Educational Campus Baramati, Dist-Pune, (MS).

Sr. No.	Scientific Name of the plant species	No. of Individuals	Local /Vernacular Name	Family	Habit	Flowering Season
1	<i>Acacia auriculiformis</i> Benth.	155	Australian Babbul	Fabaceae	Tree	Sept-October
2	<i>Acalypha heterophylla</i> ,	65	Khalipa	Euphorbiaceae	Shrub	May-Sept
3	<i>Acalypha hispida</i> Burm.f.	342	Khalipa	Euphorbiaceae	Shrub	May-Sept
4	<i>Acalypha wilkesiana</i> Müll.Arg.	596	Khalipa	Euphorbiaceae	Shrub	May-Sept
5	<i>Aegle marmelos</i> L.	9	Bel	Rutaceae	Tree	Jan-May
6	<i>Aglaonema commutatum</i> Schott	23	Poison dart plant	Arecaceae	Herb	May-June
7	<i>Albizia lebbek</i> L.	56	Shirish	Fabaceae	Tree	Feb-March
8	<i>Allamanda blanchetii</i> A.DC.	26	Alamanda	Apocynaceae	Climber	Year around
9	<i>Allamanda blanchetii</i> DC.	150	Alamanda	Apocynaceae	Climber	June-August
10	<i>Allamanda neriifolia</i> L.	43	Alamanda	Apocynaceae	Shrub	Year around
11	<i>Alocasia macrorrhizos</i> (L.) G.Don	2	Giant Taro	Araceae	Herb	April-May
12	<i>Alpinia zerumbet</i> Pers.	27	Variegated Ginger	Zingiberaceae	Herb	April-May
13	<i>Alstonia scholaris</i> (L.) R.Br.	32	Black board tree	Apocynaceae	Tree	March-July
14	<i>Ananas comosus</i> (L.) Merr.	2	Ananas	Bromeliaceae	Herb	Feb-March
15	<i>Annona reticulata</i> L.	6	Ramphal	Annonaceae	Shrub	May-June
16	<i>Annona squamosa</i> L.	20	Sitaphal	Annonaceae	Shrub	April-May
17	<i>Araucaria heterophylla</i> (Salisb.) Franco	5	Christmas tree	Araucariaceae	Tree	Sept-Oct
18	<i>Areca catechu</i> L.	16	Supari	Arecaceae	Tree	May-June
19	<i>Artabotrys odoratissimus</i> R. Br.	1	Hirva Chapha	Annonaceae	Climber	Year around
20	<i>Artocarpus integrifolia</i> L.	6	Phanas	Moraceae	Tree	Jan-Feb
21	<i>Asplenium nidus</i> L.	2	Bird's Nest Fern	Aspleniaceae	Herb	Non-Flowering
22	<i>Azadirachta indica</i> A.Juss.	123	Kadu neem	Meliaceae	Tree	March-April
23	<i>Bambusa bambos</i> L.	108	Kalak	Poaceae	Shrub	Every 30-50 Years
24	<i>Bambusa vulgaris</i> Schrad. ex J.C.Wendl.	84	Kalak	Poaceae	Tree	Every 30-50 Years
25	<i>Barleria cristata</i> L.	24	Katekoranti	Acanthaceae	Shrub	Year around
26	<i>Bauhinia acuminata</i> L.	9	Pandhara Aapta	Fabaceae	Shrub	June
27	<i>Bauhinia racemose</i> Lam.	7	Aapta	Fabaceae	Tree	Feb-May
28	<i>Bauhinia tomentosa</i> L.	13	Piwala Kanchan	Fabaceae	Shrub	Dec-March
29	<i>Bauhinia variegata</i> L.	57	Kanchan	Fabaceae	Tree	Nov-December
30	<i>Bauhinia variegata</i> (L.) Benth	32	Kanchan	Fabaceae	Tree	Nov-Dec
31	<i>Bombax ceiba</i> L.	4	Katesavar	Bombacaceae	Tree	Feb-May
32	<i>Bougainvillea buttiana</i> Holtum & Standl.	57	Kagadi Phool	Nyctaginaceae	Shrub	Year Around
33	<i>Bougainvillea glabra</i> Choisy.	53	Kagadi Phool	Nyctaginaceae	Shrub	Year Around
34	<i>Bougainvillea peruviana</i> Bonpl.	69	Kagadi Phool	Nyctaginaceae	Shrub	Year Around
35	<i>Bougainvillea spectabilis</i> Willd.	243	Kagadi Phool	Nyctaginaceae	Shrub	Year Around
36	<i>Breynia disticha</i>	254	Snowbush	Phyllanthaceae	Shrub	Oct-Nov
37	<i>Brownea hybrida</i> , Backer	2	Lal Zumbar	Fabaceae	Shrub	Feb-May
38	<i>Butea monosperma</i> (Lam.) Taub.	24	Palas	Fabaceae	Tree	Jan-March
39	<i>Caesalpinia pulcherrima</i> (L.) Sw.	116	Shankasur	Fabaceae	Shrub	March-April
40	<i>Calamus rotang</i> L.	10	Vet	Arecaceae	Shrub	Year

						around
42	<i>Calathea insignis</i> W.Bull.	8	Rattlesnake plant	Marantaceae	Herb	March-Oct
43	<i>Calathea ornate</i> Linden.	16	Prayer Plant	Marantaceae	Herb	March-Oct
44	<i>Calliandra emerginata</i>	4	Powder puff	Mimosaeae	Shrub	Year around
45	<i>Calliandra haematocephala</i> Hassk.	145	Powder Puff	Mimosaeae	Shrub	Nov-April
46	<i>Callistemon lanceolatus</i> R.Br	32	Bottle Brush	Myrtaceae	Tree	Feb-March
47	<i>Callistemon sieberi</i>	26	Alpine Bottle brush	Myrtaceae	Shrub	Year around
48	<i>Calotropis gigantea</i> (L.) Dryand.	6	Rui	Asclepiadaceae	Shrub	Year around
49	<i>Canna indica</i> L.	100	Kardal	Cannaceae	Herb	Jul-Nov
50	<i>Carica papaya</i> L.	18	Papai	Caricaceae	Tree	Year around
51	<i>Carissa carandas</i> L.	2	Karvand	Apocynaceae	Shrub	Feb-March
52	<i>Caryota urens</i> L.	18	Fish tail palm	Arecaceae	Tree	Jan-April
53	<i>Cascabela thevetia</i> (L.) Lippold	7	Bitti	Apocynaceae	Shrub	April-Sept
54	<i>Cassia fistula</i> L.	168	Bahava	Fabaceae	Tree	April-May
55	<i>Cassia javanica</i> L.	8	Gulabi Cassia	Fabaceae	Tree	April-June
56	<i>Cassia leptophylla</i> Voge	58	Gold Medallion Tree	Fabaceae	Shrub	May-June
57	<i>Cassia microphylla</i> Willd.	12	-	Fabaceae	Shrub	Sept-Octo
58	<i>Catharanthus roseus</i> (L.) G.Don	40	Sadaphooli	Apocynaceae	Herb	Round the Year
59	<i>Centella asiatica</i> (L.) Urban	750	Brahmi	Apiaceae	Herb	July-Aug
60	<i>Cestrum diurnum</i> L.	6	Din Ka Raja	Solanaceae	Shrub	Year around
61	<i>Cestrum nocturnum</i> L.	1	Ratrani	Solanaceae	Shrub	Year around
62	<i>Cheilocostus speciosus</i> (J.Konig) C. Specht	12	Crepe Ginger	Costaceae	Herb	August-Oct
63	<i>Chlorophytum comosum</i> Thunb. Jacques	3115	Spider plant	Asparagaceae	Herb	March-April
64	<i>Chloroxylon swietenia</i> DC.	22	Ceylon Satinwood	Rutaceae	Tree	March-April
65	<i>Citharexylum spinosum</i> , L.	6	Fiddle wood	Verbenaceae	Tree 66	March - April
66	<i>Citrus limetta</i> Risso	1	Mosambi	Rutaceae	Shrub	Nov-Dec
67	<i>Citrus limon</i> L.	3	Kagadi Limbu	Rutaceae	Shrub	Nov-Dec
68	<i>Clerodendrum bungee</i> Steud.	2	Hajari Mogra	Lamiaceae	Shrub	April-May
69	<i>Clitoria ternatea</i> L.	18	Gokarna	Fabaceae	Climber	Year around
70	<i>Cocus nucifera</i> , L.	110	Naral	Arecaceae	Tree	Year round
71	<i>Codiaeum variegatum</i> (L.) A.Juss.	7	Petra	Euphorbiaceae	Shrub	Oct-Nov
72	<i>Coleus scutellarioides</i> (L.) Benth.	4	Coleus	Lamiaceae	Herb	March-May
73	<i>Combretum indicum</i> (L.) De Filippis	2	Madhumalati	Combretaceae	Climber	Year around
74	<i>Cordia sebestena</i> L.	8	Shendari Bhokar	Boraginaceae	Tree	Year around
75	<i>Cordia sebestena</i> L.	46	Cordia	Boraginaceae	Tree	Year around
76	<i>Cordyline fruticose</i> (L.) A.Chev.	200	Red Cordyline	Asparagaceae	Herb	Aug-Sept
77	<i>Cordyline terminalis</i> R. Br.	37	Green Cordyline	Asparagaceae	Herb	Aug-Sept
78	<i>Cortaderia selloana</i> (Schult. & Schult.f.) Asch. & Graebn.	136	Pumpas grass	Poaceae	Herb	Aug-Oct
79	<i>Couropita guianensis</i> Aubl.	1	Kailaspati	Lecythidaceae	Tree	Jan-Feb
80	<i>Crinum asiaticum</i> L.	722	Lily	Amaryllidaceae	Herb	Aug-Nov

81	<i>Crossandra undulaefolia</i>	12	Aboli	Acanthaceae	Herb	Year around
82	<i>Cuphea hyssopifolia</i> Kunth	43	False heather	Lythraceae	Herb	Year around
83	<i>Cupressus funebris</i> Endl.	4	Chinese weeping cypress	Cupressaceae	Tree	March-May
84	<i>Cycas circinalis</i> L.	1	Cycas	Cycadaceae	Tree	March-April
85	<i>Cycas revoluta</i> Thunb.	4	Sago palm	Cycadaceae	Shrub	March-April
86	<i>Cyrtostachys renda</i> Blume	1	Red palm	Arecaceae	Shrub	-
87	<i>Daedalacanthus macrophylla</i> Wall.	24	-	Acanthaceae	Herb	June-Aug
88	<i>Dalbergia sissoo</i> Roxb.	6	Shisam	Fabaceae	Tree	March-June
89	<i>Delonix regia</i> (Boj. ex Hook.) Raf.	97	Gulmohar	Fabaceae	Tree	March-May
90	<i>Dendrocalamus strictus</i> (Roxb.) Nees	46	Velu	Poaceae	Tree	Nov-Feb
91	<i>Dieffenbachia amoena</i>	22	Haritranjak	Dieffenbachiaceae	Herb	April-May
92	<i>Dieffenbachia exotica</i> Hort.	14	Haritranjak	Dieffenbachiaceae	Herb	April-May
93	<i>dieffenbachia maculata</i>	12	Haritranjak	Dieffenbachiaceae	Herb	April-May
94	<i>Dracaena deremensis</i> Warneckii	25	Corn Plant	Asperagaceae	Shrub	March-April
95	<i>Dracaena marginata</i> L.	12	Dragon Tree	Asperagaceae	Shrub	Oct-Nov
96	<i>Dracaena reflexa</i> Lam.	43	Dracena	Asperagaceae	Shrub	Oct-Nov
97	<i>Dracaena sanderiana</i> Mast.	6	Lucky bamboo	Asperagaceae	Shrub	Oct-Nov
98	<i>Dracaena trifasciata</i>	84	Sasuchi jeebh	Asperagaceae	Herb	Octo-November
99	<i>Duranta erecta</i> L.	785	Duranta	Verbenaceae	Shrub	March - April
100	<i>Duranta repens</i> L.	78	Golden Dew drops	Vernenaceae	Shrub	April-May
101	<i>Dyopsis lutescens</i> Beentje & J.Dransf.	326	Areca palm	Arecaceae	shrub	July-August
102	<i>Embllica officinalis</i> L.	48	Awala	Euphorbiaceae	Tree	April-May
103	<i>Eranthemum bicolor</i>	27	Blue Sage	Acanthaceae	Herb	July-Aug
104	<i>Eranthemum nigrum</i>	48	Blue Sage	Acanthaceae	Herb	July-Aug
105	<i>Eranthemum pulchellum</i> Andrews	18	Blue Sage	Acanthaceae	Herb	July-Aug
106	<i>Eranthemum tricolor</i>	35	Blue Sage	Acanthaceae	Herb	July-Aug
107	<i>Erythrina indica</i> Lam.	12	Pangara	Fabaceae	Tree	Jan-Feb
108	<i>Erythrina variegata</i> L. var Picta	81	Pangara	Fabaceae	Tree	Jan-Feb
109	<i>Eugenia jambolana</i> Lam.	10	Jambhul	Myrtaceae	Tree	March-April
110	<i>Euphorbia cotinifolia</i> L.	39	Caribbean Copper Plant	Euphorbiaceae	Shrub	April
111	<i>Euphorbia pulcherrima</i> Willd. ex Klotzsch	40	Lalpatti	Euphorbiaceae	Shrub	Jan- May
112	<i>Euphorbia tithymaloides</i> L.	10	Zig zag plant	Euphorbiaceae	Herb	April-June
113	<i>Ficus benghalensis</i> L.	83	Wad	Moraceae	Tree	Feb-March
114	<i>Ficus benjamina</i> L.	469	Benjamin Wad	Moraceae	Tree	April-May
115	<i>Ficus elastica</i> Roxb	3	Rubber Tree	Moraceae	Tree	April-May
116	<i>Ficus infectoria</i>	4	Payari	Moraceae	Tree	Feb-May
117	<i>Ficus lyrata</i> Warb.	6	Fiddle leaf Fig	Moraceae	Tree	April-May
118	<i>Ficus racemose</i> L.	19	Audumbar	Moraceae	Tree	Nov-January
119	<i>Ficus religiosa</i> L.	59	Pimpal	Moraceae	Tree	Feb-March
120	<i>Filicium decipiens</i> (Wight & Arn.)	32	Fern tree	Sapindaceae	Tree	Jan-February
121	<i>Furcraea foetida</i> (L.) Haw.	16	Furcarea	Asperagaceae	Herb	June-July
122	<i>Galphimia malpighii</i> Cav.	37	Goldshower	Malpighiaceae	Shrub	Year around
123	<i>Gardenia jasminoides</i> J.Ellis	51	Ananta	Rubiaceae	Shrub	Year

						around
124	<i>Gliricidia sepium</i> (Jacq.) Steud.	36	Giripushpa	Fabaceae	Tree	March-April
125	<i>Gmelina arborea</i> Roxb.	4	Shivan	Lamiaceae	Tree	Feb-April
126	<i>Graptophyllum pictum</i>	2	Red Erenthemum	Verbenaceae	Herb	June-July
127	<i>Graptophyllum pictum</i> (L.) Griff.	10	Yellow Erenthemum	Acanthaceae	Herb	March-April
128	<i>Grevillea robusta</i> A.Cunn. ex R.Br.	139	Silver Oak	Proteaceae	Tree	Oct-Nov
129	<i>Hamelia patens</i> Jacq.	188	Scarlet Bush	Rubiaceae	Shrub	Year around
130	<i>Heliconia humilis</i>	6	Lobster claw	Heliconiaceae	Herb	Feb-March
131	<i>heliconia illustris</i> W.Bull	28	Toucan beak	Heliconiaceae	Herb	Feb-March
132	<i>Heliconia psittacorum</i> L.f.	19	Bird's Paradise	Heliconiaceae	Herb	Feb-March
133	<i>Heliconia rostrata</i> , Ruiz & Pavon	110	Bird's Paradise	Heliconiaceae	Herb	Feb-March
134	<i>Heliconia rubricaulis</i> Andre	24	Lobster claw	Heliconiaceae	Herb	Feb-March
135	<i>Heptapleurum actinophyllum</i> (Endl.) Lowry & G.M.Plunkett	3	Umbrella Tree	Araliaceae	Tree	March-April
136	<i>Hibiscus rosa sinensis</i> L.	445	Jaswand	Malvaceae	Shrub	March-October
137	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	1	Vaval	Ulmaceae	Tree	Feb-March
138	<i>Hydrangea macrophylla</i> (Thunb.) Ser.	4	Big leaf hydrangea	Hydrangeaceae	Herb	March-May
139	<i>Ixora chinensis</i> Lam.	54	Ixora	Rubiaceae	Shrub	Year around
140	<i>Ixora coccinea</i> L.	176	Ixora	Rubiaceae	Shrub	Year around
141	<i>Ixora duffii</i> T. Moore	78	Ixora	Rubiaceae	Shrub	Year around
142	<i>Ixora singaporensis</i>	55	Ixora	Rubiaceae	Shrub	Year around
143	<i>Jacaranda mimosifolia</i> D.Don	115	Neelmohar	Bignoniaceae	Tree	Octo-Nov
144	<i>Jasminum auriculatum</i> Vahl	16	Jai	Oleaceae	Climber	June-Aug
145	<i>Jasminum pubescens</i> (Burm. f.) Andrews	13	Kagada	Oleaceae	Climber	June-Aug
146	<i>Jasminum sambac</i> (L.) Aiton	3	Mogara	Oleaceae	Shrub	April-May
147	<i>Jatropha integerrima</i> Jacq.	65	Jatropha	Euphorbiaceae	Shrub	Year around
148	<i>Justicia adhatoda</i> L.	46	Adulsa	Acanthaceae	Shrub	March-June
149	<i>Justicia brandegeana</i> Wassh. & L.B.Sm.	22	Shrimp Plant	Acanthaceae	Shrub	March-April
150	<i>Kigelia Africana</i> (Lam.) Benth.	34	Hattiphall	Bignoniaceae	Tree	Aug-Sept
151	<i>Lagerstroemia speciosa</i> (L.) Pers.	56	Taman/jaru	Lythraceae	Tree	March-April
152	<i>Lantana camara</i> L.	113	Ghaneri	Verbenaceae	Herb	Year around
153	<i>Latania loddigesii</i> Martius	4	Latania	Arecaceae	Tree	Nov-December
154	<i>Latania lontaroides</i> H.E. Moore	8	Red Palm	Arecaceae	Shrub	Nov-December
155	<i>Lawsonia inermis</i> L.	1	Mehandi	Lythraceae	Shrub	Aug-Sept
156	<i>Leea rubra</i> Blume	22	Pucok Merah	Vitaceae	Shrub	July-August
157	<i>Leucaena leucocephala</i> Lam.	20	Subabhul	Mimosae	Tree	Year around
158	<i>Leucophyllum frutescens</i> (Berland.) I.M.Johnst.	32	Nikodia	Scrophulariaceae	Shrub	Various time during the year
159	<i>Limonia acidissima</i> L.	2	Kawath	Rutaceae	Tree	Feb-March
160	<i>Livistona chinensis</i>	6	Fan palm	Arecaceae	Tree	Feb-March

	(Jacq.) R.Br. ex Mart.					
161	<i>Livistona rotundifolia</i> Lamk.	16	Foot Stool Palm	Arecaceae	Shrub	December to March
162	<i>Madhuca longifolia</i> (J.Konig) J.F.Macbr.	4	Moha	Sapotaceae	Tree	Feb-April
163	<i>Malpighia coccigera</i> L.	142	Dwarf Holly	Malpighiaceae	Shrub	Year around
164	<i>Mangifera indica</i> L.	67	Amba	Anacardiaceae	Tree	January-Feb
165	<i>Manilkara hexandra</i> (Roxb.)	1	Kherani	Sapotaceae	Tree	Dec-Feb
166	<i>Melia azedarach</i> L.	1	Bakan Limb	Meliaceae	Tree	Feb-March
167	<i>Mesua ferrea</i> L.	2	Nagkeshar	Calophyllaceae	Tree	April-June
168	<i>Michelia champaca</i>	4	Sonchapha	Magnoliaceae	Tree	June-Sept
169	<i>Millettia pinnata</i> (L.)	99	Karanj	Fabaceae	Tree	Year around
170	<i>Millingtonia hortensis</i> L.f.	154	Aaksh nimb	Bignoniaceae	Tree	Oct-Nov
171	<i>Mimusops elengi</i> L.	225	Bakul	Sapotaceae	Tree	March-April
172	<i>Mitragyna parvifolia</i> (Roxb.) Korth	8	Kadamb	Rubiaceae	Tree	March-July
173	<i>Morinda citrifolia</i> L.	1	Nagakunda	Rubiaceae	Tree	Year around
174	<i>Moringa oleifera</i> Lam.	8	Shevaga	Moringaceae	Tree	March-Aug
175	<i>Muntingia calabura</i> L.	4	Cherry	Muntingiaceae	Tree	Year around
176	<i>Murraya koenigii</i> , L.	2	Kadipatta	Rutaceae	Tree	April-May
177	<i>Murraya paniculate</i> (L.) Jack	153	Kamini	Rutaceae	Shrub	June-March
178	<i>Musa paradisiaca</i> L.	7	Keli	Musaceae	Shrub	Nov-Dec
179	<i>Mussaenda erythrophylla</i> Schumach. & Thonn.	7	Musanda	Rubiaceae	Shrub	June-July
180	<i>Neolamarckia cadamba</i> (Roxb.) Bosser	38	Kadamba	Rubiaceae	Tree	June-Aug
181	<i>Nephrolepis biserrate</i> Schott.	27	Neche	Nephrolepidaceae	Herb	Non Flowering
182	<i>Nephrolepis exaltata</i> (L.) Schott	170	Neche	Nephrolepidaceae	Herb	Non flowering
183	<i>Nerium oleander</i> L.	30	Kanher	Apocynaceae	Shrub	April-August
184	<i>Nyctanthes arbor-tristis</i> L.	8	Prajakta/Parijatak	Oleaceae	Tree	Year around
185	<i>Nymphaea nouchali</i> Burm. f.	40	Kamal	Nymphaeaceae	Herb	Aug-October
186	<i>Nymphaea Species</i> L.	91	Water Lily	Nymphaeaceae	Herb	Year around
187	<i>Ophiopogon juburan</i> G. Lodd	35	Giant Lilyturf	Asperagaceae	Herb	June-July
188	<i>Pandanus amaryllifolius</i> Roxb.	1	Kewada	Pandanaceae	Shrub	
189	<i>Pandanus variegated</i> Parkinson ex Du Ro	595	Pandanus variegated	Pandanaceae	Herb	Round the year
190	<i>Parkia pedunculata</i> (Roxb.) J.F.Macbr.	1	Chendu Phali	Mimosaceae	Tree	Dec-Jan
191	<i>Peltophorum pterocarpum</i> (DC.) K.Heyne	225	Copper pod tree	Fabaceae	Tree	March to May
192	<i>Pentas lanceolata</i> (Forssk.)	50	Pentas	Rubiaceae	Herb	Year Round
193	<i>Pentas lanceolata</i> (Forssk.) Deflers	52	Pentas	Rubiaceae	Herb	Year around
194	<i>Philodendron burgundy</i>	16	Love Tree	Araceae	Climbing Herb	March-April
195	<i>Philodendron Ceylon</i>	26	Ceylon Golden	Araceae	Climbing	March-

			Plant		Herb	April
196	<i>Phoenix Roebelenii O'brien</i>	14	Date palm	Arecaceae	Shrub	Feb-March
197	<i>Pithecellobium dulce</i> (Roxb.) Benth.	9	Vilayati Chinch	Fabaceae	Tree	January- Feb
198	<i>Plerandra elegantissima</i> (Veitch ex Masters)	4	False Aralia	Araliaceae	Shrub	April-May
199	<i>Plumbago auriculata</i> Lam.	320	Chitrak	Plumbaginaceae	Herb	Year around
200	<i>Plumeria alba</i> L.	130	Chapha	Apocynaceae	Tree	March- October
201	<i>Plumeria pudica</i> Jacq.	72	Pudicachapha	Apocynaceae	Tree	August- September
202	<i>Plumeria rubra</i> L.	23	Red Chapha	Apocynaceae	Tree	Sept-Octo
203	<i>Plumeria Singapore</i>	66	Singapore Chapha	Apocynaceae	Shrub	Year around
204	<i>Polyalthia longifolia</i> (Sonn.) Thwaites	1	False Ashoka	Annonaceae	Tree	March- April
205	<i>Polyscias balfouriana</i> J.R.Forst	40	Aralia	Araliaceae	Shrub	March- April
206	<i>Polyscias fruticose</i> L.	24	Aralia	Araliaceae	Shrub	March- April
207	<i>Polyscias guilfoylei</i> (W.Bull) L.H. Bailey	18	Aralia	Araliaceae	Shrub	March- April
208	<i>Pouteria sapota</i> (Jacq.)	78	Chikku	Sapotaceae	Tree	Year around
209	<i>Prosopis cineraria</i> (L.) Druce	3	Shami	Fabaceae	Tree	Feb-March
210	<i>Pterospermum acerifolium</i> (L.) Willd.	10	Muchkund	Malvaceae	Tree	Jan-April
211	<i>Punica granatum</i> L.	1	Dalimb	Lythraceae	Shrub	Jan-Feb
212	<i>Putranjiva roxburghii</i> , Wall.	42	Putrajivi	Putranjivaceae	Tree	March- May
213	<i>Ravenala madagascariensis</i> Sonn.	23	Travellers Palm	Sterlitziaceae	Tree	Sept-Nov
214	<i>Ravenia specyabilis</i> Lindl	248	Lemonia	Rutaceae	Shrub	Year around
215	<i>Rhapis excelsa</i> (Thunb.) A.Henry	131	Raphis palm	Arecaceae	Shrub	Feb-March
216	<i>Rosa indica</i> L.	34	Gulab	Rosaceae	Shrub	Year around
217	<i>Roystonea regia</i> (Kunth) O.F.Cook	110	Royal palm	Arecaceae	Tree	July-Sept
218	<i>Russelia equisetiformis</i> Schlecht. & Cham	60	Fountain Bush	Plantaginaceae	Climbing Herb	Year around
219	<i>Russelia juncea</i>	639	Firecracker	Plantaginaceae	Climbing Herb	Year around
220	<i>Salmalia malabarica</i>	8	Cotton Silk tree	Bombacaceae	Tree	Jan-March
221	<i>Samanea saman</i> (Jacq.) Merr.	11	Indian Rain Tree	Fabaceae	Tree	Feb-March
222	<i>Sanchezia nobilis</i> Ruiz & Pav.	34	Tiger Plant	Acanthaceae	Shrub	April-Sept
223	<i>Sansevieria trifasciata</i>	9	Mother-in-Law tongue	Asperagaceae	Herb	Feb-March
224	<i>Santalum album</i> L.	18	Chandan	Santalaceae	Tree	July- October
225	<i>Saraca asoca</i> (Roxb.) Willd.	4	Sitecha Ashok	Fabaceae	Tree	Feb-March
226	<i>Schefflera actinophylla</i>	7	Brassaia	Araliaceae	Tree	April-May
227	<i>Schefflera arboricola</i> (Hayata) Merr.	178	Sheflera	Araliaceae	Shrub	March- April
228	<i>Senegalia catechu</i> (L.f.) P.J.H.Hurter & Mabb.	8	Khair	Fabaceae	Tree	June-Aug
229	<i>Senna siamea</i> Lam.	79	Kashid	Fabaceae	Tree	April- September
230	<i>Spathiphyllum clevelandi</i> Schott.	32	Peace Lily	Araceae	Herb	Year around
231	<i>Spathodea campanulate</i> P.Beauv.	122	Pickari	Bignoniaceae	Tree	Sept- December
232	<i>Sphagneticola trilobata</i> (L.) Pruski	663	Yellow	Asteraceae	Herb	Year

			Creeping Daisy			around
233	<i>Stachytarpheta indica</i> (L.) Vahl	165	Snakeweed	Verbenaceae	Herb	Year around
234	<i>Stachytarpheta mutabilis</i>	53	Red Snakeweed	Verbenaceae	Herb	Year around
235	<i>Sterculia foetida</i> L.	2	Goldaru	Malvaceae	Tree	March-April
236	<i>Strobilanthes dyerianus</i> Mast.	23	<i>Persian shield</i>	Acanthaceae	Herb	Nov-Dec
237	<i>Strychnos nux-vomica</i> L.	2	Kuchla	Loganiaceae	Tree	March-May
238	<i>Swietenia macrophylla</i> King	74	Mahogani	Meliaceae	Tree	March-June
239	<i>Syngonium podophyllum</i> Schott.	152	Aarrowhead plant	Araceae	Climbing Herb	April-May
240	<i>Syzygium myrtifolium</i> Roxb.	48	Lilly Pilly	Myrtaceae	Shrub	March-April
241	<i>Syzygium myrtifolium</i> Roxb.	64	Lilly Pilly	Myrtaceae	Shrub	August to October
242	<i>Tabebuia argentea</i> Benth & Hook	1	Piwala tabubia	Bignoniaceae	Tree	Oct-Nov
243	<i>Tabebuia argentea</i> DC.	84	Tree of Gold	Bignoniaceae	Tree	April-May
244	<i>Tabebuia aurea</i> (Silva Manso) Benth. & Hook.f. ex S.Moore	2	Caribbean trumpet tree	Bignoniaceae	Tree	March-April
245	<i>Tabebuia rosea</i> , DC.	180	Basant bahar	Bignoniaceae	Tree	March - April
246	<i>Tabernaemontana divaricate</i> R.Br.	130	Tagar	Apocynaceae	Shrub	Year around
247	<i>Tamarindus indica</i> L.	54	Chinch	Fabaceae	Tree	Oct-Nov
248	<i>Tamarindus indica</i> L.	54	Chinch	Fabaceae	Tree	Jan-February
249	<i>Tecoma alata</i>	654	Tiger Tecoma	Bignoniaceae	Shrub	Year around
250	<i>Tecoma capensis</i> (Thunb.) Lindl.	235	Orange tecoma	Bignoniaceae	Shrub	Year around
251	<i>Tecoma castanifolia</i> D. Don	678	Gaudichavdi	Bignoniaceae	Shrub	Year around
252	<i>Tectona grandis</i> L.f.	4	Sagwan	Lamiaceae	Tree	June-August
253	<i>Terminalia arjuna</i> (Roxb.) Wight & Arn.	106	Arjun	Combretaceae	Tree	May-June
254	<i>Terminalia catappa</i> L.	30	Jangali Badam	Combretaceae	Tree	March - April
255	<i>Terminalia mantaly</i>	96	Indian Christmas tree	Combretaceae	Tree	Feb-March
256	<i>Terminalia mantaly</i> H Perrier	5	Indian Christmas Tree	Combretaceae	Tree	Aug-Sept
257	<i>Thespesia populnea</i> L.	9	Devbhendi	Malvaceae	Tree	Year around
258	<i>Thevetia perviana</i> , (Pers.) K. Schum	99	Bitti	Apocynaceae	Shrub	Year around
259	<i>Thuja occidentalis</i> L.	33	Morpankhi	Cupressaceae	Shrub	April-May
260	<i>Tradescantia spathacea</i> Sw.	180	Rhoeo	Commelinaceae	Herb	Oct-Nov
261	<i>Vernonia elaeagnifolia</i> DC.	45	Curtain Creeper	Asteraceae	Climber	Feb-March
262	<i>Washingtonia filifera</i> (Lindl.) H.Wendl.	4	Desert Fan Palm	Arecaceae	Tree	July-Aug
263	<i>Wodetia bifurcate</i> , A.K.Irvine	8	Fox tail Palm	Arecaceae	Tree	Aug-Sept
264	<i>Yucca species</i> L.	2	Yuca	Asperagaceae	Shrub	April-May
265	<i>Zamia pygmaea</i> Sims	1	Zamia	Zamiaceae	Shrub	April-May
266	<i>Zamioculcus zamifolia</i> (Lodd) Engl.	4	ZZ plant	Araceae	Succulent Herb	Aug-Sept
267	<i>Zephyranthes rosea</i> Lindl.	60	Rain Lily	Amaryllidaceae	Herb	June-July

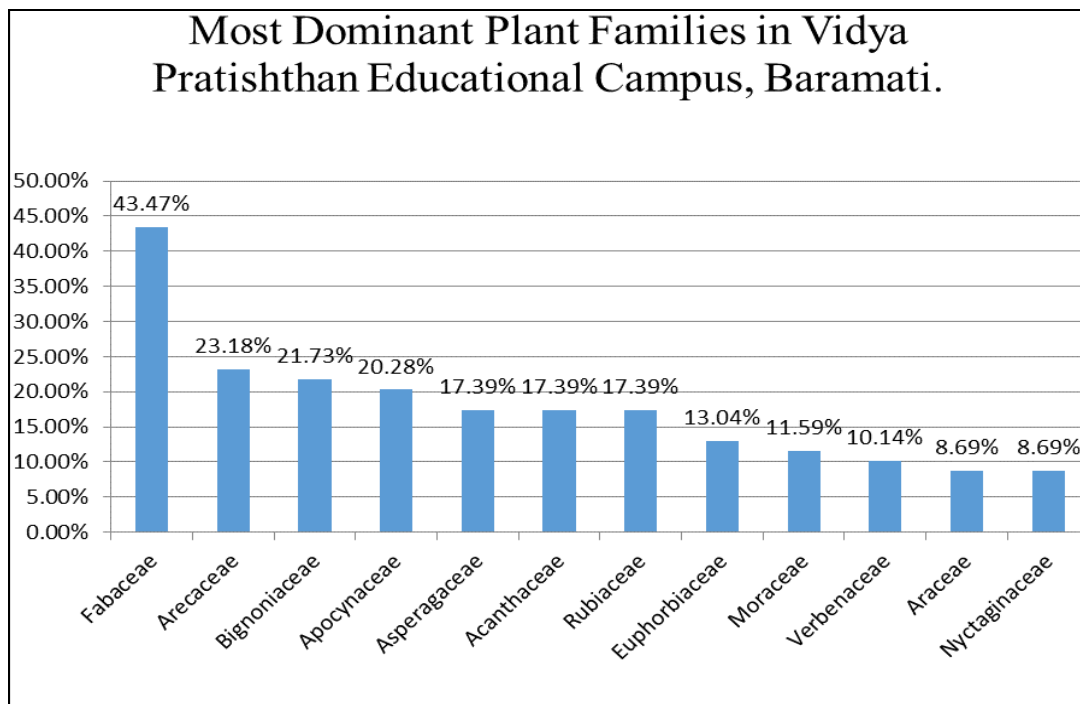


Fig 1: Most Dominant plant families in Vidya Pratishthan Educational Campus.

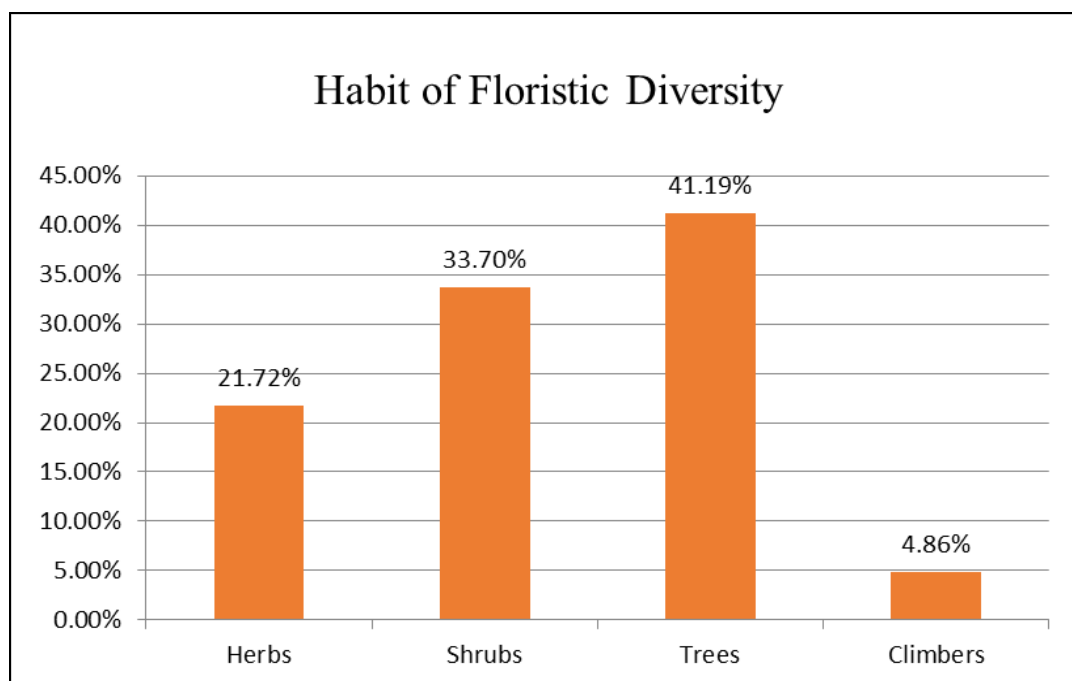


Fig 2: Habit of floristic Diversity in Vidya Pratishthan Educational Campus.

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