

Vegetation structure in a semi-natural green space

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Abstract

The picturesque Vikrama Simhapuri University Post Graduation Centre campus has native vegetation tropical dry scrub forest. The flora inventory was carried out in campus (GPS coordinates of 14° 54' 47.4516" N and 79° 59' 34.7316" E). This campus covers an area of 75 acres. The field studies were performed in the campus around the year and plants were collected to prepare herbarium. After field survey and herbarium preparation, all plant species were identified by botanical name and family with the help of available literature. A total of 337 plant species which include flowering plants and non-flowering plants were enumerated from the campus. The 339 plant species in 252 genera belonged to 86 families. Among flowering plants 224 species (66.07%) are wild plant species and 115 species (33.92%) are cultivated medicinal and ornamental plants.

Keywords: diversity, flora, species, cultivated, flowering plants

Introduction

Flora is the list of plants of a particular region. Documentation of local flora provides the basic information of native plants, invasive species and rare plants. An understanding of the distribution of plants species in a region play a significant role in revealing the larger patterns of distribution of biodiversity. Inventorization of the flora in university campus is further useful for the students to protect the local biodiversity and botanists, researchers, ecologists to plan for resource management and sustainable biodiversity conservation.

Flora of Andhra Pradesh represents 16% of angiospermous species of India. It accounts for about 2800 taxa belonging to 1051 genera in 185 families [1]. Flora of SPSR Nellore district has been studied [2]. Though State and district floras are available, it is essential to study the flora in small areas like wall habitats for the revision of flora and better understanding of the ecosystem. This helps to know the changes in floristic patterns. The vegetation distribution, floristic compositions are most important ecological features of an ecosystem, which show variations in response to environment as well as anthropogenic factors. Quite a few studies have been conducted on floristic composition of campuses in India [3, 4, 5, 6, 7, 8, 9, 10, 11]. The objective of the present study is to explore the existing flora in the Vikrama Simhapuri University Post graduate Centre campus.

Material and Methods

Study area

This study was conducted in 75 acres of land of Vikrama Simhapuri University Post Graduation Centre Campus (VSUPGC campus). VSUPGC campus is located one kilometer towards north from Kavali town of SPSR Nellore district, Andhra Pradesh, India (Figure 1). Kavali is connected with other places by road and rail. National highway 16 passes through Kavali town. Geocode of VSUPGC campus is GPS coordinates of 14° 54' 47.4516" N and 79° 59' 34.7316" E. It is with an average elevation of 17m from sea level with red gravelly soil. Kavali is with hot and humid weather due to tropical climate. Temperature

ranges between 36⁰-46⁰C during summer and 21⁰C-25⁰C during winter. The average temperature of Kavali is 28.9⁰C. The rainfall here averages 943mm. Most of the rainfall is received through depressions in Bay of Bengal. Avenue trees like *Peltophorum pterocarpum* and *Pongamia pinnata* were planted in the campus. Natural vegetation of the campus comprises of thorny shrubs and herbs. Ground flora is seasonal. Some of the area in campus supported monocultures of *Eucalyptus* and *Pterocarpus santalinus*.

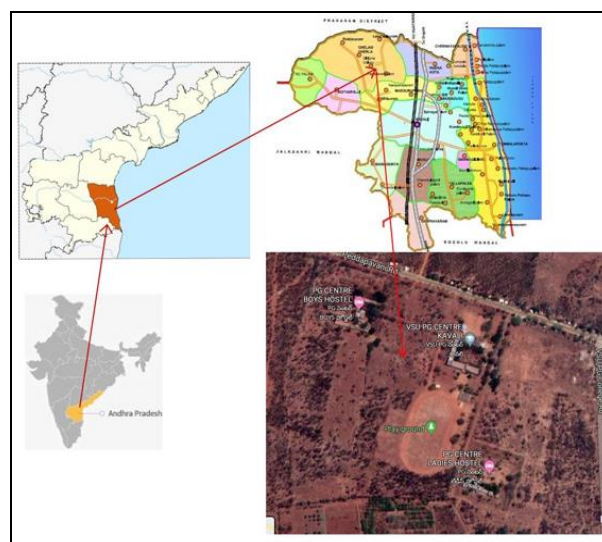


Fig 1: Location map of field area studied

Field study

Field explorations were undertaken covering rainy, summer and winter seasons from the year 2015 to 2018 to record plant species. Plant species were identified using floras and literature [12, 13, 14, 15]. All the plant species are arranged according to the alphabetical order. Scientific name, Family, Local name, habit of all the plants is given. Some of the plants were prepared herbarium and deposited in the department of Botany. Some photographs have been provided for wild (Plate 1) and cultivated (Plate 2) species.

Results and Discussion

This study recorded 338 species in the campus which includes wild and cultivated species belonging to 86 families. Lichens, bryophytes and fungi of campus are excluded in the present study. For all the enumerated wild and cultivated plant species, information such as botanical name, family name, vernacular name, life forms are provided in Table 1. Plant habit or life forms in the campus comprise herbs, sub shrubs, shrubs, trees, climbers, parasites and epiphytes. The contribution of herbaceous diversity is maximum i.e. 171 species (50.44%) followed by trees 57 species (16.86%), shrubs 43 species (12.72%), climbers 41 species (12.13%), 24 sub shrubs (7.1%), 2 parasites (0.59%) and one epiphyte (0.29%) (Figure 2). The most diverse plant families in our campus include Euphorbiaceae (22 species), Fabaceae (22 species), Poaceae (18 species), Amaranthaceae (15 species), Malvaceae (15 species), Acanthaceae (15 species), Convolvulaceae (11 species), Rubiaceae (10 species), Mimosaceae (10 species) (Figure 3). The members of the family Euphorbiaceae are cosmopolitan in distribution and are more abundant in warmer areas. *Phyllanthus virgatus*, *Phyllanthus amarus* are present abundantly in the campus. They are grown in soil with low moisture content. Most of the plants of lower strata include Fabaceae members like *Indigofera linnaei*, *Indigofera linifolia*, *Zornia diphylla*, and *Tephrosia purpurea*. Poaceae members with 18 species forms ground flora in rainy and winter seasons. Flora is dominated by thorny species of *Zizyphus mauritiana*, *Zizyphus oenoplea*,

Zizyphus xylopyrus, *Acacia leucophloea*, *Acacia farnesiana*, *Prosopis juliflora*, *Catunaregam spinosa*, *Dichrostachys cinerea*, *Carissa spinarum*, *Securinega leucopyrus*, and *Mimosa pudica*. They are present throughout the year. They form small thickets with climbers and herbaceous species. Subshrubs are present in open or shade of the thickets formed by thorny shrubs and trees. They include *Hyptis suaveolens*, *Abutilon crispum*, *Acalypha ciliata*, *Caesalpinia bonduc*, *Cassia absus*, *Plumbago zeylanica*. Herbs like *Sida acuta*, *Andrographis paniculata*, *Pavonia zeylanica*, *Pavonia odorata*, *Hemidesmus indicus*, and *Hibiscus micranthus* dominate. Number of annual or perennial herbs and grasses appear in open areas with the arrival of monsoon.

The common monsoon herb species are *Spermacoce hispida*, *Evolvulus alsinoides*, *Convolvulus arvensis*, *Hybanthus enneaspermus*, *Alternanthera paranychoides*, *Elytraria acaulis* and *Cassia tora*. *Cassytha filiformis* is associated with species of *Zizyphus* and *Carissa*. *Tephrosia purpurea*-*Pavonia odorata*-*Croton bon plandianum*; *Andrographis paniculata*-*Evolvulus alsinoides*-*Mimosa pudica*; *Hyptis suaveolens*-*Tephrosia purpurea* are the plant associations that occur commonly in the campus. Pure stand of *Sida acuta* appear in the monsoon and *Cassia tora* appear in the summer, respectively. There is decrease in the abundance of natural flora due to overgrazing, land use change i.e. land used for play grounds, construction of buildings, roads; and plantation of non-local species for shade and recreation purposes.

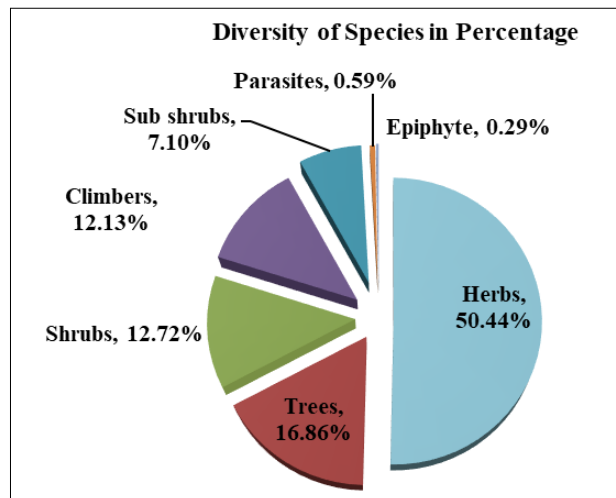


Fig 2: Diversity of Plant Species according to their habits

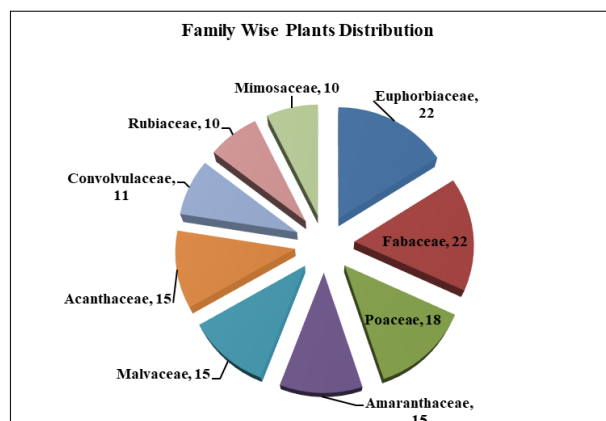
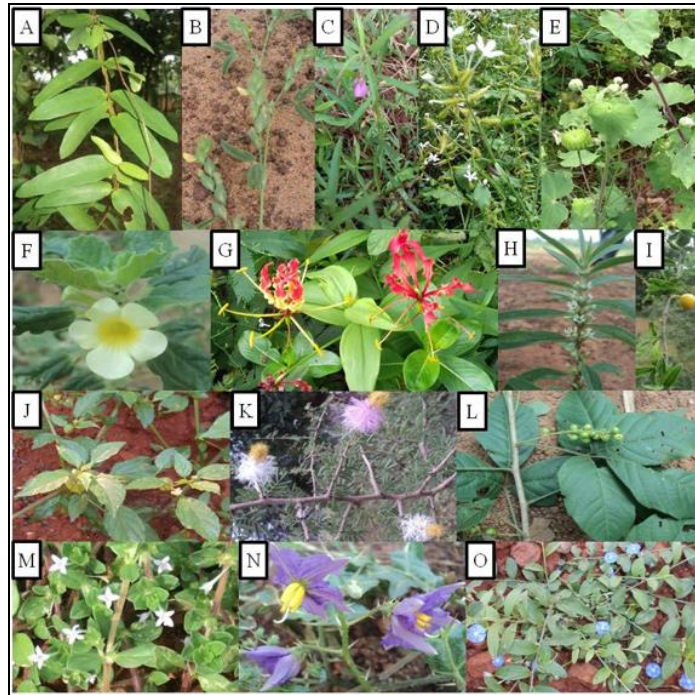
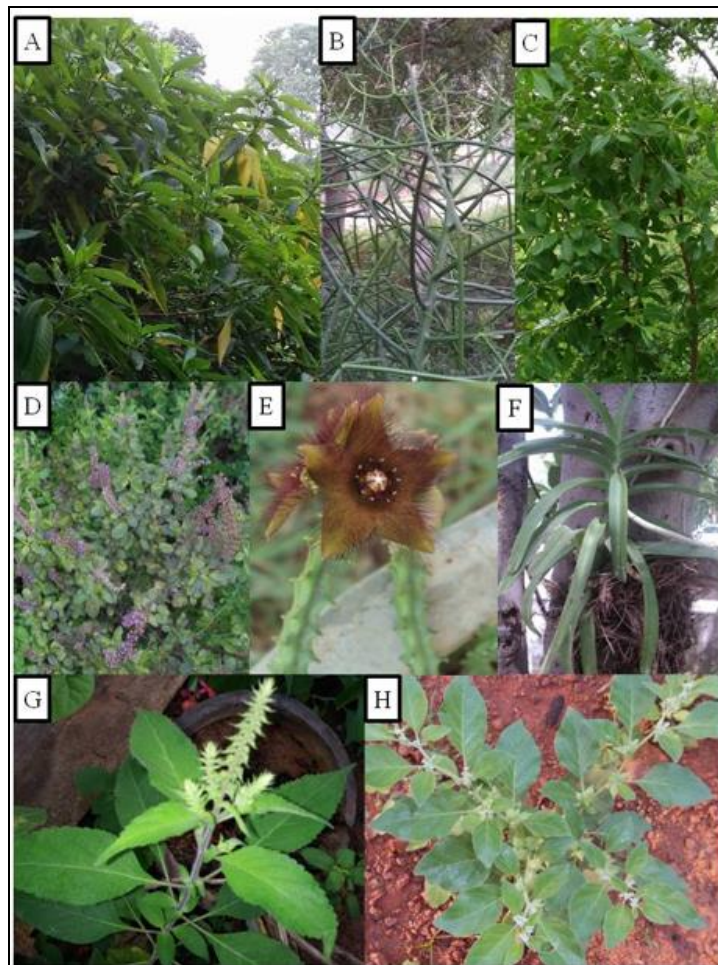


Fig 3: Family wise Distribution of Flora in PG Centre Campus.



Photographs of some wild plants in VSUPGC Campus

Plate 1: A. *Hemidesmus indicus* var. *pubescens* Hook.; B. *Zornia diphylla* var. *glochidiata* DC; C. *Hybanthus enneaspermus* (L.) F. Muell.; D. *Plumbago zeylanica* L.; E. *Abutilon indicum* (L.) Sweet; F. *Pedalium murex* L.; G. *Gloriosa superba* L.; H. *Enicostemma littorale* L.; I. *Gmelina asiatica* L.; J. *Physalis minima* L.; K. *Mimosa pudica* L.; L. *Allophylus serratus* (Roxb.) Kurz.; M. *Spermacoce hispida* L.; N. *Solanum surattense* Burm. f.; O. *Evolvulus alsinoides* L.



Photographs of some Cultivated plants in VSUPGC Campus

Plate 2: A. *Justicia adathoda* L.; B. *Euphorbia tirucalli* L.; C. *Santalum album* L.; D. *Ocimum tenuiflorum* L.; E. *Caralluma indica* (Wight & Arn.); F. *Vanda tesellata* (Roxb.)Hook. Ex G. Don; G. *Ocimum gratissimum* L.; H. *Withania somnifera* (L.) Dunal.

Table 1: Enumeration of Plants in VSU PG Centre, Kavali

S. No.	Name of the plant	Family	Local (Telugu) Name	Habit
1	<i>Abelmoschus moschatus</i> Medic.	Malvaceae	Kasturi benda	S
2	<i>Abrus precatorius</i> L.	Fabaceae	Guruvinda, guruginja	C
3	<i>Abutilon crispum</i> (L.) Medik.	Malvaceae		SS
4	<i>Abutilon indicum</i> (L.) Sweet	Malvaceae	Thutturu benda, Duvvena kayalu	S
5	<i>Acacia auriculiformis</i> A.Cunn. Ex Benth.	Mimosaceae	Australia thumma	T
6	<i>Acacia leucophloea</i> (Roxb.) Willd.	Mimosaceae	Tella thumma	T
7	<i>Acacia nilotica</i> (L.) Willd. ex Del.subsp. indica	Mimosaceae	Nalla thumma	T
8	<i>Acalypha ciliata</i> Forssk.	Euphorbiaceae	Nugu kuppinta	SS
9	<i>Acalypha indica</i> L.	Euphorbiaceae	Pippintaku, Kuppintaku	H
10	<i>Acalypha wilkesiana</i> Müell.-Arg.	Euphorbiaceae		S
11	<i>Achyranthes aspera</i> L. var. <i>aspera</i> Wt.	Amaranthaceae	Uttareni	H
12	<i>Aegle marmelos</i> (L.) Corr.	Rutaceae	Maaredu	T
13	<i>Aerva lanata</i> (L.) Juss.ex Schult.	Amaranthaceae	Kondapindi	H
14	<i>Aeschynomene aspera</i> L.	Fabaceae	Neetijeeluga	H
15	<i>Agave americana</i> L.	Agavaceae	Kittanara	H
16	<i>Ageratum conyzoides</i> L.	Asteraceae	vasavi	H
17	<i>Albizia lebbek</i> (L.) Willd.	Mimosaceae	Dirisena, Siresha puspan	T
18	<i>Albizia saman</i> (Jacq.) Merr.	Mimosaceae	Nidraganneru	T
19	<i>Allamanda cathartica</i> L.	Apocynaceae	Allenandatheega	C
20	<i>Allophylus serratus</i> (Roxb.) Kurz.	Sapindaceae	Chinna Sali kunkudu	S
21	<i>Aloe vera</i> (L.) Burm.f.	Liliaceae	Kalabanda	H
22	<i>Alternanthera paranychoides</i> A.St.Hil.	Amaranthaceae		H
23	<i>Alternanthera pungens</i> Kunth.	Amaranthaceae	Mullaponnaganti	H
24	<i>Alternanthera tenella</i> Colla	Amaranthaceae		H
25	<i>Alysicarpus vaginalis</i> (L.) DC.	Fabaceae	Baramthalu chettu	H
26	<i>Alysicarpus monilifer</i> (L.) DC.	Fabaceae	Amera	H
27	<i>Amaranthus spinosus</i> L.	Amaranthaceae	Mullathotakoora, Doggali	H
28	<i>Amaranthus tricolor</i> L.	Amaranthaceae	Perugu thotakoora	H
29	<i>Amaranthus viridis</i> L.	Amaranthaceae	Chilaka thotakoora, Kodijuttuaku	H
30	<i>Ammannia baccifera</i> L.	Lythraceae	Agnivendram	H
31	<i>Andrographis echinoides</i> (L.) Nees	Acanthaceae	Deepala chettu	H
32	<i>Andrographis paniculata</i> L.	Acanthaceae	Nelavemu	H
33	<i>Anisomeles indica</i> (L.) Kuntze	Lamiaceae	Magabeera	SS
34	<i>Anisomeles malabarica</i> L.	Lamiaceae	Aadabeera	SS
35	<i>Annona squamosa</i> L.	Annonaceae	Seeta phalam	T
36	<i>Antigonum leptopus</i> Hook. & Arn.	Polygonaceae	Yerra battanitheega	C
37	<i>Araucaria columnaris</i> (Forst.) Hk.	Araucariaceae	Christmas tree	T
38	<i>Aristalochia bracteolata</i> Lam.	Aristolochiaceae	Gadidhagadapa, Thellaeswari	H
39	<i>Aristalochia indica</i> L.	Aristolochiaceae	Nallaeswari	H
40	<i>Aristida adscensionis</i> L.	Poaceae	Cheepurupulla, Porakagaddi	H
41	<i>Artemisia pallens</i> Wall. ex DC.	Asteraceae	Machipathri	H
42	<i>Artocarpus heterophyllus</i> Lam.	Moraceae	Panasa	T
43	<i>Asclepias curassavica</i> L.	Apocynaceae	Jilledu Mandara, Agni Jilledu,	H
44	<i>Asparagus racemosus</i> (Kunth) Jessop	Liliaceae	Pillitheegalu, Sathavari	C
45	<i>Asparagus spinosus</i> (Kunth) Jessop	Liliaceae	Laavu Pili Gaddalu	H
46	<i>Asystasia gangetica</i> (L.) T.Anderson	Acanthaceae	Podabeera	H
47	<i>Azadirachta indica</i> A. Juss.	Meliaceae	Vepa	T
48	<i>Azima tetracantha</i> Lam.	Salvadoraceae	Paalakaya	S
49	<i>Bambusa vulgaris</i> Schrad.	Poaceae	Veduru	S
50	<i>Barleria prionitis</i> L.	Acanthaceae	mulla gorinta	H
51	<i>Basella alba</i> L. var. <i>rubra</i>	Basellaceae	bachhali aku	C
52	<i>Bauhinia purpurea</i> L.	Caesalpiniaceae	Devakanchanam	T
53	<i>Blepharis madaraspatensis</i> (L.) Heyne ex Roth.	Acanthaceae		H
54	<i>Blepharis repens</i> (Vahl.) Roth	Acanthaceae		H
55	<i>Boerhavia diffusa</i> L.	Nyctaginaceae	Atikamamidi, Punarnava	H
56	<i>Boerhavia erecta</i> L.	Nyctaginaceae	Punarnava	H
57	<i>Bougainvillea spectabilis</i> Willd.	Nyctaginaceae	Kagithala puvvu	SS
58	<i>Brachiaria mutica</i> (Forssk.) Stapf	Poaceae		H
59	<i>Brachiaria ramosa</i> (L.)	Poaceae	Eduguru gaddi	H
60	<i>Brachiaria reptans</i> (L.) Gard & Hubb.	Poaceae		H
61	<i>Bryophyllum pinnatum</i> (Lam.) Oken	Crassulaceae		H
62	<i>Bulbostylis barbata</i> (Rottb.) Kunth	Cyperaceae		SS
63	<i>Caesalpinia pulcherrima</i> (L.) Sw	Caesalpiniaceae	Chinna turayi, Pydi thangedu	SS
64	<i>Caesalpinia bonduc</i> (L.) Roxb.	Caesalpiniaceae	Gachakaya	SS
65	<i>Calotropis gigantea</i> (L.) R.Br.	Asclepiadaceae	Tella Jilledu	S
66	<i>Calotropis procera</i> (Ait.) R.Br.	Asclepiadaceae	Erra Jilledu	S
67	<i>Canna indica</i> L.	Cannaceae	Metta tamara	H
68	<i>Canthium dicoccum</i> (Gaertn.) Teijsm.& Binn.	Rubiaceae	Nalla balusu	T
69	<i>Capparis zeylanica</i> L.	Capparaceae	Aridonda, Tella uppi	C

70	<i>Caralluma indica</i> (Wight & Arn.)	Asclepiadaceae	Kundelu kimmulu	H
71	<i>Cardiospermum helicacabum</i> L.	Sapindaceae	Budda kakara	C
72	<i>Cardiospermum canescens</i> Wall.	Sapindaceae	Chinna buddabusara	C
73	<i>Carissa spinarum</i> L.Mnt. Var.spinarum	Apocynaceae	Chinna kalivi	S
74	<i>Cassia absus</i> L.	Caesalpiniaceae	Chanupala vithulu	SS
75	<i>Cassia fistula</i> L.	Caesalpiniaceae	Seema rela	T
76	<i>Cassytha filiformis</i> L.	Lauraceae	Pasi teega, Seethammavari savaralu	P
77	<i>Casuarina equisetifolia</i> Forst. & Forst f.	Casuarinaceae	Sarugudu	T
78	<i>Catharanthus roseus</i> (L.) G.Don	Apocynaceae	Billa ganneru	H
79	<i>Catunaregam spinosa</i> (Thunb.) Tirven.	Rubiaceae	Chinna manga	S
80	<i>Celosia argentea</i> L. var. argentea	Amaranthaceae	Gurugaku, Tella Kodijuttu	H
81	<i>Celosia polygonoides</i> Retz.	Amaranthaceae	Eluka uttaren	H
82	<i>Centella asiatica</i> (L.) Urban	Apiaceae	Saraswathiaku, Mandukaparni	H
83	<i>Ceropegia adscendens</i> Var. attenuata Roxb.	Asclepiadaceae		H
84	<i>Ceropegia indica</i> (Wight & Arn.) Bruyns	Asclepiadaceae		H
85	<i>Chloris barbata</i> Sw.	Poaceae	Uppu gaddi, Jada kunchula gaddi	H
86	<i>Chlorophytum laxum</i> R.Br.	Liliaceae		H
87	<i>Cissus quadrangularis</i> L.	Vitaceae	Nalleru	C
88	<i>Cissus triangularis</i> L.	Vitaceae		C
89	<i>Citrullus colocynthis</i> (L.) Schrad.	Cucurbitaceae	Verri puchakaya	C
90	<i>Citrus aurantifolia</i> (Christm.)	Rutaceae	Nimma	T
91	<i>Cleome gynandra</i> L.	Cleomaceae	Vominta	H
92	<i>Cleome viscosa</i> L.	Cleomaceae	Kukka vaminta	H
93	<i>Clitoria ternata</i> L.	Fabaceae	Sankhupushpi	C
94	<i>Coccinia grandis</i> L.	Cucurbitaceae	Donda	C
95	<i>Cocculus hirsutus</i> (L.) W.Theob.	Menispermaceae	Dusara teega	C
96	<i>Cocos nucifera</i> L.	Arecaceae	Kobbari, tenkaya	T
97	<i>Codiaeum variegatum</i> (L.) A.Juss.	Euphorbiaceae		S
98	<i>Coldenia procumbens</i> L.	Boraginaceae	Chepputhattaku	H
99	<i>Commelina benghalensis</i> L.	Commelinaceae	Vennedra, Venna veduru	H
100	<i>Commelina diffusa</i> Burm.f.	Commelinaceae		H
101	<i>Commelina longifolia</i> Lam.	Commelinaceae		H
102	<i>Conocarpus erectus</i> L.	Combretaceae	Button chettu	T
103	<i>Convolvulus arvensis</i> L.	Convolvulaceae	Savarala teega	H
104	<i>Corchorus olitorius</i> L.	Tiliaceae	Janumu, Parinthakoora	H
105	<i>Corchorus trilocularis</i> L.	Tiliaceae	Bankaku	H
106	<i>Costus speciosus</i> (Koen.) Smith	Costaceae	Bomma-kachika, vana vasa	SS
107	<i>Crinum asiaticum</i> L.	Amaryllidaceae	Chengalva	H
108	<i>Crossandra infundibuliformis</i> (L.) Nees	Acanthaceae	Kanakambaram	H
109	<i>Crotalaria angulata</i> Mill.	Fabaceae		H
110	<i>Crotalaria hirta</i> Willd.	Fabaceae		H
111	<i>Croton bonplandianum</i> Baill.	Euphorbiaceae	Galivana mokka	H
112	<i>Cucumis melo</i> L.	Cucurbitaceae	Budama teega	C
113	<i>Cucumis sativus</i> L.	Cucurbitaceae	Dosakaya	C
114	<i>Cucurbita pepo</i> L.	Cucurbitaceae	Pottigummadi	C
115	<i>Cuscuta reflexa</i> Roxb.	Convolvulaceae	Sitamma pogunalu	P
116	<i>Cyanotis cristata</i> (L.) D.Don	Commelinaceae	Netha kina	H
117	<i>Cyanotis fasciculata</i> (B.Heyne ex Roth) Schult. and Schult.f.	Commelinaceae	Golla gundi	H
118	<i>Cycas circinalis</i> L.	Cycadaceae	Perita	T
119	<i>Cycas sphaerica</i> Roxb.	Cycadaceae	Kodhada chettu	T
120	<i>Cymbopogon citratus</i> (DC.) Stapf	Poaceae	Nimma gaddi, Chippara gaddi	H
121	<i>Cynodon dactylon</i> (L.) Pers.	Poaceae	Garika	H
122	<i>Cyperus pangorei</i> Rottb.	Cyperaceae		H
123	<i>Cyperus pumilus</i> L.	Cyperaceae		H
124	<i>Cyperus rotundus</i> L. tuberosus	Cyperaceae	Thunga mustalu	H
125	<i>Dactyloctenium aegyptium</i> (L.) Willd.	Poaceae	Nela ragi	H
126	<i>Datura fastuosa</i> L.	Solanaceae		S
127	<i>Datura innoxia</i> Mill.	Solanaceae	Karu ummetta, Tella ummettu	S
128	<i>Datura metal</i> L.	Solanaceae	Chinna ummetta	S
129	<i>Delonix regia</i> (Boj. ex Hook.) Rafin.	Caesalpiniaceae	Turayi	T
130	<i>Dendrophoe falcata</i> (L.f.) Ett. Var. falcata	Loranthaceae	Kukkanaluka, Badanika	C
131	<i>Desmodium pulchellum</i> (L.) Benth.	Fabaceae	Deyyapu mokku, Nimalpinchamu	S
132	<i>Dichrostachys cinerea</i> (L.) Wighth & Arn	Mimosaceae	Veluturu	T
133	<i>Dieffenbachia camilla</i>	Araceae		S
134	<i>Digera muricata</i> (L.) Mart.	Amaranthaceae	Chenchalicettu	H
135	<i>Digitaria sanguinalis</i> (Persl) Miq.	Poaceae		H
136	<i>Dioscorea bulbifera</i> L.	Dioscoreaceae	Chedupaddudumpa	C
137	<i>Dioscorea oppositifolia</i> L.	Dioscoreaceae	Adavi dumpatheega	C
138	<i>Diospyros ferrea</i> (Willd.) Bakh.	Ebenaceae	Pisinika	C
139	<i>Diplocyclos palmatus</i> L.	Cucurbitaceae	Linga donda	C
140	<i>Dodonaea viscosa</i> (L.) Jacq	Sapindaceae	Bandaru, Banderu	S
141	<i>Dolichandrone falcata</i> var. falcata	Bignoniaceae	Neeruddi	S

142	<i>Dracaena braunii</i> Engl.	Agavaceae		SS
143	<i>Duranta repens</i> L.	Verbenaceae	Damayanti	SS
144	<i>Ecbolium viride</i> (Forssk.) Alston	Acanthaceae	Neelambaramu	H
145	<i>Echinochloa crus-galli</i> (L.) P.Beauv.	Poaceae	Pedda windu	H
146	<i>Eclipta prostrata</i> L.	Asteraceae	Guntakalagara, Kaatukaaku	H
147	<i>Ehretia microphylla</i> L.	Cordiaceae	Bavanaburei	S
148	<i>Elytraria acaulis</i> (L. f.) Lindau	Acanthaceae	Yeddu adugu	H
149	<i>Enicostemma littorale</i> L.	Gentianaceae	Nela gulimidi	H
150	<i>Eragrostis minor</i> Host	Poaceae		H
151	<i>Eragrostis tenella</i> (L.) P.Beauv. ex Roem. & Schult.	Poaceae	Chinna Garikagaddi	H
152	<i>Eriocaulon cinereum</i> R.Br.	Eriocaulaceae		H
153	<i>Ervatamia divaricata</i> (L.) Burkill.	Apocynaceae	Garudavardanam	S
154	<i>Eucalyptus globulus</i> Labill.	Myrtaceae	Neelagiri, Jamail	T
155	<i>Euphorbia antiquorum</i> L.	Euphorbiaceae	Bonta Jemudu	S
156	<i>Euphorbia heterophylla</i> L.	Euphorbiaceae		S
157	<i>Euphorbia hirta</i> L.	Euphorbiaceae	Nanubalu, Patchabottu	H
158	<i>Euphorbia microcarpa</i> (Prokh.) Krylov.	Euphorbiaceae		H
159	<i>Euphorbia milii</i> Des Moul.	Euphorbiaceae	Mullakuchu chettu	H
160	<i>Euphorbia pulcherrima</i> Willd. ex	Euphorbiaceae	Yerrakula jamudu	S
161	<i>Euphorbia tirucalli</i> L.	Euphorbiaceae	Kada jemudu, Katimandu	S
162	<i>Evolvulus alsinoides</i> L.	Convolvulaceae	Vishnukranthamu	H
163	<i>Evolvulus nummularius</i> L.	Convolvulaceae	Eluka Cheviaku	H
164	<i>Ficus benghalensis</i> L.	Moraceae	Marri	T
165	<i>Ficus microcarpa</i> L.f. 1782	Moraceae		H
166	<i>Ficus religiosa</i> L.	Moraceae	Raavi	T
167	<i>Fimbristylis aestivalis</i> (Retz.) Vahl	Cyperaceae		H
168	<i>Fimbristylis ferruginea</i> (L.) Vahl	Cyperaceae		H
169	<i>Garcinia gummi-gutta</i> (L.) Robs.	Malphigiaceae	Thamala	T
170	<i>Gisekia pharnaceoides</i> L.	Molluginaceae	Isaka danthi	H
171	<i>Glinus lotoides</i> L.	Molluginaceae	Chadarasi kooru, Tella puni	H
172	<i>Gloriosa superba</i> L.	Cochlaceae	Nabhi, Agni sikha	C
173	<i>Gmelina asiatica</i> L.	Verbenaceae	Gummudu	S
174	<i>Gomphrena globosa</i> L.	Amaranthaceae	Bondu mali	H
175	<i>Gomphrena serrata</i> L.	Amaranthaceae	Thella pogadabanti	H
176	<i>Gymnema sylvestri</i> R.Br.	Asclepiadaceae	Podapathri	C
177	<i>Hedyotis aspera</i> L.	Rubiaceae	Sanna parapatamu	H
178	<i>Hedyotis tuberella</i> L.	Rubiaceae		H
179	<i>Heliotropium indicum</i> L.	Boraginaceae	Naga danthi	H
180	<i>Hemidesmus indicus</i> (L.) R. Br. ex Schult.	Periplocaceae	Sugandhapala	H
181	<i>Hemidesmus indicus</i> var. <i>pubescens</i> Hook.	Periplocaceae	Pedda sugandhapala	C
182	<i>Hibiscus micranthus</i> L.f.	Malvaceae	Chukkamalli	H
183	<i>Hibiscus rosa-sinensis</i> L.	Malvaceae	Mandara	S
184	<i>Hibiscus lobatus</i> Kuntz.	Malvaceae	Atakanara, Tella benda	H
185	<i>Hybanthus enneaspermus</i> (L.) F.Muell.	Violaceae	Ratna purusha	H
186	<i>Hyptis suaveolens</i> (L.) Poit.	Lamiaceae	Kukka tulasi	SS
187	<i>Indigofera linifolia</i> (L.f.) Retz.	Fabaceae	Gudlaku	H
188	<i>Indigofera linnaei</i> Ali	Fabaceae	Yerra palleru, Cheragadam	H
189	<i>Indigofera tinctoria</i> L.	Fabaceae	Neeli	SS
190	<i>Indigofera trifolia</i> L.	Fabaceae	Baragadam, Miripindi	SS
191	<i>Ipomoea carnea</i> Jacq.	Convolvulaceae	Thutukada	C
192	<i>Ipomoea cornata</i> L.	Convolvulaceae		C
193	<i>Ipomoea quamoclit</i> L.	Convolvulaceae	Kasiratnalu	C
194	<i>Ixora coccinia</i> L.	Rubiaceae	Rama banam, Nooru varahalu	S
195	<i>Jasminum olitorius</i> Wight	Oleaceae	Adavi sannajaji	C
196	<i>Jatropha curcas</i> L.	Euphorbiaceae	Adavi amudam, Pedda	S
197	<i>Justicia prostrata</i> Gamble	Acanthaceae		H
198	<i>Justicia adathoda</i> L.	Euphorbiaceae	Addasaramu	S
199	<i>Lanena coromandelica</i> (Hout.) Merr.	Anacardiaceae	Gumpina	T
200	<i>Lantana camara</i> var. <i>aculeata</i> (L.) Moldenke	Verbenaceae	Pulikampa	S
201	<i>Lawsonia inermis</i> L.	Lythraceae	Gorinta	S
202	<i>Lepidagathis cristata</i> Willd.	Acanthaceae	Nakka pintuka	H
203	<i>Leucaena leucocephala</i> (Lam.) de Wit	Mimosaceae	Chandra chettu	T
204	<i>Limonia acidissima</i> L.	Rutaceae	Velaga	T
205	<i>Ludwigia perennis</i> L.	Onagraceae	Lavanga kaaya	H
206	<i>Lycopersicon esculentum</i> Miller	Solanaceae	Ramamulaga pandu	H
207	<i>Macroptilium lathyroides</i> (L.) Urban	Fabaceae		H
208	<i>Malvastrum coromandelianum</i> (L.) Garcke	Malvaceae		H
209	<i>Mangifera indica</i> L.	Anacardiaceae	Mamidi	T
210	<i>Melochia corchorifolia</i> L.	Sterculiaceae	Ganugapindikura	H
211	<i>Merremia aegyptia</i> L.	Convolvulaceae	Elukajemuda	C
212	<i>Merremia emarginata</i> (Burm. f.) Hallier f.	Convolvulaceae	Nallakulatheega	H
213	<i>Merremia tridentata</i> (L.) Hallier f.	Convolvulaceae	Mududantla aku	H

214	<i>Michelia champaca</i> L.	Magnoliaceae	Chettusampanga	T
215	<i>Micrococca mercurialis</i> (L.) Benth.	Euphorbiaceae		H
216	<i>Millingtonia hortensis</i> L. f.	Bignoniaceae	Kada malle, Manu sampenga	T
217	<i>Mimosa pudica</i> L.	Mimosaceae	Atti patti	SS
218	<i>Mirabilis jalapa</i> L.	Nyctaginaceae	Chandrakantha, Sandhyamalli	H
219	<i>Mollugo nudicaulis</i> Lam.	Molluginaceae	Peddaparapatakam	H
220	<i>Mollugo oppositifolia</i> L.	Molluginaceae	Chayuntarashi	H
221	<i>Mollugo pentaphylla</i> L.	Molluginaceae	Verri chatarasi	H
222	<i>Momordica charantia</i> L.	Cucurbitaceae	Kakara	C
223	<i>Monstera deliciosa</i> Liebm.	Araceae		H
224	<i>Monsua allicea</i>	Bignoniaceae	Tellagaddaku	C
225	<i>Moringa oleifera</i> Lam.	Moringaceae	Munaga	T
226	<i>Morus alba</i> L.	Moraceae	Pattu prugulu chettu	SS
227	<i>Murraya koenigii</i> (L.) Spreng.	Rutaceae	Karivepaku	T
228	<i>Musa paradisiaca</i> L.	Musaceae	Arati	T
229	<i>Neolamarckia cadamba</i> (Roxb.) Bosser	Rubiaceae	Kadamba	T
230	<i>Nerium oleander</i> L.	Apocynaceae	Erra ganneru	S
231	<i>Ocimum basilicum</i> L.	Lamiaceae	Sabja	H
232	<i>Ocimum gratissimum</i> L.	Lamiaceae	Rama tulasi	H
233	<i>Ocimum tenuiflorum</i> L.	Lamiaceae	Vishnu tulasi	H
234	<i>Oldenlandia corymbosa</i> L.	Rubiaceae	Vernnela-venu	H
235	<i>Oldenlandia umbellata</i> L.	Rubiaceae	Parapatakamu	H
236	<i>Opuntia dillenii</i> (Ker Gawl.) Haw.	Cactaceae	Nagajamudu	S
237	<i>Oxalis corniculata</i> L.	Oxalidaceae	Pulichinta	H
238	<i>Panicum psilopodium</i> Trin.	Poaceae	Pattu pullu	H
239	<i>Parthenium hysterophorus</i> L.	Asteraceae	Vayyaribhama	H
240	<i>Paspalidium flavidum</i> (Retz.) A. Camus	Poaceae	Udagaddi	H
241	<i>Passiflora edulis</i> L.	Passifloraceae	Jukamalli	C
242	<i>Pavonia odorata</i> Willd.	Malvaceae	Chittibenda	H
243	<i>Pavonia zeylanica</i> (L.) Cav.	Malvaceae	Karubenda	H
244	<i>Pedaliium murex</i> L.	Pedaliaceae	Yenugu palleru	H
245	<i>Peltophorum pterocarpum</i> (DC.)	Caesalpiniaceae	Kondachintha	T
246	<i>Pergularia daemia</i> (Forssk.) Chiov.	Asclepiadaceae	Dustapu theega	C
247	<i>Perotis indica</i> (L.) Ktze.	Poaceae	Nakka thokagaddi, Nakka peechu	H
248	<i>Phyla nodiflora</i> (L.) Greene	Verbenaceae	Bokkenaku, Gaja pippalakada	H
249	<i>Phyllanthus amarus</i> Schumach. & Thonn.	Euphorbiaceae	Nela usuri	H
250	<i>Phyllanthus emblica</i> L.	Euphorbiaceae	Usiri	T
251	<i>Phyllanthus maderaspatensis</i> L.	Euphorbiaceae	Nalla usuri, Kukka usuri	H
252	<i>Phyllanthus reticulatus</i> Poir.	Euphorbiaceae	Nallapurugudu	SS
253	<i>Phyllanthus virgatus</i> G. Forst.	Euphorbiaceae	Gadavusuri	H
254	<i>Physalis minima</i> L.	Solanaceae	Budda budama	H
255	<i>Piper betel</i> L.	Piperaceae	Thamalapakku	C
256	<i>Pithecolobium dulce</i> (Roxb.) Benth.	Mimosaceae	Chema chinta	T
257	<i>Plectranthus amboinicus</i> (Lour.) Spreng.	Lamiaceae	Vamakku	SS
258	<i>Plumbago zeylanica</i> L.	Plumbaginaceae	Chitramulam	SS
259	<i>Plumeria rubra</i> L.	Apocynaceae	Deva ganneru	T
260	<i>Polyalthia longifolia</i> (Sonner) Thw.	Annonaceae	Naramamidi, Asoka	T
261	<i>Pongamia pinnata</i> (L.) Pierre	Fabaceae	Ganuga/Kamata	T
262	<i>Portulaca grandiflora</i> L.	Portulacaceae	Peddapayalaku	H
263	<i>Portulaca oleracea</i> L.	Portulacaceae	Payalaku	H
264	<i>Pouzolzia zeylanica</i> (L.) Benn	Urticaceae	Eddumuthi dumpa	S
265	<i>Prosopis chilensis</i> (Molina) Stuntz	Mimosaceae	Kara tumma, Kanche	T
266	<i>Pseudobrachiaria deflexa</i> (Schum.) Laun. In Mitt.	Poaceae		H
267	<i>Psidium guajava</i> L.	Myrtaceae	Jama	T
268	<i>Psilotrichum elliotii</i> Baker & Clarke	Amaranthaceae	Chinnakattula chettu	H
269	<i>Pterocarpus santalinus</i> L. f.	Fabaceae	Erra chandanam	T
270	<i>Punica granatum</i> L.	Punicaceae	Danimma	T
271	<i>Pupalia lappacea</i> (L.) Juss.	Amaranthaceae	Thella uttaren	H
272	<i>Putranjiva roxburghii</i> Wall.	Euphorbiaceae	Puttaranjivi	S
273	<i>Rhinacanthus nasutus</i> L.	Acanthaceae	Nagamalliakku	S
274	<i>Rhynchosia heynei</i> Wt. & Arn.	Fabaceae	Teega kandi	SS
275	<i>Ricinus communis</i> L.	Euphorbiaceae	Aamudam	S
276	<i>Rivea hypocrateriformis</i> Choisy	Convolvulaceae	Pedda bodditheega	C
277	<i>Rivea ornata</i> (Roxb.)	Convolvulaceae	Bodditheega	C
278	<i>Rosa centifolia</i> L.	Rosaceae	Roja	SS
279	<i>Rostellularia patula</i> L.	Acanthaceae		H
280	<i>Rungia repens</i> (L.) Nees	Acanthaceae	Kharmor	SS
281	<i>Sansveria roxburghiana</i> (Schult. & Schult.f.) Kuntze.	Agavaceae	Saga	H
282	<i>Santalum album</i> L.	Santalaceae	Chandanam, Gandam	T
283	<i>Sapindus emarginatus</i> Vahl.	Sapindaceae	Kunkudu, Ritta kaya	T
284	<i>Saraca asoca</i> (Roxb.) de Wilde	Caesalpiniaceae	Ashoka chettu	T
285	<i>Sarcostemma secamone</i> (L.) Bennet	Asclepiadaceae	Palatheega, Vanthulatheega	C

286	<i>Scilla hyacinthina</i> (Roxb.) Macbr.	Liliaceae	Adavi thellagadda	H
287	<i>Senna tora</i> (L.) Roxb.	Fabaceae	Peddakasinda, Tagirisa	H
288	<i>Sesamum alatum</i> Thonn	Pedaliaceae	Adavinuvvulu, Pichinuvvulu	H
289	<i>Sida acuta</i> Burm.f.	Malvaceae	Medabirusaku	H
290	<i>Sida cordata</i> (Burm.f.) Borss.Waalk.	Malvaceae	Gayapaku	H
291	<i>Sida cordifolia</i> L.	Malvaceae	Bala, Chirubenda	H
292	<i>Sida linifolia</i> L.	Malvaceae		H
293	<i>Sida rhombifolia</i> L.	Malvaceae	Guba thada, Athibala	H
294	<i>Solanum nigrum</i> L.	Solanaceae	Kamanchi, Kasaka	H
295	<i>Solanum surattense</i> Burm. f.	Solanaceae	Errivanga, Vakudu, Nelamuluka	H
296	<i>Solanum torvum</i> Sw.	Solanaceae	Vushti	H
297	<i>Spermacoce hispida</i> L.	Rubiaceae	Madanakattaku	H
298	<i>Spermacoce stricta</i> (Wall.) DC.	Rubiaceae	Tsukka-kada, Pachanuri	H
299	<i>Stachytarpheta jamaicensis</i> (L.) Vahl	Verbenaceae	Ceemal-nayurur	H
300	<i>Stylosanthes hamata</i> (L) Taub.	Fabaceae		H
301	<i>Synedrella nodiflora</i> L.	Asteraceae	Pacha chettu	H
302	<i>Syzygium cumini</i> (L.) Skeels	Myrtaceae	Neredu	T
303	<i>Talinum portulacifolium</i> (Vahl.)Willd.	Portulacaceae	Seema bacchali	H
304	<i>Tamarindus indica</i> L.	Caesalpiniaceae	Chinta	T
305	<i>Tecoma stans</i> (L.) Kunth	Bignoniaceae	Swarna ganneru	S
306	<i>Tectona grandis</i> L. f.	Verbenaceae	Teku	T
307	<i>Tephrosia purpurea</i> (L.) Pers.	Fabaceae	Vempali	H
308	<i>Tephrosia strigosa</i> (Dalz.) Sant. & Mahes.	Fabaceae		H
309	<i>Tephrosia villosa</i> L.	Fabaceae	Nugu vempali	H
310	<i>Terminalia arjuna</i> (Roxb. DC.)	Combretaceae	Tella maddi	T
311	<i>Terminalia catappa</i> L.	Combretaceae	Nattu badam, Tapasataruvu	T
312	<i>Thespesia populnea</i> L.	Malvaceae	Gangaravi, Gangireni	T
313	<i>Thuja orientalis</i> L.	Cupressaceae	Thuja	S
314	<i>Thunbergia fragrans</i> Roxb.	Acanthaceae	Idratheega	C
315	<i>Tinospora cardifolia</i> L.	Menispermaceae	Tippa teega, dussiramu	H
316	<i>Tradescantia bracteata</i> L.	Commelinaceae		H
317	<i>Tradescantia spathacea</i> Sw.	Commelinaceae		H
318	<i>Trianthema decandra</i> L.	Aizoaceae	Thella galijeru	H
319	<i>Trianthema portulacastrum</i> L.	Aizoaceae	Nadaraku, Yerra galijeru	H
320	<i>Tribulus terrestris</i> L.	Zygophyllaceae	Sanna Palleru	H
321	<i>Trichodesma indicum</i> (L.) Lehm.	Boraginaceae	Guvvagutti, Adhopushpi, Neeli Nakshathralu	H
322	<i>Trichosanthes tricuspidata</i> Lour.	Cucurbitaceae	Avaduta	C
323	<i>Tridax procumbens</i> L.	Asteraceae	Gaddi chamanthi	H
324	<i>Tylophora indica</i> L.	Asclepiadaceae	Kakkupala, Meka meyyani aaku, Verri pala	C
325	<i>Typhonium trilobatum</i> (L.) Schott.	Araceae	Chema kachu	H
326	<i>Vanda tesellata</i> (Roxb.)Hook. Ex G. Don	Orchidaceae	Kanapabadanika, chittiveduri	E
327	<i>Vernonia cinerea</i> (L.) Less.	Asteraceae	Sahadevi	H
328	<i>Vernonia amygdalina</i> Del.	Asteraceae	Sugar plant	SS
329	<i>Vetiveria zizanioides</i> (L.) Nash.	Poaceae	Vetiverlu	S
330	<i>Vitex negundo</i> L.	Verbenaceae	Vavili	T
331	<i>Waltheria indica</i> L.	Sterculiaceae	Nalla benda	H
332	<i>Withania somnifera</i> (L.) Dunal	Solanaceae	Aswagandha, Pennerugadda	H
333	<i>Ziziphus jujuba</i> Mill.	Rhamnaceae	Badari	S
334	<i>Ziziphus mauritiana</i> Lam.	Rhamnaceae	Regu chettu	T
335	<i>Ziziphus rugosa</i> Lam.	Rhamnaceae	Kondaregu, Peddaregu	S
336	<i>Zizyphus oenoplia</i> (L.) Mill	Rhamnaceae	Pariki	S
337	<i>Zizyphus xylopyrus</i> (Retz.) Wild.	Rhamnaceae	Gotti, Gotiki	T
338	<i>Zornia diphylla</i> var. <i>glochidiata</i> DC	Fabaceae	Nela bariki	H
339	<i>Zephyranthes ajax</i> Spr.	Amarylilidaceae	Pudaka valli, Vurumu poolu	H

Conclusion

This study enumerated 339 species in the campus which includes wild and cultivated species belonging to 86 families. This provides information about flora of the campus. It helps in further study of natural plant associations, vegetation pattern and biodiversity. It helps in proper planning of conservation of flora.

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Conflict of Interest

None

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