



Shrubs

As a Landscaping
element.

URP 3216: Landscape Planning Studio

What is a **Shrub**?

- ❑ Some shrubs are **less than 2 meters** high, while others are **around 6 to 8 meters** tall [1].
- ❑ Unlike a tree, shrubs have **stems** and vary widely in size [1].



- ✓ Shrubs play a major role in preventing **water and soil erosion**.
- ✓ They are a **source of fuelwood**, lumber, and poles.
- ✓ They are a source of **foodstuffs** such as fruits, leaves, tuber shoots, and roots.
- ✓ Shrubs are also used in the **landscaping**.
- ✓ They can be grown as backdrops, garden beds, and in gardens.
- ✓ They provide **shelter** to smaller organisms in the ecosystem[3].



Selected **Locations**..



Zia Park



**University of
Rajshahi**



**Rajshahi
College**



RUET

Let's explore the **shrubs** used in these institutions...

Common Shrubs of these institutions..



Ban Jhau
(*Tamarix dioica*)

- ✓ A twiggy shrub
- ✓ About 2-4 m tall
- ✓ Used in Ayurvedi and landscaping
- ✓ One of the dominant plants in flood plains and dry riverbeds[4]



Golden Dewdrop
(*Duranta erecta*)

- ✓ A sprawling shrub
- ✓ Can grow to 6 m (20 ft) tall and spread to an equal width
- ✓ The leaves are light green, elliptic to ovate
- ✓ Leaves size is up to 7.5 cm (3.0 in) long and 3.5 cm (1.4 in) width
- ✓ Grows in areas with full sun, or moister[5]



Garden Croton(Patabahar)
(*Codiaeum variegatum*)

- ✓ A tropical, evergreen ornamental shrub
- ✓ Grow to 3 m (9.8 ft) tall
- ✓ Large, thick, leathery, shiny evergreen leaves
- ✓ Leaves size is about 5-30cm to 0.5-8 cm broad
- ✓ Prefers tropical weather[6].

Common Shrubs of these institutions..



Pinwheel Flower

(Tabernaemontana divaricate)

- ✓ Grown as a house/glasshouse plant/**decorative plant**
- ✓ Grows to a height of **1.5–1.8 metres** (5–6 ft)
- ✓ Leaves are about 15 cm (6 in) in length and 5 cm (2 in) in width
- ✓ The flowers have the characteristic 'pinwheel' shape
- ✓ The plant blooms in spring[7].



Common Privet

(Ligustrum vulgare)

- ✓ **Semi-evergreen** or deciduous shrub
- ✓ Grows to **3 m** (rarely up to 5 m) tall
- ✓ The leaves are shiny green, narrow oval shaped, 2–6 cm long and 0.5–1.5 cm wide.
- ✓ The flowers are produced in mid-summer are 3–6 cm long
- ✓ Used for **hedging**[8].



Sweet Viburnum

(Viburnum odoratissimum)

- ✓ Spectacular **evergreen** shrub
- ✓ Grows to **9 metres** high
- ✓ Glossy **elliptical leaves** to **20 cm long**
- ✓ In spring it produces **pyramid-shaped** clusters of fragrant white flowers
- ✓ The species prefers **warm, frost-free climates**[9]

Common Shrubs of these institutions..



Caribbean copper plant
(*Euphorbia cotinifolia*)

- ✓ Broadleaf/flat leaf **red shrub**
- ✓ It reaches 10 to 15 ft (**3.0 to 4.6 m**)
- ✓ Commonly grown as an **ornamental plant** in gardens
- ✓ It prefers a site with well-drained soil and full sun[10].



Yew Plum Pine
(*Podocarpus macrophyllus*)

- ✓ It is a popular **ornamental shrub**
- ✓ Commonly used for **hedging**
- ✓ The leaves are strap-shaped, **6–12 cm** (2.4–4.7 in) long, and about 1 cm broad, [11].



Milkwood (Togor)
(*Abernaemontana*)

- ✓ **Evergreen ornamental shrubs**
- ✓ Growing to **1.5–1.8 m tall**
- ✓ The leaves are opposite, 3–25 cm long, with milky sap
- ✓ The flowers are fragrant, white, 1–5 cm in diameter.
- ✓ It is one of the diverse plant genera[12].

Common Shrubs of these institutions..



Tropical Hibiscus (Joba)
(*Hibiscus rosa-sinensis*)

- ✓ Bushy, **evergreen**, **ornamental** shrub
- ✓ Grows to **2.5–5 m** (8–16 ft) tall and **1.5–3 m** (5–10 ft) wide
- ✓ Usually **bright red** bell shaped flowers (10 cm diameter)
- ✓ Does not tolerate temperatures below 10 °C[13].



Rongon
(*Ixora coccinea*)

- ✓ Dense, multi-branched evergreen ornamental shrub
- ✓ Commonly **4–6 ft** (1.2–1.8 m) in height
- ✓ Small tubular, red flowers
- ✓ Used in warm climates for **hedges** and **screens**, **foundation plantings**, massed in flowering beds[14].

Some further classifications are as follows...



Common Privet etc.

❑ Globular

- ✓ Creates **eye attraction**
- ✓ Wide, Sometimes tall
- ✓ Used to create **line or boundary**
- ✓ Used for **topiary**
- ✓ Sometimes creates focus



Pigeon Berry (Duranta erecta) etc.

❑ Low and Creeping

- ✓ Low height and Sometimes spread with ground
- ✓ Used to **edge sidewalk**
- ✓ Used to control erosion



Hibiscus etc.

❑ Spreading

- ✓ Large type of shrub
- ✓ Used to create **focus**
- ✓ Plant behind sitting place
- ✓ Plant at the **corner of buildings**
- ✓ Uses to create balance with other site elements



Sago Palm etc.

❑ Arching

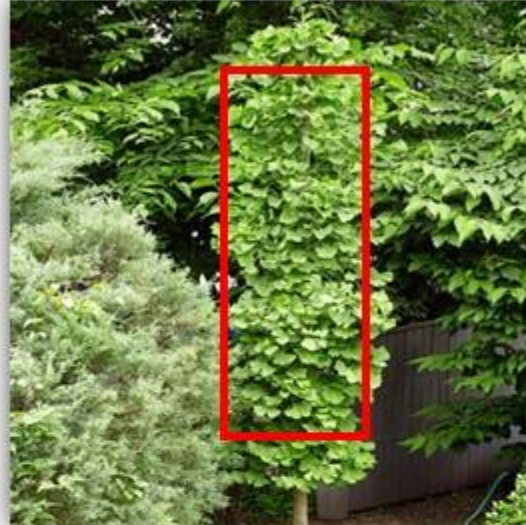
- ✓ Medium size shrubs
- ✓ Comes in many varieties
- ✓ Coarse **Texture**
- ✓ Used for diversity



Bon Jhau etc.

☐ **Pyramidal**

- ✓ Taller shrubs
- ✓ Used to mark entries
- ✓ Good substitutes for trees in landscaping
- ✓ They work well at foundation corners



Texas Baccata etc.

☐ **Columnar**

- ✓ Creates vertical line
- ✓ Taller shrubs
- ✓ Used at the front of a path
- ✓ Used as a property divider
- ✓ Used as a background



Hibiscus etc.

☐ **Upright and Loose**

- ✓ Creates Coarse texture
- ✓ Taller than wide
- ✓ Used for screening & framing
- ✓ Used to soften building
- ✓ Can closely space to create privacy



Pigeon Berry etc.

❑ Small Shrubs

- Less than 2m height
- Mostly dense foliage



Garden Croton etc.

❑ Medium Shrubs

- Between 2m to 5m in height
- Varied foliage seen



Ban Jhau etc.

❑ Large Shrubs

- Usually within 8m height with some exceptions
- Stem stronger compared to others

❑ Foundation Plants

- ❖ Comparatively low height
- ❖ Used to hide Foundation



Pigeon Berry etc.

❑ Hedge or Privacy border

- ❖ Used for privacy purposes
- ❖ Creation of outdoor spaces
- ❖ Helps to reduce noise



Common Privet etc.

❑ Accent Plant or Specimen Plant

- ❖ Act as point of focus and draws attention
- ❖ Used to create contrast with surrounding



Hibiscus etc.



Little Ruby, Pigeon Berry etc.

❑ Ground Covers

- ❖ Act as an attractive foliage carpet
- ❖ Enhance quality of landscape and improve soil quality

❑ Topiary

- ❖ These shrubs are **pruned to desired shape**
- ❖ Enhances beauty of a landscape



Bon Jhau, Golden Dewdrop, Common Privet etc.



Joba, Patabahar etc.

❑ Soothing Ambience and Wild life sanctuary

- ❖ Creates an **overall soothing atmosphere**
- ❖ An abode for insects, birds etc.

Thank You.

Group 12



1807002



1807003



1807036



1807039

Appendix

- [1] B. Editors, "Shrub," [Online]. Available: <https://biologydictionary.net/shrub/>.
- [2] A.X. Niemiera, "Shrubs: Function, Planting, and Maintenance," Virginia Cooperation Extension, [Online]. Available: https://www.pubs.ext.vt.edu/content/dam/pubs_ext_vt_edu/426/426-701/426-701.pdf.
- [3] "Byju's", [Online]. Available: <https://byjus.com/biology/shrubs-and-their-uses>.
- [4] Wikipedia contributors. (2022, October 31). Tamarix dioica. In Wikipedia, The Free Encyclopedia. Retrieved 16:29, November 1, 2022, from https://en.wikipedia.org/w/index.php?title=Tamarix_dioica&oldid=1119316310
- [5] Wikipedia contributors. (2022, June 24). Duranta erecta. In Wikipedia, The Free Encyclopedia. Retrieved 17:02, November 1, 2022, from https://en.wikipedia.org/w/index.php?title=Duranta_erecta&oldid=1094720614
- [6] Wikipedia contributors. (2022, October 30). Codiaeum variegatum. In Wikipedia, The Free Encyclopedia. Retrieved 16:43, November 1, 2022, from https://en.wikipedia.org/w/index.php?title=Codiaeum_variegatum&oldid=1119142444
- [7] Wikipedia contributors. (2022, October 13). Tabernaemontana divaricata. In Wikipedia, The Free Encyclopedia. Retrieved 18:10, November 1, 2022, from https://en.wikipedia.org/w/index.php?title=Tabernaemontana_divaricata&oldid=1115895353
- [8] Wikipedia contributors. (2022, October 31). Ligustrum vulgare. In Wikipedia, The Free Encyclopedia. Retrieved 18:22, November 1, 2022, from https://en.wikipedia.org/w/index.php?title=Ligustrum_vulgare&oldid=1119222450

Appendix

[9] Wikipedia contributors. (2022, September 9). *Viburnum odoratissimum*. In Wikipedia, The Free Encyclopedia. Retrieved 19:04, November 1, 2022, from

https://en.wikipedia.org/w/index.php?title=Viburnum_odoratissimum&oldid=1109445137

[10] Wikipedia contributors. (2021, March 21). *Euphorbia cotinifolia*. In Wikipedia, The Free Encyclopedia. Retrieved 19:22, November 1, 2022, from

https://en.wikipedia.org/w/index.php?title=Euphorbia_cotinifolia&oldid=1013460868

[11] Some shrubs require less maintenance. Retrieved November 2, 2022, from

<https://www.heraldtribune.com/story/news/2012/12/28/some-shrubs-require-less-maintenance/29142744007/>

[12] Wikipedia contributors. (2022, October 30). *Tabernaemontana*. In Wikipedia, The Free Encyclopedia. Retrieved 23:59, November 1, 2022, from <https://en.wikipedia.org/w/index.php?title=Tabernaemontana&oldid=1118984175>

[13] Wikipedia contributors. (2022, October 23). *Hibiscus rosa-sinensis*. In Wikipedia, The Free Encyclopedia. Retrieved 16:59, November 2, 2022, from https://en.wikipedia.org/w/index.php?title=Hibiscus_rosa-sinensis&oldid=1117775408

[14] Wikipedia contributors. (2022, September 26). *Ixora coccinea*. In Wikipedia, The Free Encyclopedia. Retrieved 17:01, November 2, 2022, from https://en.wikipedia.org/w/index.php?title=Ixora_coccinea&oldid=1112425838