

KYC - Know Your Campus

Issue 14

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About the initiative

The New Forest - the IFS training campus - an area which houses the FRI and its sister institutions including the Indira Gandhi National Forest Academy (IGNFA) is also home to a rich biodiversity. These flora and fauna become a part of our neighbourhood while we are at the campus. The campus is also adorned with heritage buildings, museums, nurseries and a beautiful landscape. This initiative is aimed at making us more familiar with our neighbourhood.

The KYC (Know your Campus) initiative started by the IFS 2019 batch in this lockdown period shall come out with a campus related topic each day.

Eucalyptus

Eucalypti are extraordinary, providing timber, oil, agro forestry & afforestation applications!!!

General Description...

- ✿ vary in size and habit from shrubs to tall trees
- ✿ some grow upto a height of 60m or 200ft
- ✿ some species which shed their dead bark are called 'smooth barks'
- ✿ mostly ever green but some in the tropics shed their leaves too...
- ✿ the leaves are covered by oil glands

Classification...

Family: Myrtaceae

Genus: Eucalyptus

Distribution...



Do you know?

Eucalyptus

- ✿ has more than 700 species
- ✿ are mostly native to Australia
- ✿ are generally resistant to fire
- ✿ has a Gondwanan distribution

Eucalyptus obtain long-term fire survivability from their ability to regenerate from buds situated deep within their thick bark, or from [lignotubers](#) or by producing [serotinous](#) fruits.

Eucalypti are not great shade producers as their leaves hang downwards!!!

Our Campus & *Eucalyptus*...

E. deglupta

- **alias:** rainbow eucalyptus
- **native to:** the Philippines, PNG & Indonesia
- **bark:** multi coloured
- **height:** 60-75m
- **leaves:** arranged in opposite pairs with a short petiole
- **flower:** buds are arranged in a branching inflorescence in leaf axils
- **found in:** FRI Botanical garden.



E. camaldulensis

- **alias:** 'river red gum'
- **native to:** Australia
- **bark:** smooth white or cream-coloured bark
- **height:** 20 - 45m
- **leaves:** lance-shaped to curved
- **flower:** buds are arranged in groups of 7, 9 or 11
- **found in:** Trevor road; on our way from Old Hostel to New Hostel



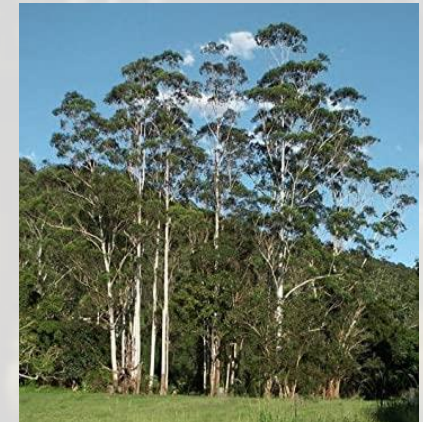
E. citriodora

- **alias:** blue spotted gum
- **native to:** Australia
- **bark:** peels off in long thin strips or sheets
- **height:** up to 60m
- **leaves:** conspicuously narrow-leaved
- **flower:** pear shaped buds in clusters of 3
- **found in:** genetic division of FRI



E. tereticornis

- **alias:** forest red gum
- **native to:** eastern Australia & southern New Guinea
- **bark:** smooth
- **height:** 20-50m
- **leaves:** lance-shaped to curved adult leaves,
- **flower:** buds in groups of 7, 9 or 11,
- **found in:** across our campus and in various part of the country



Uses...

Wood!!!

- ✿ widely used as timber, firewood & pulpwood
- ✿ being excellent coppicers, they can be grown from the same stump!!!

Oil!!!

- ✿ steam distilled from leaves & is used as industrial solvents, antiseptic & in pharmaceuticals

Agroforestry!!!

- ✿ used as wind break
- ✿ plantations supply pulp for paper making
- ✿ ICFRE has developed 11 high yielding clones of *E.camaldulensis*

Afforestation!!!

- ✿ remember plantation along IG canal? - they serve as both wind break and afforestation measures!!

Controversies

Various studies have shown that soils with Eucalyptus plantations have higher water holding capacity than plantations with other species . More soil moisture was observed under Eucalyptus than a nearby open area even after three consecutive drought years

source: FAO

The eucalyptus thus has its share of concerns and uses both, but when we see them on Trevor Road they become an emotion bringing memories of the lovely time spent at campus.!!!

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Picture Courtesy: Google

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