



Manipal University Jaipur Protects Ecosystems and Biodiversity

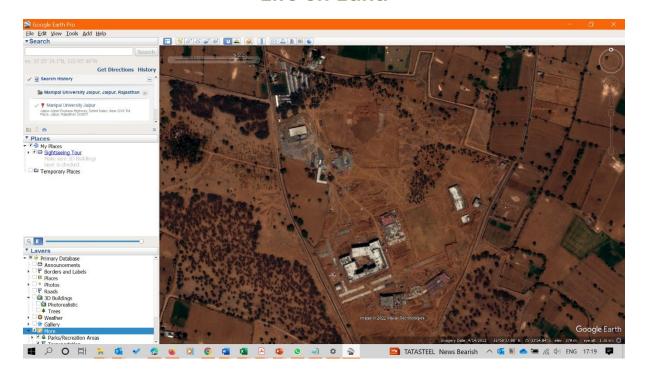
Manipal University Jaipur stands as a beacon of knowledge, innovation, and responsibility, in academia and in the preservation and expansion of our planet's diverse ecosystems and their intricate web of plant and animal life. In the face of mounting environmental challenges, Manipal University Jaipur has taken a proactive role in directly maintaining, nurturing, and extending existing ecosystems, promoting biodiversity as a fundamental goal. Manipal University Jaipur is actively engaged in conserving and enhancing the natural world around us.

Manipal University Jaipur boasts a lavish campus, which transformed it into living laboratories for biodiversity conservation. Manipal University Jaipur prioritizes native plant landscaping, wildlife habitat creation, and sustainable land management practices, serving as inspirational examples for their communities. The heart of every university is a commitment to research and discovery. Manipal University Jaipur's professors, researchers, and students work dedicatedly to investigate ecosystems, study endangered species, and develop conservation strategies. Manipal University Jaipur actively engages in on-the-ground conservation efforts. It initiated restoration and rehabilitation projects in collaboration with local conservation organizations. These projects focus on rejuvenating degraded ecosystems, planting native species, and removing invasive plants or animals that threaten biodiversity. Manipal University Jaipur takes a step further by establishing and maintaining protected natural reserves. These areas become havens for local flora and fauna, allowing species to thrive undisturbed. These reserves also serve as outdoor classrooms, offering students a hands-on learning experience. Students play a pivotal role in university-led efforts to preserve biodiversity. Manipal University Jaipur encourages students to initiate and lead conservation projects, from organizing tree planting events to conducting wildlife surveys. This active involvement not only contributes to the projects' success but also fosters a sense of environmental responsibility among students. Manipal University Jaipur actively engages with the broader community. Through public outreach programs, nature walks, workshops, and educational campaigns, university raises awareness about biodiversity conservation, inspiring individuals and communities to join the cause. Manipal University Jaipur, with its blend of academic expertise, research capabilities, and a wealth of young, passionate minds, are powerful agents of change in the realm of biodiversity conservation. Through research, on-site initiatives, student involvement, public education, and partnerships, they are at the forefront of efforts to maintain, nurture, and extend existing ecosystems and their rich biodiversity.

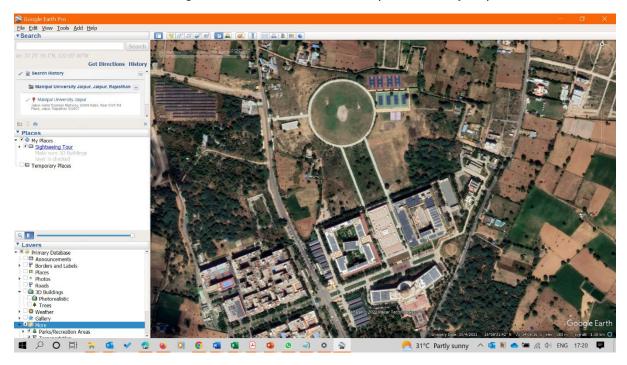




Maintain and extend current ecosystem's Biodiversity Life on Land



Earth Image of Barren Land before Manipal University Jaipur



Greenery – Trees- Plants after Muj establishment as on day



Vegetation at MUJ

Regular Tree Plantation and Landscape at campus

















Tree Plantation at road side in vicinity













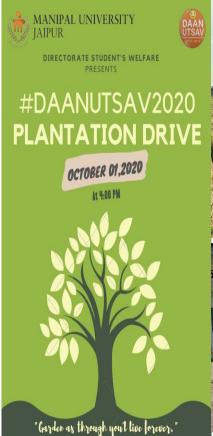
Tree Plantation during Student Induction program in campus

Directorate of Students' Welfare, Sports actively supported in the induction program of Engineering and Non-engineering students organized. Deputy Director with the help of nucleus members and Sports Officer engaged the students in an enthusiastic manner in the plantation, sports activities and class activities.



Tree Plantation Drive- in nearby villages

There is only one experienced '**Divine Reality'** with us that is nothing but our 'breaths'. We can live without food for one or two weeks, we can live without water for one or two days, but we cannot live without breath for more than one minute. And our trees are the one and only source who selflessly providing us those breaths. Thus, planting a tree is not only an act of plantation but also an act of planting divinity. Such kind auspicious act has done by a group of faculties (from DSW Society Connect) and Green Club of MUJ as a part of DAAN UTSAV in the campus of Government Primary School, Ramsinghpura, Jaipur, Rajasthan. The group has planted more than hundred trees (Mango, Neem etc.) and donated two water pipes to connect the trees plants.











Biodiversity at MUJ



Unit	Academic	Hostel	Housing	total Green Area	Tree per capita
Area Green					4.70
Cover in Sq Mtr	33,324.44	19,395.86	13,500.00	66,220.30	

<u>Plant and Tree Species</u>

Sr.
No. Name Of Tree
1 Delbergia Sisoo
2 Terminalia Arjuna
3 Allestonia
4Bhuhania balkenia
5Silver Oak
6 Jcaranda Memumsfolia
7Chakresic
8 Karanj
9 Ficus Verins
10 Delonix Regia
11 Terminalia Chattapa
12 Azadrichata Indica
13 Dates Palm
14Lagerstromia Indica
15 Golden Bamboo

	Occupied Green Area	Sq. Mtr
а	lawn	26488.1197
b	tree covered	2648811.97
С	hedges	13244.05985
d	potted plant	1000

Name Of Plant			
1	Murraya Exotica		
2	Nerum Oleqander Dwarf		
3	Vernonia Elegfolia		
4	Clerodenrum Inermie		
5	Bougainvillea Subra Whir		
6	Euphorbia Milli Pimk		
7	Ficus Panda		
8	Alamanda Dwarf- Yellow		
9	Ixora Dwarf- Pink		
10	Plumeria Alba		
11	Cycas Revoluta		
12	Rhoeo Discolor		
13	Raphes Palm		
14	Barleria Ubusa		
15	Gulfumia Guluska		
16	Railway Creeper		



Plants Category and record keeping at MUJ

T6 Karanja Millettia pinnata

Indian sub continent & Southeast Asia

Planted by - Shree Abhay Jain

Year of Plantation - 21st March 2012

Family- Fabaceae

Nature - Evergreen Climate - Humid & Sub Tropical Region Leaf Texture - Soft & Shiny

Leaf Shape & Colour -Round & Glossy Deep Green Leaf type

Foliage Shape - Round Soil Type -Sandy stony & Pinnate clayey

Tree Height - 15 to 25 mts. 1 Unit - 4 mts Bark Diameter - 50 cmts. Region - Temperate Asia, Australia







T45 Kachnar Bauhinia variegata

Planted by - Shri Sunil Arora Year of Plantation - 16-04-2012

Family-Leguminosae - Legumes

Nature - Deciduous

Climate- The desert/desert terrain plain of Western or Eastern Ghats. Plateaus, plains of Ganges, Doab Punjab, eastern ranges, north east zone, high altitudes.

Shape & Colour of tree - Twigs of tree are slender, light green, angled, hairy and brownish grey in colour.

Foliage of tree -Spreading crown and a

Soil Type - Acid and Neutral

Height of tree - Small to medium upto 15 M





Uses

- It is used for landscaping purposs due to large canopy & snowy
- The bark can be used to treat wounds caused by poisonous fish.
- The fruits & sprouts are used in many traditional remedies.
- Its oil known as Pongamia oil is used in soap making & as a lubricant.
- The residue of oil extraction is used as a fertilizer.

- Treat hypothyroidism
- -Controls blood sugar
- -Treatment of digestive system problems

T9 Jamun Eugnia jambolama

Indian sub continen

Planted by - Brig(Dr.) P.S.Siwach(Retd.)

Year of Plantation - 21st March 2012

Family- Myrtaceae

Nature - Evergreen Climate - Tropical & Sub Tropical Region Leaf Texture - Smooth, Leathery

Leaf Shape & Colour - Glossy Dark Green, Long with

Foliage Shape - Round Soil Type - Deep Loamy

Pointy tips

Uses

Region - India, Myanmar

Tree Height - 30 mts. Bark Diameter - 40-100 cmts & Srilanka









T15 Maulsari Minusops elengi

Planted by - Ms Krishna Poonia Year of Plantation - 18-01-2017

Family- Sapotaceae (Mahua family)

Nature - Evergreen Climate - Summer season

Shape & Colour - Bark: Thick bark and appears dark brown in color Folliage of tree - Glossy, dark green

Soil Type -Rich free draining loamy and sandy soil with PH of 5.5-8.5 Height of tree- 9-18 m (30-59 ft)

Diameter of trunk -1m (3ft 3in)

Region - Tropical forest in South Asia, Southeast Asia and northern Australia







Leaf type

South Asia

- Fruits have great nutritionl value.
- Jambolan is used in medicine for diabeties, swelling of the stomach, constipation, diarrhea & other conditions.
- Jamun fruit is used in treating common cold, cough & flu.

- Jambolan fruits can be eaten raw or are made into jams.

Leaf type-

1 Unit - 5 mts

Pinnate

- Jamun fruit helps in regulating blood pressure.
- -The tree bark can be used for decoration.

- Treatment and maintenance of oral hygiene
- Rinsing mouth with water solution made with bakul helps in strengtheing the
- Prevents bad breath
- Keeps gums healthy



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Australia

T44 Gulmohar Fabaceae

Planted by - Shri Purushottam Agarwal Year of Plantation - 2014 Family- Leguminosae - Leguminosae



Climate - Temperate and tropical Texture of leaf - wrinkled pulvin Shape & Colour of leaf -Range fro

Foliage of tree -Dense Soil Type -soil that is above freezing temperatures and offers enough

warmth Height of tree - 10-15m Diameter of trunk - 2 inches





- Anti-diabetic activity

-To treat polymenorrhea, anemia, ulcers and menorrhagia (during regnancy).

-In the treatment of diarrhoea, in overcoming the protein deficiency Kwashiorkor and can also impact hypocholesterolaemic conditions, and hyroxine-induced hyperglycaemia.

T40 Rugtoora Spathodea campanulata

Tropical Africa

Planted by -Shri N.R Narayan Murthi Year of Plantation - 2018 Family- Bignoniaceae



Folliage of tree-, Compact, round crown of dense and dark green foliag Height of the tree - 7-25 m







T43 Kadamb Neolamarckia cadamba

Planted by - Smt. Vasanti Pai Year of Plantation - 2012 Family- Madder family



Southeast Asia

Nature - Evergreen Climate -Tropical Shape & Colour - Flowers: flower are sweetly fragrant, red to orange colour, occurring in dense Folliage of tree- broad crown and straight cylindrical bole Soil Type -it grows well in deep alluvial soils, often along river banks







- Low-grade timber and paper Timber is used for plywood and light construction.

39 Sheesham Dalbergia sissoo

Planted by - Shri G S Sandbu (IAS) Year of Plantation - 2014 Family- Leguminosae - Mimosoideae



Nature - Decidious Tree Climate - Indian subcontinent and Texture of trunk: are often crooke when grown in the open. Leaves are

Folliage of tree- Round folliage Soil Type - Soils range from pure sand and gravel to rich alluvium of river banks. Height of tree- 25 m (82 ft)



Region - Native to India, Pakistan and

- Decoration of leaves is useful in conorrhoea Wood is alterative, useful in leprosy, boils, eruptions and to allay vomiting. The wood is used for making doors, window frames, furniture, especially cabinets and much more.

The pulp of wood is also used for making papers.

T10 Saat Patti Alstonia scholaris

Southern China Tronical Asia and Australasia

Planted by - Dr. Ajay Kumar Year of Plantation - 21st March 2012 amily- Apocynaceae

Nature - Evergreen

Climate - Tropical

Greyish.

to buttresses

round.

Leaf Texture - Glossy &

Leaf Shape & Colour -

Flattened roots similar

Foliage Shape - Slightly

Soil Type - Red Alluvial.

Tree Height - 20-40 mts.

Bark Diameter -

100-200cmts

Uses







Region - Malaysia Pakistan

Alstonia scholaris has been used in different system of traditional medication for the treatment of diseases.

- The wood of Alstonia scholaris has been recommended for the manufacture of pencils.

- Wood close to the root is very light and of white color, and is used for net floats, household utensils, trenchers, corks, etc. Used for landscape purpose.

T17 Neem Azadirachta indica

Planted by - Dr. Kiran Mazumdar Shan Year of Plantation - 9th August 2014 Family- Mahogany family, Meliaceae











Neem is a key ingredient in pesticides.

The neem tree is noted for its draught resitance. It can grow in many - Dried neem leaves prevents insects from eating clothes and can also be used in storing rice. The flowers and the shoot are eaten as a vegetable.

Products made from neem tree can be used as medicine.

T19 Bottle Brush Callistemon

Planted by - D.S.Chauhan Year of Plantation - 18-01-2017 Family- Myrtle



Soil Type - Well-draiend, sany soil. Also grow in clay or loam Height of tree- 10-15 ft Diameter of tree-10 to 15m Region - Western North America and

in colder regions in greenhouses

T24 Ashoka Saraca asoca

Planted by - Shri J.C.Mohanty

Year of Plantation - 18-01-2017

Family- Legumes

Climate -Rain-forest tree. Centra

Texture of Bark: Warty surface

leaves with oblong shape.

Folliage of tree: Shiny foliage

Height of the tree -10'-15' tall

Reduces acne, pimple

Very useful in gynaecol

Boosts memory power

Beneficial in diabete

Region - Central areas of the Deccan

Diameter of trunk: 3m

Shane & Colour - Leaf: Green colored

Nature - Evergreen

areas of Decran plateau



Ornamental landscaping Common remedies for treatment of diarrhoea, dysentery and rheumatism

Indo-Malaysian and Srilanka

Planted by - Ms Krishna Poonia

Nature - Evergreen

T15 Maulsari Minusops elengi

Year of Plantation - 18-01-2017 Family- Sanotaceae (Mahua family



Soil Type -Rich free draining loam and sandy soil with PH of 5.5-8.5 Height of tree- 9-18 m (30-59 ft) Diameter of trunk -1m (3ft 3in) Region - Tropical forest in South Asia. Southeast Asia and northern Austra



Treatment and maintenance of oral hygiene Rinsing mouth with water solution made with bakul helps in strengtheing the

Prevents had breath

Keeps gums healthy

Bargad Ficus benghalensis

Indian subcontinent

Planted by - Dr. Ramdas M. Pai Year of Plantation - 21-03-2012 Family- Moraceae







-Boosts immunity - Prevents depression -Treats vomiting -Lowers Cholestrol -Prevents inflammation

T19 Bottle Brush Callistemon

South Asia

Planted by - D.S.Chauhan Year of Plantation - 18-01-2017

Nature - Evergreen

Also grow in clay or loam

Height of tree- 10-15 ft

in colder regions in greenhouses



Δuetralia

Climate - Temperate regions Texture of flower- Fury Shane & Colour - Flower: Red flower















Common remedies for treatment of diarrhoea, dysentery and rheumatism

T8 Peela Gulmohar Peltophorum pterocarpum

Tropical south-eastern asia

Planted by - Dr. D. Srikanth Rao Year of Plantation - 21st march, 2012 Family-Legumes

Nature - Deciduous

leaves

red tomentose



Climate - Tropical warm



Soil Type-moist, but well Leaf type-







- Gulmohar is well known for its beautiful flowerst. It also has some medicinal properties like Anti-diabetic activity. Anti-bacterial activity, Anti-diarrheal property, Hepatoprotective/Cytotoxic property, Anti-microbial activity, Anti-Inflammatory activity





Birds at MUJ - Nature Smiles at MUJ

Birds of Prey, Owls, Nightjars

Habitat: Woodlands















Pigeon Sized Birds

Habitat: Near Human Habitation























Ground Dwelling Birds

Habitat: Fields and Forest Edges















Food grain pots for Birds in Campus















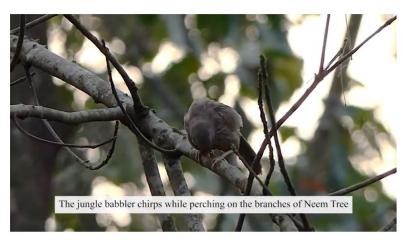


Birds Habitat at MUJ- https://www.youtube.com/watch?v=vmuSabE94LE



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Habitat For Birds, Manipal University Jaipur



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Nature smiles at MUJ- https://www.youtube.com/watch?v=Xg6XOKuUtkM