Date: 2nd September 2015

Venue: TransDisciplinary University (TDU), Bangalore Participating School: Nagarjuna Vidyaniketan, Yelahanka, Bangalore

Report

Background:

The cities have witnessed an incredible urbanization of late, in the name of modernization leading to rapid diminishing of green cover. It is necessary to maintain an ecological balance, a truth not sufficiently appreciated and understood in the world of urbanist advocacy. Cities need both beauty and function of nature to regulate pollution, restore and improve human and ecosystem health. Understanding and appreciation of urban ecosystem and planning development in harmony with nature can go a long way in building a healthy urban ecology and therefore, pertinent to mould the young mind in conserving the biotic components in a whole hearted and conscious manner.

In this context, TransDisciplinary University (TDU) has developed a one-day orientation program for the students who are pursing their secondary education. This program gives students an opportunity to learn the basics of taxonomy, anatomy and methods to conserve plants in a simple format so that it is easily comprehended. This program is designed in line with their school curriculum.

The Program:

The orientation program for the students of 8th standard from the Nagarjuna Vidyaniketan, Yelahanka, Bangalore was organised on 2nd Sept 2015 at the TDU campus. Thirty three students participated. The program bagan with an introductory session followed by a talk on the medicinal plants conservation initiatives of TDU.



The students were then taken out on to the ehtnomedicinal plants garden which harbors around 750 medicinal plants dotted by rare and endangered speices. It also has 13 thematic gardens depicting the diversity of medicinal plants. The students were taught the basics of taxonomy, morphology through specific characters of leaf, flower, branching, smell/aroma, historic events, plant-animal interactions etc., and its threat status. They also learned on the concept of insitu



Students absorbed in learning

and exsitu conservation which are essential for the survial of the speices.



They were then taken to the anatomy lab where they were given hands on training on taking section of a dicot and monocot stem for preparing slides. They were able to see the various types of cells through the microscope (Xylem, Phloem, Epidermis, Cortex).

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The importance of medicinal plants in maintaining adolescent health was taught by the ayurvedic medical practioner of the University who also demonstrated the preparation of simple formulations to the students using readily available herbal plants.

The post lunch session saw the students actively interacting with the botanists at the medicinal plant nursery. They learnt about the uses of some of the plants in primary health care and picked up a few for their kichen garden.



The program culminated with a pep talk by the Vice Chancellor of the University who elicited the views of students on the things they learnt in TDU that are new to them. He emphasized the importance of spreading the message of traditional knowledge across the student community.





A student receiving the certificate

The students were handed over certificate of participation.

Learnings: The students made note of all the information given to them and elicited interest in identification of more species and grwing them in their school and homes. They also understood fairly well the basics of taxonomy and anatomy and

the need for conservation of the threatened species.

Course coordinator:

Dr. M. Abdul Kareem,

Associate Professor, TransDisciplinary University (TDU), No. 74/2, Jarakabande Kaval, Attur Post, Via Yelahanka, Bangalore 560106 Ph: 080-28568006 Mob: 09343130299

Resource Persons:

- 1. Dr. Ravikumar K (Taxonomist), Professor
- 2. Dr. Abdul Kareem (Ethnobotanist), Associate Professor
- 3. Dr. Noorunnissa Begum (Plant anatomist), Senior Assistant Professor
- 4. Dr. Girsh Kumar V, Senior Assistant Professor
- 5. Dr. Debabrata Saha (Ecologist), Senior Scientist
- 6. Sri. KSN Prakash, Program Officer
- 7. Ms. Anu.V, Research Fellow

Accompanying Teacher: Smt. Selvi

VIII- Standard Students

- 1. Revath N Patel 28. Gagan Y R
- 2. Nisarga B.S 29. Ashish S Murude
- 3. Supriya T L 30. P Manish
- 4. Sukruthi C 31. Sriram Sundar
- 5. Rakshitha R
- 6. Apeksha B
- 33. Sathwick

32. Dhanush

- 7. Raghavendra M
- 8. Mithuna T
- 9. Noshita Tiwari
- 10. Jean Ann James
- 11. Lohith Gowda
- 12. Yashas B Reddy
- 13. Bhomika M
- 14. Keerthana M
- 15. ParthSarthi Tiwari
- 16. Likith J
- 17. Arjun Krishna
- 18. Linganna U
- 19. G Chiranjeeve
- 20. Mayur Gowda
- 21. Gayathri S
- 22. Hemavathi S
- 23. Pruthvi N
- 24. Dayasagar S
- 25. Anisha V Prabhu
- 26. Vishrutha
- 27. Shreya Y R