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**VIDYAVARDHINI'S
NATIONAL CONFERENCE ON
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**VNC - 2020 TASU
4TH APRIL, 2020**



Organized by:

**Vidyavardhini's College of
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About us:

Vidyavardhini means a Body committed to enhancement of Knowledge. Vidyavardhini was established as a registered society in 1970 by late Padmashri H. G. alias Bhausaheb Vartak for the noble cause of education in rural areas.

Vidyavardhini's College of Engineering and Technology, Vasai is located on the sprawling campus of Vidyavardhini, spread over an area of 12.27 acres. It is a short, two minutes walk from Vasai Road (W) Railway Station. The college is also accessible by road from Mumbai.

Vidyavardhini Society received approval from AICTE to start the new college of Engineering & Technology with effect from July, 1994. The college is affiliated to the University of Mumbai for the four year degree program leading to the degree of Bachelor of Engineering in six branches.

Objective of VNC 2020 TASU

Technology has always been potential tool for simplifying the way we do things. Present time demands directing the technological advancements towards addressing societal challenges such as improving health care, education environment, sanitation, agriculture, smart city, etc., VNC 2020 TASU aims to provide an opportunity to researchers, academicians, Industrialist and students to interact and share their ideologies and contributions made for social upliftment with the aid of technological advancements.

Call for paper

We welcome submission in following area

1. Sustainable Computing
 2. High Performance Computing
 3. High Speed Networking and Information Security
 4. Software Engineering and Emerging Technologies
 5. Mathematical, Experimental, Computational and AI, IoT Techniques in Mechanical Engg.
 6. Industrial Engg., ERP, MRP, SCM
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 8. Pollution control and Waste Management
 9. Advances in Structural engineering
 10. Present geotechnical practices
 11. Present practices in construction management
 12. Recent developments in Instrumentation, control and automation
 13. Embedded Systems, IoT and VLSI Design
 14. Optical and Wireless Communication for NGN
 15. Antenna and Microwave Devices
- Any other relevant topics

Publication Information

Proceedings of VNC - 2020 TASU will be published with ISBN number

1. Selected Papers will be published in International Journal of Information Technology, Published by Springer Nature, ISSN: 2511-2104 (Print Version), ISSN: 2511-2112 (Electronic Version)
2. All papers will be published in IJERT, ISSN: 2278-0181

Important Dates:

- Submission of full length paper
15th Feb 2020
- Paper Acceptance Notification
22nd Feb 2020
- Submission of Final Version of Paper
29th Feb 2020
- Registration Deadline
5th March 2020
- PPT Submission
20th March 2020
- Conference
4th April 2020

Registration Fee Details:

Category of Delegates / Authors	Indian Authors & Delegates (in INR)
Full Time Students (UG)	1,500.00
Teachers/ Research Scholars/ PG students	2,500.00
Industry	3,500.00

Paper Submission:

Paper submission should be made strictly via Easy Chair the submission link for VNC 2020 "TASU":

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Contact Us:

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***Best paper award
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Design and Development of Mango Grafting Machine

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Abstract—Knowing the demand in grafting plant the attention has been made towards the automate the process of grafting. There are numerous research reported in automating the grafting process for various plant like tomato, vine, watermelon etc. but this machines working on hydraulic and robotics control system so initial cost of these machines are around 2-3 lacs which is not affordable by farmers. so our aims to finding a solution for grafting operation which operate automatically and also require less initial cost.

Looking current demand in India our focus of study to design and develop automatic grafting machine for mango plants. Generally Mango grafting usually done manually, so there is reduction in production and skills requires to perform operation In order to solve the problems of manual grafting and increase the degree of mechanization and low operation efficiency of this machine design a vision base automatic upper and lower seeding devise of grafting machine. To provide the technical support for further design of automatic grafting machine the device is mainly composed of the manipulator and control system,

the end clip mechanism. This machine is smaller than the previous automatic machines which include the design of Geneva mechanism, gripper mechanism, punch mechanism, clipping mechanism. This machine assumes to be produce 700 plants per hour. The developed model with experimental facilities will be further tested for its performance.

Keywords—Mango grafting, Geneva mechanism, punch mechanism, scion, rootstock

I. INTRODUCTION

Grafting is a technique of combining two plants or pieces of plants so they grow together. This allows you to combine the qualities of a strong, disease-resistant plant with the qualities of another plant, usually one that produces good fruit or attractive flowers. While there are many methods of grafting, the methods described here should allow you to graft almost any vegetable or fruit seedling, flowering bush, and even certain trees such as citrus trees.

Understanding the purpose of grafting, Fruit plants, including tomatoes and others sometimes thought of as vegetables are bred and cross-bred over many generations to improve their attributes. However, no one variety is perfect. By removing a section of a plant that produces great fruit and grafting it onto

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VNC - 2020 TASU
27th June, 2020

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Certificate of Participation

This certificate is presented to
PRITI SHASHIKANT VAIRAGI
of **VIDYAVARDHINI'S COLLEGE OF ENGINEERING AND TECHNOLOGY**





MUMBAI CENTRE

for presenting paper titled
Design and Development of Mango Grafting Machine

in the Vidyavardhini's National conference 2020 "Technical Advancements for Social upliftments" organised by Vidyavardhini's College of Engineering and Technology, Vasai held on 27th June, 2020




Dr. Vikas Gupta
Dean Academics
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Dr. Harish Vankudre
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