



Ref: GTU/CiC3/Mitsubishi Electric Cup/2019/1

Date: 18th March 2019

Report: GTU TEAM Tinkerers had participated in 4th National Mitsubishi Electric Cup Competition and Received 10th Appreciation Award

Three teams from GTU & affiliated colleges has Participated in Mitsubishi Electric Cup National Level Competition for Factory Automation 2019

Ahmedabad: This time Mitsubishi electric cup national level competition for factory automation is something special for Gujarat because this year 7 teams from the state are participating among top 35 teams from all over India. In the selected Three teams; three teams are from Gujarat Technological University (GTU) & GTU affiliated colleges.

GTU community Innovation and co-creation center (CiC3) a part of GTU innovation Council (GIC) is imparting training to the students of engineering colleges to participate such competitions under the guidance of Faculty Guide / Mentor Prof. Raj Hakani. GIC gave special training to the students and created tinkerer's team for the competition. **The tinkerer's team made automatic ball pen making and packaging machine.**

Description: Automatic Ball pen making and packaging machine is meant for making use and throw Ball point pen assembling and packaging it. Machine is designed for small scale business which currently uses manual machines for manufacturing. Machine will able to assemble pen, fill ink & final packaging. Machine will test assembled product by various tests. Machine can be controlled and monitor by Web interface as well as Human Machine Interface.

Problem: Ball pen making industry is essential for satisfying various type of writing needs of an end customer. Machines that big companies like Uniball, Luxor uses cannot afford by small businesses which want to manufacture ball point pen. In small scale manual machines are available in different for each process of Pen making. For small business there is no unified solution for manufacturing.

The Solution: Machine is specially designed for small scale businesses which want to manufacture ball point pen. Machine will be unified and one platform solution that overcomes problems of conventional manual machine-like lower production rate, man power requirement. Internet of Things will be implemented for remote access & monitoring of machine.

GTU Tinkerer Team has demonstrated Model at Manav Rachna International Institute and Studies during 14th Feb to 16th Feb 2019 and Team received at 10th Appreciation Award

*Winners of : ICT Enabled University Award E-India - 2009 ❖ Manthan Award - 2009 ❖ GESIA Award - 2011
❖ Digital Learning WES - 2011 Award ❖ AIMS International Innovative University Award - 2013*



GUJARAT TECHNOLOGICAL UNIVERSITY

(Established Under Gujarat Act No.: 20 of 2007)

ગુજરાત ટેકનોલોજીકલ યુનિવર્સિટી

(ગુજરાત અધિનિયમ ક્રમાંક : ૨૦/૨૦૦૭ દ્વારા સ્થાપિત)

Team:

Meet Patel (Mechanical - Alpha College of Engineering)

Meet Panchal (IC - Government Engineering College - Gandhinagar)

Sahil Kalal (Mechanical - B.H. Gardi College, Rajkot)

Deep Bhadania (Electrical - VGEC)

Ashish Mecwan (Electrical - VGEC)

Faculty Mentor:

Mr. Raj Hakani (Electronics, CiC3 - GTU)



Received 10th Appreciation Certificates, Medals (Each Team Member) & Trophy

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Chandkheda : Nr. Campus of Vishwakarma Government Engineering College, Sabarmati - Koba Highway, Nr. Visat Three Roads, Chandkheda, Ahmedabad - 382 424. Gujarat, India Ph. : 079 - 232 67 500
Ahmedabad : 2nd Floor, ACPC Building, L. D. College of Engineering Campus, Navrangpura, Ahmedabad, (Gujarat) India - 380 015. Phone : + 91 - 79 - 26 300 499 / 599 Fax : + 91 - 79 - 26 30 1500
Gandhinagar : K-6 Circle, E-4 Electronic Estate G.I.D.C., Nr. Government Polytechnic, Sector-26, Gandhinagar - 382 028 Gujarat.
e-mail : info@gtu.ac.in URL : www.gtu.ac.in



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Receiving 10th Appreciation Award & Medal



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e-mail : info@gtu.ac.in URL : www.gtu.ac.in