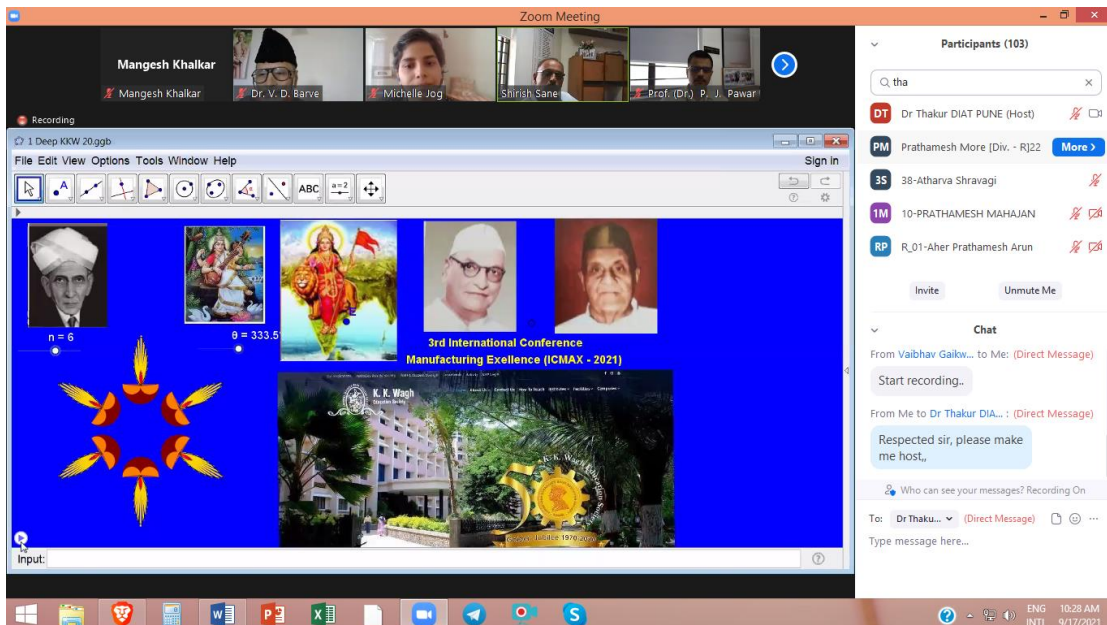


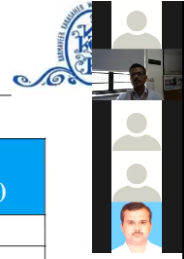
It's a great pleasure to present our newsletter for the September of AY 2021-22. Department of Robotics and Automation has been consistently endeavoring to upgrade the skills and performance of students and staff members through various ventures.

Department of Robotics And Automation and Production Engineering jointly Organized an International conference on Manufacturing Excellence (ICMAX-2021) during 17/09/2021 to 18/09/2021

Department of Robotics and Automation and Department of Production Engineering jointly organized an International Conference on Manufacturing Excellence (ICMAX-2021) in an online manner during 17th and 18th September 2021. The conference was inaugurated by Dr. V.D. Barve, former Principal, K. K.Wagh I.E.E.R. Nashik Dr. D.B. Thakur, Head of Mechanical Engineering, DIAT, Pune delivered key note speech on topic "Approach to Industry 4.0: Cloud based Product Design and Manufacture". Total fifteen research papers were presented during the conference. Faculty, research scholars and students of various organizations from all over the India participated in this conference. Dr. K. N. Nandurkar Principal, K. K. Wagh IEER and Dr. S. S. Sane, HOD Computer Engineering, K. K. Wagh IEER addressed the audience on this occasion. The papers were presented in three session based on three different themes namely, intelligent manufacturing systems, Robot analysis and Design and Materials and Manufacturing Processes. These three sessions were chaired by Dr. Prashant Kushare, Dr. Mahesh Shelar and Dr. Vijay Patil. This conference was co-ordinated Dr. P. J. Pawar and Prof. M. Y. Khalkar.



Attribute data for Industrial Robots



| Robot | LC (0.05) | RE (0.16) | MS (0.18) | MC (0.12) | MR (0.10) | PF (0.08) |
|---------|--------------|--------------|--------------|--------------|--------------|--------------|
| Robot 1 | 12 | 0.4 | 2540 | 500 | 990 | H |
| Robot 2 | 6.35 | 0.15 | 1016 | 3000 | 1041 | VH |
| Robot 3 | 6.8 | 0.1 | 1727.2 | 1500 | 1676 | A |
| Robot 4 | 10 | 0.2 | 1000 | 2000 | 965 | H |
| Robot 5 | 2.5 | 0.1 | 560 | 500 | 915 | VH |
| Robot 6 | 4.5 | 0.08 | 1016 | 350 | 508 | BA |
| Robot 7 | 3 | 0.1 | 1778 | 1000 | 920 | AA |

LC: Load capacity (kg); RE: Repeatability error (mm) ; MS: Maximum tip speed (mm/s); MC: Memory capacity in points MR: Manipulator reach (mm), PF: Programming flexibility.

18 September 2021

INTERNATIONAL CONFERENCE ON MANUFACTURING
EXCELLENCE (ICMAX 2021)

3

❖ Expert lectures attended by staff

03 expert lectures attended by the teaching and non- Teaching staff.

| Sr. No. | Title of lecture | Name of Speaker | Name of Industry | Date | No. of Student Present |
|---------|---|----------------------|--|-----------|------------------------|
| 1 | How to Become Entrepreneur | Mr. Avinash Khairnar | Sarthak Engineers/ Enterprises, Nashik | 3-9-2021 | 30 |
| 2 | Electric vehicle- Introduction to market Trends | Mr. Yuvraj Vadaje | UV Knowledge Pvt. Ltd. Nashik | 14-9-2021 | 45 |
| 3 | Application of Industrial Robot & Smart Factories | Mr. Pankaj Dhoble | MGM Innovation, Incubation & Research Centre, Aurangabad | 24-9-2021 | 48 |

❖ Online Workshop Completed by faculty

06 Online Workshop Completed by faculty

| Sr. No. | Name of faculty | Designation | Workshop Name | Conducted By |
|---------|-----------------|------------------------|---|---|
| | P. J. Pawar | Professor | IDEA LAB FDP Design 'Thinking Engineering' (22-27 Sept. 2021) | (AICTE ATAL FDP) COEP, Pune |
| 1 | N. B. Gurule | Associate Professor | Embedded System with Robotics Using ARDUINO on TinkerCad (20 September - 01 October 2021) | Finland Labs (A Unit of Revert Technology Pvt. Ltd.) |
| 2 | V. S. Gaikwad | Assistant Professor | 'Recent Trends in Mechatronics and Automation' (24th and 25th September 2021.) | MVP's Karmaveer Adv. Baburao Ganpatrao Thakare College of Engineering, Nashik |

| | | | | |
|---|------------------|---------------------|--|---|
| 3 | A. D. Mandlik | Assistant Professor | AICTE Training and Learning (ATAL) Academy online elementary FDP on Industrial Robots for Future Factories (13-17 Sept 2021) | National Institute of Technology Puducherry. |
| 4 | G. S. Kshirsagar | Technical Assistant | 'Recent Trends in Mechatronics and Automation' (24th and 25th September 2021.) | MVP's Karmaveer Adv. Baburao Ganpatrao Thakare College of Engineering, Nashik |
| 5 | R. V. Jadhav | Technical Assistant | 'Recent Trends in Mechatronics and Automation' (24th and 25th September 2021.) | MVP's Karmaveer Adv. Baburao Ganpatrao Thakare College of Engineering, Nashik |
| 6 | R. V. Jadhav | Technical Assistant | "Concepts and Practices for Energy Efficiency Improvement-2021" one day (30/9/2021) | Department of Mechanical Engg. K K Wagh IEE&R, Nashik |

❖ Online Webinar for students

Department of Robotics and Automation organized webinar on "Application of Industrial Robot and Smart Factories on 24th September 2021". Prof. Pankaj Dhoble (JNEC, Aurangabad) the speaker of this webinar explored the application of robots in manufacturing as well as in service organization. He also explained about the future smart factories and importance of robots and Industry 4.0. The webinar was coordinated by Prof. S. R. Gangurde.

❖ Online Webinar attended by the faculty

In the month of the September 2021 teaching and non- Teaching staff member attended various webinar on online platform to explore the new advancement in the technology.

❖ Student Achievement

09 students of 2020-2021 batch were selected in various companies with an average package of 3.5 lacs.

❖ Staff Activities

Staff members of the department were active in research work and published their work in various International and national journals and conferences.

Expert lectures delivered:

1. Dr. P. J. Pawar delivered an expert talk on "Outcome Based Education" for 'Training for Newly Appointed Faculty' organized by IQAC, KKWIEER on 29th September 2021.

Dr. P.J. Pawar
Head of the Department