



**Faculty Innovations in the form of Product Development and Industry Sponsored Projects  
in the Department**

**Summary**

<b>AY 20-21</b>	<b>AY 21-22</b>	<b>AY 22-23</b>	<b>AY 23-24</b>	<b>AY 24-25</b>	<b>AY 25-26</b>
2	3	3	4	20	8

<b>Sr. No</b>	<b>Faculty Guide</b>	<b>Research organization/ Industry name</b>	<b>Description of Product/Project</b>
<b>Academic Year 2020-21</b>			
1.	Dr. Jayant Kulkarni	Tata Motors	Advanced driver assistive system- Vision Based system
2.	Mr. Pramod Kanjalkar	Smart India Hackthon	SAM Robot
<b>Academic Year 2021-22</b>			
3.	Mr. Pramod Kanjalkar	Plastic India Hackthon	Two stage Automatic Macro and Micro floating plastic-debris water filtering system
4.	Dr. Manisha Mhetre	Bharati Vidyapeeth Medical and Research organization	<ol style="list-style-type: none"><li>1. Online Hemoglobin measurement system</li><li>2. VAC assisted Device</li><li>3. Diabetic Food pressure measurement and analysis system</li></ol>
5.	Dr. Manisha Mhetre	Briota	<ol style="list-style-type: none"><li>1. Respiratory Rate measurement system development</li><li>2. IOT based pill dispensing system</li></ol>
<b>Academic Year 2022-23</b>			
6.	Dr. Manisha Mhetre	Ethos Design	<ol style="list-style-type: none"><li>1. Smart Glove system for AR-VR</li><li>2. Sanitization system for hospitals</li></ol>
7.	Dr. Manisha Mhetre	Autointell	<ol style="list-style-type: none"><li>1. Lab view based MQTT protocol measurement</li><li>2. Lab View based AWS</li></ol>



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**Department of Instrumentation Engineering**

			system development
8.	Prof. Pramod Kanjalkar	Passion InfoTech Private Limited	Vision Based Conveyor Belt Automation for food safety
<b>Academic Year 2023-24</b>			
9.	Prof. Pramod Kanjalkar	Curasity Innovations	Automatic System to Reduce Water Losses in Solar Water Heating System
10.	Prof. Pramod Kanjalkar	Curasity Innovations	Agriculture Robot
11.	Prof. Pramod Kanjalkar	Curasity Innovations	Medical waste shredder
12.	Prof. Pramod Kanjalkar	Curasity Innovations	Development of Semi-automatic cotton Harvesting system for Indian Cotton Field
<b>Academic Year 2024-25</b>			
13.	Dr. Manisha Mhetre	Forbes Marshall, Pune	Validation of material using Color sensor & Integration with ERP/ at least My SQL database for End to End connectivity
14.	Dr. Manisha Mhetre	Forbes Marshall, Pune	Automation of High Voltage Isolation stage with End-to-End connectivity
15.	Dr. Manisha Mhetre	Ethos Pune	AR Decor
16.	Dr. Manisha Mhetre	Ethos Pune	AR Treasure Quest
17.	Dr. Manisha Mhetre	TechPort SolutionPune	Fully automatic solar direct and diffuse radiation tracking system
18.	Dr. Manisha Mhetre	TechPort SolutionPune	Surge protection circuit
19.	Dr. Manisha Mhetre		Collecting Plant OEE Data & Performing Analytics using Power BI
20.	Dr. Manisha Mhetre	Techybuild	Multinozzle 3D printing system
21.	Dr. Manisha Mhetre	Techybuild	Image recognition and inventory system
22.	Dr. Shilpa Sondkar	Intelliment	Beef Chunk counting over Conveyor belt (Video Analytics on Edge)
23.	Dr. Shilpa Sondkar	Axonet Pune	4G IoT Gateway
24.	Dr. Kapil Mundad	Seion Technologies Pvt Ltd	Telemetry of water consumption for Hydro Power Station
25.	Prof. Pramod Kanjalkar	VISHWAS VAIDYA, Engineering Consultant and Industry Faculty	Designing a Proactive Electronic Circuit to Prevent Failures in Automobile Electrical Parts



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		GST Registration Number: 27AAGPV792E1Z7 Kothrud, Pune 411038	
26.	Prof. Pramod Kanjalkar	Passion Infotech- PCombinator	Implementation of Solar-Powered Two-Wheeler Electric Vehicle: A Sustainable Approach
27.	Prof. Pramod Kanjalkar	Curiosity Innovations	Gantry Robot for Plant identification and Picking
28.	Prof. Pramod Kanjalkar	Curiosity Innovations	Automated Dead Chicken Detection in Poultry Farms
29.	Dr. Vijaykumar Bhanuse		WebSnare
30.	Dr. Vijaykumar Bhanuse		Grain Quality Identification and Feature Analysis using Image Processing
31.	Prof. Anil Kadu	Eureka Print Solutions Pvt Ltd	Development of an Product base E-commerce Website for Eureka Print Solutions
32.	Prof. Anil Kadu	Awate General Hospital	Development of Hospital Management system
33.	Prof. Anil Kadu	Webeeyo Softwares Pvt Ltd	Design and Development of College ERP System using MERN Stack
34.	Dr. Archana Chaudhari, Prof. Jitendra Gaikwad, Dr. Praveen Pol	UDNAV Software Services Pvt. Ltd	Text and voice based chatbot for educational institutes
35.	Dr. Archana Chaudhari, Prof. Jitendra Gaikwad, Dr. Praveen Pol	UDNAV Software Services Pvt. Ltd	ScanIn-Smart Attendance system
<b>Academic Year 2025-26</b>			
36.	Dr. Archana Chaudhari, Prof. Anil Kadu, Dr. Vijaykumar Bhanuse	Forbes Mrshall, Chakan, Corporate Engineering Division	Cockpit Automation, 2. Machine vision for PLC programming, 3. OSP codes routing
37.	Dr. Kapil Mundada	Marine Analyzer	Steam Equipments Pvt Ltd
38.	Dr. Archana Chaudhari, Prof. Anil Kadu, Dr. Vijaykumar Bhanuse	Forbes Mrshall, Chakan, Corporate Engineering Division	Develop a POC for Machine Vision-Based Error Classification and PLC- code Automation



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39.	Dr. Shilpa Sondkar	Forbes Mrshall, Chakan	Painted Parts Defense Detection
40.	Dr. Manisha Mhetre	Compax Industrial Systems Pvt. Ltd. I Pune, India	Centralized SCADA-PLC Data Acquisition and Cloud Management
41.	Dr. Manisha Mhetre	Compax Industrial Systems Pvt. Ltd. I Pune	Stage-Wise Accuracy Monitoring System for Moulded Component Production
42.	Dr. Manisha Mhetre	Compax Industrial Systems Pvt. Ltd. I Pune	Real-Time Sand Mould Defect Detection via Image Processing
43.	Dr. Manisha Mhetre	Compax Industrial Systems Pvt. Ltd. I Pune	Online viscosity measurement of paint