



LOKNETE DR. BALASAHEB VIKHE PATIL
(PADMA BHUSHAN AWARDEE)
PRAVARA RURAL EDUCATION SOCIETY'S
PADMASHRI DR.VITTHALRAO VIKHE PATIL INSTITUTE
OF TECHNOLOGY & ENGINEERING (POLYTECHNIC)
LONI

Mechatronics

Institute	Program
<p>Vision: To provide quality technical education to rural students.</p> <p>Mission: M1: To impart trainings for developing hands on skills.</p> <p>M2: To develop technical skills by practicing the best teaching-learning pedagogies.</p> <p>M3: To enhance career opportunities through industry connect.</p>	<p>Vision: To develop skilled technicians in the field of Mechatronics to meet rural, societal and Industrial needs.</p> <p>Mission: M1: To provide technical skills in Mechatronics field through trainings.</p> <p>M2: To impart knowledge in the field of Mechatronics by effective teaching learning process.</p> <p>M3: To enhance career opportunities for students through industry interaction, entrepreneurship and higher education.</p> <p>Program Specific Outcomes (PSOs): PSO1. Maintain various types of Mechatronics systems using knowledge of Mechatronics.</p> <p>PSO2. Design Mechatronics systems to solve complex engineering problem by integrating mechanical and control systems.</p> <p>PSO3. Apply the basic computing knowledge and related software for the implementation and operation of Mechatronics system.</p> <p>Program Education Objectives (PEOs): PEO1. To enhance technical skills in the field of Mechatronics for technical excellence & provide service to build smart society.</p> <p>PEO2. To Design, Develop Product & applications in the field of manufacturing, motion control, system simulation, automotive systems & robotics.</p> <p>PEO3. To create awareness of societal & environmental implications & make them suitable for engineering career in industrial environs as well as for pursuing higher studies.</p>

Departmental Activities (Year 2021-22)

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1. Paper Publication by Faculty (Year 2021-22)

Sr. No.	Name of Faculty	Details of Paper Published	National/ International or Other	Name of Journal	No. of Paper Published
1	Mr.R.B.Nimbalkar	Vol 10, Issue 6 ,June 22 Impact Factor 7.429, ISSN:2455-6211, “Design of Automatic Face Mask,Temperature Detection & Hand Sanitizer Dispenser”	International Journal	International Journal of All Research Education & Scientific Methods (IJARESM)	01
2	Ms. M. R. Dhavale	Vol 6 issue 3 Mar Apr 2022 Impact Factor 7.25 “IOT based Garbage Monitoring System”	International Journal	International Journal of Trend in Scientific Research and Development (IJTSRD)	01
3	Mrs. S.N.Satbhai	Vol 6 issue 3 Mar Apr 2022 Impact Factor 7.25 “IOT based Garbage Monitoring System”	International Journal	International Journal of Trend in Scientific Research and Development (IJTSRD)	01
4	Ms. P.R.Gavhane	Vol 6 issue 3 Mar Apr 2022 Impact Factor 7.25 “IOT based Garbage Monitoring System”	International Journal	International Journal of Trend in Scientific Research and Development (IJTSRD)	01



2.International/ National/ State Level FDP attended by faculty

Sr. No	Name of Faculty	Name of FDP	Organized by	Place	Date
01	Ms. M. R. Dhavale	Online FDP on Mechatronics	Santosh . N. Darade . Polytechnic , Yeola	Santosh . N. Darade . Polytechnic	27/10/2021 to 29/10/2021.
02	Mrs. S.N.Satbhai	Online FDP on Mechatronics	Santosh . N. Darade . Polytechnic , Yeola	Santosh . N. Darade . Polytechnic	27/10/2021 to 29/10/2021.
03	Ms.P.R.Gavhane	Online FDP on Mechatronics	Santosh . N. Darade . Polytechnic , Yeola	Santosh . N. Darade . Polytechnic	27/10/2021 to 29/10/2021.
04	Mr.R.B.Nimbalkar	Online FDP on Electric Vehicals approved by MSBTE, Mumbai & organized by Department of Automobile Engineering (Polytechnic) Rajarambapu Institute of Technology	approved by MSBTE, Mumbai & organized by Department of Automobile Engineering (Polytechnic) Rajarambapu Institute of Technology Rajaramnagar	approved by MSBTE, Mumbai & organized by Department of Automobile Engineering (Polytechnic) Rajarambapu Institute of Technology Rajaramnagar	23/12/2021 to 25/12/ 2021
05	Mr.R.B.Nimbalkar	Online FDP on Emerging Trends	Electronics Engineering organized by, Electronics & Telecommunication Department	Amrutvahini Polytechnic, Sangamner	11/04/2022 to 13/04/ 2022
06	Ms. M. R. Dhavale	Online FDP on Recent Trends in Chemical Engineering	Chemical Engineering Department	P.DR .V.V.Polytechnic , Loni	19/04/2022 to 23/04/ 2022
07	Mrs. S.N.Satbhai	Online FDP on Teaching Learning Pedagogies	Computer Department	P.DR .V.V.Polytechnic , Loni	25/4/2022 to 26/4/2022
08	Ms. P. R .Gavhane	Online FDP on Teaching Learning Pedagogies	Computer Department	P.DR .V.V.Polytechnic , Loni	25/4/2022 to 26/4/2022
09	Ms. M. R. Dhavale	Online FDP on Teaching Learning Pedagogies ,	Computer Department	P.DR .V.V.Polytechnic , Loni	25/4/2022 to 26/4/2022
10	Mr.R.B.Nimbalkar	Online FDP on Teaching Learning Pedagogies	Computer Department	P.DR .V.V.Polytechnic , Loni	25/4/2022 to 26/4/2022





3.International/ National/ State Level Conference/Seminar/Workshop/ Training attended by Faculty

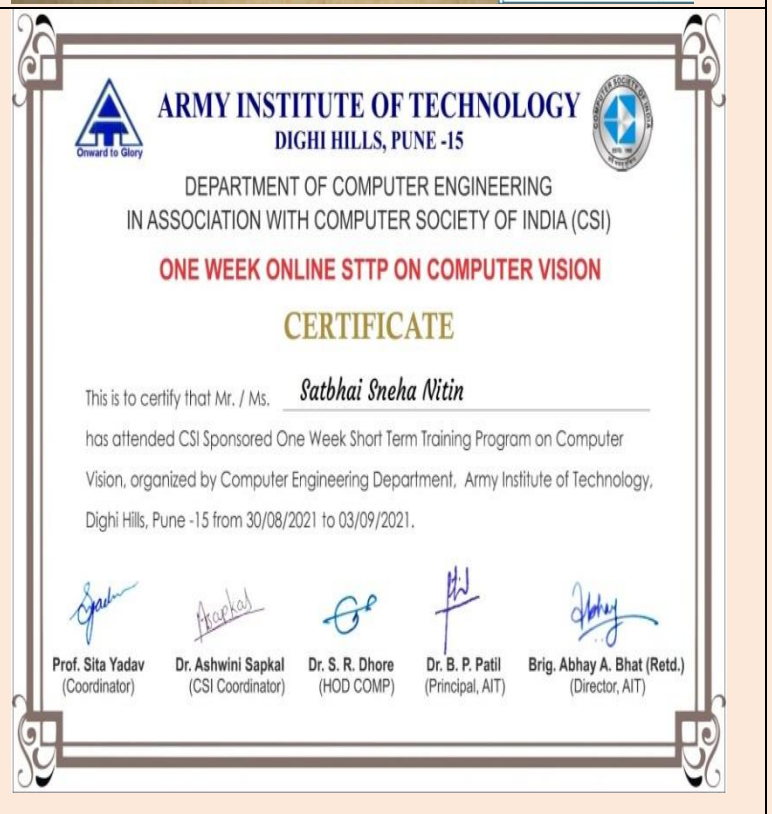
Sr. No.	Name of Faculty	Name of Conference / Seminar / Workshop	Organized by	Place	Date
01	Mr.R.B.Nimbalkar	Online workshop on "IoT Applications"	Dept.of E & TC Engineering , SNJB'S Late Sau.K.B.Jain College of Engineering	Chandwad	15/05/2021
02	Ms. M. R. Dhavale	Online Workshop on "Project Based Learning"	School of Engineering & Technology, Adamas University	School of Engineering & Technology, Adamas University	20/8/2021 to 21/8/2021
03	Mrs. S.N.Satbhai	Online Workshop on Project Based Learning	School of Engineering & Technology, Adamas University	School of Engineering & Technology, Adamas University	20/8/2021 to 21/8/2021
04	Ms. P.R.Gavhane	Online Workshop on Project Based Learning	School of Engineering & Technology, Adamas University	School of Engineering & Technology, Adamas University	20/8/2021 to 21/8/2021
05	Ms. M. R. Dhavale	Online webinar "Women Equality"	Internal Quality Assurance Cell (IQAC) & Women Grievance & Redressal Committee, SM SMP Institute of Technology & Research, Akluj	Akluj	26/08/2021
06	Mrs. S.N.Satbhai	Online webinar "Women Equality"	Internal Quality Assurance Cell (IQAC) & Women Grievance & Redressal Committee, SM	Akluj	26/08/2021

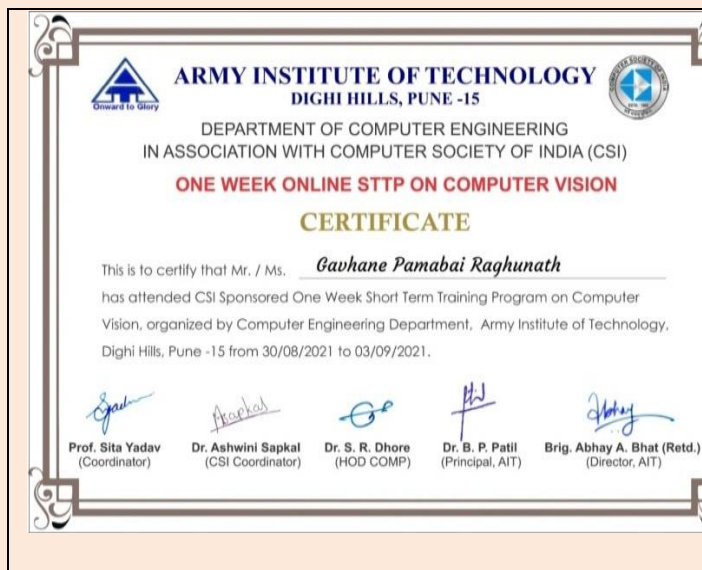
			SMP Institute of Technology & Research, Akluj		
07	Ms. P.R.Gavhane	Online webinar "Women Equality"	Internal Quality Assurance Cell (IQAC) & Women Grievance & Redressal Committee, SMP Institute of Technology & Research, Akluj	Akluj	26/08/2021
08	Ms. M. R. Dhavale	Online Webinar on "Artificial Intelligence (AI) as an Enabler for Teachers in Implementing National Education Policy (NEP) 2020"	Bhartiya Shikshan Mandal in association with Aayog, COEP Pune, P.I.C.T. Pune & R.I.T. Sangli	Bhartiya Shikshan Mandal in association with Aayog, COEP Pune, P.I.C.T. Pune & R.I.T. Sangli	28/08/2021
09	Mrs. S.N.Satbhai	Online Webinar on "Artificial Intelligence (AI) as an Enabler for Teachers in Implementing National Education Policy (NEP) 2020"	Bhartiya Shikshan Mandal in association with Aayog, COEP Pune, P.I.C.T. Pune & R.I.T. Sangli	Bhartiya Shikshan Mandal in association with Aayog, COEP Pune, P.I.C.T. Pune & R.I.T. Sangli	28/08/2021
10	Ms. P.R.Gavhane	Online Webinar on "Artificial Intelligence (AI) as an Enabler for Teachers in Implementing National Education Policy (NEP) 2020"	Bhartiya Shikshan Mandal in association with Aayog, COEP Pune, P.I.C.T. Pune & R.I.T. Sangli	Bhartiya Shikshan Mandal in association with Aayog, COEP Pune, P.I.C.T. Pune & R.I.T. Sangli	28/08/2021
11	Ms. M. R. Dhavale	Online Webinar on "Artificial Intelligence (AI) as an Enabler for Teachers in Implementing National Education	Bhartiya Shikshan Mandal in association with Aayog, COEP	Bhartiya Shikshan Mandal in association with Aayog, COEP Pune, P.I.C.T. Pune & R.I.T. Sangli	28/08/2021

		Policy (NEP) 2020	Pune, P.I.C.T.P Pune & R.I.T. Sangli		
12	Ms. M. R. Dhavale	one week Short Term Training Program on Computer Vision	Computer Engineering Department	Army Institute of Technology, Dighi Hills, Pune-15	30/08/2021 to 03/09/2021.
13	Mrs. S.N.Satbhai	one week Short Term Training Program on Computer Vision	Computer Engineering Department	Army Institute of Technology, Dighi Hills, Pune-15	30/08/2021 to 03/09/2021.
14	Ms. P.R.Gavhane	one week Short Term Training Program on Computer Vision	Computer Engineering Department	Army Institute of Technology, Dighi Hills, Pune-15	30/08/2021 to 03/09/2021.
15	Ms. M. R. Dhavale	Workshop on E Vehicle	Automobile Engineering Department	P.DR .V.V.Polytechnic , Loni	25/4/2022 to 26/4/2022
16	Mrs. S.N.Satbhai	Workshop on E Vehicle	Automobile Engineering Department	P.DR .V.V.Polytechnic , Loni	25/4/2022 to 26/4/2022
17	Ms. P.R.Gavhane	Workshop on E Vehicle	Automobile Engineering Department	P.DR .V.V.Polytechnic , Loni	25/4/2022 to 26/4/2022

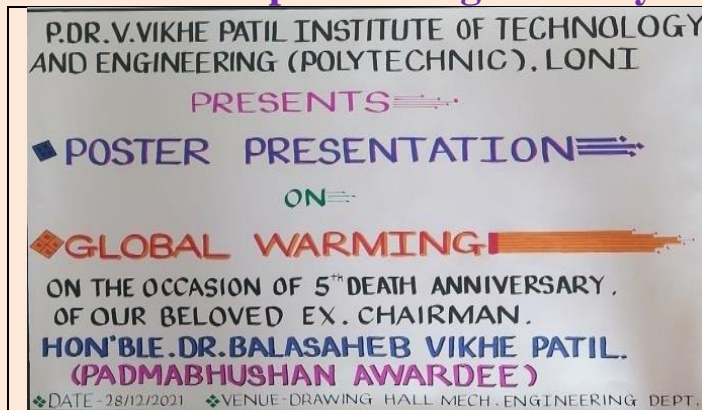








4. Poster Competition organized by Department



Poster Competition was organized on "Global Warming and Ozone layer Depletion on "THE OCCASION OF 5TH ANNIVERSARY OF OUR BELOVED EX. CHAIRMAN HON'BLE DR. BALASAHEB VIKHE PATIL" (PADMABHUSHAN AWARDEE), on 28/12/2021.

5.Industrial visit



First Year Mechatronics students visited to “Indo German Tool Room, Aurangabad”, on 20/05/2022.

Faculty Industrial visit

<p>Visited Praj Industries, Pune on 2/11/2021. Mr. Milind Bava Head HR Praj Industries, Pune and Mr.R. B. Nimbalkar,</p>	<p>Visited Siddhi Forge Pvt. Ltd , MIDC, Ahmednagar on 1/11/2021 Mr. Bhingare, Director Siddhi Forge Pvt. Ltd. MIDC, Ahmednagar and Mr.. R. B. Nimbalkar</p>	<p>Visited Flash Electronics, Chakan, Pune on 2/11/2021 Mr Aneil Lala, Chief Human Resource Officer, Flash group, Chakan, Pune and Mr .R. B. Nimbalkar.</p>

6.Seminar/ Workshop organized by department

Seminar was conducted on “Industry 4.0” by, Mr. Mahesh Nawale, Automation Engineer, Indo German Tool Room, Aurangabad for First Year Mechatronics students, on 18/5/2022.

Workshop for Students

Workshop was conducted on Electronics Circuit Design by, Mr. D.K. Arote (Alumnus of Industrial Electronics, Batch 1985), Swati Enterprises, Ind. Estate, Inverters, UPS Manufacturing Consultancy, Sangamner, for First Year Mechatronics students, on 1/4/2022.

7.MOU's Added in 2021-2022

Sr.No.	Name of Company
01	Elecdesign Technology (Design &Control Solution Provider)130/1,Gurudwara Road ,Akurdi Pune-33.
02	Sumago Infotech Pvt Ltd,rd Floor ,Sadashiv Motkari Sankul Sadgurunagar,Near Sadashiv nagar Govindnagar ,In front of Sagar Sweets,Nashik 422009.
03	Technospark Centre Golden City Sangamner, Tal Sangamner, Dist A.nagar 422605.
04	Pandurang Krupa Enterprises ,Argade Mala Gunjal wadi Road, A/P Sangamner, Tal Sangamner, Dist A.nagar 422605.
05	Amte Light & Sound , Loni Bk, Tal Rahata, Dist A.nagar .
06	Sai Ganesh Foods, Nandurkhi, Tal Rahata.
07	Padmashri Dr. V. V. P. S. S. K. Ltd., Pravaranagar, Tal. Rahata, Dist. Ahmednagar.
08	Rishi Wheel Care opp Vikhe Patil Petrol Pump ,Loni.
09	Indo German Tool, Aurangabad.
10	Kohinoor Electronics, Kolhar Bk.



DU was signed with Indo German Tool Room Aurangabad on 5/2022.



Kohinoor Electronics, Kolhar Bk, on 9/5/2022



DU was signed with Mr. Ravi Narayan Rao, Managing Director, S.K Pravaranagar on 07/12/2021 .



DU was signed with Vitthal Choudhary, , Entrepreneur Sai Ganesh Foods, Nandurkhi, A/P : Shirdi, Tal-ahata, on 26/11/2021

8.Faculty Achievement (CSR Activity)



Our two alumni Mr. Santosh Tambe , Manager & Mr. Ganesh Tambe, Assistant Manager handed us some useful Glass wares & Weighing Machines by Mr. Vikas Shinde Sir, Head HR of Cipla for Chemical Department under CSR activity, on 16/10/2021.



Mr. R.B.Nimbalkar received appreciation certificate for attending the Internship Day Award Ceremony ,held on 24th August 2021.

9.Parent Meet



Students -Teacher- Parents Meet for First Year Mechatronics students, organized by Mechatronics Department on 29/4/2022.