

DARPAN

From HoD's Desk

This second half yearly “**DARPAN**” newsletter presents activities organized by department. We work for overall growth of students and inculcate the features that are required and acceptable by Society. Faculty members are well qualified and competitive enough in preparing the young minds for global competition. Our students are highly motivated and ready for Industry with hands on experience on current technologies.

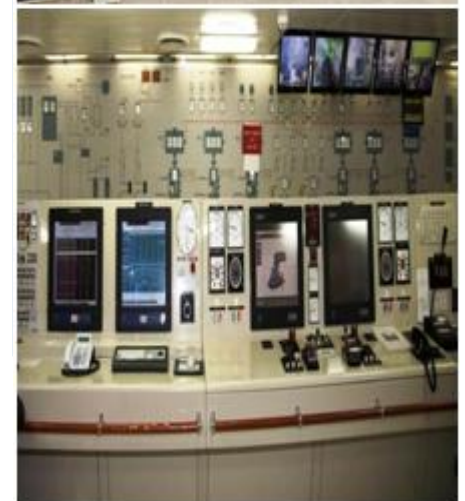
I hope that learn and apply climate will transform students to move forward and to face their future.

Dr. Chandrakant B. Kadu
Head of Department



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VISION

Develop skillful graduate engineers in the field of Instrumentation and Control Engineering for the benefit of society and industry globally.

MISION

To offer a well-composed course of instructions, learning environment, hands on experience and problem solving skills for developing professionals, to provide safe and efficient solutions in the field of Instrumentation, Control, Automation, and allied sectors.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Graduates would demonstrate ability to,

PEO 1: Actively participate in designing, calibration and testing, operating and maintaining systems in the field of Instrumentation and Control Engineering, and allied industries.

PEO 2: Solve problems in the field of commercial, residential and industrial automation by applying the knowledge of Instrumentation and Control Engineering.

PEO 3: Work as an individual and as a team member/leader in multidisciplinary projects effectively and ethically.

PEO 4: Provide innovative, feasible, economical and socially relevant solutions to engineering problems, based on analysis, design and development using software and/or hardware platforms.

PROGRAM SPECIFIC OBJECTIVES (PSOs)

PSO1: Analyze dynamics of process control systems, select/implement sensors / transducers and controllers to ensure the performance, safety, and quality of the processes through measuring, monitoring and designing of automated systems.

PSO2: Develop mathematical model, validation of model, design and tuning of the controller for process control systems and its realization using DCS, PLC, SCADA and MATLAB.

STAFF ACHIEVEMENT 2020-2021

Dr. C. B. Kadu [HoD] received **Gunwant Addyapak Puraskar - 2021** by Savitribai Phule Pune University, Pune on 10 February 2021.

सकाळ



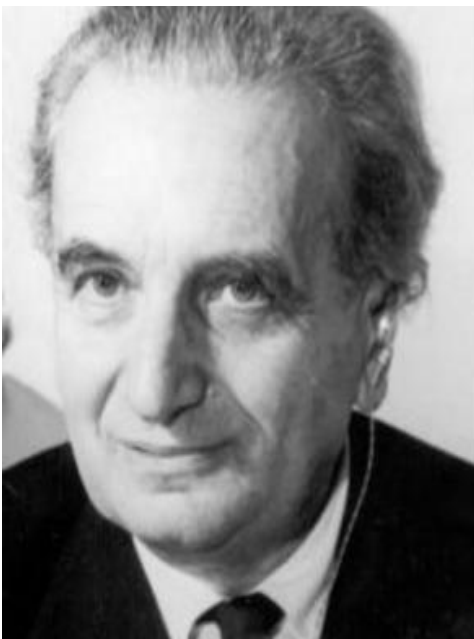
पुणे : सावित्रीबाई फुले पुणे विद्यापीठाच्या वतीने प्रा. चंद्रकांत कडू यांचा कुलगुरू डॉ. नितीन करमाळकर, डॉ. रवींद्र कोल्हे यांच्या हस्ते गौरव करण्यात आला.

विद्यापीठाकडून प्रा. कडू यांचा गौरव

शिर्डी : प्रवरा ग्रामीण अभियांत्रिकी महाविद्यालयातील इन्स्ट्रुमेंटेशन अँड कंट्रोल इंजिनिअरिंग विभागाचे प्रमुख डॉ. चंद्रकांत कडू यांना सावित्रीबाई फुले पुणे विद्यापीठाच्या वतीने गुणवंत अध्यापक म्हणून गौरविण्यात आले. विद्यापीठाचे कुलगुरू डॉ. नितीन करमाळकर व डॉ. रवींद्र कोल्हे यांच्या हस्ते सन्मानचिन्ह देऊन प्रा. कडू यांचा सन्मान करण्यात आला. या गौरवाबद्दल प्रवरानगर येथेही डॉ. कडू यांचा प्रवरा ग्रामीण शिक्षण संस्थेचे अध्यक्ष आमदार राधाकृष्ण विखे पाटील यांच्या हस्ते सत्कार करण्यात आला. जिल्हा परिषदेच्या माजी अध्यक्ष शालिनी विखे पाटील, खासदार डॉ. सुजय विखे पाटील व संस्थेच्या मुख्य कार्यकारी अधिकारी सुशिमता विखे पाटील आदी उपस्थित होते.

WEBINAR'S

1. Webinar on **“Healthy Lifestyle without Stress”**, by Mrs. Mohini Jadhav (Alumni 2007 Batch), Wellness coach, Herballife Nutrition on 7 Dec. 2020.
2. Webinar on **“Interview Skills & Resume Writing”**, by Mrs. Priti Muthiyan, Operational Executive & Management Analyst, Priti Pathshala and Mrs. Urvashi Pachori (Alumni 1998 Batch), Softskill Trainer, Image Consulting & Business Institute Pune conducted on 6 Jan. 2021.
3. Webinar on **“DCS & PLC in Industrial Automation”**, by Mr. Ashok Jadhav, Chief Technology Officer, Artee Flow Controls Private Limited on 3 Feb. 2021.
4. Webinar on **“Instrumentation Technologies and Value Engineering”**, by Mr. Prashant Kute (Alumni 1998 Batch), Electrical & Instrumentation Engineer, Suez water Technologies & Solution Bengaluru, India on 23 Feb. 2021.



Scientists study the world as it is,
engineers create the world that
never has been.

— Theodore von Karman —

FACULTY NEWS

- **Dr. C. B. Kadu [HoD] Topper** in NPTEL Online Certification Course on “Chemical Process Control”, Funded by Ministry of HRD, Govt. of India during September to November 2020, with score of 76% Elite-Silver category.
- **Dr. C. B. Kadu [HoD] Topper** in NPTEL Online Certification Course on “Automatic Control”, Funded by Ministry of HRD, Govt. of India during January to March 2021, with score of 96% Elite-Gold category.
- **Dr. C. B. Kadu, Dr. P. S. Vikhe and Mr. S. M. Shirsath** presented paper in International conference on “Design, Analysis & Motion Control of Hydraulic Excavator Using Discrete Sliding Mode Control with Inertial Delay”, organised by Sri Eshwar College of Engineering, Coimbatore, Tamil Nadu, 19 - 20 March 2021.
- **Dr. P. S. Vikhe** completed NPTEL Online Certification Course on “Automatic Control”, Funded by Ministry of HRD, Govt. of India during January to March 2021, with score of 76% Elite-Silver category.
- **Mrs. V. S. Takate** completed NPTEL Online Certification Course on “Introduction to Internet of Things”, Funded by Ministry of HRD, Govt. of India during September to December 2020, with score of 63% Elite category.
- **Mrs. V. S. Takate** completed NPTEL Online Certification Course on “Automatic Control”, Funded by Ministry of HRD, Govt. of India during January to March 2021, with score of 71% Elite category.
- **Mrs. V. S. Takate** presented paper in International conference on “Arterial Blood Pressure Regulation using a Novel Fractional Order based Sliding Mode Elephant Herd Controller”, organised by Vaigai College of Engineering held from 6 – 8 May 2021.

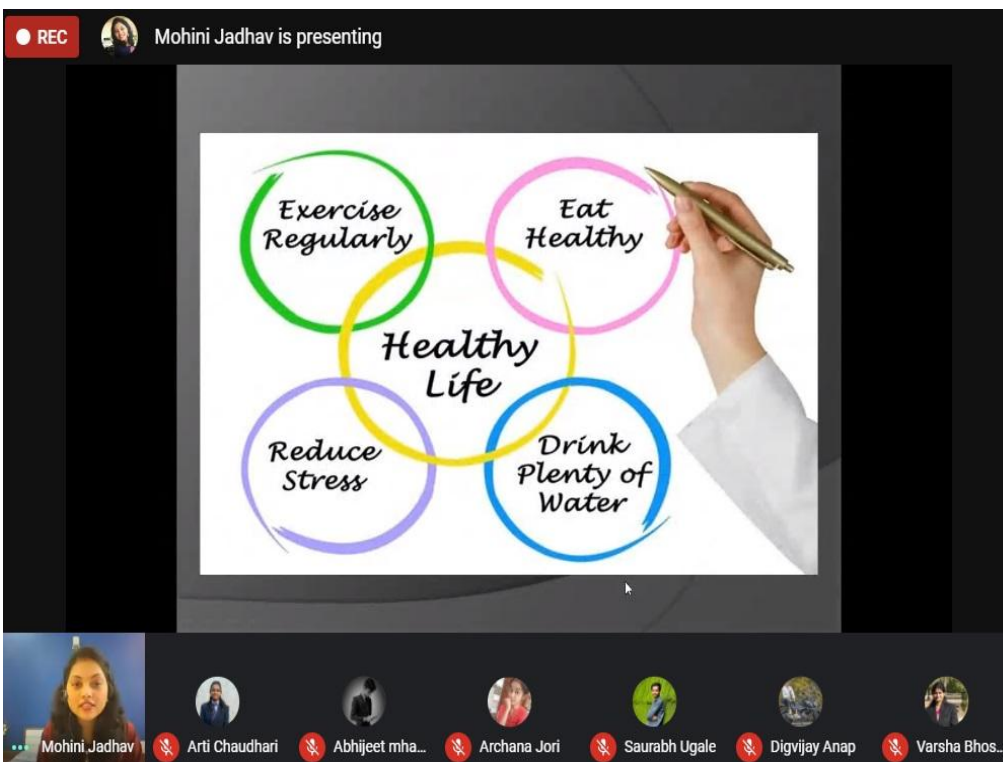
- **Mr. V. K. Jadhav** completed NPTEL Online Certification Course on “Project Management for Managers”, Funded by Ministry of HRD, Govt. of India during September to December 2020, with score of 60% Elite category.
- **Mr. V. K. Jadhav** completed NPTEL Online Certification Course on “Automatic Control”, Funded by Ministry of HRD, Govt. of India during January to March 2021, with score of 76% Elite-Silver category.
- **Mr. N. N. Lokhande & Mr. V. K. Jadhav** received appreciation letter for spreading awareness and conducting software training workshops at Pravara Rural Engineering College, Loni form Spoken Tutorial, IIT Bombay.
- **Mr. N. N. Lokhande** completed NPTEL Online Certification Course on “Scientific Computing using Matlab”, Funded by Ministry of HRD, Govt. of India during September to October 2020, with score of 51%.
- **Mrs. M. D. Balsaraf** completed NPTEL Online Certification Course on “Introduction to Internet of Things”, Funded by Ministry of HRD, Govt. of India during September to December 2020, with score of 60% Elite category.
- **Mrs. V. P. Bhosale** completed NPTEL Online Certification Course on “Chemical Process Control”, Funded by Ministry of HRD, Govt. of India during September to November 2020, with score of 60% Elite category.
- **Mrs. A. S. Jondhale** completed NPTEL Online Certification Course on “Introduction to Internet of Things”, Funded by Ministry of HRD, Govt. of India during September to December 2020, with score of 48%.
- **No. of FDP attended by Faculty: 20**
- **No. of Workshop/Seminar/STTP/webinar attended by faculty:**

ALUMNI ACHIEVEMENT

Mr. Gaurav Anap, alumnus 2006 batch appointed as **Class 1 officer** in National Bank for Agriculture and Rural Development (NABARD) Government of India Administrative Services.



PHOTO GALLERY



Expert lecture
on "**Healthy
Lifestyle
without
Stress**"

REC U Urvashi Pachori is presenting

S Shivam Chertre and 44 more

55 11:41 AM You

WHAT IS SWOT ANALYSIS



- SWOT is an acronym for Strengths, Weaknesses, Opportunities, and Threats.
- SWOT analysis is a planning tool used to understand the Strengths, Weaknesses, Opportunities, and Threats faced by an Individual.
- To do a SWOT analysis which is effective and meaningful, one has to be patient, open minded and analytical of oneself without any bias.
- The aim of any SWOT analysis is to identify the key internal and external factors that are important to achieving success. SWOT analysis, groups key pieces of information into two main categories:
 1. Internal factors – The strengths and weaknesses internal to the individual.
 2. External factors – The opportunities and threats presented by the external environment.

Urvashi Pachori Smeera Azad
R Rutuja Langote R Rajendra Gund
V Vedant Shirke S shital pawar

Expert lecture on **“Interview skills and Resume writing”**

webinaroninterviewskillsandresu... ^


Microphone Mute Unmute Raise hand Turn on captions Urvashi Pachori is presenting

REC Prashant Kute is presenting

COMMUNICATION PROTOCOL : HART

HART Feature	Revision	5	6	7
Analog Loop Check				
Tag (8 character)				
Device Calibration				
Device Configuration				
Broadcast Messaging (Burst)				
Multi-Variable Communication (MVC)				
Primary Variable with Status				
Device Status				
Long Tag (32 character)				
Locate Device				
Digital Loop Check				
HART Software Lock				
Multi-Variable Statuses				
Enhance Multi-Variable support				
Wireless				
Expanded Manufacturer ID				
Enhanced Multi-Variable Communication (E)				
Time Stamp				
Trends				
Synchronized Sampling				
Enhanced Broadcast Messaging				
Report by Exception				
Event Notification				

Installed Base



- HART6 adds features to improve system integration of wired devices
 - Long Tag automates commissioning of greenfield projects by tying device ID's from engineering drawings to the device software tags
- HART7 adds features to improve wireless communications and creates a single specification for wired and WirelessHART
 - Some parameters are only applicable for wireless

Prashant Kute A Akanksha Khedkar avinash dighe S Snehal Patil

Meeting details X

People (23) Chat

Mute all Add people Host controls

IN CALL

Vilas Jadhav (You) A Akanksha Khedkar avinash dighe B akash wale S Snehal Patil

Meeting details ^

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Activate Windows

Expert lecture on **“Instrumentation Technologies and Value Engineering”**

THANK YOU

Faculty Editor:
Mrs. Amruta S. Jondhale
amruta.jondhale@pravara.in

Head of Department:
Dr. Chandrakant B. Kadu
chandrakant.kadu@pravara.in

Pravara Rural Engineering College

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