FACULTY PROFILE

NAME	: Heenakausar Yusuf Pendhari
DESIGNATION	: Assistant Professor
QUALIFICATION	: M.E. (Electronics)
EMAIL	: heenak.pendhari@frcrce.ac.in
AREA OF INTEREST	: Python Programming, Digital circuits. IOT, Microprocessor and Microcontroller, Internet Programming, ,Controls system

PROFESSIONAL BACKGROUND   :1) Assistant Professor, Fr.Conceicao Rodrigues college of engg , Mumbai Since 22nd August 2013 .

2) Assistant Professor, Fr.Conceicao Rodrigues college of engg. , Mumbai July 2010 to May 2013.

3) Technical cum Administrative Engineer, Thane, 1-12-2004 to 28-2-1006.

4) Visiting Lecture, Govt Polytechnic Ratnagiri 1997 to 2003.

EDUCATIONAL DETAILS   1) Pursing Phd in Computer Engineering from D Y Patil Deem to be University (RAIT Navi Mumbai)

2) M.E. (Electronics), Fr. Conceicao Rodrigues college of Engg. Mumbai University, 2009

3) B.E. (Electronics), KIT college of Engg., Shivaji University, 1994.

4) DBM, Indian Merchant Chamber, Mumbai, 1997

ADMINISTRATIVE BACKGROUND : Placement co-ordinator 25th November, 2013 – May   2023

Ph.D. SUPERVISED   :   ---------

RESEARCH GRANT PROJECTS/PATENTS :   Smart Soil Analyzer (MRG) 2018-19

PUBLICATIONS

[1] Heenakausar Pendhari, Sanika Rozario, Sania Almeida, Shruti Patil, Sanika Patankar ,Mental Health Prediction Using Large Language Models,Second International Conference on Inventive Computing and Informatics organized by S.E.A. College of Engineering and Technology, Bangalore, India on June, 11-12, 2024.

[2] Heenakausar Pendhari, Rohan Mathew, Justin Abreo, Jaden Dsa,A Privacy Preserving Sentiment Analysis using Federated Learning; Second International Conference on Inventive Computing and Informatics organized by S.E.A. College of Engineering and Technology, Bangalore, India on June, 11-12, 2024.

[3] Heenakausar Pendhari, Savio R., Mehul Patel, Samuel Emmatty, Aaron Pereira, "Resume Screening using Machine Learning", ICDSAA, 21-23 December 2023, IEEE

  [4] Heenakausar Pendhari, Rasika Virkar, Betsy Edakkalathur, Akshata Jadhav," A Comparative study on Algorithms for plant disease detection using transfer Learning" ICIRCA 2023, IEEE

[5] Heenakausar Pendhari, Pooja Banjan, Unnati Kotian, Merly Corriea, Sebastina Eliza,"Crime Occurences,Analysis and Perdiction using Machine Learning"Gradiva Review Journal Volume 9, issue6, June 2023 ISSN NO: 0363-8057

 [6] Nagdeote, S., Pendhari, H., John, M. and Agrawal, S. (2023) "An Approach to Detect Driver Drowsiness in Real Time using Facial Landmarks", SAMRIDDHI : A Journal of Physical Sciences, Engineering and Technology, 15(01), pp. 161-165. doi: 10.18090/samriddhi.v15i01.21.

[7] Heenakausar Pendhari, Sushma Nagdeote, Sandeep Rathod, Lubna Khan, Saurabh Vishwakarma, "Compound Emotions: A Mixed emotion detection" , International Conference on Computational and Intelligent Data Science,21st May 2022.   (In process)

[8] Sushma Nagdeote, Heenakausar Pendhari, Omkar Shirsat, Raj Lad, Sujata Chiwande, "Esports Analysis with Data Science", AIP Conference Proceeding, 2022
24th -25th March 2022 Will be Published in AIP Conference Proceedings (In Process)

[9] Heenakausar Pendhari, Vaibhav Godbole" Interactive teaching- Learning Methodology using Moodle", National Symposium on Innovations in Teaching- learning Process-2018. D.Y.Patil College of Engg, Akurdi, Pune, December 08, 2018.

[10] Heenakausar Pendhari, Sangeeta Parshionikar, Archana Lopes,"Generating Hardware Fingerprint of FPGA using Physically Unclonable Function", International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering CFP18P98-PRI:978-1-5386-5994-6, KIII, Bhubaneswar, Odisa, July' 27th -28th 2018.

[11] Heenakausar Pendhari, Sangeeta Parshionikar, Archana Lopes, "Early Detection of Heart Disease Using BRANN", International Journal of Creative Research Thoughts (IJCRT), volume 6 issue 2 April 2018 (ISSN:2320-2882).

[12] Heenakausar Pendhari, Sachin Shinde , "Ultrasonic Inspection TOFD Using ANN in in National conference held at Watumull Institute of Electronics and Computer technology, worli, Mumbai, 2012

[13] Heenakausar Pendhari, Sachin Shinde " Intelligent Autonomous Adaptive Control Using Artificial Neural Network " National conference held at Watumull Institute of Electronics and Computer technology, worli, Mumbai, 2011.

[14]Heenakausar Pendhari , Sanjana Repal "Personal Authentication by Iris recognition " National conference held at K. J .Somaiya College of Engg, Vidyavihar, Mumbai ,20-21 March, 2009.

[15] Heenakausar Pendhari , Sanjana Repal "The 2D wavelet and 2D curvlet transform for image processing ", National conference held at Dayananda Sagar College of Engg, Bangalore, 19th-21st March, 2009.

BOOKS AUTHORED : **NIL**

TRAINING PROGRAMS CONDUCTED : 1) 2 weeks STTP on" Simulation: Concept to Practice", May 14th – 25th ,2012

2) Two day workshop on "Hands on Training on PYTHON coding and Remote Lab Learning", 10th and 11th February 2017.

PARTICIPATION IN TRAINING PROGRAM :

1) NITTT Module 1,3,5,6 May 2024-08-16
2) ATAL-FDP on Blockchain Architecture and its Application" 4th-9th Dec 2023 FR.CRCE, Bandra (W)
3) NITTT Module 2 November 2023
4) 12 weeks NPTEL course on " Introduction to Internet of things" Jan-Apr 2023
5) Faculty Patent Development Program 31st July-5th Aug, 2023
6) FDP on NLP and Deep Learning 30/0/22 and 3/10/22
7) AICTE Advanced innovation ambasador training of 30 contact hours August 2022
8) "Machine learning using Python",2 weeks21st Feb to 5th March 2022 APPTRONIX TECHNOLOGIES – NOIDA.
9) "Inculcating Universal Human Values in Technical Education" Organized by AICTE,one week 12th July- 16th July
10) "Vogue of Embedded System", May 27, 2020 to May 29, 2020, VidyaVardhini 's college of engg and technology, Vasai
11) **"Creating Tech- Savvy teachers for future classroom",** 1 week 6th June – 10th june 2020, St. Teresa institute of Education Santa Cruz, Mumbai.
12) **"Disruptive Technology of Industry 4.0",** 1 week May 30th – 3rd June 2020, FRCRCE, Comp.Dept, Bandra
13) **"Advances in Internet of Things ",**1 week 29th May- 2nd May 2020, FRCRCE, Dept. ECS, ,Bandra.
14) **"Opportunities & Challenges in Electronics & Allied Industries in India Post COVID-19",** 1 week 25th May – 30th May 2020, Vivekanand Education Society's Institute of Technology, Chembur
15) **"Technological Advances in field of electronics & telecommunication Engg ",**1 week May5th – May 9th 2020, VidyaVardhini 's college of engg and technology, Vasai

16) "Programming for Everybody (Getting Started with Python) ",8 weeks, Coursera
17) **Webinar** "Scope and Opportunities in ASIC Verification", 7th June, 2020, FRCRCE, Dept. ECS, ,Bandra.
18) **Webinar** "Survival of the Fittest - Educational Leadership in Critical Times" , 15-August-2020, ICFAI Business School, Mumbai
19) "Research Areas in Technologies For Societal and Rural Development", 21st December 2020 to 1st January 2021, FRCRCE, Dept. ECS, ,Bandra.
20) "DATA SCIENCE", 26th May to 30th May, 2020. at FRCRCE, Bandra
21) Two day training on "Python Programming: Basics to Advance" 30th and 31st August 2019
22) 12 Weeks NPTEL Course "Digital Electronic Circuits " JAN-APR 2019
23) One day workshop on ""Virtual laboratories in Engg, "March 9th 2019.
24) Two day workshop on "AI & Deep learning workshop", at FRCRCE, Bandra, July 21st –July 23rd 2018.
25) Eight weeks NPTEL course on "Developing Soft skills and Personality", July-September 2017.
26) One week training on" Basic Digital system: Theory and Practice", May 7th – 11th 2018
27) "Laboratory experimentation with Cadence toolset for Analog VLSI design", 14th and 15th December 2016
28) "Hands-on Training on System Simulation Tools"(MULTISIM, LABVIEW& ULTIBOARD), August 5th – 6th, 2016
29) "Design Aspects in CMOS Analog Circuits, ASIC, and MEMS", June 27th – July 1 , 2016.
30) Two day workshop on "Teaching and Beyond: Widening Horizons", February 5th – 6th, 2016.
31) One day workshop on "NPTEL Awareness Workshop", January 8th 2016
32) One week STTP on" Analog CMOS VLSI Design", December 7th – 12th 2015
33) Two day workshop on "IC technology: Layout to Simulation", September 4th – 5th,2016.
34) Two day workshop on "Challenges in VLSI design", March 13th and 14th, 2015.
35) One day workshop organized by Accenture, January 27th 2015.
36) One Day Workshop on ARM Mbed Platform, March 8th, 2014.
37) Two day Workshop on Techniques for effective technical paper writing", August 30th-31st 2013
38) Two Week s SSTP on Basic Electronics conducted by IIT Bombay. 28th June – 8th July 2011
39) Eight weeks SSTP on Introduction to Information Technology and Computer Application conducted at Government Polytechnic Ratnagiri from 3rd July -25th July 2000.
40) National Conference on "Applications of Digital Signal Processing", January 19-20, 2007

Details of Industrial Training / Professional Training

Duration in weeks	Dates	Name of Industry/relevant body with address	Topic/Area	Any other information
Two weeks	21st Dec 2021- 2nd Jan 2022	Schnell Machine tools	PLC system	
One month (5 weeks)	30th June – 30th July 2021	Innovation Ambassador training (Foundation Level, Total 16 Sessions of 30 contact hours) conducted by MoE's Innovation Cell & AICTE during the period	Innovation Ambassador training (Foundation Level)	

		from 30th June – 30th July 2021 in online mode.		
One Month		Innovation Ambassador training (AdvanceLevel, Total 14 Sessions of 30 contact hours) conducted by MoE's Innovation Cell & AICTE	Innovation Ambassador training (Advance Level)	

INTERACTION WITH OUTSIDE WORLD   : NIL

PROFESSIONAL AFFILIATIONS   : NIL

OTHERS DETAILS   : NIL