

Yudhishtir RAUT

Associate Professor | MATLAB Trainer | TPO

in [linkedin.com/in/yudhishtir-raut-a4336524/](https://www.linkedin.com/in/yudhishtir-raut-a4336524/) | github.com/yudhi4u

+91 9009255611 | r.yudhi@gmail.com

C-28, Kakada Abhinav Homes, Ayodhya bypass road, Bhopal(M.P.), INDIA, pin-462041

01 September 1978



CAREER OBJECTIVE

Seeking a challenging position to utilize my skills and abilities in area of teaching and education that offers a professional growth while being resourceful, innovative and flexible.

EDUCATIONAL PROFILE

- 2018 **Ph.D. Submitting in October 2018**, Shri Govindram Seksaria Institute of Technology and Science (S.G.S.I.T.S., Indore), R.G.P.V. University, Bhopal with **65.50 %**. *Topic : Lossless compression of 4D-fMRI using HEVC(H.265).*
- 2005 **Master of Technology (M. Tech.)** in Digital communication (2003-2005), Maulana Azad National Institute of Technology (M.A.N.I.T.), Bhopal with **78.80 %**.
- 2001 **Bachelor of Engineering (B.E.)** Discipline : Electronics & Instru.(1997-2001), Shri Govindram Seksaria Institute of Technology and Science (S.G.S.I.T.S.), Indore/ R.G.P.V. University, Bhopal with **68.50 %**.

PROFESSIONAL EXPERIENCE

Till date	T&P Coordinator (OGI) Associate Professor, Department of ECE, ORIENTAL COLLEGE OF TECHNOLOGY, BHOPAL, India
August 2016	As Associate Professor <i>Teaching</i> <ul style="list-style-type: none">➤ Designing and developing innovative approaches to the learning experience for undergraduates and postgraduates with the intention of challenging thinking, fostering debate, and encouraging the development of intellectual reasoning and rigour.➤ Delivering teaching to the undergraduate students with multiple teaching aid for their better understanding of the subject.➤ Preparing and circulating of the E-notes for their quick revision.➤ Conduction of test, quizzes, mid semester examination, viva-voce and assignments to fulfill the university academics requirements. <i>Administration</i> <ul style="list-style-type: none">➤ Participates in relevant committees within department/faculty.➤ Providing Letter of reference to the students.➤ Mentoring the new faculty member as of required.➤ Member of NBA accreditation preparation team for required documentation.➤ May, on occasion, participate in school/University committees where appropriate and/or where invited. <i>Research</i> <ul style="list-style-type: none">➤ Investigating new areas of research within specialist subject area.➤ Identifying research topic and initiating analysis that will be original and innovative for PG scholars.➤ Adapting research methodologies and its implementation. <i>Training & Placement</i> <ul style="list-style-type: none">➤ Correspond to prospective companies for interview date and schedule of events➤ Registration of students in training and placement and various assessment test conduction➤ Arrange for interview facilities at the campus and written test halls➤ Receiving the personnel and providing necessary inputs about the college for smooth functioning at various locations (interview halls, written test halls, canteen, etc.)➤ Contacting the HR's of various organizations for campus drives and accreditation process➤ Placement drive conduction➤ Conduction of GD PI and Technical interviews (Mock)➤ Setting recruitment schedule, and feedback of trainers➤ Distribution of appointment letters and collection of acceptance letters from the students to dispatch the same to the employees➤ VAC schedule, training forms, industrial training arrangements. <div>Administration Training TPO MATLAB ERP Multisim Kicad</div>

August 2016 January 2012	Head, ECE Associate Professor TPO, SIRT-EXCELLENCE, BHOPAL, INDIA <i>Administration as Head of the Dept.</i> <ul style="list-style-type: none"> › Arranging various workshop, expert lectures, industrial visits and value addition courses for filling the university academics curriculum and industrial requirement from the students. › Participates in relevant committees within Institute or group level. › Subject Secretary of Dept of EC within group level. › Member of documentation team for AICTE, RGPV, NBA and ISO compliance team. › Member Research & development team within group level. › May, on occasion, participate in school/University committees where appropriate and/or where invited. <i>Training & Placement, Teaching and Research as above.</i> <div>R&D ERP MATLAB Workshop FDP Administration TPO</div>
December 2011 October 2008	HOD,EC Reader, NRI GROUP OF INSTITUTION, BHOPAL, INDIA <ul style="list-style-type: none"> › Duties & responsibilities as Head of the department. › Development & Management of laboratory of 60 computers. › Internet management & maintenance monitoring. › Teaching & Development of Electronics Lab. › Co-ordinator for e-learning & cultural events. › Member for faculty recruitment cell. › M.Tech Thesis Guide. › Teaching & development of Advance Communication Laboratory. <i>Teaching and Research as above.</i> <div>Administration R&D MATLAB NBA ISO MxLA WCTT</div>
October 2008 February 2006	Assistant Professor, ALL SAINTS' COLLEGE OF TECHNOLOGY, BHOPAL, INDIA <ul style="list-style-type: none"> › Teaching & Development of Microprocessor and VLSI Lab Coordinated 3 Technical Symposium Techno vista 2006, 2007 and Vision Tech -2008 › Coordinator of Cultural events <div>Management Administration R&D MATLAB NBA ISO VLSI</div>
May 2005 January 2005	Lecturer, ORIENTAL INSTITUTE OF SCIENCE & TECHNOLOGY, BHOPAL, INDIA <ul style="list-style-type: none"> › Manufacturing & Maintenance of Micro-controller based Systems(Atmel 89C5X based). <div>Assembly language Maintenance AVR Embedded system ISO</div>
August 2003 August 2001	Maintenance Engineer, MICROCOMS COMMUNICATION SYSTEM, BANGALORE, INDIA <ul style="list-style-type: none"> › Manufacturing & Maintenance of Micro-controller based Systems(Atmel 89C5X based). <div>Assembly language Maintenance AVR Embedded system ISO</div>

TECHNICAL SKILLS

Programming Languages	Python, VHDL, C, C++, VC++, Assembly Language
Simulation tools	MATLAB, OrCAD, Active HDL, Multisim, Kicad, Xilinx ISE, Keil, Altera, SPSS
Communication Standards	SS7, 802.11a, 802.15.4 (Zigbee), 802.16 d/e/m
Word processor	LATEX, Openoffice, Libreoffice, Microsoft word
Operating system	Windows 10, Windows 7, Linux : UBUNTU, Linux Mint, UNIX
Data analysis & visualisation	SPSS, Tableau, Originpro 8.1, Qtiplot

LANGUAGES KNOWN

English	● ● ● ● ○
Hindi	● ● ● ● ●
Marathi	● ● ● ● ○

FORCES

- › Worthy time-keeping skills
- › Self-driven and committed
- › Team work experience

RESEARCH INTEREST AND PUBLICATIONS

Research Interest

1. Image & Video Compression Techniques for Medical Applications.
2. Biomedical Signal Processing.
3. Cellular & Wireless communication.

International Journal

1. Objective analysis of HEVC (h.265) compressed FMRI Images, International Journal of Control Theory & Application, Volume 9, number 41, pp.199-206, 2017, ISSN:0974-5572. **(Scopus Indexed Journal)**
2. A Hybrid connecting character based text recognition and extraction algorithm, International Journal of Recent and Innovation Trends in Computing and Communication, Volume 6, Issue 6, pp 102-105, ISSN:2321-8169.
3. Dual Band 'I' Shaped MSA with Diffracted Ground Plane, International Journal of Innovative Research in Computer and Communication Engineering, Volume 5, Issue 6, pp 12253-12260, ISSN(Online) : 2320-9801, ISSN (Print) : 2320-9798.
4. BER Analysis of MIMO OFDM System in AWGN & Rayleigh Fading Channel", International Journal of Computer Application (IJCA), Volume 34, Issue 9, November 2011, ISSN : 0975-8887.
5. Evaluating the Impact of Guard Period Insertion on the Performance of MIMO OFDM System, International Journal of Engineering Research & Applications (IJERA) Volume 1, Issue 4, November 2011, ISSN : 2248-9622.
6. Effect of Guard Period Insertion in MIMO OFDM System, International Journal of Computer Technology and Electronics Engineering (IJCTEE) Volume 1, Issue 2, November 2011, ISSN : 2249-6343.
7. Review of Congestion Control Algorithms for Performance Evaluation of WCDMA, International Journal of Emerging Technology and Advanced Engineering (IJETAEE) , Volume 1, Issue 1, November 2011, ISSN 2250-2459.
8. The System Design And Modelling Using Mix-Signal & Mix-Technology, with VHDL-AMS, International Journal of Electronic, Electrical and Communication Engineer (IJECE), Vol.3, No.2, 2011, ISSN : 0975-4814.
9. Performance of Turbo Code for UMTS in AWGN channel, International Journal of Advanced Computer Research (IJACR), Vol.1, No.1 September 2011, ISSN : 2249-7277.
10. Speed-Improvement of Fractal Image Encoding, International Journal of Computer System Engineering and Information Technology, vol. 3, no. 1, January-June 2010, ISSN : 0974-5807.
11. Effect of Different Spreading Codes on DS-CDMA System in Multipath Fading, International Journal of ELECTRONICS AND COMPUTERS, Volume 2, number 1, pp.65-71, January-June 2010, ISSN:0975-3796.

International Conferences

1. Quality Evaluation of HEVC Compressed CT Images, IEEE UPCON-2015, IEEE UP Section Conference on Electrical, Computer and Electronics (4-6 December, 2015), Indian Institute of Information Technology Allahabad - 211012, India.
2. Taxonomy of Brain Imaging Techniques, ICIREMPS 2K14, (IEEE MP Subsection) Bhopal, India, pp 1098-1101.
3. Performance of Turbo Code Using SOVA Decoder in AWGN channel, ICEICE – 2010 Coimbatore, India.
4. Speed-Improvement of Fractal Image Encoding, International conference on Trends & Advances in Computation and Engineering (TRACE-2010) Bhopal, (India).
5. Different Spreading Codes on DS-CDMA System in Multipath Fading", International Conference of Emerging Trends In Engineering And Technology, First impression : 2010, pp. 613- 616, ISBN : 978- 93-80697-22-2. Oct 14-16-2010, Nagpur (India).

National Conferences

1. A Study of Mobility Aware Sensor-MAC Protocol for Wireless Sensor Networks", National Conference on VLSI Embedded Systems, Signal Processing and Communication Technologies, Bhopal (India), March 2010.
2. Energy Technologies for the 21st Century- The role of Renewable energy, National Conference on Efficient conversion of new & Renewable Energy for Electricity and Fuel, Bhopal (India), 22-23 December 2008.
3. The System Design and Modeling Using Mix-Signal & Mix-Technology, with VHDL-AMS", Recent Trends in Signal Processing & Design, GGITM Bhopal with IEEE M.P. Subsection, 18 Nov to 20 Nov. 2011.



MEMBERSHIP, PROFESSIONAL AFFILIATION & ACTIVITIES

1. Associate Member of UACEE (Universal Associate of Computer & Electronics Engineers) International Association of Engineers) California (CA 93105), USA, Membership No. : AM1004291.
2. Member of IAENG (The International Association of Engineers) Hong Kong, Membership No.132472.
3. Editorial Board Member for International Journal of Electronics Communication and Computer Engineering(IJECCE), ISSN : 2249-071X.
4. Reviewer Board Member for International Journal of Image Processing (IJIP), CSC Journals, Kuala Lumpur, Malaysia, ISSN (Online)- 1985-2304.
5. Reviewer Board Member for International Journal of Engineering Research & Applications (IJERA), ISSN : 2248-.9622.
6. Editor Board Member for IJTRA (International Journal of Technical Research and application), ISSN No.:2321-7322 (Print).
7. Editor Board Member for IJAIM (International Journal of Artificial Intelligence and Mechatronics), ISSN No.:2320-5121 (Print).
8. Editor Board Member for IJEST (International Journal of Engineering Science & Technology), ISSN No.:2278-9510 (Print).
9. Editor Board Member for IJACR (International Journal of Advanced Computer Research),ISSN : (Print) : 2249-7277,ISSN : (Online):2277-7970.
10. Mission10X Learning approach (MxLA) practitioner.
11. Wipro certified Teacher & Trainer.
12. MATLAB Trainer.

LIST OF TRAINING PROGRAM, WORKSHOP, STP, FDP ATTENDED/ORGANIZED

Workshop/ FDP/ STP Organized

1. Conducted two week workshop (Under IIT kharagur and NMEICT) on Analog Electronics as Workshop coordinator at remote center SIRTE, Bhopal from 04.06.2013 to 14.06.2013.
2. Conducted two week workshop (Under IIT kharagur and NMEICT) on Signals & Systems as Teaching assistant at remote center SIRTE, Bhopal from 02.01.2014 to 12.01.2014.
3. Conducted two week workshop (Under IIT kharagur and NMEICT) on Control System as Teaching assistant at remote center SIRTE, Bhopal from 02.12.2014 to 12.12.2014..

Workshop/ FDP/ STP Attended

1. Attended 2 week Industrial Training from BHEL, Bhopal from 05.08.1999 to 18.08.1999.
2. Attended 2 months industrial Training from Reliance telecom limited, Indore from 08.05.2004 to 08.07.2004.
3. Attended 1 week AICTE sponsored FDP in **VLSI design** from CRISP, Bhopal from 04.08.2008 to 08.08.2008.
4. Attended 1 week ISTE and Wipro sponsored workshop **Mission 10x Workshop** from 30.05.2011 to 03.06.2011.
5. Attended 1 week ISTE and Wipro sponsored workshop **Mission 10x Learning approach certificate** from 18.08.2011 to 19.08.2011.
6. Attended 2 week AICTE sponsored FDP on Wavelet Transform and its Applications from 04.06.2012 to 16.06.2012.
7. Attended 2 week workshop sponsored by ISTE and IIT-Mumbai on Research Methodology from 25.06.2012 to 04.07.2012.
8. Attended 2 week workshop sponsored by ISTE and IIT-Mumbai on Akash for Education from 10.11.2012 to 11.11.2012.
9. Attended 1 day workshop on Management fund by N Raghuraman on 08.12.2012.
10. Attended 1 week Coordinators Workshop on Analog Electronics sponsored by IIT Kharagpur and ISTE during 01.04.2013 to 05.04.2013.
11. Attended 2 week workshop sponsored by ISTE and IIT-Mumbai on Database Management System from 21.05.2013 to 31.05.2013.
12. Attended TEQIP II STP on Fundamentals and Applications of Wireless communication organized by SGSITS, Indore and NPIU from 27.01.2014 to 31.01.2014.
13. Attended TEQIP II STP on Analog & Mixed Signal System Design organized by SGSITS, Indore and NPIU from 27.01.2014 to 31.01.2014.

AWARDS & ACCOLADES

1. Srijan- 2015 award winner as subject teacher for best result in the university in the subject : Cellular & Mobile communication jointly organized by Sister nivedita trust and MPCST Bhopal.
2. Secured Merit position in TechGuru- 2017 award jointly organized by Confederation of Indian Industry (CII) and SisTec, Gandhinagar, Bhopal.
3. Employee of the month award as faculty member in SIRT-Excellence, Bhopal for performance in teaching, R&D and overall activities.
4. Winner of state level painting competition.
5. Winner of many poster and painting competitions at school and college level.

PERSONAL DETAILS

Fathers name	Late. Shri M. P. Raut
Mothers Name	Mrs. Sumita Raut
Date of birth	01.09.1978
Gender	Male
Permanent address	House No. C-28 Kakda Abhinav Homes, Ayodhya Bypass Road, Bhopal (M.P)-462041, INDIA Contact : 09009255611, 09826673360

MY INTEREST

1. Photography
2. Lyrics writing.
3. Guitar playing.
4. Listening music.

“ REFERENCES

Dr. P. P. Bansod

Professor & Head, Biomedical Engineering, S.G.S.I.T.S., INDORE | INDIA

@ ppbansod43@gmail.com

☎ +91-9406822037

Dr. R. S. Gamad

Professor & Head, Electronics & Instrumentation Engineering, S.G.S.I.T.S., INDORE | INDIA

@ rsgamad@gmail.com

☎ +91-9424584695

Dr. J. S. Yadav

Professor, Electronics & Communication, M.A.N.I.T., BHOPAL | INDIA

@ jsy1@rediffmail.com

☎ +91-9827340771

I hereby declare that above information are true to best of my knowledge & belief.

Yudhishtir Raut

Date :

Place :