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	<p>Savitribai Phule Shikshan Prasarak Mandal's</p> <h1 style="color: red;">N B NAVALE SINHGAD COLLEGE OF ENGINEERING</h1> <p>(Approved by AICTE & Affiliated to Solapur University, Solapur)</p>	 <p>CGPA - 3.12 / 4.00</p>
	<p style="text-align: center;">Dr. SHANKAR DATTATRAY NAWALE</p> <p>PRINCIPAL, M. Tech., Ph. D. (E&TC Engg.), Post-Doctoral Fellow-France</p> <p style="text-align: center;">✉ principal.nbnscoe@sinhgad.edu, shankarnawale125@gmail.com</p> <p style="text-align: center;">☎ +91- 8380025651, 9224350121</p>	
Profile Summary	<ul style="list-style-type: none"> • Post-Doctoral and Doctoral Research at France and Italy respectively, under Erasmus Mundus scholarship, funded by European Commission • Working as approved Principal at NBN Sinhgad College of Engineering, Solapur (Institute Accredited by NAAC with Grade 'A', CGPA 3.12/4, in August 2018) • Former Dean, Faculty of Science and Technology, PAH Solapur University, Solapur • Having Experience of Academic Administration in the capacities as Principal, HoD, PG Coordinator, Exam cell Incharge, etc. • As a HoD of E&TC Engg., at SIT Lonavala, department got accreditation by NBA • Ability to work with limited resources to get optimum solution • A Dedicated research scholar in the area of UHF RFID Passive Tag and its applications • A highly motivated individual and always endeavoring to learn and upgrade the skills • Having Personal tie-ups with the European Universities • Visited Foreign Countries like Italy, France, Spain, Switzerland, Malaysia, etc, for the research and symposium work • Delivered more than 200 invited talks at Conferences, Workshops and Lecture series • Presented as, Educational counselor and motivational speaker • Played key role for developing Project Based Learning environment at the college and also delivered expert talks and presentations on these activities • Has been a teacher in area of Microwave Engineering, Antennas, and Wave Propagation • A consistent performer with high academic score, throughout the educational career • Have attended more than 30 training workshops and acquired technical skills related to areas of specialization • Having Personal Liaisons with industries like Jio, SAMEER, DRDL, ISRO, Infosys, etc. • Had been a Reviewer for 8 Ph.D. and 50 Master's Thesis • Reviewer of 20 IEEE Journal/Conferences Papers • Sincere, Dedicated and Hardworking Individual 	

Educational Details	Institute / University Name	Passedout Year	Degree	Remark
	LCIS Lab, ESISAR, Grenoble-INP, Valence, France	2014	Post-Doctorate	Completed
	VJTI, Mumbai University, MS, India	2013	Ph. D. (E & TC Engg.)	Awarded
	VJTI, Mumbai University, MS, India	2008	M. Tech. (E & TC Engg.)	CPI - 8.2
	Dr. BAMU, Aurangabad, MS, India	2000	B. E. (E & TC Engg.)	70.93 %
	Govt. Poly. Pune, MS, India	1997	Diploma (E & TC Engg.)	72.92 %
	M. S. Board, Pune Division, MS, India	1995	H. S. C.	72.83 %
	M. S. Board, Pune Division, MS, India	1993	S. S. C.	83.28 %

Total Experience : 23 Years and 3 Months

Teaching Experience	<p>Institute: N B Navale Sinhgad College of Engineering, Kegaon, Solapur From: 2014-11-13 Total Experience: 8 years 10 months</p>	<p>Designation: Professor and Principal To: 2023-09-10 Approved: Yes</p>
	<p>Institute: Sinhgad Institute of Technology, Lonavala, Pune From: 2007-06-26 Total Experience: 7 years 5 months</p>	<p>Designation: Associate Professor and HoD E&TC Engg. To: 2014-11-12 Approved: Yes</p>
	<p>Institute: Bharati Vidyapeeth's College of Engineering, Navi Mumbai From: 2000-06-15 Total Experience: 7 years 0 months</p>	<p>Designation: Lecturer To: 2007-06-25 Approved: Yes</p>
	<p>Roles and responsibilities handled in Teaching:</p> <ul style="list-style-type: none"> Started the 'Project Based Learning' (PBL) Environment through the concepts such as 'Lab Innovation', 'Students Presentations', 'Soft Skill Training' and 'Value Addition Program' and Industrial Training Improved the overall teaching-learning environment through well planned academic calendar, Systematic planning weekly module, Personality development and soft skill training for all students, Code of Conduct for students to maintain the discipline in the institute, Timely and transparent Continuous Assessment Scheme, Effective Teacher Guardian Scheme, Personal interaction and counseling of students, etc. Created an atmosphere for inter disciplinary research & outcome oriented project and Product Development Cell. Also provided Scholarships for Innovative projects Improved and modified the infrastructure and facilities, to provide the conducive academic environment and to incorporate PBL Model Increased the additional fund through consultancy or sharing of infrastructure Improved number of admissions in last two academic years Played instrumental role to build the overall positive image of the institute in society and Media, as well. Started Entrepreneurship Development Cell, Alumni Cell, Industry Academia Cell, Career Guidance and Higher Studies Cell and IQAC Cell, Institute Innovation Council, Student 	

	<p>Development and Career Counseling Cell, etc.</p> <ul style="list-style-type: none"> • Boosted the confidence of the students through the well planned activities through T&P Cell, which has reflected in the placements of the students. • Established the 'Center for Research and Technology Development' (CRTD), for the inculcating the research culture at the institute • Provided the exposure for fifteen teaching staff, as well as seventeen students, to visit the foreign Universities either for teaching purpose or for internship, respectively. • Boosted the confidence amongst the students to participate at National Level Co-curricular (Academic and Technical) and extra-curricular competitions (Sports and Cultural). This have been reflected with very good results at all level • Students won prizes at National Level Technical competitions such as Smart India Hackathon, Go-Cart, Robocon, IIT-Techfest, COEP Project Conclave and different project competitions and shown meritorious performance by winning the prizes. • Major Events Organized by the Institute are: <ul style="list-style-type: none"> • Hosted '12th and 15th Youth Festival' of PAH Solapur University, Solapur • A Multi-Mega Event on "Innovative Technologies for Rural Development and Their Commercialization", (ITRDC-2017) in Collaboration with CRTD and Bhabha Atomic Research Center (BARC) • More than 48 MoU's Signed with the reputed Industries/Organizations. • Established 'Center for Cloud Physics' in Collaboration with Indian Institute of Tropical Meteorology, Ministry of Earth Science, Govt. of India • Major Achievements of NBNSCoE are: Institute is accredited by NAAC with Grade 'A' (CGPA 3.12/4), Institute has received 'A++' Grade (93.33 %) in AAA by PAH SU Solapur, Institute is Recognized by 'Atal Ranking of Institution for Innovation Achievement' by Govt. of India's Ministry of Education (in band 51-75) in 2020, Institute Innovation Council (IIC) of the College has received 4.5/5.0 Star Rating by AICTE New Delhi and MoE's Innovation Cell in 2019-20, Received Best College Award by PAH Solapur University Solapur in 2023, Received Best Principal Award by PAH Solapur University Solapur in 2023
Research Experience	<p>Total Experience : 8 Years and months</p> <p>Major Roles and Responsibilities Handled in Research:</p> <ul style="list-style-type: none"> • Completed Post-Doctoral Research, from Grenoble University, France • Carried out part of Ph.D. research at University of Rome, Italy • One of the four Researchers from all over India, who have been invited under European Commission Fellowship for Post-Doctoral Research in 2014 • One of the receipt of Erasmus Mundus Scholarship for his part of Ph. D. Research at Italy in 2010 • Research lies in passive RFID Tag and its applications for Environmental Sensing, as well as Electromagnetic Energy Harvesting • Done Ph. D. from Veermata Jijabai Technological Institute (VJTI), Mumbai • Represented research lab at 'COST Research Forum' in France • Received Grant from Dept. of Science & Technology, Govt. of India, under Young Scientist category • Received Research grant from BCUD, University of Pune • Published 40 Research Papers at International Peer reviewed Journals and Conferences • Published three Books on RFID Security Algorithms • Visited almost 20 Countries for Research, Conference or Symposium Purpose • Had been Resource Person for more than 200 Workshops and Conferences, throughout India

	<ul style="list-style-type: none"> • Had been a Consultant for IGNOU, New Delhi for Curriculum Design of E&TC Engg. • Actively involved for incorporating 'Project Based Learning' model in Engineering Education • Convenor for Workshop on 'Opportunities in Electronic Sector of Design and Manufacturing' in Collaboration with DIET, Govt. of India • Coordinated the Satellite Image Processing Projects for ISRO, Bangalore • Coordinated the the activities under Indo-US Collaboration for Engineering Education • Member of professional bodies like ISTE, IETE and IEEE • Reviewer of the journals like IEEE, Springer, Wiley and Cambridge press • One of the paper was awarded as a best paper with price of 400 Euro, in Germany in 2014 • Have received total research grant of Rs. 35 Lakh from different Funding Agencies • Awarded with Best Participant Award at IIT, Kharaghpur in 2009 • Received 'Best Researcher Award' at 7th International Scientist Awards on Engineering, Science and Medicine, in 2020 • Had been a Reviewer for 8 Ph.D. and 50 Master's Thesis • Reviewer of 20 IEEE Journal/Conferences Papers
Area Of Interest	<ul style="list-style-type: none"> • RFID Passive Tags and its applications • Microwave Engineering • Micro-strip & Smart Antennas • Electromagnetic & Wave Propagation • Wireless communication • Wireless Sensor Network
Subjects Handled	
UG	\$ Microwave Engineering \$ Electromagnetic Engineering \$ Antenna and Wave Propagation \$ Network Theory \$ Electronic Devices and Circuits \$ Digital Communication \$ Wireless Communication
PG	\$ Mobile Computing \$ Microwave Amplifier and Oscillator Design \$ Microwave Integrated Circuits
Research And Guidance	
Number of PG Students Guiding / Guided	8
Number of PhD Students Guiding / Guided	8

Invited as
Resource
Person/ Expert/
Evaluator

- Delivered an Expert Lecture at VJTI, Mumbai in AICTE Sponsored One week QIP
- Key Note Speaker, at Dept. of Technology, Shivaji University, in the workshop on Microstrip Antennas and their Applications
- Invited as a Chief Guest at STB College of Engineering, Tuljapur
- Invited Speaker for STTP at Thakur College of Engineering and Technology, Mumbai
- Resource Person for Three Days Workshop K J College of Engineering, Pune
- Chief Guest at WIT, Solapur for the Valedictory function of Two days' Workshop on IoT
- Chief Guest at Swami Vivekanand Institute of Technology, Solapur
- Invited Speech at Vidyalankar Institute of Technology, Mumbai.
- Motivational Speaker and Educational Councilor at HRM, Institute, Delhi
- Workshop at Asia Pacific Institute of Information Technology, Panipat, Hariyana.
- Session Chair of National Conference at Sinhgad College of Engineering, Pune
- Short Term Training Programon "Microwave Engineering" at Marathwada Institute of Technology, Aurangabad.
- Chief Guest at Faculty Development Program at Javahar Institute of Tech., Nashik
- Short Term Training Program at Pillai's HOC College of Engineering, Rasayani
- National Conference at Vidyalankar Institute of Technology, Mumbai
- Faculty Development Program at Sinhgad Engg. College, Pandharpur
- National Conference at Masters in Computer Applications, Pandharpur
- Educational Councilor at SNDT, College of BioTechnology, Malegaon
- Workshop on Lyx, at Sinhgad Institute of Technology, Lonavala
- Invited speech at Bharati Vidyapeet's College of Engineering at, Navi Mumbai
- Conference at Vidya Pratishthan College of Enginnering, Baramati, Pune
- National Conference at A.G. Awate College of Engineering, Hadpasar, Pune
- Invited speech at Terna College of Enginering, Nerul, Navi Mumbai
- Invited speech at Anjuman Islam Polytechnic, Navi Mumbai
- Invited Speech at Dream Foundation Career Guidance Program at Solapur
- Chief Guest at Program held by Yashwant Shaikshnik Samiti, Solapur
- KeyNote Speaker at Career Mahayatra organized by Rotary Club of Beed
- Speaker at the Program on Career Guidance organized by Solapur Municipal Corporation, Solapur
- Invited as a guest at "Coffee with Sakal" organized by Sakal Media Group, Solapur
- Chief Guest at SES Polytechnic, Solapur on the occasion of Engineers Day
- Chief Guest for the inaugural Function of TechnoSiddh-17, at SSWP, solapur
- Guest of Honor and Key Note Speaker at National Conf. at Modern Education Societie's Wadia College of Engineering, Pune
- Chief guest for the inauguration of Project Competition at SVIT, Solapur
- Guest at the Principal's Meet organized by Sakal Media Group
- Invited as the Speaker at Bharati Vidyapeeth's AKIMSS, Solapur
- Chief Guest at Installation Ceremony of CSI Solapur Chapter at AKIMSS, Solapur
- Inaugural Speaker at AKIMSS's NSS Activity Camp, Solapur
- Technical Speaker at the Career Guidance Program, organized by G. P. Solapur
- Keynote Speaker for TEQIP Funded Two days Workshop at Department of Technology, Kolhapur
- Keynote Speaker at Two Days National Conference on "Innovations & Developments in Computational and Applied sciences" held at MIT, Alandi
- Delivered two sessions at Faculty Development Program on "Roadmap to reform in

	<ul style="list-style-type: none"> • Delivered a session on 'Constituent College' organized by PAHSUS on 07/11/2022 • Delivered a session on Importance of Science Education on 24/03/2023 at "National Avishkar Movement 2023" organized by DIAT, Education Department, Govt. of Maharashtra • Guest Speaker for AICTE Sponsored One Week Online STTP on "Telecommunication Network Phase-III" organized by VIT Mumbai during 13th to 18th Sept. 2021 • Guest Speaker for AICTE Sponsored One Week Online STTP on "Telecommunication Networks" organized by VIT Mumbai during 3rd to 8th May 2021 • Guided the students of AISSMS College of Engg. Pune on the topic "Engineering Graduates- A Road Map" on 3rd October 2020. • Reviewed Articles in the "International Conference on Intellegent Computing in Information Tech. for Engg. System" (ICICITES) organized by SKNSCOE Pandharpur during 25-26 June 21 • Session Chair at International Conference on Computational Intellegence in Engineering Systems (ICCIES-21) organized by SKNSCOE Pandharpur on 26th June 21 • Session Chair at International Conference on "Recent Trends in Image Processing and Pattern Recognition (RTIP2R), organized by PAH Solapur University on 21/12/2028 • Invited as Academic Advisor for National Cyber Safety and Security Standards, New Delhi • Chaired One day workshop on Syllabus Setting and Structure Design on Behalf of BoS E&TC Engg., PAHSUS on 7th June 2021 • Chairperson of Plenary Session at S S Damaji Mahavidyalay, Mangalvedha in the National Conference on "Recent Trends in Humanities, Commerce & Mngt. and Science" 19th March 23 • And Many More
Total Journal Paper Publications	18
Total Conference Paper Publications	15
UGC Approved	20
Scopus Indexed	16
SCI Indexed	15
Detailed Journal Publication list	<ol style="list-style-type: none"> 1. S. Manzari, C. Occhiuzzi, S. Nawale, A. Catini, C. Di Natale, and G. Marrocco, "Humidity Sensing by Polymer-Loaded UHF RFID Antennas", <i>IEEE Sensors Journal</i>, Vol. 12, No. 9, Sept. 2012, pp:2851-2859

- Harmonic Energy Harvesting in Passive UHF RFID," in IEEE Microwave and Wireless Components Letters, vol. 25, no. 9, pp. 627-629, Sept. 2015, doi: 10.1109/LMWC.2015.2451391.*
3. S. Nawale, G Andia-Vera, Y.Duroc, S. Tedjini, "Exploitation of the nonlinearities in electromagnetic energy harvesting and passive UHF RFID", *Wireless Power Transfer, Cambridge University Press, Volume 3, Issue 1, March 2016, pp 43-52*
 4. Shankar Nawale, G Andia-Vera, Y. Duroc, S. Tedjini, "Non-linear Exploitation in Passive UHF RFID and Energy Harvesting: Power Dependency and Harmonic Generation", *IEEE Transactions on Microwave Theory and Techniques, Vol. 63, Issue 8, Aug 2015, ISSN: 0018-9480, pp 2672-2679*
 5. S. D. Nawale, N.P. Sarwade, D.K. Singh, "Design of UHF Micro-strip Antenna for Passive RFID Tag", *Journal of Advances in Engineering and Sciences, January-June 2012, ISSN 0973-9041, pp:77-84*
 6. A. Bandal, S. Nawale, "RFID Security Using Lightweight Mutual Authentication And Ownership Transfer Protocol", *International Journal of Ad hoc, Sensor & Ubiquitous Computing Vol.3, No.3, June 2012, pp: 1-11*
 7. S. Shaikh, S. Nawale, "Secure Access of RFID System", *International Journal of Scientific & Engineering Research, Volume 3, Issue 8, August-2012, PP.870-873*
 8. Shankar D. Nawale, Gianfranco A. Vera, "Non-linear harmonic utilization of passive UHF RFID tag for Energy Harvesting", *IEEE Microwave and Wireless Components Letters, Issue 12, Dec.2014, pp: 884-886*
 9. Shankar D. Nawale, S. S. Shirgan, Jayendra Kumar, "Design of Compact High Frequency Micro-Strip Antenna", *International Journal of Enhanced Research in Science Technology & Engineering, Vol.-4, Issue-5, May 2015, pp: 118-122*
 10. S. D. Nawale, "UHF RFID Passive Tag for Humidity Sensing and Electromagnetic Energy Harvesting", *Souvenir of Innovative Technologies for Rural Development and Their Commercialization, February 2017, pp. 44*
 11. S. B. Biradar, S. D. Nawale, S. H. Pawar, "Bio-Engineered Silver Nano-particles for controlling oily spots disease of Pomegranate", *Innovative Technologies for Rural Developments (A Compendium of CRTD Events), Published by SPSPM, Sinhgad Institutes, Solapur, 2018, ISBN 978--93-5268-900-2*
 12. N. N. Neelamegam, P. S. Madole, A. Y. Negewan, S. D. Nawale, "Design of C-Band Microstrip Patch Antenna for RADAR applications", *Journal of Frontiers in Interdisciplinary Research and Technology Development (JFIRTD), Sinhgad- Fractol Publication, 2018*
 13. Sudha Surwase, Ravi Yadahalli, Shankar Nawale, "PIFA RFID Tag Antenna Design and Simulation using CST Microwave Studio", *International Journal of Science and Research, (ISSN: 2319-7064), Volume 7 Issue 10, October 2018, pp. 1018-1021*
 14. Shankar D. Nawale, Shashikant H. Lamkane, "Active Learning-Teaching Methodologies and Modern Assesment Techniques", *Indian Journal of Research, (ISSN 2231-6655), Special Volume 5, April 2019, pp 87-93.*
 15. S. J. Nandedkar, S. D. Nawale "Design and Performance Analysis of Linear Array", *International Research Journal of Engineering and Technology (IRJET) (e-ISSN: 2395-0056, p-ISSN: 2395-0072), Volume: 07, Issue: 04, Apr 2020, pp. 33-37*
 16. Sudha Surwase, Ravi Yadahalli, Shankar Nawale, "Design of Nested H slot Passive UHF RFID Tag", *International Journal of Engineering and Advanced Technology, ISSN: 2249-8958, Volume-10, Issue-1, October 2020, pp. 346-349*
 17. Shilpa Nandedkar, Shankar Nawale, "Frequency and space-diverse MIMO antenna with

	<p><i>Sci. Technol.</i>, 2023, 11(2), 482. URN:NBN:sciencein.jist.2023.v11.482, ISSN: 2321-4635</p> <p>18. Shilpa Nandedkar, Shankar Nawale, "Compact MIMO Microstrip Antenna for Wireless PAN" <i>International Journal of Electrical and Electronic Engineering & Telecommunications</i> Vol. 12, No. 1, January 2023, doi: 10.18178/ijeetc.12.1. pp. 53-59, ISSN: 2319 - 2518</p>
Detailed Conference Publication list	<ol style="list-style-type: none"> 1. S. D. Nawale, N. P. Sarwade, "RFID Vapor Sensor: Beyond Identification", <i>IEEE 2012 Sixth International Conference on Sensing Technology, CDAC, Kolkata, India, Dec 18-21, 2012</i> pp: 248-253 2. S. D. Nawale, N.P.Sarwade, "Variation in wireless-sensing of UHF-RFID Antennas with insertion of Dielectric material", <i>Progres in Electromagnetic Research Symposium, Kaulalumpur, Malasia, March 27-30, 2012</i>, pp: 206-209 3. S. D. Nawale, N.P.Sarwade "RFID: Beyond Identification", <i>2012 Proceedings of the 35th International Convention MIPRO, Croatia, May 21-25, 2012</i> pp 60-62 4. S.Manzari, C. Occhiuzzi, S. Nawale, A. Catini, C. Di Natale , and G. Marrocco, "UHF RFID Humidity Sensor Tag Based on Hygroscopic Polymeric Load", <i>6th IEEE European Conference on Antennas and Propagation (EUCAP), Czech Republic, 26-30 March 2012</i>, pp:3030-3033 5. S.Manzari, C .Occhiuzzi, S. Nawale, A .Catini, C .D iNatale , and G. Marrocco, "Polymer-Doped UHF RFID Tag for Wireless-Sensing of Humidity", <i>IEEE International Conference on RFID (RFID 2012), April 3-5, 2012, Orlando, Florida, USA</i>, pp: 124-129 6. S. D. Nawale, M.B. Sayyad, N.P. Sarwade, S. L. Nalbarwar, "Telecom Convergence using IP Multimedia Subsystem (IMS)" <i>Silver Jubilee Conference on Communication Technologies and VLSI Design (CommV 2009), VIT University, Tamilnadu, India 8-10/10/2009</i> pp: 415-416 7. Nawale S. D., Bhosale S. J., "Design of Microwave Wideband Inter-digital Filter" <i>International Conference on Emerging Technologies and Applications in Engineering , Technologies and Sciences, Saurashtra University, Rajkot, India, 13-14 January,2008.</i> 8. G. A. Vera, S. D. Nawale, Y. Duroc and S. Tedjini, "Optimum integration of passive UHF RFID tag-rectenna in a single feed dual band antenna," <i>2014 XXXIth URSI General Assembly and Scientific Symposium (URSI GASS), 2014</i>, pp. 1-4, doi: 10.1109/URSIGASS.2014.6929450. 9. G. Andia Vera, S. D. Nawale, S. Tedjini and Y. Duroc, "Passive UHF RFID backscattering for indoor lighting control," <i>2014 Annual IEEE India Conference (INDICON), 2014</i>, pp. 1-4, doi: 10.1109/INDICON.2014.7030472. 10. P. Mhatre, R. Duche, S. Nawale and P. Patil, "RF power harvesting system for RFID applications in multiband systems," <i>2015 6th International Conference on Computing, Communication and Networking Technologies (ICCCNT), 2015</i>, pp. 1-5, doi: 10.1109/ICCCNT.2015.7395226. 11. Sudha Surwase, Ravi Yadahalli, Shankar Nawale, "Design of Passive UHF RFID Tag", <i>5th IEEE International Conference for Convergence in Technology, (I2CT), Pune, March 27-29, 2019</i> 12. S. J. Nandedkar, S. D. Nawale and A. Kulkarni, "Comparison of Feeding Techniques for EMCP Array Antenna," <i>2021 IEEE International Conference on Emerging Smart Computing and Informatics (ESCI), 2021</i>, pp. 423-426, doi: 10.1109/ESCI50559.2021.9396967. 13. S. D. Nawale and P. P. Konapur, "Blockchain & IoT based Drug Traceability for Pharma

Industry," 2021 IEEE International Conference on Engineering, Technology and Innovation (ICE/ITMC), 2021, pp. 1-4, doi: 10.1109/ICE/ITMC52061.2021.9570251

14. R. R. Konapure and S. D. Nawale, "Smart Contract System Architecture for Pharma Supply chain," *2022 International Conference on IoT and Blockchain Technology (ICIBT), 2022, pp. 1-5, doi: 10.1109/ICIBT52874.2022.9807744.*

15. N. A. Lakade, S. D. Nawale, *Design of Sunflower Shaped Dual Band Antenna for RF Energy Harvesting Application, 66th Annual IETE Convention (AIC) -2023 organized by IETE Pune, 16-17 September 2023, Paper ID 98*

Detailed List of Books Published

1. Books:
2. S. H. Pawar, S. D. Nawale, R. K. Singh, *Innovative Technologies for Rural Developments (A Compendium of CRTD Events)*, Published by SPSPM, Sinhgad Institutes, Solapur, 2018
3. A. Bandal, S. Nawale, *RFID Security Using Lightweight Mutual Authentication And Ownership Transfer Protocol*, Lap Lambert Academic Publishing, International Edition, ISBN: 978-3659218330, August 2012
4. S. Nawale, S. Shaikh, *Secure Access of RFID System*, Lap Lambert Academic Publishing, International Edition, ISBN: 978-3659229398, August 2012
5. Book Chapter:
6. Shilpa Nandedkar, Shankar Nawale, and Anirudha Kulkarni, *Parametric Study of electromagnetic Coupled MSA Array for PAN Devices with RF Survey*, 'Advances in Intelligent Systems and Computing Volume 1354, Applied Information Processing Systems Proceedings of ICCET 2021' (6th International Conference on Computing in Engineering and Technology), Aug-21, ISBN 978-981-16-2007-2, ISSN 2194-5357, Springer
7. Vaishali R Shinde, Shankar D. Nawale, Shivaji H. Pawar, *Estimation of Antioxident Capacity of Medicinal Plants by Cyclic Voltametry*, 'Nanotechnology Applications in Medicinal Plants and Their Bionanocomposites: A New Perspective in Ayurvedas' to be published by cambridge scholar press, UK in August 2023
8. I M Chandarki, B. B. Singh, S. D. Nawale, *Role of Knowledge Engineering in an Organization, NEP 2020 and its Impact on Quality in Higher Education – A progressive Step Towards Excellence* published by Sindhi College in association with NAAC Bangaluru, pp: 10-16, ISBN: 978-93-5779-945-4
9. Editor:
10. S. H. Pawar, S. D. Nawale, I M Chandarki, *Journal of Frontiers in Interdisciplinary Research and Technology Development (JFIRTD)*, Sinhgad- Fractol Publication, 2018

FDP/STTP/Workshop Attended: 15

Sr.No	Title	Organized by	Dates from to	Duration in Weeks/ Days
1	Awareness on Outcome Based Education and Accreditation	NBA, DTE-MS and CoE Pune	2020-11-27 to 2020-11-27	
2	Ancient Indian Education System	NITTR Kolkata	2020-11-11 to 2020-11-12	1 day

3	Education and Digital Era	School of Computational Sciences of PAH Solapur University Solapur	2020-08-28 to 2020-08-28	
4	Revised Accreditation Framework of NAAC	IQAC of PAH Solapur University Solapur	2020-07-27 to 2020-07-27	
5	Patent Prosecution Challenges and Strategies in India	Frontier Legal and Turnip Innovations	2020-07-25 to 2020-07-25	
6	Transforming Education Through Global Collaboration –The Roadmap	Sinhgad Institute of Management, Pune	2020-07-15 to 2020-07-17	2 days
7	Self Awareness : Tool for Self Development	ITM-SIA Business School Mumbai	2020-06-17 to 2020-06-17	
8	How to Publish a High Quality Technical Journal Paper	Institute for Electrical and Electronic Engineering IEEE	2020-04-20 to 2020-04-20	
9	NAAC Accrediation Management System Demo	Inpods	2020-05-20 to 2020-05-20	
10	New Higher Education Policy and Digitization of Education	DBATU Lonere	2020-05-17 to 2020-05-17	
11	Promoting Quality Culture in Technical Education	AISSMS COE	2020-05-25 to 2020-05-29	4 days
12	Changes in Higher Education & Role of NAAC: Post Covid19	IQAC, PAHSUS	2020-06-10 to 2020-06-10	
13	Chanakya and Modern Education	SkillSlate	2020-06-11 to 2020-06-11	
14	Leadership and Governance from NBA Perspective	RIT, Islampur & GEDC India	2020-06-23 to 2020-06-23	
15	GER in Education and Developing Countries	IQAC, PAHSUS	2020-06-29 to 2020-06-29	

Other Activities

Achievements & Awards	<ol style="list-style-type: none"> 1. Member of Institute of Electrical and Electronics Engineering (IEEE), (No. - 91145534) 2. Life Member of The Institution of Electronics and Telecommunication Engineers (IETE), (No. M-215200) 3. Life Member of The Indian Society for Technical Education (ISTE), (No. LM 41166) 4. Member of Maharashtra State Green Army (No. SO/2017/Ind/317028) 5. Life Member of Maharashtra Sahitya Parishad, Solapur (30/12/2015)
Professional Memberships	<ol style="list-style-type: none"> 1. Best Principal Award by PAH Solapur University, Solapur on its 19th Foundation Day, held on 1st August 2023. 2. Best College Award by PAH Solapur University, Solapur on its 19th Foundation Day, held on 1st August 2023.

	<p>chapter, in November 2022</p> <ol style="list-style-type: none"> 4. Received Adarsh Seva Sanman Puraskar by daily Tufan Kranti on 20/03/2022 5. Received Best Researcher Award in 7th International Scientist Award on Engineering, Science and Medicine in 2020 6. Awarded as 'Excellence in Education' at Solapur Shikshak Parishad in December 2018 7. Awarded with "Dr. APJ Abdul Kalam Teacher Inspire Award", by Dreams Foundation, Solapur on 5th Sept, 2015 8. Awarded with Best Participant Award at IIT, Kharaghpur in 2009 9. One of the four Researchers from all over India, who have been invited under European Commission Fellowship for Post-Doctoral Research 10. Paper was awarded as a best paper with the price of 400 Euro, in Germany 11. Received total research grant of Rs. 35 Lakh from different Funding Agencies 12. Received Adarsh Seva Sanman Puraskar by daily Tufan Kranti in 2022 for contribution in Education Field 13. Visited almost 20 Countries for Research, Conference or Symposium Purpose 14. Former I/c Dean, Faculty of Science & Technology, PAH Solapur Univrsity, Solapur from Sept. 2020 to May 2023 15. Former Member, SENATE at PAH Solapur Univrsity, Solapur 16. Former Member, Academic Council at PAH Solapur Univrsity, Solapur 17. Former Member, Management Council at PAH Solapur Univrsity, Solapur 18. Former Chairman, Board of Studies in E &TC Engg., at PAH Solapur University, Solapur 19. Member, Board of Studies in Electronics, E&TC and Biomedical Engg. at Dr. BATU Lonere 20. Worked as a member for one of the very prestigious organization of Govt. of India
Major Projects Handled	<ol style="list-style-type: none"> 1. Post-Doctoral research: At LCIS Lab, ESISAR, Grenoble-INP, Valence, France (1st Jan-14 to 31st Oct-14). Research Topic: Electromagnetic Energy Harvesting in Passive UHF RFID tag 2. Part of PhD research at University of Rome, Tor-Vergata, Italy (From 01/09/2010 to 28/02/2011). Research Topic: Environmental Wireless Sensing based on UHF RFID Passive Tag integrated with Conductive Polymer.

	<p>3. M. Tech. Project: At Veermata Jijabai Technological Institute, Mumbai (July06-June 08). Title: 'Design of Microwave Inter-digital Waveguide Filter at S-Band Frequency"</p> <p>4. Sponsored Research Project: Funded by BCUD, Univrsity of Pune (A.Y. 2011-13). Title: Design and Implementation of Dual Band Miniaturized Microstrip Filter for GSM and CDMA applications.</p> <p>5. CONSULTANCY WORK: To design Course structure and syllabus for B.Tech. Electronics and Telecommunication Engineering. Sponsoring Authority: Indira Gandhi National Open University (IGNOU), Delhi, India in 2009.</p> <p>6. Secretary, Innovative Technologies for Rural Development and their Commercialization (ITRDC-2017) (A Multi-Mega Event) with Emphasis on Renewable Energy and DAE Technologies) organized in Collaboration with, BARC Mumbai, 18th-20th February, 2017</p> <p>7. Organizing Chair for 12th Youth Festival (9th-12th Oct, 2015) and 15th Youth Festival (20th – 23rd October 2018) of Solapur University, Solapur</p> <p>8. Convener for One day workshop on "Opportunities in Electronics Sector of Design and Manufacturing (ESDM)", in Collaboration with DiET, Ministry of Information Technology, Govt. of India.</p> <p>9. Coordinated the projects on Satellite Image Processing with Indian Space Research Organization (ISRO), Bangalore</p> <p>10. Established Research Center for Cloud Physics Research by IITM Pune, Min. of Earth Science, Govt. of India</p>
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