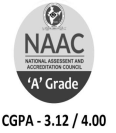




Savitribai Phule Shikshan Prasarak Mandal's  
**N B NAVALE SINHGAD COLLEGE OF ENGINEERING**  
*(Approved by AICTE & Affiliated to P. A. H. Solapur University, Solapur)*



**CURRICULAM VITAE**



**Mrs. Sunita Pradeep Sagat**

Assistant Professor, PhD(persuing),  
 ME  
 (Electronics),BE  
 (E&TC)

✉ [spsagat.nbnscoe@sinhgad.edu](mailto:spsagat.nbnscoe@sinhgad.edu) ☎ 7447299042

**Educational Details**

Institute / University Name	Passedout Year	Degree	Remark
AISSMS's IOIT Research Center, Pune		PhD	Persuing
Sinhgad College of Engineering, Pune	2008	M.E. (Electronics)	65% (First Class)
MKSSS's Cummnis College of Engineering, Pune	2000	B.E. (E&TC)	57% (Higher Second Class)
Sir Parshurambhau College, Pune	1996	HSC	69% (First Class)
Shivaji Maratha Society's Jijamatha Girls Highschool	1994	SSC	89.14%

**Area Of Interest**

- Embedded Systems, Reconfigurable Computing, Internet of Things

**Subjects Handled**

**UG**

- Electronic Devices & Circuits, Electronic Circuit Analysis & Design, Audio Video Engineering, Mobile Communication, Satellite Communication, Data Analytics, Wireless Sensor Networks, Microprocessor & Microcontrollers, Basic Electronics

**PG**

- Wireless Communication, Advanced Light Wave Communication, Advanced Embedded Systems, Optical Communication, Optical Networks

**Research And Guidance**

**Number of PG Students Guiding / Guided**

11

<b>Invited as Resource Person/ Expert/ Evaluator</b>	<ul style="list-style-type: none"> <li>• Invited as a Judge for Circuit Building Competition in DISTA-2K17 at Dept. of Electrical Engineering</li> <li>• Invited as a Subject Expert in the interview panel of UGC at BIGCE , Solapur for Solapur University in 2015</li> <li>• Subject Expert in the interview panel of UGC at VVPIET, Solapur University in 2011</li> </ul>
<b>Total Journal Paper Publications</b>	16
<b>Total Conference Paper Publications</b>	8
<b>Detailed Journal Publication list</b>	<ol style="list-style-type: none"> <li>1. <i>Implementation of NOMA for 5G, International Research Journal of Education and Technology, Sept. 2021, ISSN 2581-7796</i></li> <li>2. <i>Image Enhancement of Low Resolution Satellite Image Based on Texture &amp; Morphological Features, International Research Journal of Education and Technology, Aug. 2021, ISSN 2581-7795</i></li> <li>3. <i>Frequency Spectrum Sensing and SNR Threshold Detection, International Journal of Engineering and Techniques, Feb. 2021, ISSN 2395-1303</i></li> <li>4. <i>Frequency Spectrum Sensing and SNR Threshold Detection, International Research Journal of Education and Technology, Feb. 2021, ISSN 2581-7795</i></li> <li>5. <i>Leaf Disease Recognition Using Deep Neural Network, International Journal of Creative Research Thoughts, Oct.2020, ISSN 2320-2882</i></li> <li>6. <i>Leaf Disease Recognition Using Deep Neural Network, International Journal of Scientific Research in Engineering and Management, Oct.2020, ISSN: 2582-3930</i></li> <li>7. <i>High Resolution Meteorological Parameters Measurement and Analysis For Quality Weather Forecasting, International Journal of Engineering Research and Applications ,Oct.2020, ISSN 2248-9622</i></li> <li>8. <i>High Resolution Meteorological Parameters Measurement and Analysis For Quality Weather Forecasting, International Research Journal of Education and Technology, Oct. 2020, ISSN 2581-7795</i></li> <li>9. <i>Segmentation of Thoracic and Abdominal Anatomy using Multi Atlas Approach, International Journal of Innovative research in Technology, Sept. 2019, ISSN: 2349-6002</i></li> <li>10. <i>Image Enhancement of Low Resolution Satellite Image based on Texture and Morphological Features, International Journal of Computer Applications, Sept. 2018, ISSN 0975 – 8887</i></li> <li>11. <i>Implementation and analysis of Convolutional codes over AWGN channel, International journal of Innovative Research in Technology, July 2019, ISSN: 2349-6002</i></li> <li>12. <i>Performance Analysis of convolutional code and Turbo code based on BER, Journal of Emerging Technologies and Innovative Research, June 2019, ISSN 2349-5162</i></li> <li>13. <i>Automatic Detection of Abnormalities of Diabetic Retinopathy Images, International Research Journal of Engineering and Technology (IRJET), June 2016, ISSN: 2395 -0056</i></li> <li>14. <i>An Overview of Controlling Vehicle Direction Using Brain Rhythms, International Journal of Science and Research, March 2016, ISSN: 2319-7064</i></li> <li>15. <i>Activation or Security of Machine Using Voice Recognition System by MFCC, International Journal of Innovative Research in Electrical, Electronics, Instrumentation &amp; Control</i></li> </ol>

Engineering, June 2014, ISSN 2321 – 5526

16. A Reconfigurable Smart Sensor Interface For Industrial WSN In IOT Environment, International Journal of Innovative Research in Science & Engineering, Sept. 2014, ISSN 2394-8299

**Detailed Conference Publication list**

1. Development of Footstep Power Generation System, International Conference on Emerging Trends in Automation, Communication & Security, 20-21 July 2023
2. A Reconfigurable Smart Sensor Interface for Industrial WSN in IOT Environment, National Conference on Communication, Computation and Cyber Security, 9 -10 March 2017
3. Hybrid Binarization Method for Restoration of Degraded Historical Document, National Conference on Communication, Computation and Cyber Security, 9 -10 March 2017
4. Fire Detection & Notification Based on Image Processing & Cloud Computing, Innovative Technologies for Rural Development and Their Commercialization (ITRDC-2017), 18-20 Feb. 2017
5. Leaf Disease Recognition using Deep Neural Network, Innovative Technologies for Rural Development and Their Commercialization (ITRDC-2017), 18-20 Feb. 2017
6. Design And Development Of EEG Controlled Mobile Robots, IEEE International Conference (ICAECCT), Dec 2-3, 2016
7. VLSI Implementation of Adaptive Filter on Reconfigurable Platform, SPIT-IEEE Colloquium 2007 Conference, Feb. 2008
8. Adaptive Filter Implementation on FPGA, National Conference on Emerging Trends in Signal Processing & Communication, 27-29 Dec. 2007

**Mooc/ Other Courses Attended: 20**

Sr.No	Title	Organized by	Dates from to	Duration in Weeks/ Days
1	FDP on Electric Vehicle	Dept. of Mechanical and Electrical Engineering, NBNSCOE, Solapur	2023-03-27 to 2023-03-03	1 week
2	Workshop on Research Funding & Proposal Writing	Dept. of E & TC engineering, NBNSCOE, Solapur	2023-02-11 to 2023-02-11	1 day
3	Workshop on Research Methodology & Statistical Analysis Using MS Excel & SPSS	Hirachand Nemchand College of Commerce, Solapur & PAH Solapur University, Solapur	2020-02-07 to 2020-02-08	2 days
4	Workshop on Linux	NBNSCOE, Solapur	2019-08-23 to 2019-08-23	1 day
5	Workshop on B.E. E&TC , B.E. Electronics curriculum setting and B. Tech Structure Design	Solapur University	2019-01-17 to 2019-01-17	1 day
6	Training Programme on Sexual Harassment of Women at Workplace(Prevention, Prohibition and Redressal) Act, 2013	Solapur University, Solapur	2017-02-06 to 2017-02-06	1 day
7	Workshop on Writing of Research Papers, Ph. D. Thesis and Project	NBNSCOE, Solapur	2016-12-20 to 2016-12-20	1 Day

	Proposals			
8	A Training Program on Project Based Learning using ARM Processor	Vishwakarma Institute of Technology, Pune	2016-08-11 to 2016-08-15	5 Days
9	Workshop on Recent Trends of Power Electronics in Power System	NBNSCOE, Solapur	2016-06-13 to 2016-06-17	5 Days
10	Workshop on Internet of things (IOT) Based on Raspeberry Pi	WIT, Solapur	2016-02-20 to 2016-02-21	2 Days
11	Workshop on Embedded Linux Development on ARM9	Dept. of E&TC Engg. , NBNSCOE, Solapur	2016-01-01 to 2016-01-05	5 Days
12	ME E & TC Syllabus Framing and BE E&TC Syllabus Setting Workshop	Solapur University, Solapur	2015-02-06 to 2015-02-06	1 Day
13	Introduction to R	AISSMS's IOIT , Pune	2018-11-29 to 2018-11-29	1 Day
14	Intellectual Property Rights Role in Make in India	AISSMS IOIT, Pune	2019-03-19 to 2019-03-19	2 Days
15	Technical Paper Writing Using Latex	AISSMS's IOIT , Pune	2019-03-20 to 2019-03-20	1 day
16	Technical Paper Writing: Presentation, Ethics & Impact	AISSMS's IOIT , Pune	2019-01-04 to 2019-01-04	1 day
17	Participated in "Two Week Workshop on Signals & Systems"	WIT, Solapur	2014-01-02 to 2014-01-12	2 Week
18	Workshop on Booting, Hacking & Linux	Dept. of E&TC Engg., NBNSCOE, Solapur	2014-09-27 to 2014-09-29	3 Days
19	Workshop on MATLAB & Simulink	Solapur University, Solapur	2013-08-06 to 2013-08-06	1 Day
20	One Day Workshop on Teaching Methodologies of Basic Electronics Engineering FE 2008 Syllabus	University of Pune & Vidya Pratishthan's College of Engineering, Baramati	2009-01-09 to 2009-01-09	1 Day

### FDP/STTP/Workshop Conducted: 2

Sr.No	Title	Organized by	Worked As	Dates from to	Duration in Weeks/ Days
1	ISTE approved STTP on Image Processing and Machine Learning	Dept. of E&TC Engg., NBNSCOE, Solapur	Coordinator	2014-12-22 to 2014-12-26	1 Week
2	Workshop on "Sexual Harassment of Women at Workplace(Prevention, Prohibition and Redressal) Act, 2013	NBNSCOE, Solapur	Coordinator	2017-02-28 to 2017-02-28	1 Day

### Other Activities

#### Achievements & Awards

1. Successfully Completed NPTEL Course on "Descriptive Statistics with R Software" with consolidated score of 83% in April 2021

	<ol style="list-style-type: none"> <li>2. Successfully Completed NPTEL Course on "Essentials of Data Science with R Software-2 : Sampling Theory &amp; Linear Regression Analysis" with consolidated score of 63% in April 2021.</li> <li>3. Successfully Completed NPTEL Course on "Basic Electronics" with consolidated score of 56% in April 2018</li> <li>4. Successfully Completed NPTEL Course on "Analog Circuits" with consolidated score of 53% in March 2017</li> <li>5.</li> </ol>
<b>Professional Memberships</b>	<ol style="list-style-type: none"> <li>1. Lifetime Member of ISTE No. LM107100</li> <li>2. Lifetime Member of IAENG No. 209782</li> <li>3. Lifetime Member of ISRD No. M4150905153</li> </ol>
<b>Major Projects Handled</b>	
<b>Personal Details</b>	
<b>Employee Code</b>	SOL/KG/03/B/655
<b>Adhar Card Number</b>	832686483562
<b>Pan Card Number</b>	AGAPD9735D