## **Personal Profile**

Name:	Dr. Jayashri Aniket Bangali	
Designation:	Coordinator, B.Sc. (Computer Science), Head, Electronics Department	
Educational Qualification:	M.Sc., M.Phil., Ph. D. (Electronic Science).	
Experience:	Teaching Experience:20 yearsIndustrial Experience:3 & 1/2 years	
Contact Number:	9423581927	
Email ID:	jayashri789@yahoo.com	

**Research Areas:** Low Temperature Co-fired Ceramics (LTCC), Smart Space Automation, Embedded systems, Lighting and Glare technology

### **Research Experience:**

#### **Research Projects**

Duration Year From-To	Title of the project	Name of the funding agency	Total grant Sanctioned
2012-14	Microcontroller based energy efficient system for corridor illumination	BCUD, SPPU	Rs. 3,00,000/-
2016-18	Studies on Glare Reduction Techniques for indoor illumination systems	<b>ISRO-UoP</b> Space Technology Cell of Savitribai Phule Pune University (SPPU)	Rs. 19,18, 400/-

#### **Research Papers presented/published:**

**40** 

	Number of research papers published
International Journal	15
International Conference	08
National Conference	17

#### Conferences/ Seminars /Workshops attended: 61

	Number of Conferences attended
International Conference	09
National Conference	22
National Seminar	05
State level Workshops	25

Worked as a Coordinator/Convener for various Seminars / Conferences / Workshops / Cultural events / Competitions organized for the staff members and for the students in last 20 years.

## **<u>Refresher/Orientation Programme :</u>**

- 1. Successfully completed **21** days long **'Refresher Course'** in Electronics subject organized by Department of Electronic Science, University of Pune from 24/4/09 to 15/5/09.
- 2. Successfully completed **28** days long **'Orientation Programme'** organized by Academic Staff College of University of Pune from 7/9/11 to 4/10/11.

### **Faculty Development Programmes attended:**

- Two Days Faculty Development Programme on "Internet of Things (IoT), Analytics, Computing Techniques and Tools for Smart Cities", organized by Cummins College of Engineering for Women from 17<sup>th</sup> to 18<sup>th</sup> February 2017.
- 2. One week Faculty Development Programme for IQAC Coordinators organized by UGC-Human Resource Development Centre, SPPU from 19<sup>th</sup> to 25<sup>th</sup> March 2018.
- 3. Five days Faculty Development Programme 'Train the Trainer' for IQAC Coordinators organized by Kishinchand Chellaram College, Mumbai and RUSA Maharashtra from 4<sup>th</sup> to 8<sup>th</sup> October 2018.
- 4. Eight weeks Faculty Development Programme entitled 'Educational Leadership' from July to September 2019 on Swayam with 88% and Silver Medal.

### **Book Publications:**

Published **19** Text Books (as a Co-author) of Electronics subject as per University curriculum for B.Sc. (Computer Science) and B.Sc.(Electronic Science) course through Nirali publications.

Year	Award Details	Award given by
2016-17	Best Teacher Award in Applied Sciences	Global Society of Basic & Applied Sciences (GSBAS), <b>Mumbai</b> , India and Soil & Water Conservation Society (SOWCOS), Kathmandu, <b>Nepal</b>
2012-13	Best Teacher Award	Kannada Sangha's Kaveri Group of Institutes
2010-11 To 2018-19	<b>Best Achievement Award</b> (Received consecutively for 9 years)	Kannada Sangha's Kaveri College of Arts, Science and Commerce
2015-16	Sincerity Award	Kannada Sangha's Kaveri Group of Institutes
2016-17	Kaveri Award for Excellence in Education	Kannada Sangha's Kaveri Group of Institutes

### Awards Received:

Year	Award Details	Title of the Research Paper
	Appreciated in International conference on	
11-12	'Advances in Applied Science and Environmental	
April,	Engineering' organized by Institute of Research	Smart Space Design
2015	Engineers and Doctors (IRED) at Hotel G Tower,	Framework
	Kuala Lumpur, Malaysia.	
	Won the First Prize of "Best Paper	
17-20	Presentation" of the International Conference	Energy Efficiency of
May	on Emerging Trends in Basic and Applied Sciences	Internet of Things for
2017	(ETBAS -2017) organized by GSBAS and	Indoor Illumination
	SOWCOS at Kathmandu, Nepal	Systems
27-28	Secured <b>Best Paper position</b> in the 'National	
December,	Conference on Emerging Technologies For	Simulation of strategic
2012.	Sustainable Developments' organized by	placement of luminaries
	Department of Technology, Shivaji University,	for Energy Efficient
	Kolhapur, Maharashtra	Lighting in Smart Spaces
2-4	Won the First prize for Best Research Paper	Microcontroller based
February,	in 'National Conference on Sensor Network and	Lighting control system
2011.	Embedded Systems' (NCSNES-2011), organized	for Energy Efficient
	by Garware College, Pune	Corridor illumination
	Won the <b>Best Paper</b> prize in,	Simulation and
12-13	"International Conference on Go Green"	Development of Energy
January	Organized by Chandmal Tarachand Bora College,	Efficient Lighting Control
2017	Shirur.	System For Corridors of A
		Green Building

# **Research Paper Publication Details**

Published many research papers in International/National Journals/Conferences listed as below: International Journals

Sr. No.	Title of Research Paper	Name of Journal	Publication Details	Year
1.	Silver thick film pastes for low temperature co-fired ceramics: impact of glass frit variation	Soldering & surface mount Technology Emerald	Vol.20 No.3 pp 41-46 ISSN 0954-0911	Feb. 2008
2.	Effect of ink organics on cambering of an Ag- metalized Low Temperature Co-fired Ceramics (LTCC)	Journal of Material Science, Materials in Electronics Springer US	Vol- 20 Issue-5, pp- 455-460	May 2008
3.	Energy Efficient Lighting Control system design for corridor illumination	International Journal of Science and Engineering Research	ISSN no: ISSN 2229-5518 Vol-3 Issue -4	April 2012
4.	Automated Test Jig for Uniformity Evaluation of Luminaries	International Journal of Advances in Engineering and Technology	ISSN 2231-1963 Vol-3 Issue -1 pp 41-47	March 2012

Г	Comparative study of protocols	Advances in	ISSN 2231-1963	
5.	and control methods in Energy	Computational	Vol-5, No2	March
5.	Efficient building automation	Science and	2012 pp 883-891	2012
	systems	Technology	2012 pp 005 071	2012
	Simulation of strategic	Global Advanced	ISSN: 2315-5124	
6.	placement of luminaries for	Research Journal of	Vol. 2(2) pp.	Feb.
	energy efficient lighting using	Engineering,	064-068	2013
	daylight	Technology and		
		Innovation		
	Design and Implementation of		ISSN: 1975-4094	
7.	Security Systems for Smart	International Journal	IJSH Vol.7, No.6	March
	Home based on GSM	of Smart Home	(2013), pp.201-	2012
	Technology		208	
			e-ISSN : 2320-	5
0	Energy efficient Smart home	American Journal of	0847 p-ISSN :	Dec.
8.	based on Wireless Sensor	Engineering	2320-0936,	2013
	Network using LabVIEW	Research(AJER)	Vol-02, Issue-12,	
	Comparative study of e-waste		pp-409-413	
9.	generated by various lighting	Environment	ISSN 2320-5997	Dec.
	equipments	Observer	vol-17	2013
	Development of Smart	International Journal	ISSN: 2319-	_010
10.	Common Utility Corridor for	of Pure and Applied	507X 2014	May
	An Educational Institution	Research in	Volume 2 (9):	2014
	Building	Engineering and	327-335	
	-	Technology		
	Simulation and Development	International Journal		
11.	of Lighting Control system	of Innovative	ISSN: 2349-2163	Dec.
	using Daylight for Corridor of	Research in	Vol-1, Issue-12	2014
	a Building	Advanced		
		Engineering		
12.	Energy Efficiency of Internet	Online International	ISSN 2249-9598,	Sept
	of Things for Indoor	Interdisciplinary	Vol-07	2017
	Illumination systems	Research Journal		
	-			
13.	Evaluation of Discomfort	International Journal	ISSN 2349-4395	
	Glare by using Lighting	of Emerging	(Print) & ISSN	Dec.
	Simulation Software for	Engineering	2349-4409	2017
	Optimal Designing of Indoor	Research and	Vol 3 Issue 12,	
	Illumination Systems	Technology	pp 173-178	
	Discomfort Clara Elisti	Internetional Trans.		
	Discomfort Glare Evaluation	International Journal of Sustainable	IJSL (2018) 44-50	Nor
14.	using DIALux Lighting Simulation software and		44-50 ISSN: 2586-1247	Nov. 2018
14.	using developed Python	Lighting	10011. 2000-124/	2018
	Program model			
		Australian Journal of	ISSN: 1448-	Jan
15.	Discomfort glare prediction by	Electrical and	837X (Print)	2019
	using Unified Glare Rating	Electronics	2205-362X	_01/
	0 0	Engineering	(Online) Journal	

# **International Conferences**

Presented research papers in various International Conferences as listed below:

Sr.	Title of Research	us International Conferences as <b>Details of Conference</b>	Organizers	Year
No.	Paper	Details of Conterence	Organizers	1 (41
110.	Development of Smart	2 <sup>nd</sup> International conference		
1.	Common Utility	on Emerging Trends and	IBSS College of	29 <sup>th</sup>
	Corridor for An	Research in Engineering	Engineering	March
	Educational Institution	and Technology	Amravati,	2014
	Building		M.S. India	
	Occupant Density Model			
•	for Smart Space of a	International Conference on		a ath
2.	Corridor of an	Signal Processing, Control		14 <sup>th</sup>
	Educational	and Data Analytics – 2015	San Diego, USA	March
	Institution Building for	(ICSCD-2015)		2015
	supporting Smart			
	Services	Third International		
		Conference on Advances in	IRED	11 -12
3.	Smart Space Design	Applied Science and	Kuala Lumpur,	April
5.	Framework	Environmental Engineering'	Malaysia	2015
		- ASEE 2015	1120100 510	2010
		International Conference on	Society of	
		Research Advancements in	Computers,	3-4 Dec
4.	Glare Evaluation and	Engineering Sciences,	Engineering	2018
	<b>Reduction Techniques</b>	Technology and	Technology & and	
		Innovations	Applied Sciences	
		(RETI-DEC-2018)	at <b>Singapore</b>	
	Simulation and			10.10
_	Development of Energy	International Conference on	Tarachand Bora	12-13
5.	Efficient Lighting	Go Green	College, Shirur.	Jan.
	Control System For Corridors of A Green			2017
	Building			
	Dunung	International Conference on	GSBAS and	
	Energy Efficiency of	Emerging Trends in Basic	SOWCOS	17-20
6.	Internet of Things for	and Applied Sciences	Kathmandu,	May
	Indoor Illumination	(ETBAS -2017)	Nepal	2017
	systems		L	
	"Industrial Internet of	International conference on	MAEER'S MIT-	15-17
7.	Things IIoT:	" Changing Perspectives of	SOM College	Jan
	Applications, Issues and	Industries with	Pune	2018
	Challenges"	Industry 4.0		
_	Challenges of IoT and	4 <sup>th</sup> International Conference	Department of	16-17
8.	IIoT	on Emerging Technologies:	Electronic	Dec
		Micro to Nano	Science, SPPU	2019

### **National Conferences**

Presented research paper in various National conferences as listed below:

Formulation of conducting paste suitable for LTCC	National seminar on sensors and	Shankarrao Mohite Mahavidyalaya	2007
	e	e	paste suitable for LTCC sensors and Mahavidyalaya

	Development of silver thick	National Seminar of		
2.	film pastes for surface	Physics and	BARC, Mumbai	2007
۷.	conductors in LTCC		DARC, Mullioal	2007
		Technology of Sensors		
	applications	(NSPTS-12)	Dent of Electronic	
2	Effect of ink organics on	National Seminar of	Dept. of Electronic	2000
3.	cambering of an Ag-	Physics and	Science	2008
	metallized low temperature	Technology of	University of Pune	
	co- Fired ceramics (LTCC)	Sensors (NSPTS-13)		1 oth
4	Technological study of	National Conference	D.Y.Patil College,	10 <sup>th</sup>
4.	contemporary Home	on Emerging Trends in	Pune	Feb.
	Automation Systems	Electronics		2010
_	Energy Efficient Lighting	National Conference	Dept. of	7-9
5.	Control System Using LED	on Instrumentation	Instrumentation,	Jan.
	tubes - a Case Study	(NSI-35)	Belgaum.	2011
	Microcontroller based	National Conference		
	Lighting control system for	on Sensor Network	MES, Abasaheb	2-4
6.	Energy Efficient Corridor	and Embedded	Garware College,	Feb.
	illumination	Systems (NCSNES-	Pune	2011
		2011)		
	Comparative study of	Emerging Trends in	JSPM's Rajashri	2012
7.	protocols and control methods	Engineering, Science	Shahu College of	
	used for BAS	and Management	Engineering.	
		National Conference	Department of	
	Simulation of strategic	on Emerging	Technology	27-28
8.	placement of luminaries for	Technologies for	Shivaji University,	Dec.
	Energy Efficient Lighting in	Sustainable	Kolhapur,	2012
	Smart Spaces	Developments	Maharashtra	
	Development of Lighting	National Conference		7-8
9.	Design Software Tool based	on Emerging Trends in	Fergusson College,	Dec.
	on MATLAB for optimization	Computer Science and	Pune.	2013
	of indoor artificial lighting	Computer Application		
	Comparative study of e-waste	National conference	Modern College of	23-24
10.	generated by various lighting	on Hazardous E-waste	Arts, Science and	Dec.
	equipments	Management	Commerce,	2013
			Shivajinagar, Pune.	
	Energy saving Lighting	1 <sup>st</sup> National	J U , 2 , 2	20-22
11.	Control System for conference	Conference on Energy	University of Pune,	Feb.
	room based on Atmega	and Environment	Pune.	2014.
	Microcontroller	(NC2E-2014)	1 01101	
	Spreadsheet based Decision	1 <sup>st</sup> National		20-22
12.	support system for luminary	Conference on Energy	University of Pune,	Feb.
12.	replacement strategy in an	and Environment	Pune.	2014
	Educational Institute	(NC2E-2014)	i une.	2014
		National conference		
	Development of Interactive	on Advances in	Department of	19-20
13.	Smart Notice Board based on	Electronics and its	Electronics Science,	
13.	MATLAB			Sept. 2014
		Interdisciplinary	Fergusson College,	2014
	Componetive studes or also	Applications	Pune Deportment of	
1 /	Comparative study on glare	Recent and Innovation	Department of	
14.	effect and luminous intensity	Trends in Computing	Electronics, College	2016
	distribution due to positional	and Communication	of Engineering,	2016
	changes of luminaries.		Shegaon	

15.	Glare Evaluation of Electronics Laboratory using DIALux Lighting Simulation Software	National Level conference on Applications of Electronic and Computer Science	Kaveri college of Arts, Science and Commerce, Erandwane, Pune.	20- 21 Jan. 2017
16.	Challenges faced in the Implementation of ICT for Quality Enhancement in Higher Education Institutions	National conference on Academic and Administrative Audits through ICT	B.G. Gholap College, Pune	7-8 Jan. 2017
17.	Study of Glare for Indoor Illumination system	Raman Memorial Conference - 2018	Department of Physics Savitribai Phule Pune University	23-24 Feb 2018

### **University Examination related Work Experience:**

- Paper Setter and Moderator for Electronics subject of S.Y.B.Sc.(Computer Science) for Pune University Examination.
- Paper Setter and Moderator for Electronics subject of F.Y.B.Sc. (Computer Science) for St. Mira Autonomous College
- **Examiner** for University Common Assessment Programme (CAP) of F.Y.B.Sc. and S.Y.B.Sc.(Computer Science) University Examination.
- External Examiner for University Practical Examinations.
- Major contribution in restructuring the University syllabus of M.Sc. (Electronic Science) and Electronics subject of B.Sc.(Computer Science). Invited as a Resource Person in Syllabus restructuring workshops.
- Worked as a 'College Examination Officer' (CEO) of Kaveri College (from 2012 to 2016).

### Invitations:

- Delivered many **Guest lecturers** at various colleges on Electronics topics such as Smart Space, Smart Homes, IoT, IIoT, Use of Electronics in real life etc.
- Worked as **Judge** for many technical Competitions such as Paper presentations Competitions, Project competition etc.
- Appointed as a one of the Local Inquiry Committee (LIC) member by Savitribai Phule Pune University for the inspection of continuation of affiliation of the college.
- Invited as a **Subject Expert** in Electronics for selection interviews of Assistant Professor in Modern College, Warje.
- Provided **consultancy** for designing lighting control systems to industry. Designed and developed Energy Efficient Lighting Control Systems for corridors of a building and for virtual classroom.