
DR VIBHA S VAISHNAV

Professor and Head

Post Graduate Department of Electronics



Hon. Director

Anand District Community Science Centre

Sardar Patel University

Vallabh Vidyanagar -388 120, Gujarat, India

Mobile: 8469580703

e-mail: vaishnavvibha@spuvvn.edu, VaishnavVibha@gmail.com

Profile: [SheRNI | Profile - 265636](#) (*She Research Network in India*)

Curriculum Vitae

(1) Name :	VAISHNAV	VIBHA	SURYAKANT
	(Surname)	(Name)	(Middle Name)
(2) Date of Birth :	JUNE 30, 1970		
(3) Race and Religion:	Naagar Brahmin (Vadnagara Naagar Grihastha) – Hindu		
(4) Category:	Open (General)		
(5) Gender:	Female		
(6) Marital Status:	Unmarried		
(7) Nationality and : Mother tongue	Indian, Gujarati		
(8) Present Address:	Ishavasyam Behind Raghuvir Chambers, Off University Road Vallabh Vidyanagar- 388120, Dist. Anand, Gujarat State, India. Mobile: 94275 47671		

(9) Home Town: Wadhwan city, Dist. Surendranagar, Gujarat

(10) Present Employment: Professor (DCAS)

P.G. Department of Electronics

Sardar Patel University,

Vallabh Vidyanagar- 388 120

Gujarat, India

Phone: 8469580703,9427547671

e-mail: vaishnavvibha@spuvvn.edu, VaishnavVibha@gmail.com

(11) Academic Qualifications, Experience and Contribution

1. Basic Qualifications:

Sr. No.	Degree	Year	Subject	University/Institution	% of marks	
1.	B.Sc.	1990	Electronics	Sardar Patel University	84	Gold Medal
2.	M.Sc.	1992	Electronics	Sardar Patel University	76	
3.	Ph.D.	2001	Electronics	Sardar Patel University	Title of the Thesis: Development and Applications of Indium Tin Oxide Thin Film Gas Sensors Guide: Prof. N G Patel Co-Guide: Prof. P.D. Patel	
4.	Advanced (Post Doctoral) Research under the provision of Sabbatical Leave	2011	Science and Spirituality	Sri Aurobindo's Action, Sri Aurobindo Ashram, Pondicherry, India Under the provision of Sabbatical Leave from Sardar Patel University	Guide: Prof. Kireet Joshi	

2. Additional Courses:

- (i) Certificate Course: Dept. for Continuing Education, University of Oxford, UK
Subject: Contemporary Climate Science (18 April 2023 to 04 July, 2023 – 10 weeks))
- (ii) Hindi (Vinit), Gujarat Vidyapeeth, Ahmedabad, 69.78%, First Class, 2021
- (iii) CCC+: Dr. Babasaheb Ambedkar Open University, Ahmedabad, First D, 80%, 2021.
- (iv) Certificate Course: H M Patel Career Development Centre (CDC), CVM, V V Nagar
Subject: French Level -1 : 80 hours, 2008

3. Work Experience:

Sr.No.	Positions held	Name of the Institute	From	To
1	Adhoc Lecturer	P.G.Dept. of Electronics Sardar Patel University	14-07-1992	21-03-1994
2	Lecturer	P.G.Dept. of Electronics Sardar Patel University	22-03-1994	21-03-2000
3	Lecturer (Senior Scale)	P.G.Dept. of Electronics Sardar Patel University	22-03-2000	21-03-2003
4	Lecturer(Selection Grade) Reader Designate	P.G.Dept. of Electronics Sardar Patel University	22-03-2003	21-03-2006
5	Associate Professor (DCAS)	P.G.Dept. of Electronics Sardar Patel University	22-03-2006	11-07-2016
*	Professor (Open Post)	P.G.Dept. of Electronics Sardar Patel University	2022	Appointed but preferred NOT TO ACCEPT due to discrepancies in Pay Fixation and Pension Scheme The Sardar Patel University withdrew the appointment upon request.
6	Professor (DCAS)	P.G.Dept. of Electronics Sardar Patel University	12-07-2016 onwards	
7	Head of the Department	P.G.Dept. of Electronics Sardar Patel University	22-07-2025 onwards	
		Total:	34 years	

Length of service:

as a regular faculty in University: **32 years, 04 months**

as a Professor in University: 10 years

4. Special Assignments:

Hon. Director, Anand District Community Science Centre Sponsored by Gujarat Council on Science and Technology (GUJCOST), (DST, Govt. of Gujarat)	15-03-2019 onwards 7 years, 04 months Organized around 4000 events to promote Science Awareness No. of beneficiaries: around 4 lacs
(by virtue of the position of the Head, Dept. of Electronics) Convener FM 90.4 FM Community Radio Station, Sardar Patel University	
- Chairman, Board of Studies in Electronics, Sardar patel Unviersity - Chairman, Departmnetal Research Advisory Committee (DRAC) - Member, Faculty of Science, Sardar Patel University	

5. (a) Academic Contribution: Highlights

Title	Details
PG Teaching	taught 18 different courses at M.Sc. Electronics programme 01 course at M.Sc. (Defence Science) (2014) 01 Pre-Ph.D.Course (2013, 2018) 02 Courses on IKS at BSW – Sem I, III (2025)
Publications	35 National/ International publications, 11 articles Total No. of Citations: 1022 Highly Cited single papers: 382, 182, 108 citations, h-index 9, i-10 index: 9 1 book: Monograph Patents – 02 : 1 Innovation Patent, 1 Design Patent Edited 145 e-Journals/mags./e-zines/ e-publications 46 Research Presentations
Academic Foreign Visits	Germany, Poland, England, Spain, Japan, Austria

Ph.D. guidance	01 student: Dr. Jignesh N Panchal, 24-22-2014 Title of the Thesis: Fabrication and Applications of Indium Tin Oxide (ITO) Thin Film Vapour Sensors Co-Guide: Prof. S. G Patel, Retd. Professor, Department of Physics, Sardar Patel University, Vallabh Vidyanagar
Ph. D. Thesis evaluated	02
Research Projects	Total 09
Training Programmes	Attended: 02 UGC Refresher Course, 01 Orientation Prog.; Other courses: 13; coordinated: around 10
Talks delivered	Around 70 on varied topics like Electronics, IKS, Integral Education
Workshops conducted	Around 65
Google Scholar ID	Vibha S Vaishnav - Google Scholar

5 (b) Contribution to the University: in special projects: Highlights

Title	Details
University Green Audit and related Activities Cell	Coordinator Worked to get the University an Award of International Green University at New York, 2021, 2024
Student Start up Innovation Policy: SPU SSIP Navadhara	Academic Expert (2020 onwards)
Institutional Innovation Council	Coordinator for CSC
Member NAAC- AQAR, SSR (2019-22)	worked for Green Accreditation to University. The University received "Platinum Ranking" and also for getting the University an Award of International Green University at New York, 2021

Assistant Coordinator, Socio-Cultural Integration Study Centre (SCISC), 1995-98	Set up to execute a prestigious International, “Campus Diversity Initiative” project of \$50,000, sponsored by Ford Foundation, New York, which organized around 100 activities
Community Radio Station	Member, Task Force and Advisory Board, for setting up the Station (2003-4)
Member, Core Group, Celebration of 150 th Birth Anniversary of Sri Aurobindo	Sri Aurobindo Chair of Integral Studies (also worked as a Member, Advisory committee, Sri Aurobindo Tatvgnan Vyakhyamala, Member, Integral Studies association and Coordinator, Integral Education Workshops)
Member	Committee on Azadi ka Amrit Mahotsav: Amrit Mahotsav: Yuva Sankalp Shreshtha Bharat ke 5 prakalp: Environment, Cleanliness and Water Conservation

5(c) Pioneering Contributions:

- Worked as a **Member, Task Force, constituted to develop SICART, a western regional sophisticated Instrumentation Laboratory for advanced research and testing, funded by DST, India initially through the support of Rs. 5.5 crores**
- Working as a **Reviewer for many International Journals**: IEEE Sensors, Journal of Royal Society Interface, Sensors, Materials Science and Engineering, J. of alloys and comp. etc.
- Member, **International Programme Committee, International Conference on Sensors and Electronic Instrumentation Advances**— since last 7 years.
- **Member, Board of Management, C U Shah University, Wadhwan City, Gujarat (2014-2022)**
- **Member, Core Group, International Centre for Synthesis of Science and Spirituality, a project by Tapovan Open University of Yoga and Ayurveda, France**
- Was invited by the Commissioner of Higher Education, Govt. of Gujarat and CEO, Children’s University (on September 15, 2011) to work as **an Honorary Consultant for Research on the theme of Science and Spirituality for the Children’s University, Indian Institute of Teacher Education (IITE) and Commission for Innovations in Education.** (contributed by developing theme papers under the guidance of Prof. Kireet Joshi).

Worked as a member, Internal Quality Assurance Cell (IQAC), VP & RTP Science College, Vallabh Vidyanagar – (Accredited grade A by NAAC), the prestigious first college on the campus; (the foundation stone was laid by Sardar Vallabhbhai Patel)

- **Member, Executive Committee, Gujarat Science Academy (GSA) (2023-27)**
- Served as the Hon. Director, AuroMa Academy for Education and Research, ॐ पुरि (Ompuri) branch of Sri Aurobindo Society (2016 onwards: contributed e-magazines)

6. Areas of Research Interest:

- Semiconductor Gas/Vapor Sensor – Fabrication & Characterization
- Electronic Nose
- Integral Education
- Climate Action and Green Technology
- Science and Consciousness
- Women Empowerment
- Renaissance of India
- Science and Spirituality
- Indian Knowledge System

7. Scholarly/Innovative Contribution:

(a) Teaching/Research/Development:

Innovations incorporate while teaching of the following courses :

(1) Quantum Electronics, (2) Elements of Condensed Matter, (3) Digital Electronics, (4) Microprocessor Interfacing, (5) Advanced Instrumentation and Industrial Electronics, (6) Computer Based Industrial Control, (7) Applications of ICs, Computer Fundamentals and Fuzzy Electronics, (8) Sensor Technology, (9) Digital and Microwave Communication System, (10) Fiber Optics and its Applications, (11) Semiconductor Science and Devices, (12) Thin Film Technology, (13) Optical Fiber Communication System, (14) Sensors and Devices, (15) Practicals at M. Sc. (Electronics) I, II, and IV semesters, (16) Projects M. Sc. (Electronics) I and IV semesters (17) Introduction to Indian Knowledge Systems (18) DharmaShastra (Achar Sanhita)

(i) Research on Semiconductor Vapour Sensors: VOCs

VoC citations	Device/ range	Uniqueness of the Research / Innovation	Hazard/Importance	STEL ppm
Methanol 382	ITO/Cu : RT 200 -1800 ppm	Enhancement in response: ~60 times Stimulating layer	Carcinogenic, Severe health effects	250

Ethanol 182	ITO/MgO: 7323K 200-2500ppm	Enhancement in resistance: ~23 times Selectivity with stimulating layer	Responsible for generation of Bad Ozone and Greenhouse gases: Carbon dioxide Methane and Water vapours..	1000
Formaldehyde 24	Cu/ITO : RT 10-1900ppm	Enhanced speed of response ~54%, sensitivity 2.4 times : catalytic layer		2
Benzene 108	Cr/ITO:483K 30ppm to 1000ppm	Enhanced selectivity w.r.t. toluene Electronic promoter		2.5
Toluene 47	Cu/MnO/ITO:373K 10-1000ppm	Enhancement in sensitivity 5 times higher, speed of response, 2 layers		500

(ii) Newer Areas: Development of e- Nose:

Guided a Ph.D. student for development of an e-Nose (an array of sensors with Artificial Neural Network) to discriminate 03 vapours with different odours

(iii) Ranked in Top 0.5% among 30 million researchers by ScholarGPS -2024

(b) Community Service: with a solution for Sustainable Development

Guided several Innovative projects to M.Sc. (Electronics) students for the benefit of community, e.g.

- (i) For maintenance of Covid 19 protocol (Low cost automatic hand-sanitizer dispenser and social distancing cap)
- (ii) Automatic, Timer based Fogger system for animals. Parks/zoo/outdoors areas to deal with the problems of heat wave as well as air pollution
- (iii) Mentor in an SSIP Project on Blind man's Facilitator

(c) Innovative Multidisciplinary Research :

(i) Cognitive Psychology, Artificial Intelligence and Electronics Education

- (a) Taking up Cognitive analysis of students and faculty

- (b) Using Fuzzy- Nero approach to selection of e-learning material for students of Electronics based on their cognitive ability/capacity (right brain/left brain dominance)
presented Research work at an international conference on Cognitive Psychology and a symposium on metacognition at Barcelona, Spain (2016)

(ii) **Synthesis of science and spirituality on the premise of Consciousness**

(iii) **Exploring the possibility of proving consciousness in electron**

(iv) **Study on Effect of Yoga-Nidra – as a tool to develop manpower with intuitive faculty**

(d) e-Journals/e-magazines edited

(i) e-Journal edited

New Horizons :

Convener, Editorial Board,
with Prof. Kireet Joshi
as one of the members

A monthly e- journal of Ishavasyam Centre
of Integral Action (An independent unit of
Sri Aurobindo's Action, Pondicherry,
initiated
in the guidance of Prof, Kireet Joshi,
launched on 24th November, 2012

Total Issues Edited: 21



Focus: 3 Tasks for India as envisaged by Sri Aurobindo

- (a) Recovery of the old spiritual knowledge in its fullness and amplitude,
- (b) To allow the flow of that knowledge to create new forms of philosophy, science and critical knowledge, and
- (c) To deal with problems of India in an original manner in the Indian spirit and to develop a synthesis for a spiritualized society.

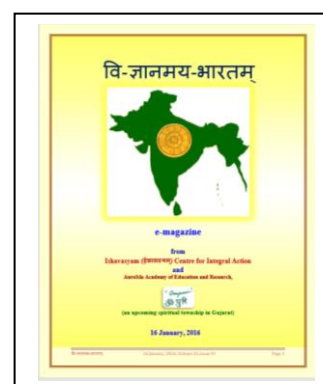
(ii) e-magazine edited:

Vi-Jnanmay Bharatam (वि-ज्ञानमय भारतं)

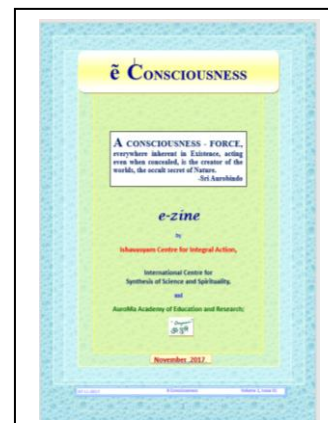
(bi-monthly e-magazine)

Worked as an Editor for 30 issues

Theme: Renaissance of India



- (iii) **e-zine edited:**
e-Consciousness (quarterly)
Worked as an editor – for 14 issues
 Theme: Synthesis of spirit of matter,
 electron and consciousness
 (with Tapovan Open University of
 Yoga and Ayurveda, France)

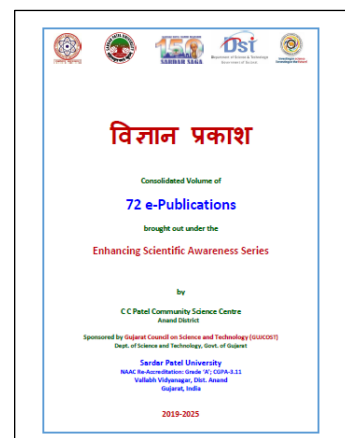


(vi) **Reports compiled:**

- (1) Sardar Patel University, Gujarat, India- Green initiatives in last 5 years - 2016-2021
- (2) Sardar Patel University,- A March towards Sustainable and Green Initiatives – Azadi ka Amrit Mahotsav Compilation

(vii) **e-Publications on Enhancing Scientific Awareness:**

Edited : 80 issues in the capacity of
 Hon. Director, C C Patel Community Science Centre,
 Sardar Patel, University



(12) **Awards/ Prizes/Honours:**

During Studies:

- (1) Received **scholarship given to meritorious students** by the Gujarat Secondary School Examination Board, Government of Gujarat.
- (2) Awarded Following **Gold Medals and prizes from V P Science College:**

(i)	Shrimati Kantaben Jayantilal Patel Gold Medal	F.Y B.Sc.- 1987-88
(ii)	Smt. Maniben Babubhai Patel Prize : Mathematics	F.Y.B.Sc.
(iii)	Shri Somabhai Vaghjibhai Patel Prize: Physics	F.Y.B.Sc.
(iv)	Smt. Raiba Gokulbhai Patel Prize: Electronics	T.Y.B.Sc.-1989-90
(v)	Smt. Lalitaben and Shri Dahyabhai Hathibhai Patel Gold Medal: First among all female students of the College	T.Y.B.Sc.
(vi)	Prin. A R Patel Gold Medal: College : overall First	T.Y.B.Sc.

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- (3) Received the prestigious Shri Babubhai Jashbhai Patel **Gold Medal for receiving the highest marks at B.Sc.(Electronics) examination** conducted by Sardar Patel University (Convocation, December 1990).
 - (4) She received **National Scholarship** for Post–Graduate study during the year 1990-91 and 1991-92 by the Ministry of Human Resource Development (Education Department), Government of India on merit basis.

During Professional Career:

1. Dr Vaishnav received **“Second Prize”** through R. Chandrashekhar Memorial Foundation for the **best industry oriented research work** among those presented at **the two consecutive National Seminars** on Physics and Technology of Sensors during the year 1995-1996 organized by the University of Pune, Pune.
2. She received the **"Hari Om Ashram Prerit Bhaikaka Inter University Smarak Trust"** prize of the year 1995-96 in Electronics for a research paper co-authored by her.
3. **Received the Best Paper/ Presentation prize to her Paper entitled “Virtual Universities and their Role in Strengthening the Education and Studies of Electronics”** at the 17th ISTE Gujarat Convention and a Seminar on Technology Enabled Technical Education : Issues and Perspectives, held at 20th October, 2012 at Bardoli, Gujarat.
4. **‘Elsevier Reviewing Recognition’** received from the Editors of ‘Applied Surface Science’ an outstanding International Journal from Elsevier
5. Received a **Certificate of Appreciation** from Sardar Patel University for the grant of a design patent
6. Appeared in **2024 Top Scholar** for being ranked in **top 0.5% among 30 million reseachers by ScholarGPS**
7. The Research team received **second prize** for the presentation of a poster entitled **“Recent Advances in Semicondutor-Based Biosensors for Non-Invasive Health Monitoring: A Review and Proposed SAW-Enhanced Hybrid Architecture”** by Dr. Urmesh Trivedi, Mr. Bhumit Devnani, Neeten Vasava, Gaurav Kaloliya, Prachi Pal and Dr. Vibha S. Vaishnav* at the GSBTM, ANRF & DBT sponsored International Conference on **“Convergent and Innovative Science for Health, Technology, and Sustainability (CISHTS -2026)** organized during March 6-7, 2026 by the Department of Applied and Interdisciplinary Sciences, Sardar Patel University, Vallabh Vidyanagar - 388120.

Felicitations in Society:

- I. Felicitated as one of the Outstanding Mother-Daughter pairs in the area having significant contribution in the Society and/or Outstanding achievement in

Education/Career by the Inner wheel Anand Club, (a sister organization of Rotary Round Town Club) organized on the occasion of International Women's Day, 8th March, 2008.

II. Honoured with 'Amrut Mahotsav Paritoshik' from a Social Organization

"Vadnagara Nagar Mandal, Mumbai (an International Institute of Vadnagara Nagar Community) on 26-02-2017

III. World Records India, received as a member of the team contributing to the "Longest Science & Innovation Expert Talk series", 24-09-2022

IV. Felicitated for the outstanding contribution in community work under the felicitation programme of Outstanding Women and Asha workers of the area by BJP Mahila Morcha: 26/05/2022

(13) Membership/Fellowship of Academic Societies/Bodies/Others

- 1) Life member, Indian Physics Association (IPA)
- 2) Life member, Indian Society for Technical Education (ISTE)
- 3) Life member, Indian Association of Physics Teachers (IAPT)
- 4) Life member, Sardar Patel University Teachers' Association (SPUTA)
- 5) Life member, Sri Aurobindo's Action, Sri Aurobindo Ashram, Pondicherry.
- 6) Member, Sri Aurobindo Society, Puducherry
- 7) Life Member, and Member, Executive Committee, Sri Aurobindo Sadhana Kendra, Vallabh Vidyanagar

(14) Research/Educational Projects undertaken/completed: Details

Sr. No.	TITLE	AGENCY	GRANT/AMOUNT MOBILIZED (Rs.)	PERIOD
	Semiconductor Sensors and Electronic Device Characterization			
1.	Fabrication of Gas Sensor and its Electronic alarm system	UGC	Rs. 11,000/= (Minor Research Project)	1994-95
2.	Fabrication of in-built miniature heater and thermocouple for thin film semiconductor gas sensor	UGC	Rs.15,000/= (Minor Research Project)	1998-89

3.	Fabrication of Electroluminescent Devices Sanction Letter No.F.14.6/97(SR-I) dt. 9-7-97	UGC, NEW DELHI	Rs.2,47,408/= (Major Research Project)	1997-2000
4.	“Development of Selective and Sensitive Gas Sensors Using Indium Oxide and Indium Tin Oxide Materials to Detect Volatile Organic Compounds (VOCs)”	UGC NEW DELHI	Rs. 8.008 lacs With Rs.50,000/- Additional grant and extension of 1 year (Major Research Project)	2004-07 + Extension of 1 year i.e. 31-03-2008
	Interdisciplinary Research work in Electronics			
5.	“Interdisciplinary Research work on Development of Gas / Vapour Sensors using the Oxide Semiconductors with possible extended study of the response of Tin Metal to Mechanical and Electrical Stimuli”	Sardar Patel University under PURSE DST Project	Rs. 1 lac (Seed Money Project)	19-09-2013 to 31-03-2014
	Special Project of setting up a Research Laboratory			
6.	Establishing a State of the art Instrumentation and Research Centre, later termed as “Sophisticated Instrumentation Centre for Advanced Research and Testing (SICART)”	As an outcome of the project, SICART was funded phase wise and was officially recognized as a Western region Sophisticated Laboratory by the Department of Science and Technology (DST), Govt. of India, New Delhi.		
	Worked as one of the 04 members of the Task Force			
	Project on e-waste management, education and leadership training, and creating audio-book for blind institute			

7.	"Pilot Project of Sardar Patel University Community Outreach and Extension Programme"	Sardar Patel University Seed Money Grant	Rs. 1 lac	23/10/2013 to 31-03-2014
	Project for Enhancing the memory capacity and well being of students			
8.	"Effects of <i>Yoga Nidra</i> on Well Being of School Children" Co-Investigator	H M Patel Centre for Medical Education and Research (Karamsad)	No Financial Assistance was asked (All expenditure borne by P.I.)	February 21, 2017 onwards For 1 year
9.	Effect of guided meditation on Wellbeing and teaching experiences of Pre-service student teachers and their practice teaching for the same, Faculty of Education, Sardar Patel University, Vallabh Vidyanagar Co-Investigator	Bhaikaka University, Karamsad	-	Sanctioned on 23-07-2022 1 year .

(15) Refresher / Advanced courses attended:

(i) UGC sponsored Refresher / Orientation Programmes:

1. U.G.C. sponsored Refresher Course in Computer Science, organized by the Department of Computer Science, Sardar Patel University, Vallabh Vidyanagar during 22nd February, 1999 – 12th March, 1999.
2. U.G.C. sponsored Refresher Course in Electronics, organized by the Academic Staff College, Gujarat University, Ahmedabad at Department of Electronics, Sardar Patel University, Vallabh Vidyanagar during 1st December to 21st December, 2000.
3. An Orientation Programme organized by Academic Staff College, Gujarat University, Ahmedabad during 14-05-2001 to 6-6-2001 under the UGC scheme.
Presented a paper on " Holistic Approach to Learning " during the course

(ii) Advanced Courses in the Subject / Soft Skill:

4. Training course on “C Programming” conducted by Data Pro, Bombay, Microsoft Ltd. During Nov.-Jan. 1993-94.
5. ISTE Sponsored Summer School on “Fiber Optics and its Applications”
Dept. of Electronics and B.V.M. Engineering College, Vallabh Vidyanagar
May 30 – June 11, 1994. (Also worked as Resource Person)
6. International School on “Advanced Electronic Materials”
Crystal Growth Centre, Anna University, Madras
February 6-15, 1995.
7. ISTE sponsored special Short Term Training Programme (STTP) on “ Human Values in Technical Education” Organized by B V M Engineering College, Vallabh Vidyanagar and ISTE Chapter, BVM Engineering College, Vallabh Vidyanagar, March 23-28, 2002
8. DST, New Delhi sponsored National Workshop on Solid State Sensors: Theory and Applications Organized by the Department of Electronics, Shivaji University, Kolhapur, 16 June- 28 June 2003
9. DST sponsored National Workshop on “Sensor Instrumentation” organized jointly by CGCRI, Kolkata and IIT, Kharagpur during 3 - 15 Nov., 2003
10. AICTE-ISTE sponsored One Week Short Term Training Programme (STTP) on “Advances in Neuro-Fuzzy Systems and Their Applications” Organized at A D Patel Institute of Technology, New Vallabh Vidyanagar, March 19th, 2007 to March 23, 2007
11. Certificate Course in French Level -1 (80 Hours) organized by H M Patel Career Development Centre, 2018
12. Sanskrit Sambhashan Shibir organized by Sanskrit Bharati, Anand and Sri Aurobindo Sadhana Kendra, Vallabh Vidyanagar, during 03-07-2018 to 08-08-2018
13. 3rd Faculty Development Programme (Under RUSA through KCG): Motivation for Quality and Impactful Research (Science) during 3-12-2018 to 7-12-2018
14. Lead Auditor Course on “Environment Management System, Green Campus Audit, Energy Audit and Hygiene Audit” to Educational Institutions and Industries Organized by Nature Science Foundation, an ISO 9001:2015 Certified Organization, Coimbatore, May 31st to June 4th, 2021

(iii) Faculty Development Programmes Attended

15. UGC sponsored Faculty Development Programme (Under RUSA through KCG) conducted by Human Resource Development Centre, Sardar Patel University, Vallabh Vidyanagar, 3-12-2018 to 7-12-2018.
16. NEP 2020 Orientation and Sensitization Programme of Malaviya Mission Training Programme of UGC, Organised by UGC-MMTTC, Sardar Patel University, Vallabh Vidyanagar, 2-9-24 to 13-9-24, grade A+.

17. Online Faculty Development Programme QT-07- Quantum Sensing (40 Hours, 3-Credits equivalent) organized by Electronics & ICT Academics, MNIT Jaipur, NIT Patna, IIT Kanpur, IIT Guwahati, IIITDM Jabalpur (sponsored by MeitY, endorsed by DST-NQM/AICTE/UGC) during 26-09-2022 to 17-10-2025.
18. Training Programme on “Nurturing Future Leadership on Advancing Women Leaders in Higher Education” under Malaviya Mission Teacher training Programme (MMTTP) organized by Institute of Rural Management Anand (IRMA), “Tribhuvan” Shakari University from 14-11-2025 to 14-11-2025.
19. Training Programme on “Outcome Based Education as per NEP 2020”, conducted by the National Institute of Technical Teachers’ Training and Research, Bhopal (Deemed to be University under Distinct Category). Ministry of Education, Government of India during 22-09-2025 to 26-09-2025.

(16) Details of Research work Published/Presented:

[a] Research Papers published:

	Research Papers Published in Journals			
	Title	Cited by	Year	Journal Indexing Status: Present
1.	Indium tin oxide (ITO) thin film gas sensor for detection of methanol at room temperature NG Patel, PD Patel, VS Vaishnav Sensors and Actuators B: Chemical 96 (1-2), 180-189	380	2003	UGC listed IF:7.460 Cite score:15.0
2.	Indium Tin Oxide thin film gas sensors for detection of ethanol vapours VS Vaishnav, PD Patel, NG Patel Thin solid films 490 (1), 94-100	181	2005	UGC listed IF:2.183 Cite score:4.3
3.	Preparation and characterization of indium tin oxide thin films for their application as gas sensors VS Vaishnav, PD Patel, NG Patel Thin Solid Films 487 (1-2), 277-282	95	2005	UGC listed IF:2.183 Cite score:4.3
4.	Development of ITO thin film sensor for detection of benzene	108	2015	UGC listed IF:7.460

	Research Papers Published in Journals			
	Title	Cited by	Year	Journal Indexing Status: Present
	VS Vaishnav, SG Patel, JN Panchal Sensors and Actuators B: Chemical 206, 381-388			Cite score:15.0
5.	Fabrication of carbon tetrachloride gas sensors using indium tin oxide thin films NG Patel, KK Makhija, CJ Panchal, DB Dave, VS Vaishnav Sensors and Actuators B: Chemical 23 (1), 49-53	65	1995	UGC listed IF:7.460 Cite score:15.0
6.	Indium tin oxide thin-film sensor for detection of volatile organic compounds (VOCs) VS Vaishnav, P D Patel, N G Patel Materials and Manufacturing Processes 21 (3), 257-261	3	2006	UGC listed IF:4.616 Cite score:6.7
7.	Development of indium tin oxide thin film toluene sensor VS Vaishnav, SG Patel, JN Panchal Sensors and Actuators B: Chemical 210, 165-172	47	2015	UGC listed IF:7.460 Cite score: 15.0
8.	Development of ITO thin film sensor for the detection of formaldehyde at room temperature VS Vaishnav, SG Patel, JN Panchal Sensors and Actuators B: Chemical 202, 1002-1009	24	2014	UGC listed IF:7.460 Cite score: 15.0
9.	Detection and classification of volatile organic compounds using Indium Tin Oxide sensor array and artificial neural network HJ Pandya, VS Vaishnav International journal of intelligent systems technologies and applications, 7-1,72-79, 7-4, 1	6	2009	UGC listed IF: 1.194 Citations Score: 1.2
10.	An Approach to the Pursuit of Supramental or Integral Knowledge Kireet Joshi, Vibha Vaishnav Sri Aurobindo's Action 42 (8), 10-12		2011	Peer Reviewed
11.	Combination of Science and Spirituality: Meaning Kireet Joshi, Vibha Vaishnav		2012	Peer Reviewed

	Research Papers Published in Journals			
	Title	Cited by	Year	Journal Indexing Status: Present
	The Advent, August, 19-29			
12.	Fabrication and Application of Thin Film Semiconductor Sensors for the detection of Volatile Organic Compounds V S Vaishnav, S G Patel JN Panchal Advanced Materials Research 665, 85-92	4	2013	UGC listed
13.	Consciousness & Evolution V S Vaishnav, Kireet Joshi Journal of Consciousness Exploration & Research 5 (8)		2014	Peer Reviewed
14.	Room Temperature Detection of Benzene Vapours by Tin Oxide Nano Clusters J N Panchal, S G Patel, V S Vaishnav Sensors and Transducers Journal 190 (7), 35-39	2	2015	UGC listed IF:0.115
15.	Semiconductor Gas Sensors- An overview N G Patel, K K Makhija, V S Vaishnav Journal of Engineering and Technology, Sardar Patel University, March 2001, 47-54		2001	Peer Reviewed
16.	An Approach to the Pursuit of Supramental or Integral Knowledge Kireet, Joshi, and Vibha Vaishnav Sri Aurobindo's Action 42 (8), 10-12		2011	Peer Reviewed
17.	Combination of Science and Spirituality: Meaning Kireet Joshi and Vibha Vaishnav The Advent, 69-3, August, 2012, 19-29		2012	Peer Reviewed
18.	A Novel Three Tier Education and Leadership Training Programme for National Resurgence Vaishnav Vibha Sathaye Swati, Raithatha Shyamsunder, Padh Harish University News 54 (22), 3-9		2016	Peer Reviewed
19.	Education for New India: Insights from Gandhian teachings Vibha Vaishnav University News 57 (39)		2019	Peer Reviewed

	Research Papers Published in Journals			
	Title	Cited by	Year	Journal Indexing Status: Present
20.	Effects of Yoga-nidra on Adolescents Well-being: A Mixed Method Study Jagdish R. Varma Bhale du S. Vaishnav, Smruti B. Vaishnav, Vibha S. Vaishnav International Journal of Yoga 11 (3), 245-248	43	2018	UGC listed
21.	Transformative effects of yoga nidra on hedonic and eudemonic dimensions of well-being: A qualitative study in trainee teachers Bhalendu Suryakant Vaishnav, Smruti Bhalendu Vaishnav, Vibha Suryakant Vaishnav, Neepta D Bharucha, Jagdish R Varma International Journal of Yoga-Philosophy, Psychology and Parapsychology 7,1,17	8	2019	Peer Reviewed
22.	Effects of yoganidra on well-being of trainee teachers Dr. Bhalendu S Vaishnav, Dr. Neepta D Bharucha, Dr Smruti B Vaishnav, Dr. Vibha S Vaishnav, Dr. Jagdish R Varma Journal of Health Sciences and professions Education 1 (1), 1-6		2021	Peer Reviewed
23.	Incorporating Spirituality in Higher Education and patient Care: Innovative Practices Dr. Bhalendu Vaishnav, Dr. Param Pathak, Dr. Smruti Vaishnav, Dr. Vibha Vaishnav NAMAH - The Journal of Integral Health, Vol.32, Issue 3, 37-45 ISSN 2455-1899		2024	

	Research Papers Published in Proceedings/Books	Year	National/ International
24.	Fabrication of gas sensors using Indium tin oxide thin films N.G.Patel, K.K.Makhija & V.S.Vaishnav	1995	N

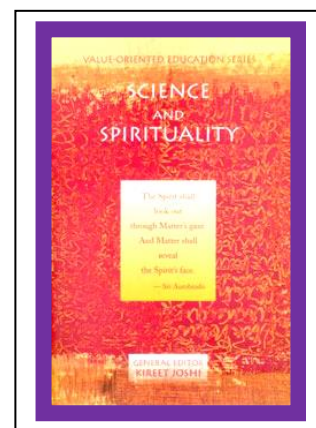
	National Seminar on Physics & Technology of Sensors, Pune, Feb. 1-3, 1995, Proceedings : Sensors - 2 pp C 17-1		
25.	Fabrication of Hydrogen Sulphide gas sensor using Indium tin oxide thin films and its electronic alarm system N.G.Patel, K.K.Makhija & V.S.Vaishnav “Semiconductor Devices” - Narosa Publishing House 1996 pp 439	1996	I
26.	Preparation of Indium tin oxide thin film gas sensors for autoexhaust gases N.G.Patel. K.K.Makhija, V.S.Vaishnav & S.S.Patel National Seminar on Physics & Technology of Sensors, Pune, Feb. 1-3, 1996, Proceedings : Sensors - 3 pp C 34 –1	1996	N
27.	Autonomy and accountability in technical education : Role and responsibility of stakeholders Dr.V.S. Vaishnav and Dr.S.V.Vaishnav Proceedings, 38 th ISTE National Annual Convention, Kalinga Institute of Industrial Technology, Bhubaneshwar, Dec. 19-21, 2008	2008	N
28.	Virtual Universities and their Role in Strengthening the Education and Studies of Electronics Vaishnav Vibha S Proceedings, 17th ISTE Gujarat Convention and a Seminar on Technology Enabled Technical Education: Issues and Perspectives, held at 20th October, 2012 at Bardoli, Gujarat.	2012	S
29.	Synthesis of Science and Spirituality Dr. Vibha Vaishnav Super-science for Superconscious – e- Proceedings of the National Seminar on Synthesis of Science and Spirituality for the Highest welfare of Society, Organized by Sri Aurobindo Unidiversity Aurovalley Ashram, Rishidwar, Raiwala, Uttarakhand and Sri Aurobindo Chair of Integral Studies & CSC Yogic Science and Integral Wellness Initiative, CSC Anand (sponsored by GUJCOST, Gandhinagar) Sardar Patel University, Vallabh Vidyanagar, Gujarat supported by UTTARAKHAND STATE COUNCIL OF SCIENCE & TECHNOLOGY (GOVT. OF	2024	N

	UTTARAKHAND), at Aurovalley, Rishidwar, Uttarakhand February 11-12, 2024 Edited by Dr. Vibha S Vaishnav, Dr. Bhalendu S Vaishnav and Swami Brahmdev		
30.	Initiatives of Green and Sustainable Development – A Case Study of Sardar Patel University and Anand District Community Science Centre, India and Proposed Comprehensive Climate Action Plan Vibha S Vaishnav <u>Proceedings of the 6th Global Summit of the Global Alliance of Disaster Research Institutes</u> (GSRIDRR 2023), GADRI Book Series. Springer, Singapore pp-370-385 https://doi.org/10.1007/978-981-96-6609-6_25	2025	I
31.	भारत में श्री अरविन्द की समग्र शिक्षा का पुनः जागरण प्रो. डॉ. विभा एस वैष्णव 1 st Notional Educational Seminar on Resurgence of Sri Aurobindo's Integral Education in India, organized at SRI AUROBINDO SADHANALAYA, Sri Ayodhya, Uttar Pradesh 29h March 2025	2025	N
32.	Women's Scientific Legacy in Higher Education- Reintegrating the 64 Kalās under NEP 2020 Vibha S Vaishnav "Her विशेषण: Vision to व्यवहार" - -a book brought out by the Women's Cell, Sardar Patel University, Vallabh Vidyanagar, 7-3-2026, ISBN: 978-93-81386-88-0	2026	S
33.	Psychic–Spiritual Education and Integral Pedagogy: Insights from the Women's Council Dr. Vibha Vaishnav Proceedings, 4th National Sri Aurobindo Women Study Circle (Mahila Pathchakra) Conference, Vadodara, Gujarat, Theme: Women & Integral Education in India's Resurgence: Reflections from Prof Kireet Joshi, December 1-2, 2025, Organized by Sri Aurobindo Nivas, Vadodara, The Maharaja Sayajirao University of Baroda, Auroville Foundation, Sardar Patel University, Vallabh Vidyanagar, Auro University, Surat, Gujarat Sahitya Academy,	2025	Under publication

	Gandhinagar with Academic Partners: Children's Research University and Indian Institute of Teacher Education (IITE), Gandhinagar		
34.	A Teacher, Facilitator, Guide, and Mentor in the " <i>Quest for the Highest and the Best</i> ": Reflections on Professor Kireet Joshi Dr. Vibha S. Vaishnav Proceedings, 4th National Sri Aurobindo Women Study Circle (Mahila Pathchakra) Conference, Vadodara, Gujarat, Theme: Women & Integral Education in India's Resurgence: Reflections from Prof Kireet Joshi, December 1-2, 2025, Organized by Sri Aurobindo Nivas, Vadodara, The Maharaja Sayajirao University of Baroda, Auroville Foundation, Sardar Patel University, Vallabh Vidyanagar, Auro University, Surat, Gujarat Sahitya Academy, Gandhinagar with Academic Partners: Children's Research University and Indian Institute of Teacher Education (IITE), Gandhinagar	2025	Under publication
35.	Ancient Women's Holistic Development – an aid to Global Policy Framework in the light of Integral Education Dr. Vibha S. Vaishnav	2026	Accepted for Publication
36.	Quantum Science and Consciousness: Towards a Unified Framework with Emerging Implications Dr. Vibha Vaishnav	2026	Accepted for Publication

[b] Books Published/ Journals Edited/Compiled

- (i) **Book in the Value Oriented Education Series:**
(Introductory Articles followed by Compilation)
Science and Spirituality (A Monograph)
Author: Vibha, Vaishnav
Editor: Kireet Joshi
No. of Pages:235, First Edition, 2011,
Shubhraketu Foundation and Mother's Institute of Research, New Delhi,
printed at Auroville
- (ii) **Thesis / Comprehensive volume**
Comprehensive Thesis of Advanced (Post Doctoral) Research on Science and Spirituality



Sri Aurobindo's Action, Sri Aurobindo Ashram, Pondicherry and Sardar Patel University, 2011

Researcher: Dr. Vibha Vaishnav, Guide: Prof. Kireet Joshi

[c] Creative Articles published:

1.	"Impressions for Spiritual Exploration – A bow to Einstein" Vibha Vaishnav A Research Article published in Education Times (Baroda) Supplement of the Times of India News Paper, Ahmedabad Edition, March 21, 2005.
2.	"The Greatest Event of the World" Vibha Vaishnav In a Book, a Special publication by Sri Aurobindo Society, (recognized as a Research Institute and an Institute of National Importance by Govt. of India) Gujarat State Committee, Vadodara, 2014, 128-136
3.	"Kena Upanishad and Modern Science" Vibha Vaishnav New Horizons, e- Journal, Volume 1, Issue 5, pg.18-19, 2013
4.	"Vedanta" Vibha Vaishnav New Horizons, e-journal - Volume 1, Issue 7, Pg.11, 2013
5.	"Meeting of Science and Spirituality" Dr.Vibha Vaishnav New Horizons, e-journal – 2013, Volume 1, Issue 1, 24 November, 2012 Pg.11-13
6.	"Science and Spirituality" Vibha Vaishnav New Horizons, e-Journal, Volume 1, issue 3, pg.17, 2013
7.	"Concept and Phenomena of Consciousness" Vibha Vaishnav, Kireet Joshi New Horizons, e-journal, Volume 2, Issue 2 Pg.6-8, 2013
8.	"Science and the Highest Welfare of Society" Vibha Vaishnav, Kireet Joshi New Horizons, e-Journal, Volume 2, Issue 3, Pg.24-30, 2014
9.	"On Consciousness" Kireet Joshi and Vibha Vaishnav Ē Consciousness, Volume 2, Issue 05, 24-11-2018, a quarterly e-zine

	Tapovan Open University of Yoga and Ayurveda, France
10.	"Gas Sensing: The Need and Importance" Dr. Vibha S. Vaishnav, A series of e-publications on Enhancing Scientific Awareness : 6. World Environment Day, 05-06-2019, C C Patel Community Science Centre, (GUJCOST, DST, Gov of Gujarat) Sardar Patel University
11.	Initiated a Research column "<i>Gujarat Darpan: pragati ane padkaro</i>" in which Prepared and Compiled 3 short articles in the issues of 01-05-2003,15-07-2003, 15-09-2003, Edited 5 short articles. Sheel Shrutam, The Sardar Patel University Newsletter

[d] Research presentations/Talks at Seminars/ Conferences etc.:

1. Preparation of Indium tin oxide thin film gas sensors for autoexhaust gases.
N.G.Patel. K.K.Makhija, V.S.Vaishnav & S.S.Patel
National Seminar on Physics & Technology of Sensors, Pune, Feb. 1-3, 1996
Proceedings: Sensors - 3 pp C 34 –1
2. Growth and Application of ITO thin film devices
N. G. Patel, K.K.Makhija, Basumati Patel & Vibha Vaishnav
National Conference on Advances in Condensed Matter Physics, Pondicherry, February 26-28, 1998.
3. Need to rejuvenate the Technical Education to establish sustainable development
V.S.Vaishnav and S.V.Vaishnav
One day state level seminar on Role of Technical Education for Sustainable Development organized by Indian Society for Technical Education (ISTE) Gujarat Section and A D Patel Institute of Technology, New Vallabh Vidyanagar on Oct. 13, 2002.
4. Indium Tin Oxide thin film sensor for detection of volatile organic compounds (VOCs)
Pandya, H.J. , Vaishnav, V.S., Patel, P.D. Patel, N.G.
International Symposium on Advanced Materials and Processing ISAMAP-2K4, IIT Kharagpur,
India, December 6-8, 2004, Proceedings, Vol. II, 941-948
5. Preparation and Characterization of Indium Tin Oxide Thin Films for their Application as Gas Sensors
V S Vaishnav, P D Patel, N G Patel
8th International Conference on Polycrystalline Semiconductors-Materials, Technologies, Device Applications, organized by the University of Potsdam, Germany, 2004

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6. Indium tin oxide thin film gas sensors for detection of ethanol vapours
V.S.Vaishnav, P.D.Patel, N.G.Patel
4th International Workshop on Semiconductor Gas Sensors (SGS 2004), 2004, organized by the Dept. of Microelectronics, Silesian University of Technology, Gliwice, Poland
 7. Semiconducting Oxide thin film gas sensors for detection of Volatile Organic Compounds (VOCs), a study and a review
V.S.Vaishnav*, S.G.Patel, J.N.Panchal
Presented at the 111th GSA-VVN CSC ANNUAL SCIENCE MEET 'SCI-MEET 2008', organized under the Joint Auspices of GSA-VVN Chapter & C. C. Patel Community Science Centre Sardar Patel University Vallabh Vidyanagar, Anand, Gujarat, India, on February 17, 2008.
 8. Oxide Semiconductor based Vapour Sensors with High Stability for the Detection of Carbon Tetrachloride (CCl₄)
V.S.Vaishnav*, S.G.Patel, J.N.Panchal
Presented at a Two Day Symposium on "Innovations in Science" and SPU Research Scholars Meet (ISSPURSM -2012) 8th -9th January 2012, Organized by Sardar Patel University Vallabh Vidyanagar, Anand, Gujarat, India.
 9. Fabrication & Application of Thin Film Semiconductor Sensors for the Detection of VOCs
V.S.Vaishnav*, S.G.Patel, J. N. Panchal
3rd National Conference on Condensed Matter and Materials Physics (CMMP-2012), Organized by the Department of Physics & Physics Alumni Association Sardar Patel University Vallabh Vidyanagar, Anand, Gujarat, India on March 3-5th, 2012.
 10. Flexible Electronics: A demanding, desirable breakthrough in Sensor Technology: A Review
V.S.Vaishnav*, S.G.Patel, J.N.Panchal
State level Seminar on "Current Trends in Research and Applications of Physical Science in Gujarat (CTRAPSG-12)" organized on 29th December 2012, Department of Physics, Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat, India. (Poster)
 11. Study of Sensitivity and Selectivity of Thin Film Semiconductor Sensors for the Detection of Volatile Organic Compounds
V.S.Vaishnav*, S.G.Patel, J.N.Panchal
Presented a Poster at a State Level Seminar on "Current Trends in Research and Applications of Physical Science in Gujarat (CTRAPSG-12)", Organized on 29th December 2012 at the Department of Physics, Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat, India. (Poster)
 12. Semiconductor Vapour Sensor to Detect Explosives
V.S. Vaishnav, S.G. Patel, J.N.Panchal
DST PURSE Programme sponsored National Conference on Interdisciplinary Perspectives:

Defence Studies, Earth System Science and BioMedical Science (IPDEB – 2013), organized at Sardar Patel University, Vallabh Vidyanagar, November 15-17, 2013 (poster)

13. Detection of a primary greenhouse gas by oxide semiconductor thin films with special study of the effect of the nature of substrate on its performance
N.G.Patel and V.S.Vaishnav
National Seminar on Crystallography (NSC 43 B) And National Workshop on CADD (Sept.1-3, 2014) , Department of Physics, Sardar Patel University (poster)
14. A demanding change in the approach of science in 21st century (paper)
V.S.Vaishnav
National Seminar on “Change of Consciousness in 21st Century (in the light of Sri Aurobindo) Organized by Sri Aurobindo Chair of Integral Studies, S.P. University, Vallabh Vidyanagar, March 22-24, 2001.
15. $E = MC^2$, Scientific basis of various Health Systems (poster)
B.S.Vaishnav and V.S. Vaishnav
Annual Conference of Association of Physicians of India, APICON (66th Annual Conference), Ahmedabad
January 6-9, 2010
16. Transformation – A Collaborative Evolutionary Process : Introduction and Glimpses
V.S.Vaishnav
International Conference on “Mutation II - A Clearing”
Sri Aurobindo Centre for Studies - India and the World, Bharat Nivas, Auroville.
February 25-27, 2011
17. Quantum Inspired Fuzzy Neuro Approach: An Application of Cognitive Science for better comprehension of Cognitive Psychology
Vibha S Vaishnav (Oral)
Cognitive Psychology Section Annual Conference 2016 The British Psychological Society, Barcelona, Spain, 2-9-2016
18. Cognitive Psychology: An Integral Perspective
Vibha S Vaishnav (Oral)
Cognitive Psychology Section Annual Conference 2016, The British Psychological Society, Barcelona, Spain, 2-9-2016
19. Integral Yoga: A Framework for Expanding Dimensions of Cognitive Psychology
Prof (Dr) S.V.Vaishnav, Mrs.T.S.Vaishnav, Dr. Bhalendu Vaishnav, Dr. Smruti Vaishnav, Dr. Vibha S. Vaishnav
20. Application of Electronics for maintenance of Covid-19 Care protocols
Vibha S Vaishnav, Monarth Patel, Chandni Sargara, Anuj Patel, Mayank Machhi, Nirmal Soni

Online Programme on Experiments and Demo in Physics, Electronics and Computational Physics, IAPT – RC07, Department of Physics, Saurashtra University, Rajkot, June 24, 2021

21. An Automatic cooling system for Animals to fight with heatwave in Summer (Poster)
Dr. Vibha S Vaishnav, Ms. Sonal Solanki, Ms. Chandni Marwadi
Bharatiya Vigyan Sammelan – Agricultural Sciences – BVS 2023 - National Conference as a part of Vibrant Gujarat, 21-23 December, 2023
22. Comparison of various systems of Yoga and Framework of the Integral Yoga (Poster)
Vibha S Vaishnav, Dr. Mrs. Smruti B Vaishnav, Dr. Bhalendu S Vaishnav
Bharatiya Vigyan Sammelan – Indian Knowledge System – BVS 2023 - National Conference as a part of Vibrant Gujarat, 21-23 December, 2023
23. Green practices for Sustainable Development at Sardar Patel University, India and proposed Inclusive Climate Action Programmes (Poster)
Dr. Vibha S Vaishnav
6th Global Summit of Research Institutes for Disaster Risk Reduction (GADRI)
Organized by University of Kyoto, Japan during 15 to 17 March, 2023
24. Inclusive Climate Action Programme at Sardar Patel University, India (Poster)
Dr. Vibha S Vaishnav
6th Global Summit of Research Institutes for Disaster Risk Reduction (GADRI)
Organized by University of Kyoto, Japan during 15 to 17 March, 2023
25. ALL Inclusive Initiatives of “Green & Sustainable Development” - as a step towards attaining the behavioural change – to diminish & prevent the risk of Disasters - *a case study of Sardar Patel University and Anand District Community Science Centre, India*
Dr. Vibha S Vaishnav
6th Global Summit of Research Institutes for Disaster Risk Reduction (GADRI)
Organized by University of Kyoto, Japan during 15 to 17 March, 2023
26. Integral Yoga for Women (Oral)
Dr. Vibha S Vaishnav
2nd National Shri Aurobindo Mahila Pathachakra Conference at Kolkata, West Bengal, 03/12/2023
27. Instruments used in Chandrayaan 3 and preliminary study of the outcome of the Measurements (Poster)
Ms. Sonal Solanki, Ms. Chandni Marwadi and Dr. Vibha S Vaishnav
National Seminar on Opportunities in Physical Sciences and Multidisciplinary Research for Sustainable Development” held on 12th March, 2024
28. Design of Smart Multiparameter Control System for a Greenhouse (oral)

Ms. Chandni Marwadi, Ms. Sonal Solanki and Dr. Vibha S Vaishnav
National Seminar on Opportunities in Physical Sciences and Multidisciplinary Research
for Sustainable Development” held on 12th March, 2024

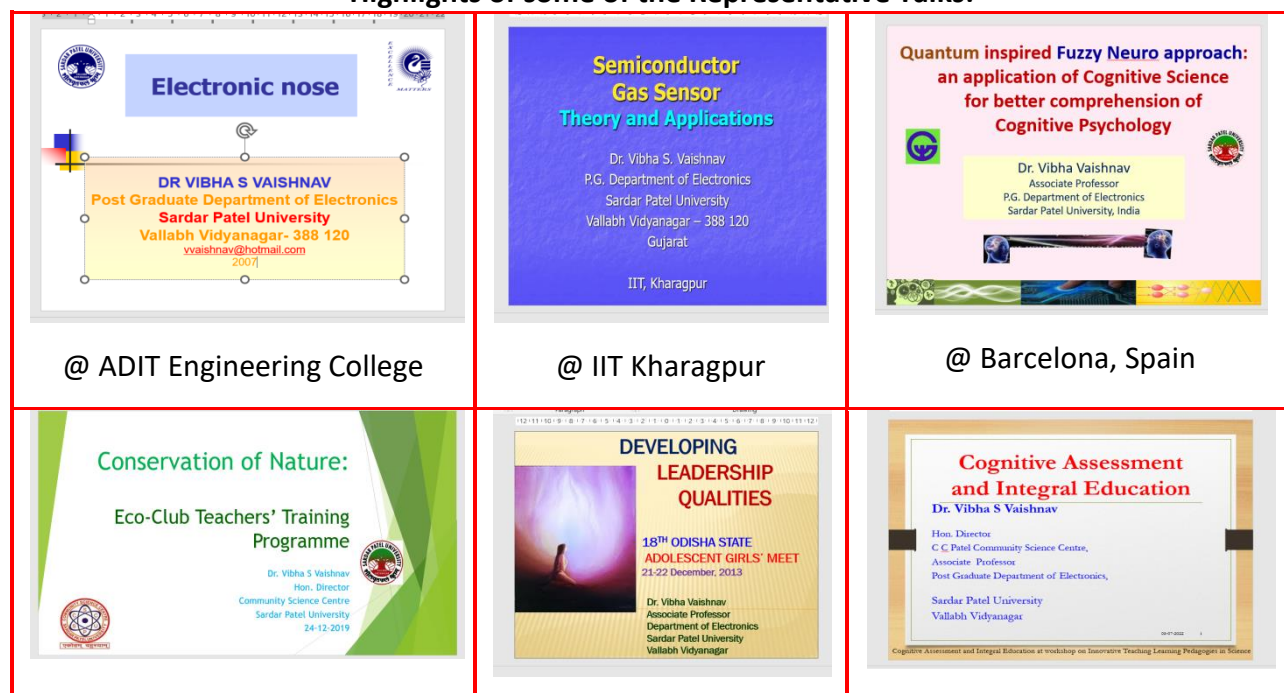
29. Electronic Nose: Concept And Applications (Oral)
Dr. Vibha S Vaishnav (oral)
National Seminar on Opportunities in Physical Sciences and Multidisciplinary Research
for Sustainable Development” held on 12th March, 2024
30. Wave-Particle duality, Consciousness and Health” (Poster).
Dr Vibha Suryakant Vaishnav, Dr. Suryakant V. Vaishnav, Dr. Bhalendu S. Vaishnav
9th European Conference on Religion, Spirituality and Health Paracelsus Medical
University, Salzburg, Austria and the Research Institute for Spirituality and Health,
Switzerland, May 16-18, 2024
31. Vital Empowerment (Oral)
Dr. Vibha S Vaishnav
In the session of Integral Empowerment for Women at the 3rd National Shri Aurobindo
Mahila Pathachakra Conference at Bhilai, Chhattisgarh, 21/12/2024
32. Flexible Wearable Glucose Monitoring CMOS–MEMS
Biosensors: A Review (Poster)
Vivekkumar A. Jariya, Himanshu M. Zala, Urmesh B. Trivedi, Vibha S. Vaishnav*
International Summit on Advanced Semiconductor Materials and Technologies ISASMT
25-01-2026 at Surat
33. Quantum Dot Light Emitting Diodes (QLEDs): A Review of Working Principles, Materials,
Device Architectures, Performance Metrics and Applications (Poster)
Himanshu M. Zala, Vivekkumar A. Jariya, Narendrakumar N. Parmar, Parthivkumar B.
Parmar, Vibha S. Vaishnav*
International Summit on Advanced Semiconductor Materials and Technologies ISASMT
25-01-2026 at Surat
34. Transparent Ultrasonic Sensors: A Review (Poster)
Ravi G. Solanki, Rushit R. Narea, Heena V. Rana, Manashri V. Hirapra, Vibha S. Vaishnav*
International Summit on Advanced Semiconductor Materials and Technologies ISASMT
25-01-2026 at Surat
35. Transparent Photovoltaic Cells: A Review of Working Principles, Materials, Device
Architectures, Performance Metrics and Applications (Poster)
Ravi G. Solanki, Rushit R. Nare, Heena V. Rana, Manashri V. Hirapra, Vibha S. Vaishnav*
International Summit on Advanced Semiconductor Materials and Technologies ISASMT
25-01-2026 at Surat

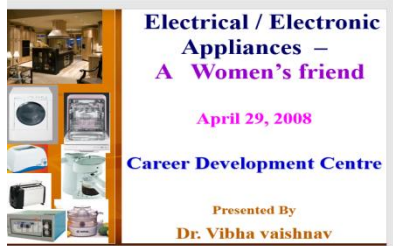
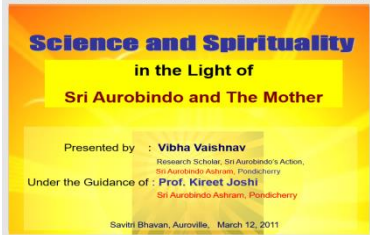
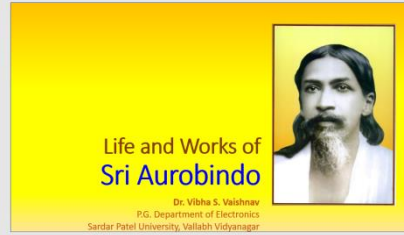
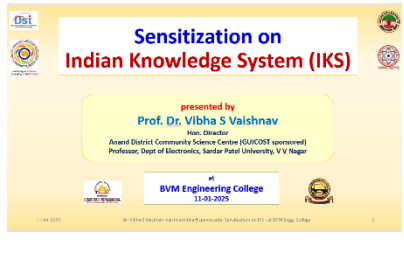
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36. Recent Advances in Semiconductor-Based Biosensors for Non-Invasive Health Monitoring: A Review and Proposed SAW-Enhanced Hybrid Architecture (Poster)
Dr. Urmesh Trivedi, Mr. Bhumi Devnani, Neeten Vasava, Gaurav Kaloliya, Prachi Pal and Dr. Vibha S. Vaishnav*
GSBTM, ANRF & DBT sponsored International Conference on “Convergent and Innovative Science for Health, Technology, and Sustainability (CISHTS -2026)
Department of Applied and Interdisciplinary Sciences, Sardar Patel University, Vallabh Vidyanagar -3883120, March 6-7, 2026.
37. Convergent Science Outreach: A University-Led Approach to Innovation in Community Health, Technology, and Sustainable Living (Poster)
Mital Patel, Hiral Prajapati, Sonal Solanki, Manauti Chaudhari and Vibha Vaishnav*
GSBTM, ANRF & DBT sponsored International Conference on “Convergent and Innovative Science for Health, Technology, and Sustainability (CISHTS -2026)
Department of Applied and Interdisciplinary Sciences, Sardar Patel University, Vallabh Vidyanagar -3883120, March 6-7, 2026.
38. Addressing the Health Impacts of Climate Change through Integrated Community Initiatives (Poster)
Sonal Solanki, Vibha Vaishnav*
GSBTM, ANRF & DBT sponsored International Conference on “Convergent and Innovative Science for Health, Technology, and Sustainability (CISHTS -2026)
Department of Applied and Interdisciplinary Sciences, Sardar Patel University, Vallabh Vidyanagar -3883120, March 6-7, 2026.
39. Smart Healthcare for All: Role of AI & Data Science in Community Development (Oral)
Manauti Chaudhari, Sonal Solanki, Mital Patel, Hiral Prajapati, Vibha Vaishnav*
GSBTM, ANRF & DBT sponsored International Conference on “Convergent and Innovative Science for Health, Technology, and Sustainability (CISHTS -2026)
Department of Applied and Interdisciplinary Sciences, Sardar Patel University, Vallabh Vidyanagar -3883120, March 6-7, 2026.
(presented by Manauti Chaudhari)
40. Advanced Materials for Energy Storage: Supercapacitors and Batteries (Poster)
Hiral Prajapati, Vibha Vaishnav*
GSBTM, ANRF & DBT sponsored International Conference on “Convergent and Innovative Science for Health, Technology, and Sustainability (CISHTS -2026)
Department of Applied and Interdisciplinary Sciences, Sardar Patel University, Vallabh Vidyanagar -3883120, March 6-7, 2026.
41. Worked as a resource Person in the Sri Aurobindo Youth Conference – 7 Cities, 7-Themes – an International Conference organized jointly by Sri Aurobindo Chair of Integral Studies, Sardar Patel University and Auroville Foundation at Vallabh Vidyanagar on 06-03-2024.

42. Worked as a Moderator in a Symposium – *Sanniddhi*, organized by Gujarat Sahitya Academy, on “Ramayan and Mahabharat in the light of Sri Aurobindo” on 23-05-2025.
43. Worked as a Moderator in the 1st Notional Educational Seminar on Resurgence of Sri Aurobindo's Integral Education in India, organized at SRI AUROBINDO SADHANALAYA, Sri Ayodhya, Uttar Pradesh, held on 29h March 2025.
44. Worked as the **Organizing Secretary of 4th National Sri Aurobindo Women’s Study Circle (Mahila Pathchakra) Conference** held at Sri Aurobindo Nivas, Vadodara, during December 1–2, 2025, on the theme: “Women and Integral Education in India’s Resurgence: *Reflections from Prof. Kireet Joshi*”, jointly organized by Sri Aurobindo Nivas, Vadodara, The Maharaja Sayajirao University of Baroda, Auroville Foundation, Sardar Patel University, Auro University, and Gujarat Sahitya Academy, with Children’s Research University and Indian Institute of Teacher Education (IITE), Gandhinagar as Knowledge Partners.
45. Worked as a Moderator in the 2nd Edition of the Auroville Literature Festival – in the English Segment held during 19th to 21st December, 2025 – for (i) The Reading of The Life Divine by Sri Aurobindo and (ii) The Kireet Joshi Session.
46. Assisted in Coordinating and Worked as a Moderator in 02 sessions at the 2nd Global Spirituality Mahotsav, held during 1st to 3rd March, 2026 at Auroville.

(17) Talks/ Lectures Delivered : around 70 on varied topics

Highlights of some of the Representative Talks:



@ Eco-Club Training Programme  @ Carrier Development Centre	@ Orissa  @ N V Patel Science College	@ Waymade Education College  @ Bangalore
 @ Auroville, Tamil Nadu	 @ Study Circle	 @ GCET Engineering College
 @ V&C Patel School, VVN	 @ IITE, Gandhinagar	 @ BVM Engineering College

(18) Conducted training Programmes/Workshops/Seminars/ ATAL Conclave /Technovation (Heckathon):
around 65,
worked as a Moderator in 06 National/International Events

(19) Foreign Trips for Academic purpose:

- (1) The University of Potsdam, **Germany** during September 5-10, 2004
- (2) The Open University, Milton Keynes, **UK** – September 15-17, 2004
- (3) Silesian University of Technology, Gliwice, Ustron, **Poland** – September 19-23, 2004
- (4) The British Psychological Society Barcelona, **Spain**, September, 2016

(5) University of Kyoto, [Japan](#), March, 2023

(6) Paracelsus Medical University, Salzburg, [Austria](#), May, 2024

(7) The Museum of Future, Dubai, [UAE](#), October, 2025

(20) Patents: 02

(1) Design Registration:

- Design No. 404391-001, Date:12-01-2024
- Title: Timer Based Automatic Cooling System for Livestock
- Names: 1. Sardar Patel University 2. Chandani Marwadi 3. Sonal Solani 4. Vibha Vaishnav
- Date of Issue: 07-03-2024



(2) Innovation Patent:

- Patent No.: 578593
- Application No.: 202421100495
- Date of Filing: 18-12-2024
- Date of Grant: 20-01-2026
- Patentee: 1. S. P. University, 2. Ms. Chandni B. Marwadi, 3. Dr. Vibha Vaishnav
- Title: A Wearable Obstacle Detection Belt
- Term : 20 years from the day of 18 -12- 2024



(21) Additional Information:

- Product of a well-known Educational Township of Gujarat, Vallabh Vidyanagar (KG to Ph.D), established by Shri Bhaikaka and Bhikhabhai upon inspiration received from **Sardar Patel**, the First Deputy Prime Minister of India -for **rural regeneration through Education of Post Independent India** through a Trust, Charutar Vidya Mandal.
- Alumna (1990) as well as a member of the Faculty of the P.G. Department of Electronics (1992 onwards), Sardar Patel University, a premier institute in the field of Electronics, which was established (in 1987) specially to generate manpower **having knowledge, expertise and integrated qualities of both scientific as well as technological aspects in the fields of Electronics**, by the Dept. of Science and Technology, Govt. of India, and was only one of its kind in Gujarat and one out of the 11 institutes granted by the Government at that time.
- Ph.D. (Electronics) scholar of Prof. Nirmal G Patel, a 5th Generation Ph.D. scholar of **Nobel Laureate Sir J J Thomson who discovered electron**.
- **Post Doctoral Research Scholar of Prof. Kireet Joshi**, - Formerly Educational Advisor to the then Hon'ble Prime Minister India, Mrs. Indira Gandhi, Chairman, UNESCO Committee on International Education (1983-87) and **Educational Advisor** to then Chief Minister of Gujarat (2008-10), presently the Prime Minister of India, **Hon'ble Shri Narendra Modi**.
- **Student of Sri Aurobindo's and the Mother's teachings and Integral Yoga.**

Vision:

"All Life is Yoga with an ascending movement for manifestation of The Supramental Consciousness upon the Earth".

She views all activities of life as potential means of manifesting the concealed Divinity.

Mission:

To provide a platform and milieu for the transformation of human nature into Divine and facilitate the Change of Consciousness in every sphere of life.

Aim:

To become an humble and abiding instrument in the service of Sri Aurobindo and The Mother, the torchbearers and forerunners of the Supramental transformation of humanity. She aspires to work for the **Renaissance in India in the light of Sri Aurobindo and The Mother**.

July, 2026, Vallabh Vidyanagar, Gujarat, India

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