

Somaiya Vidyavihar University

Name: Dr. Sudha Gupta			E-mail: sudhagupta@somaiya.edu		
Contact No: +912266449205, 9016, 9820848155					
Department/Section: Electronics Engineering					
College: K J Somaiya College of Engineering					
DOJ Somaiya: 2-1-2004		Career Experience: 28__ Yrs		Industry Experience:_ _01 _Yrs	
Present Academic Designation: Professor			Present Administrative Designation: Associate Dean		

Area of research/specialization and Courses Delivered
<p>Research domain/interests/areas</p> <ol style="list-style-type: none"> 1. AI and ML 2. Digital Image Processing 3. IoT 4. Communication Networks 5. Data communication and Networking <p>Courses Delivered</p> <ol style="list-style-type: none"> 1. AI and Expert system 2. Neural Network and Fuzzy System 3. Digital Image Processing 4. Data communication and Networking 5. Digital image processing 6. Computer network 7. IoT, Industrial IoT 8. Wireless Sensor Network and IoT 9. Machine learning 10. Cloud Computing

Recognition as a teacher by any University	UG: Yes	PG: Yes	Ph.D : Yes
Details of Recognitions <ol style="list-style-type: none"> 1. Somaiya Vidyavihar University 2. Mumbai university 			

Education					
Examination	Name of the Degree	University/Board	Institute/College	Year	CPI/SPI/ %Marks
Ph.D	PhD in Technology (Electrical Engineering)	Mumbai university	V.J.T.I., Mumbai -19, Mumbai University, India	2017	Thesis Awarded on 10th April 2017
PG	ME in Electronics Engineering	Mumbai university	V.J.T.I., Mumbai -19, Mumbai University, India	June 2001	65%
UG	BE in Electronics Engineering	Vikram University, Ujjain M.P. India	Govt. Engineering college, Ujjain M.P. India	June 1993	75.6%
Diploma					
NET/SET/Other					

Somaiya Vidyavihar University

Notable Experience Details					
Sr. No	Name of the organization	Designation	Date of Joining	Date of Leaving	Experience (Years)
1.	A.C. Patil college of Engineering Koperkhairane Navi Mumbai.	Lecturer	11 th February 1997	to 1 st January 2004	7 years
2.	Govt. Engineering College Bhopal M.P.	Lecturer	11 July 1995	31 st December 1995	6 Months
3.	Philips Bhopal (M.P.)	Customer Support Engineer	1 st Oct.1993	16 th Nov.1994	One year

Research Accomplishments and Projects		
No of students pursuing Ph.D as on date:03	No of students completed Ph.D as on date:	
No of students completed PG thesis / Project work as on date: 18	No of students / groups completed UG projects as on date: 68	
Publications Total: 50	Number of Peer review Journal papers:08	Number of Conference papers:
<p>Details of Publications:</p> <ul style="list-style-type: none"> Paper published: 50 (Paper published: 50 (IEEE Transactions, IEEE letters, Elsevier, springer, inderscience Journal, Progress In Electromagnetics Research, IEEE international conference, international journal) Poster Presentation:3 Book/Book chapter/Book review: 5 Research Proposal: completed 02, ongoing 02, Submitted-04 <p>International Journals</p> <ol style="list-style-type: none"> 1. Sss 2. Sss 3. sss <p>National Journals</p> <ol style="list-style-type: none"> 1. Sss 2. Sss <p>Conferences</p> <ol style="list-style-type: none"> 1. Dfg 2. Gd <p>Books/Book Chapters</p> <ol style="list-style-type: none"> 1. Dsss 2. Sss 		
Patents/Copy Rights		
No of Research / consultancy / projects completed: 01 Rs: 30,000	No of Research / consultancy / projects on-going:02 Rs: 65,000	No of Research / consultancy / projects on applied as on date: Rs:
Details of Research / consultancy / projects:		

Somaiya Vidyavihar University

Completed (01)

1. Design and implementation of Fundus camera for detection of Diabetic Retinopathy

On-going (01)

1. Design and development of drip monitoring of IV to provide safety healthcare in ICU

Applied (02)

IPR/ Copyrights---

- **FDPs/Seminars/Workshops/Training Programs Attended/ Organized/ Delivered STTP/workshop Organised: Technical-7 and 7 Social initiatives**
 - **STTP/FDP/Workshop Attended: 40**

Attended (40)

Name of the Course	Dates /Duration	Venue
AICTE Training And Learning (ATAL) Academy FDP on "WSN and IoT"	10th Feb to 14th Feb 2022	Rungta College of Engineering and Technology, Bhilai.
AICTE Training And Learning (ATAL) Academy FDP on "Industrial internet of things using Labview"	3rd to 7th Jan 2022	KLE Dr. M.S. Sheshgiri College of Engineering & Technology, Belagavi.
AICTE Training And Learning (ATAL) Academy FDP on "Recent trends and advances in ANN and Deep learning"	20 to 24th Dec 2021	Delhi Technological University, Delhi.
AICTE Training And Learning (ATAL) Academy FDP on "Data Sciences"	From 15 th to 19 th 2021 /One week	Institute of Aeronautical Engineering. Director ATAL
AICTE Training And Learning (ATAL) Academy FDP on "Internet of Things"	From 1 st to 5 th Feb 2020/one week	Institute of Technical teachers training and research Chainni
FDP on "Sensors, IoT and Machine learning"	From 1 st to 5 th June 2020/one week	KJ Somaiya College of Engineering Mumbai
FDP on "Future of Automation and Control Technology"	From 26 th to 30 th December 2020/ One week	VJTI Mumbai
FDP on Recent trends in Green Energy and Smart Grid Techology	From 20 th to 25 th December 2019	VJTI Mumbai
One week AICTE & ISTE approved course on "Networking Fundamentals with Hands on Training (in Collaboration with CISCOAcademy)	1 st July to 6 th July 2019	K.J.S.C.E. Vidyavihar
AICTE and ISTE approved one week course on Sensor and its Applications	4 th to 9 th Dec. 2017	K.J.S.C.E. Vidyavihar
QIP and continuation programmer IIT Delhi and COE-CNDS VJTI "Renewable energy and Ancillary Services".	9 th to 13 th December 2016	V.J.T.I. Matunga Mumbai
STTP "Machine learning and its Application	30 th June to 2 nd July 2014	IISC Bangalore
One week STTP on "Smart Grid: perspectives in cyber security"	13 th to 17 th January 2014	VJTI Mumbai
QIP and continuation programmer IIT Madras and COE-CNDS VJTI "Nonlinear State Estimation"	6 th to 8 th January 2014	VJTI Mumbai

Somaiya Vidyavihar University

Nonlinear Dynamical System: Modeling and Analysis	27 th and 28 th May, 2013	VJTI Mumbai
IETE Approved state level faculty Development Program on “Wireless Networking and Simulation”	2-3 March 2013	PCCOE Pune
Two week ISTE workshop on “Solar Photovoltaic : Fundamentals, Technologies and Applications ”	12 th December to 22 nd December, 2011	Conducted by IIT Bombay K.J.S.C.E. remote center
Workshop Jointly organized by IITB and KJSCE on “AEQULE Simulation/ Reconfigurable Hardware Lab”.	3 rd Sept. 2011	KJSCE Vidhyavihar Mumbai
Two days workshop on emerging technologies in communication network	26-27 August 2011	FCRCE Bandstand Bandra (W) Mumbai
Two week ISTE workshop on “Basic Electronics” conducted by IIT Bombay	28 th June to 8 th July, 2011	K.J.S.C.E. remote center
One Week QIP on “ Satellite Image Processing and Analysis”	3-7 Jan 2011	IIT Bombay
Workshop on “Best Practices in Network Simulator-2”	27 th to 30 th Dec 2010	Xavier Institute of Engineering Mahim, Mumbai
Goal setting, Team work and leadership workshop	4 th and 5 th April 2008	SIMSR Vidhya Vihar Mumbai
AICTE Approved and ISTE sponsored STTP on “Advancement in Wireless Communication”	23 rd to 27 th June 2008.	L.T. College of Engineering Koperkharane Navi Mumbai
International conference on wireless, mobile and multimedia organized by IET 11-12 Jan 2008.	Two days - 22 nd and 23 rd Feb. 2008	Intercontinental the grant Mumbai
Workshop on “Power Electronics”	One day -4 th March 2006	K.J.S.C.E. Vidhyavihar Mumbai
Seminar on “LASER and Applications”	5 TH and 6 TH Feb. 2006.	Shah & Ankar college of Engg.
one day Workshop on Information Technology Trends and challenges	30, August 2005	KJSCE
STTP on embedded system design (Organizing committee member)	13-24 June 2005	KJSCE Vidyavihar Mumbai
DEP course on “Communication Networking”	Four Months Jan-May 2005	IIT Mumbai

Somaiya Vidyavihar University

STTP course on “Telecommunication Networks” from 13 to 27 may 2005.	15 days 13 to 27 may 2005.	ISTE & EXTC Department KJSCE
STTP course on “Advance Digital Communication System”	15 days- Dec.6 th to 18 th 2004	Thadomal shahni college of Engineering Bandra.
Vacation Training	Two months, 21 st August to 13 th Oct. 2000	Larsen & Toubro Powai Mumbai
IET Annual Symposium & exhibition on emerging trends in electronics and telecommunication	18 th and 19 th April 2003	ACPCE Navi Mumbai
International conference and workshop on Electronics and Telecommunication Engineering	22-23 February 2013	Thakur college of Engineering and Technology
IET international conference on wireless, Mobile and Multimedia Networks	11-12 January 2008	The Inter-Continental Hotel The Grand Mumbai, India
Two days conference on “Institute Industry Interaction”	22 nd and 23 rd Feb.2007	University of Mumbai Fort.
National conference on Trends in Telecommunication: Copper to Fiber	17-18 March 2006	KJSCE Vidyavihar Mumbai Jointly organized by IEEE Bombay section, IETE Mumbai center and IET Maharashtra

Organized (07)

Name of the Course	Dates /Duration	Venue
Course coordinator for one week interdisciplinary AICT ISTE approved course on Industrial IoT system design from sensing to mitigation”	10 th June to 14 th June 2019	K.J.S.C.E. Vidyavihar
Organizing team member for Medical device hackathon (MEDHA 2018)	7 th & 8 th July 2018	K.J.S.C.E. Vidyavihar in association with IIT Bombay
Organizing team member for Medical device hackathon (MEDHA 2017)	16 th & 17 th July 2017	K.J.S.C.E. Vidyavihar in association with IIT Bombay
Course coordinator for one week ISTE approved STTP on “ Wavelet Transform and its application: Hands on”	19 th to 23 rd December 2016	K.J.S.C.E Vidyavihar Mumbai
Workshop Jointly organized by IITB and KJSCE on “AEQULE Simulation/ Reconfigurable Hardware Lab”.	3 rd Sept. 2011	KJSCE Vidhyavihar Mumbai
Coordinator for two days workshop on “ Industry institute interaction for	Two days - 22 nd and 23 rd Feb.2007	Convocation Hall University of Mumbai Fort.

Somaiya Vidyavihar University

Technology Development and implementation		
Course coordinator for ISTE approved interdisciplinary short term training Program on “Broadband communication current trends and applications”	Two weeks June 19th to 30th 2006.	K.J.S.C.E. Vidhyavihar Mumbai
Delivered (05)		

Event	Date	Venue	Award/Recognition Details
Power and Energy Summit 2019	17 th -19 th Feb 2019	Dubai UAE	Invited Speaker
AICT,ISTE Approved STTP on Recent trends in wireless Technology	20 th Jan 2021	SIES GST Mumbai	Invited speaker delivered lecture on IoT and sensor Network
AICT,ISTE Approved STTP on Sensor, IoT and Mechine learling	3 rd June 2020	KJSCE Vidyavihar	Invited speaker delivered lecture on
ISTE Approved STTP on "Advanced Networking & PLC Automation"	5 th Jan 2009	LT College of Engineering Navi Mumbai	Invited speaker Delivered lecture on Data communication and Networking and “Internet Networking”
ISTE approved STTP on “Broadband Communication current trends and applications”	June 19th to 30th 2006.	KJSCE Mumbai.	Invited speaker Delivered lecture on Wireless networking followed by Lab session

Notable Key Scholastic Achievements	
1.	<p>Working as a reviewer for Transactions/Journal and International conferences such as IEEE Access, IEEE PES Letters, IET GT&T, IEEE Trans on Neural Network and learning system, etc.</p> <ul style="list-style-type: none"> • IEEE Access and Springer 2022 • IEEE Transaction on Industrial Electronics 2021 • IUCEE- ICTIEE, 2020. • IEEE Access, 28th September 2019 • Recent Patents on Computer Science, 5th August 2019 • ICACE IEEE international conference FRCEC Bandra Mumbai. 12th Oct 2017 • IEEE Transactions on Industrial Informatics, review completed on 5th September 2017. • IEEE PES Letters, review completed on 2nd September 2017. • IEEE Access, review completed on 21st May 2017.

Somaiya Vidyavihar University

	<ul style="list-style-type: none"> • IEEE Power Engineering letters, review completed on 3rd May 2017. • IEEE Journal on Emerging and Selected Topics in Circuits and Systems, review completed on 8th Dec. 2016. • IEEE Transactions on Neural Networks and Learning Systems, review completed on 26th May 2016. • IET Journal on Generation, Transmission & Distribution, review completed on 9th March 2016. • IEEE Transactions on Human Machine Systems, review completed on 2nd August 2015. • IEEE Conference on Technologies for Future Cities 2021 IEEE CTFC-Oct 2021 • IEEE international conference Pillai College of Engineering Jan 2021. • International conference on Advances in computing Communication and control organized by Fr. C. R. C. E. Bandra Mumbai, on 23rd -24th January 20011. • International conference on Advances in computing Communication and control organized by Fr. C. R. C. E. Bandra Mumbai, on 23rd -24th January 2009. 																												
2.	<p>Awards and Recognition:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Event</th> <th style="text-align: center;">Date</th> <th style="text-align: center;">Venue</th> <th style="text-align: center;">Award/Recognition Details</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Power and Energy Summit 2019</td> <td style="text-align: center;">17th -19th Feb 2019</td> <td style="text-align: center;">Dubai UAE</td> <td style="text-align: center;">Invited Speaker</td> </tr> <tr> <td>Travel Grant to college teachers for presenting papers in international conference</td> <td style="text-align: center;">16th to 19th November 2018</td> <td style="text-align: center;">Bangkok Thailand</td> <td style="text-align: center;">Received UGC International Travel Grant</td> </tr> <tr> <td style="text-align: center;">KJSCE Research and Recognition Award</td> <td style="text-align: center;">For the year 2016-2018</td> <td style="text-align: center;">KJ Somaiya college of Engineering Vidyavihar Mumbai</td> <td style="text-align: center;">Paper publication in Elsevier Electrical Power and Energy system Journal</td> </tr> <tr> <td style="text-align: center;">8th international conference on Electronics communication and Network</td> <td style="text-align: center;">16th to 19th November 2018</td> <td style="text-align: center;">Bangkok Thailand</td> <td style="text-align: center;">Best Oral presentation</td> </tr> <tr> <td style="text-align: center;">ISTE staff Chapter KJSCE</td> <td style="text-align: center;">For the year 17-18</td> <td style="text-align: center;">KJ Somaiya college of Engineering Vidyavihar Mumbai</td> <td style="text-align: center;">Publication in peer reviewed Journal (Inderscience)</td> </tr> <tr> <td style="text-align: center;">KJSCE Research and Recognition Award</td> <td style="text-align: center;">For the year 2014-2016</td> <td style="text-align: center;">KJ Somaiya college of Engineering Vidyavihar Mumbai</td> <td style="text-align: center;">Paper publication in IEEE Transaction of Industrial Electronics</td> </tr> </tbody> </table>	Event	Date	Venue	Award/Recognition Details	Power and Energy Summit 2019	17 th -19 th Feb 2019	Dubai UAE	Invited Speaker	Travel Grant to college teachers for presenting papers in international conference	16 th to 19 th November 2018	Bangkok Thailand	Received UGC International Travel Grant	KJSCE Research and Recognition Award	For the year 2016-2018	KJ Somaiya college of Engineering Vidyavihar Mumbai	Paper publication in Elsevier Electrical Power and Energy system Journal	8 th international conference on Electronics communication and Network	16 th to 19 th November 2018	Bangkok Thailand	Best Oral presentation	ISTE staff Chapter KJSCE	For the year 17-18	KJ Somaiya college of Engineering Vidyavihar Mumbai	Publication in peer reviewed Journal (Inderscience)	KJSCE Research and Recognition Award	For the year 2014-2016	KJ Somaiya college of Engineering Vidyavihar Mumbai	Paper publication in IEEE Transaction of Industrial Electronics
Event	Date	Venue	Award/Recognition Details																										
Power and Energy Summit 2019	17 th -19 th Feb 2019	Dubai UAE	Invited Speaker																										
Travel Grant to college teachers for presenting papers in international conference	16 th to 19 th November 2018	Bangkok Thailand	Received UGC International Travel Grant																										
KJSCE Research and Recognition Award	For the year 2016-2018	KJ Somaiya college of Engineering Vidyavihar Mumbai	Paper publication in Elsevier Electrical Power and Energy system Journal																										
8 th international conference on Electronics communication and Network	16 th to 19 th November 2018	Bangkok Thailand	Best Oral presentation																										
ISTE staff Chapter KJSCE	For the year 17-18	KJ Somaiya college of Engineering Vidyavihar Mumbai	Publication in peer reviewed Journal (Inderscience)																										
KJSCE Research and Recognition Award	For the year 2014-2016	KJ Somaiya college of Engineering Vidyavihar Mumbai	Paper publication in IEEE Transaction of Industrial Electronics																										

Somaiya Vidyavihar University

	EESA Departmental day	For the year 2009 – 2010	Department of Electronics Engineering KJSCE	Best Teacher Award
	AICT,ISTE Approved STTP on Recent trends in wireless Technology	20 th Jan 2021	SIES GST Mumbai	Invited speaker delivered lecture on IoT and sensor Network
	AICT,ISTE Approved STTP on Sensor, IoT and Mechine learling	3 rd June 2020	KJSCE Vidyavihar	Invited speaker delivered lecture on
	ISTE Approved STTP on "Advanced Networking & PLC Automation"	5 th Jan 2009	LT College of Engineering Navi Mumbai	Invited speaker Delivered lecture on Data communication and Networking and "Internet Networking"
	ISTE approved STTP on "Broadband Communication current trends and applications"	June 19th to 30th 2006.	KJSCE Mumbai.	Invited speaker Delivered lecture on Wireless networking followed by Lab session

Notable Positions and Responsibility

1.	<p><u>University/College Administration work</u></p> <ul style="list-style-type: none"> • KJSCE-SVU admission 2020-21and 2021-22 <ul style="list-style-type: none"> ➤ Publicity and social media coordinator ➤ KJSCE-SVU Financial Add coordinator • Worked with Somaiya's fund raising campaign on Ketto Fund raising campaign to fight against covid 19 (from 31st March 2020 to June 2020) • KJSCE-SVU Degree distribution co-coordinator • KJSCE-SVU Associate Dean students' Affairs <ul style="list-style-type: none"> ➤ From 1st July 2021 to till date • Dean students' Affairs KJSCE <ul style="list-style-type: none"> ➤ From 1st July 2017 to June 2021 ➤ From 2nd June 2008 to 16th July 2011 • Convener of <ul style="list-style-type: none"> ➤ Extra- Curricular Activities Committee ➤ Student Disciplinary Committee ➤ Student welfare Committee • Coordinator of Student scholarship (Bluster and JSW) from July 2017 to till date • ME/MTech Coordinator from January 2012 to till date
----	---

Somaiya Vidyavihar University

- Member of
 - Team member of KJSCE Biomedical Engineering and Technology Innovation Centre (BETIC) from 2016 to till date
 - PUSH from July 2013 to till date
 - Exam unfair means committee from July 2011 to July 2013
 - Students Grievance redressal committee from 1st July 2017 to till date
 - Anti-ragging committee from 1st July 2017 to till date
- Associate HOD from 12th July 2012 to 30th July 2012

Interaction with Mumbai University:

- Worked as member board of studies University of Mumbai in electronics engineering for six years (**September 2006 to November 2012**).

Mumbai University Position Held	Year / Duration
Member Board of studies in Electronics Engineering University of Mumbai	Six years (May 2006 to Nov. 2012)
LIC Committee member for continuation of M.E. programme in Mumbai University	Visited Terna Engineering college Mumbai University, on 7 th Jan 2012
LIC Committee member for continuation of M.E. programme in Mumbai University	Visited Pillie's Engineering college Mumbai University on September 2011
LIC Committee member Mumbai University	Visited BVP college September 2007
DTE Work for Inspection of Unapproved courses/institute.	30/4/7 and 4/5/7 2007 Convener of the Committee
Committee formed by University of Mumbai to assess and collect information of MCA colleges	7,8 and 11/3/2007 Convener of the Committee
University examiner/paper setter/moderator	More than 10 years for UG and PG course: (PG: CT, ADC, CAN, IP), (UG: ANT, CCN, DCN, DIP, DCCT,CS,BCE)



Date: 9 / 2 / 2023

Signature of Faculty Member