


# Yadavindra College of Engineering

Punjabi University Guru Kashi Campus

Talwandi Sabo

## FACULTY ACADEMIC PROFILE

Name	Jagtar Singh Sivia				
Designation	Professor				
Department/ Section/ Subject	Electronics and Communication Engineering				
Official Address	Yadavindra College of Engineering, Punjabi University Guru Kashi Campus, Talwandi Sabo (Distt. Bathinda) Punjab India - 151302				
Contact No. (s)	+91-9119700099				
Email (s)	<a href="mailto:jagtarsivian@gmail.com">jagtarsivian@gmail.com</a> , <a href="mailto:jagtarsingh@pbi.ac.in">jagtarsingh@pbi.ac.in</a>				
Thrust Areas/ Research Interests	1. Antenna System Engineering 2. Artificial Neural Networks 3. Hybrid Fractal Antennas				
Subjects Taught	Basic Electrical Engineering, Basic Electronics Engineering, EMFT, Control Engineering, Advanced Digital System Design, Digital Electronic Circuits, Optical Fibre Communication, Signal Systems, Antenna System Engineering				
Total Experience (Years)	23	Teaching Experience	23	Industry Experience	6 Month
Employment History					
Membership of Punjabi University Academic Bodies	1. Member Board of Studies Punjabi University 2. Member DRB Punjabi University 3. Member Faculty of Engineering Punjabi University				
Administrative/ Academic Duties performed.	1. Head YDOE 2. Campus Incharge PUGKC 3. Section Incharge ECE YCOE 4. Section Incharge CSE YCOE 5. Warden Boys Hostel PUGKC 6. Sr. Warden Boys Hostel PUGKC				

## ACADEMIC QUALIFICATIONS

Degree	Degree Name	Thesis Title	University
PhD	PhD	NEUROCOMPUTATIONAL APPROACH FOR THE DESIGN OF MICROSTRIP ANTENNAS	SLIET LONGOWAL

## FACULTY RESEARCH PROFILE

Google Scholar ID Google Scholar Link	<a href="mailto:jagtarsivian@gmail.com">jagtarsivian@gmail.com</a> <a href="https://scholar.google.co.in/citations?user=al_A4bAAAAAJ&amp;hl=en">https://scholar.google.co.in/citations?user=al_A4bAAAAAJ&amp;hl=en</a>		
PhD Completed	06	PhD Ongoing	04
M.E./M. Tech. Thesis guided	43	M.E./M. Tech. Thesis Ongoing	00
Research Projects Completed		Research Projects Ongoing	
Papers in International Journals	36	Papers in National Journals	06
Papers in International Conferences	30	Papers in national Conferences	10
International Conferences attended	15	National Conferences attended	06
Books Published as single author		Books Published as joint author	01
Edited Books	02	Book Chapters	05
International Conferences/ Workshops/ Seminars /STCs/ FDPs organized	05	National Conferences/ Workshops/ Seminars/ STCs/ FDPs organized	03
Total International Conferences/ Workshops/ Seminars /STCs/ FDPs	25	Total National Conferences/ Workshops/ Seminars/ STCs/ FDPs attended	10
Memberships of International Professional Bodies	IAEN G	Memberships of national Professional Bodies	IEI
International Medals/ Awards/ Honors/ Scholarships	02	National Medals/ Awards/ Honors/ Scholarships	01
Research Grant received			
Foreign Country Visited For Academic Purpose	USA, CANADA, UK		
Editor/ Reviewer Of International Journals	07	Editor/ Reviewer Of national Journals	02
Session Chair/Invited Talks/Seminars in International Conferences	20	Session Chair/Invited Talks/Seminars in national Conferences	05

## PHD SUPERVISION DETAILS

Sr.	Candidate Name	Registration No.	University
<b>Completed</b>			
1	Swati	7141-12-1108	Punjabi University Patiala

2	Sunita Rani	YCE (TS) 2005-132	Punjabi University Patiala
3	Navneet Kaur	YCE(TS)2005-134	Punjabi University Patiala
4	Manpreet Kaur	7141-15-1163	Punjabi University Patiala
5.	Sandeep Singh	YCE(TS)2010-280	Punjabi University Patiala
6	Navjot Kaur	A18821001	Guru Kashi University
<b>Ongoing</b>			
1	Amandeep Kaur Sidhu		Punjabi University Patiala
2	Gagandeep Kaur		SBS University Ferozpur
3	Gurpreet Bharti		Punjabi University Patiala
4	Hardeep Singh		Punjabi University Patiala

Publications							
Type	Authors	Title of the Paper	list of Journals	Journal's Name	Publication Place	ISSN	Vol./Page No./ Year
Research Paper - SCI Indexed Journal	INKWINDER SINGH BANGI, JAGTAR SINGH SIVIA	MINKOWSKI AND HILBERT CURVES BASED HYBRID FRACTAL ANTENNA FOR WIRELESS APPLICATIONS	(not set)	AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS		16180399, 14348411	99
Research Paper - SCI Indexed Journal	MANPREET KAUR, JAGTAR SINGH SIVIA	MINKOWSKI, GIUSEPPE PEANO AND KOCH CURVES BASED DESIGN OF COMPACT HYBRID FRACTAL ANTENNA FOR BIOMEDICAL APPLICATIONS USING ANN AND PSO	(not set)	AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS		16180399, 14348411	127
Research Paper - SCI Indexed Journal	SANDEEP SINGH SRAN, JAGTAR SINGH SIVIA	ANN AND IFS BASED WEARABLE HYBRID FRACTAL ANTENNA WITH DGS FOR S, C AND X BAND APPLICATION	(not set)	AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS		16180399, 14348411	30
Research Paper - SCI Indexed Journal	SUNITA RANI, JAGTAR S SIVIA	DESIGN AND DEVELOPMENT OF VIRTUAL INSTRUMENT FOR FAULT DIAGNOSIS IN FRACTAL ANTENNA ARRAY	(not set)	INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER AIDED ENGINEERING		1099047X	56
Research Paper - Scopus Indexed Journal	JAGTAR SINGH SIVIA, AMAR PARTAP SINGH PHARWAHA, TARA SINGH KAMAL	SEAANALYSIS AND DESIGN OF CIRCULAR FRACTAL ANTENNA USING ARTIFICIAL NEURAL NETWORKSRCH	(not set)	PROGRESS IN ELECTROMAGNETICS RESEARCH		1937-6472	2022
Research Paper - SCI Indexed Journal	SUMEET SINGH BHATIA, JAGTAR SINGH SIVIA, AMANDEEP KAUR SARAO	LANTERN LOGO SHAPED NOVEL MONOPOLE ANTENNA WITH SEMI-CIRCULAR NOTCH LOADED PARTIAL GROUND PLANE FOR ULTRA-WIDEBAND WIRELESS APPLICATIONS	(not set)	WIRELESS PERSONAL COMMUNICATIONS		0929-6212	2022
Research Paper - SCI Indexed Journal	JAGTAR SINGH SIVIA, SUMEET SINGH BHATIA	MEANDER AND KOCH HYBRID FRACTAL CURVE BASED DUAL HEXAGONAL RADIATING PATCH ANTENNA FOR QUAD BAND WIRELESS APPLICATIONS	(not set)	WIRELESS PERSONAL COMMUNICATIONS		0929-6212	2022
Research Paper - SCI Indexed Journal	NAVJOT KAUR, JAGTAR SINGH SIVIA, MAHENDRA KUMAR	DESIGN OF NESTED CIRCULAR RING-SHAPED ULTRA-WIDEBAND ANTENNA LOADED WITH SRR AND DEFECTED GROUND PLANE	(not set)	WIRELESS PERSONAL COMMUNICATIONS		0929-6212	2022
Research Paper - SCI Indexed Journal	GURPREET BHARTI, JAGTAR SINGH SIVIA	A DESIGN OF COMPACT WIDEBAND ANTENNA BASED ON HYBRIDIZATION OF MINKOWSKI FRACTAL CURVES ON HEXAGONAL PATCH AND PARTIAL GROUND PLANE WITH TRUNCATED CORNERS	(not set)	WIRELESS PERSONAL COMMUNICATIONS		0929-6212	2022
Research Paper - SCI Indexed Journal	NAVJOT KAUR, JAGTAR SINGH SIVIA, MAHENDRA KUMAR	A DESIGN OF PLANAR MONOPOLE ANTENNA FOR WIRELESS APPLICATIONS	(not set)	WIRELESS PERSONAL COMMUNICATIONS		0929-6212	2021
Research Paper - SCI Indexed Journal	SANDEEP SINGH SRAN, JAGTAR SINGH SIVIA	PSO AND IFS TECHNIQUES FOR THE DESIGN OF WEARABLE HYBRID FRACTAL ANTENNA	(not set)	INTERNATIONAL JOURNAL OF ELECTRONICS		00207217	

Document details saved successfully.

Type	Authors	Title of the Paper	list of Journals	Journal's Name	Publication Place	ISSN	Vol./Page No./ Year
Research Paper - SCI Indexed Journal	NAVNEET KAUR, JAGTAR SINGH SIVIA	DESIGN OF FREQUENCY RECONFIGURABLE PLANAR ANTENNA USING ARTIFICIAL NEURAL NETWORK	(not set)	INTERNATIONAL JOURNAL OF MICROWAVE AND WIRELESS TECHNOLOGIES		1759-0787	2021
Document details saved successfully.							
Research Paper - SCI Indexed Journal	BALWINDER SINGH BRAR, JAGTAR SINGH SIVIA	EXTENDED LENGTH AND ERROR-CORRECTING-CAPACITY OF FIRST-ORDER REED–MULLER CODE IN EXTENDED LENGTH RANGE	(not set)	WIRELESS PERSONAL COMMUNICATIONS		0929-6212	2021
Research Paper - SCI Indexed Journal	MANPREET KAUR, JAGTAR SINGH SIVIA, NAVNEET KAUR	SYMMETRIC CIRCULAR-SHAPED MULTIBAND HYBRID FRACTAL ANTENNA USING TLBO APPROACH: DESIGN AND MEASUREMENT	(not set)	INTERNATIONAL JOURNAL OF ELECTRONICS		00207217	2021
Research Paper - SCI Indexed Journal	NAVJOT KAUR, JAGTAR SINGH SIVIA, MAHENDRA KUMAR	SRR AND RECTANGULAR STUBS LOADED NOVEL FRACTAL ANTENNA REALIZATION FOR MULTIBAND WIRELESS APPLICATIONS	(not set)	WIRELESS PERSONAL COMMUNICATIONS		0929-6212	2021
Research Paper - SCI Indexed Journal	SUNITA RANI, JAGTAR SINGH SIVIA	JAGTAR SINGH SIVIA DEVELOPMENT OF VIRTUAL INSTRUMENT MODEL FOR PARAMETER ESTIMATION OF FRACTAL ANTENNA ARRAY	(not set)	INTERNATIONAL JOURNAL OF MICROWAVE AND WIRELESS TECHNOLOGIES		1759-0787	2021
Research Paper - SCI Indexed Journal	SANDEEP SINGH SRAN, JAGTAR SINGH SIVIA	ANN AND IFS BASED WEARABLE HYBRID FRACTAL ANTENNA WITH DGS FOR S, C AND X BAND APPLICATION	(not set)	AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS		16180399	2020
Research Paper - SCI Indexed Journal	NAVJOT KAUR, JAGTAR SINGH, MAHENDRA KUMAR	HEXAGONAL RING SHAPED DUAL BAND ANTENNA USING STAIRCASE FRACTAL GEOMETRY FOR WIRELESS APPLICATIONS	(not set)	L WIRELESS PERSONAL COMMUNICATIONS		0929-6212	2020
Research Paper - SCI Indexed Journal	NARINDER SHARMA, SUMEET SINGH BHATIA, VIPUL SHARMA, JAGTAR SINGH SIVIA	AN OCTAGONAL SHAPED MONOPOLE ANTENNA FOR UWB APPLICATIONS WITH BAND NOTCH CHARACTERISTICS	(not set)	WIRELESS PERSONAL COMMUNICATIONS		0929-6212	2020
Research Paper - SCI Indexed Journal	MANPREET KAUR, JAGTAR S SIVIA	GIUSEPPE PEANO AND CANTOR SET FRACTALS BASED MINIATURIZED HYBRID FRACTAL ANTENNA FOR BIOMEDICAL APPLICATIONS USING ARTIFICIAL NEURAL NETWORK AND FIREFLY ALGORITHM	(not set)	INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER AIDED ENGINEERING		1099-047X	2020
Research Paper - SCI Indexed Journal	SWATI JINDAL, JAGTAR SINGH SIVIA, HARMINDER SINGH BINDRA	DEFECTED GROUND BASED FRACTAL ANTENNA FOR S AND C BAND APPLICATIONS	(not set)	WIRELESS PERSONAL COMMUNICATIONS		0929-6212	2020
Research Paper - SCI Indexed Journal	MANPREET KAUR, JAGTAR SINGH SIVIA	ANN-BASED DESIGN OF HYBRID FRACTAL ANTENNA FOR BIOMEDICAL APPLICATIONS	(not set)	INTERNATIONAL JOURNAL OF ELECTRONICS		00207217	2019

Type	Authors	Title of the Paper	list of Journals	Journal's Name	Publication Place	ISSN	Vol./Page No./ Year
Research Paper - SCI Indexed Journal	MANPREET KAUR, JAGTAR SINGH SIVIA	MINKOWSKI, GIUSEPPE PEANO AND KOCH CURVES BASED DESIGN OF COMPACT HYBRID FRACTAL ANTENNA FOR BIOMEDICAL APPLICATIONS USING ANN AND PSO	(not set)	AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS		16180399	2019
Document details saved successfully.							
Research Paper - SCI Indexed Journal	SWATI JINDAL, JAGTAR SINGH SIVIA, HARMINDER SINGH BINDRA	HYBRID FRACTAL ANTENNA USING MEANDER AND MINKOWSKI CURVES FOR WIRELESS APPLICATIONS	(not set)	WIRELESS PERSONAL COMMUNICATIONS		0929-6212	2019
Research Paper - SCI Indexed Journal	SWATI, JAGTAR SINGH SIVIA, HARMINDER SINGH BINDRA	SPRP: A SECURED ROUTING PROTOCOL FOR DELAY TOLERANT NETWORKS	(not set)	INTERNATIONAL JOURNAL OF SENSOR NETWORKS		0929-6212	2019
Research Paper - SCI Indexed Journal	SWATI BANSAL, JAGTAR SINGH SIVIA, HARMINDER SINGH BINDRA	DESIGN, IMPLEMENTATION AND ANALYSIS OF ROUTING BASED ATTACK MODEL FOR DELAY TOLERANT NETWORKS FOR PROPHET ROUTING PROTOCOL	(not set)	INTERNATIONAL JOURNAL OF SENSOR NETWORKS		0929-6212	2019
Research Paper - SCI Indexed Journal	INKWINDER SINGH BANGI, JAGTAR SINGH SIVIA	MOORE, MINKOWSKI AND KOCH CURVES BASED HYBRID FRACTAL ANTENNA FOR MULTIBAND APPLICATIONS	(not set)	WIRELESS PERSONAL COMMUNICATIONS		0929-6212	2019
Research Paper - SCI Indexed Journal	SUMEET SINGH BHATIA, JAGTAR SINGH SIVIA, NARINDER SHARMA	JAGTAR SINGH SIVIA AN OPTIMAL DESIGN OF FRACTAL ANTENNA WITH MODIFIED GROUND STRUCTURE FOR WIDEBAND APPLICATIONS	(not set)	WIRELESS PERSONAL COMMUNICATIONS		0929-6212	2018
Research Paper - SCI Indexed Journal	AMANDEEP K SIDHU, JAGTAR S SIVIA	A NOVEL DESIGN OF WIDEBAND KOCH LIKE SIDED SIERPINSKI SQUARE CARPET MULTIFRACTAL ANTENNA	(not set)	APPLIED COMPUTATIONAL ELECTROMAGNETICS SOCIETY JOURNAL (ACES)		1054-4887	2018
Research Paper - SCI Indexed Journal	INKWINDER SINGH BANGI, JAGTAR SINGH SIVIA	MINKOWSKI AND HILBERT CURVES BASED HYBRID FRACTAL ANTENNA FOR WIRELESS APPLICATIONS	(not set)	AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS		16180399	2018
Research Paper - SCI Indexed Journal	KARMJEET KAUR, JAGTAR SINGH SIVIA	A COMPACT HYBRID MULTIBAND ANTENNA FOR WIRELESS APPLICATIONS	(not set)	WIRELESS PERSONAL COMMUNICATIONS		0929-6212	2017
Research Paper - SCI Indexed Journal	JAGTAR SINGH SIVIA, GURPREET KAUR, AMANDEEP KAUR SARAO	A MODIFIED SIERPINSKI CARPET FRACTAL ANTENNA FOR MULTIBAND APPLICATIONS	(not set)	WIRELESS PERSONAL COMMUNICATIONS		0929-6212	2017
Research Paper - SCI Indexed Journal	SUMEET SINGH BHATIA, JAGTAR SINGH SIVIA	A NOVEL DESIGN OF CIRCULAR MONOPOLE ANTENNA FOR WIRELESS APPLICATIONS	(not set)	WIRELESS PERSONAL COMMUNICATIONS		0929-6212	2017
Research Paper - SCI Indexed Journal	JAGTAR SINGH SIVIA, AMARPARTAP SINGH, TARA SINGH KAMAL	NEUROCOMPUTATIONAL APPROACH FOR FEED-POSITION ESTIMATION IN CIRCULAR MICRO-STRIP ANTENNA	(not set)	JOURNAL WULFENIA		1561-882X	2013

Type	Authors	Title of the Paper	list of Journals	Journal's Name	Publication Place	ISSN	Vol./Page No./ Year
Research Paper - Scopus Indexed Journal	NAVNEET KAUR, JAGTAR SINGH SIVIA	METASURFACE INCORPORATED FREQUENCY RECONFIGURABLE PLANAR ANTENNA FOR WIRELESS APPLICATIONS	(not set)	PROGRESS IN ELECTROMAGNETICS RESEARCH C		1937-8718	2021
Document details saved successfully.							
Research Paper - Scopus Indexed Journal	GURPREET BHARTI, JAGTAR SINGH SIVIA	A DESIGN OF MULTIBAND NESTED SQUARE SHAPED RING FRACTAL ANTENNA WITH CIRCULAR RING ELEMENTS FOR WIRELESS APPLICATIONS	(not set)	PROGRESS IN ELECTROMAGNETICS RESEARCH C		1937-8718	2021
Research Paper - Scopus Indexed Journal	MANPREET KAUR, JAGTAR SINGH SIVIA	ANN AND FA BASED DESIGN OF HYBRID FRACTAL ANTENNA FOR ISM BAND APPLICATIONS	(not set)	PROGRESS IN ELECTROMAGNETICS RESEARCH C		1937-8718	2020
Research Paper - Scopus Indexed Journal	SUMEET SINGH BHATIA, JAGTAR SINGH SIVIA	ON THE DESIGN OF FRACTAL ANTENNA ARRAY FOR MULTIBAND APPLICATIONS	(not set)	JOURNAL OF THE INSTITUTION OF ENGINEERS (INDIA): SERIES B		2250-2106	2019
Research Paper - Scopus Indexed Journal	AP SINGH AND TS KAMAL JAGTAR SINGH	ESTIMATION OF FEED POSITION OF A RECTANGULAR MICROSTRIP ANTENNA USING ANN	(not set)	IEI JOURNAL OF ELECTRONICS AND TELECOMMUNICATION		0251-1096	2010
Research Paper - Scopus Indexed Journal	AP SINGH JAGTAR SINGH	ON THE DESIGN OF A RECTANGULAR MICROSTRIP ANTENNA USING ARTIFICIAL NEURAL NETWORK	(not set)	IEI JOURNAL -ET		0251-1096	2009
Research Paper - Scopus Indexed Journal	AP SINGH AND TS KAMAL JAGTAR SINGH	ESTIMATION OF RESONANT FREQUENCY OF A CIRCULAR MICROSTRIP ANTENNA USING ARTIFICIAL NEURAL NETWORK	(not set)	ONLINE SPRINGER SERIES B JOURNAL OF THE INSTITUTION OF ENGINEERS (INDIA):		2250-2114	2012
Research Paper - Scopus Indexed Journal	JAGTAR SINGH SIVIA, AMAR PARTAP SINGH PHARWAHA, TARA SINGH KAMAL	ANALYSIS AND DESIGN OF CIRCULAR FRACTAL ANTENNA USING ARTIFICIAL NEURAL NETWORKS	(not set)	PROGRESS IN ELECTROMAGNETICS RESEARCH		1937-6472	2013
Book - Chapters	BHUPINDER KAUR ER, MANPREET KAUR DR, JAGTAR SINGH SIVIA***	WIRELESS COMMUNICATION AND mathematic	(not set)	DESIGN AND ANALYSIS OF SYMMETRICAL L-SHAPED SLOTTED MICROSTRIP PATCH ANTENNA FOR TRIPLE BAND APPLICATIONS		9789389673302	16-17
Book - Authored	U.S. SHAH JAGTAR SINGH	ANTENNA AND WAVE PROPAGATION	(not set)	ANTENNA AND WAVE PROPAGATION		9788184075106	WHOLE BOOK
Book - Chapters	MANPREET KAUR, JAGTAR SINGH SIVIA AND NAVNEET KAUR	EMERGING TRENDS IN WIRELESS COMMUNICATION	(not set)	ARTIFICIAL NEURAL BASED ANTENNA DESIGN A SLECTIVE REVEIW		9781922617224	105-122

Type	Authors	Title of the Paper	list of Journals	Journal's Name	Publication Place	ISSN	Vol./Page No./ Year
Book - Chapters	MANPREET KAUR, JAGTAR SINGH SIVIA AND NAVNEET KAUR	NEXT-GENERATION ANTENNAS ADVANCES AND CHALLENGES	(not set)	MODIFIED CIRCULAR-SHAPED WIDEBAND MICROSTRIP PATCH ANTENNA FOR WIRELESS COMMUNICATION UTILITIES		9781119791867	119-126
Book - Chapters	INKWINDER SINGH BANGI , JAGTAR SINGH SIVIA	ADVANCES IN WIRELESS COMMUNICATION AND MATHEMATICS	(not set)	DESIGN OF UWB ANTENNA FOR WIRELESS APPLICATIONS		9789385446986	29-36
Research Paper - SCI Indexed Journal	MANPREET KAUR AND JAGTAR SINGH SIVIA	ARTIFICIAL BEE COLONY ALGORITHM BASED MODIFIED CIRCULAR SHAPED COMPACT HYBRID FRACTAL ANTENNA FOR INDUSTRIAL SCIENTIFIC AND MEDICAL BAND APPLICATIONS	(not set)	INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER AIDED ENGINEERING		1099-0470	2022
Research Paper - SCI Indexed Journal	NAVNEET KAUR AND JAGTAR SINGH SIVIA	ARTIFICIAL NEURAL NETWORK BASED METASURFACE INSPIRED PLANAR FREQUENCY RECONFIGURABLE ANTENNA FOR WIRELESS APPLICATIONS	(not set)	INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER AIDED ENGINEERING		1099-0470	2021
Research Paper - SCI Indexed Journal	SUNITA RANI AND JAGTAR S SIVIA	DESIGN AND DEVELOPMENT OF VIRTUAL INSTRUMENT FOR FAULT DIAGNOSIS IN FRACTAL ANTENNA ARRAY	(not set)	INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER AIDED ENGINEERING		1099-0470	2020
Research Paper - Other Peer Reviewed Journals	AMANDEEP SINGH, JAGTAR SINGH SIVIA, KARMJEET KAUR	MULTIBAND HYBRID MICROSTRIP PATCH ANTENNA FOR L, S AND C BAND APPLICATIONS	16612	INTERNATIONAL JOURNAL OF CONTROL THEORY AND APPLICATIONS		NOT APPLICABLE	2017
Research Paper - Other Peer Reviewed Journals	I SINGH, JS SIVIA, D GUPTA	DESIGN OF MICROSTRIP FRACTAL ANTENNA FOR GPS AND AIRCRAFT SURVEILLANCE APPLICATIONS	16612	INTERNATIONAL JOURNAL OF CONTROL THEORY AND APPLICATIONS		NOT APPLICABLE	2017

Document details saved successfully.

**Seminars/ Conferences/ Workshops/ Training Programmes attended:**

Type	Name of the Course/ Title	Institute/ Venue	From	To	Days	Week	Sponsoring Agency	National/ International
Training Programme	ENGINEERING TODAY	YCOE TALWANDI SABO	07-01-2019	11-01-2019	4	1	PUNJABI UNIVERSITY	National
Training Programme	GSM AND 3G COMMUNICATION	NITTTR CHANDIGARH	05-09-2011	09-09-2011	4	1	MHRD GOVT OF INDIA	National
Training Programme	DSP AND ITS APPLICATIONS	NITTTR CHANDIGARH	02-02-2015	06-02-2015	4	1	MHRD GOVT. OF INDIA	National
Training Programme	RECENT TRENDS IN ANTENNA DESIGN	GURUKUL VIDYAPEETH INSTITUTE OF ENGINEERING AND TECHNOLOGY	16-06-2014	20-06-2014	4	1	PTU	National
Workshop	PATENT AWARENESS WORKSHOP	YCOE	11-12-2009	11-12-2009	0	0	PSCST AND PUNJABI UNIVERSITY	National