


Faculty Profile

Name of Faculty		: Dr. Gajanan Rangrao Patil		
Qualification, University and Year of graduation		:		
UG		: B. Tech. (Electronics) NIT Calicut 1989		
PG		: M.E.(Electronics) COEP, Pune 1992		
Area of Specialization		: Computer		
PhD		: Ph.D.(E&Tc) SCOE, Pune SPPU Research Center		
Area of Specialization		: Wireless Communication		
Total Experience:	Teaching	In AIT	: 17 Years	
		Outside AIT	: 10 Years	
	Industrial	-	: Nil	
Designation (Administrative positions, if any)		: Professor & Head		
Date of joining the institute		: Dept. of Electronics & Telecommunication Engg 14 Jan 2011		
Salary			Basic	Gross
	At the time of Joining	:	17460	76,560.00
	At present (June 2017)	:	46470	1,47,951.00
Approval Status		: Approved		
Promotions (In AIT)		: Professor From 01 Feb 2016		
Load taken (from last 5 years)		Year	Sem I	Sem II
		2011-12	-	Data Structures (Th & Pr)
		2012-13	Computer Networks (Th & Pr)	Data Structures (Th & Pr)
		2013-14	Digital Communication (Th & Pr)	i) Signal Coding and Estimation Theory ii) Object Oriented Programming (Th & Pr)
		2014-15	Digital Communication (Th & Pr)	Information Theory and Coding Techniques (Th & Pr)
		2015-16	Data Structures & Algorithms (Th & Pr)	Information Theory and Coding Techniques (Th & Pr)
		2016-17	Data Structures & Algorithms (Th & Pr)	Information Theory and Coding Techniques

			(Th & Pr)
Patents	:	Nil	
Number of research publications			
In Journals and conferences Since joining	:	17	
IPRs	:	-	
R&D and consultancy work With amount	:	1,40,000 BCUD Grant 2013-15 as CoInvestigator Rs. 11.00 Lakh for 3DPLM Product Innovation Lab QIP Grant of SPPU 2.00 Lakh	
Holding an incubation unit	:	-	
Interaction with Outside world	:		

Workshop / FDP Seminar/ STTP attended	Int. Journ.	Int. Conf.	Nat. Conf.	Books	Resource Person	Indust. Visits/ Projects/ MOUs	Workshop/F DP/ Seminar/ Conf. Organized	Committee Work/ Others
24	11	03	02	11	14	02	01	10

I. List of Publications: :

International Journal	:	<p>Year 2012-13</p> <p>1. Gajanan R Patil, Vishwanath K Kokate, "Simulation Study of Some Spatial Diversity Techniques for MIMO Wireless Communication Systems," International Journal of Emerging Technology and Advanced Engineering (ISSN 2250-2459, Volume 2, Issue 12, Dec. 2012) www.ijetae.com/files/Volume2Issue12/IJETAE_1212_38.pdf</p> <p>2. Gajanan R Patil, Vishwanath K Kokate, "Simulation Study of Some Spatial Multiplexing Techniques for MIMO Wireless Communication Systems," International Journal of Electronics Communication and Computer Engineering Engineering (Volume 3, Issue 6, ISSN (Online): 2249-071X, ISSN (Print): 2278-4209) Nov. 2012 www.ijecce.org/issue/395/show/publication</p> <p>Year 2013-14</p> <p>3. Gajanan R Patil, Vishwanath K Kokate, "Simplified Implementation of QRD-M Algorithms for MIMO Wireless Communication System," CiiT Journal of Wireless Communication, Sept. 2013, Vol. 5, No. 9, pp 392-397. www.ciiiresearch.org/wcseptember2013.html</p> <p>4. Gajanan R Patil, Vishwanath K Kokate, "A Combined Time and Frequency Domain Approach to Channel Estimation for SFBC MIMO-OFDM Wireless Communication System," International Journal of Computer Applications, Volume 93, Number 13, May 2014. www.ijcaonline.org/archives/volume93/number13/16274-6028</p> <p>Year 2014-15</p> <p>5. Gajanan R Patil, Vishwanath K Kokate, "A New Approach to Semi-blind Channel Estimation for MIMO Wireless Communication System," International Journal of Computer Applications, Volume 99, Number 3, Aug 2014. http://www.ijcaonline.org/archives/volume99/number3/17350-7823</p>
------------------------------	---	---

	<p>6. Gajanan R Patil, Vishwanath K Kokate, “An Investigation into Performance of MIMO Wireless Communication System with Semi-blind Channel Estimation”, International Journal of Wireless and Mobile Computing (Inderscience), Jan 2015, Volume 8, No.1, pp. 51-58. http://www.inderscience.com/info/inarticle.php?artid=66753</p> <p>7. Gajanan R Patil, Vishwanath K Kokate, “Joint Channel Estimation and Data detection for STBC MIMO-OFDM Wireless Communication System,” World Scientific Journal of Circuits, Systems and Computers, vol. 24, no.4, Feb. 2015. http://www.worldscientific.com/doi/abs/10.1142/S0218126615500590?src=recsys</p> <p>8. Gajanan R Patil, Vishwanath K Kokate, “Reduced Complexity Sphere Decoding Algorithms for MIMO,” Journal of Communications Software and Systems, vol.10, no.4, Feb. 2015. http://lab405.fesb.hr/jcomss/abstract.php?paper=8366</p> <p>Year 2015-16</p> <p>9. Gajanan R Patil, “An iterative semiblind channel estimation for wireless communication system”, International Journal of Latest Trends In Engineering And Technology, March 2016, Vol. 6 Issue 4. E-ISSN : 2278-621Xp-ISSN : 2319-3778 http://www.ijltet.org/journal//145942379519.pdf</p> <p>Year 2016-17</p> <p>Student Papers</p> <p>1. G.R. Patil, Neeraj Singh Bani, Prateek Kumar, Sumer Singh, “Accident Detection And Messaging System Technology”, International Journal on Advance Engineering and Research Development, Volume 3, Issue 4, pp.710-713, May 2016. e-ISSN : 2348-4470, p-ISSN : 2348-6406. http://www.ijaerd.com/papers/finished_papers/IJAERDV03I0513754.pdf</p> <p>2. Dr. G.R. Patil, Subham Kumar Sharma, Vikas Kumar Lathar, Vipul Tiwari , “Arduino Based Fall Detection and Tracking of Elderly” Imperial Journal of Interdisciplinary Research (IJIR), Volume 3, Issue 4, pp.710-713, May 2016. ISSN: 2454-1362 http://www.onlinejournal.in/IJIRV2I7/029.pdf</p>
<p>International Conference</p>	<p>Year 2013-14</p> <p>1. Gajanan R Patil, Vishwanath K Kokate, “Simplified Implementation of Sphere Decoding Algorithms for MIMO Wireless Communication System”, In Proc. International conference on Int. conf. on Eco-friendly Computing and Communication Systems-2013, 17-19 Oct 2013, pp 128-137.</p> <p>Year 2014-15</p> <p>2. Gajanan R Patil, Vishwanath K Kokate, “Joint Channel Estimation and Data Detection for SFBC MIMO OFDM Wireless Communication System”, In Proc. of IEEE International conference on Advances in Computing, Communication and Informatics-2014, 24-27 Sept. 2014. (978-1-4799-3080-7/14/\$31.00_c 2014 IEEE)</p> <p>3. Gajanan R Patil, Vishwanath K Kokate, “Enhanced Channel Estimation for Spatial Multiplexing MIMO OFDM Wireless Communication System,” In Proc. of IEEE International conference on Pervasive Computing-2015, 27, 8-10 Jan 2015.</p>
<p>National Journal</p>	<p>: Nil</p>
<p>National</p>	<p>Year 2010-11</p> <p>1. Dr. R K Prasad, Gajanan R Patil, “Novel method for measuring blood sugar</p>

Conference	level of diabetic subject by reagent strip using digital image processing”, NCET 2011, 15-16 Feb 2011. 2. Gajanan R Patil, Dr. R K Prasad “Adaptive Kalman Filter for Online Prediction of air-route.”, NCET 2011, 15-16 Feb 2011. Year 2011-12 3. Ranjani R, Shashank Avasthi, Shrey Kumar, Gajanan R Patil, “Android based Patient Monitoring System for diabetes Mellitus”, NCET 2011, 13-14 April 2012.
II. List of Books Published	:

Sr No.	Name of Book	Publisher	Month& Year
1	Computer Networks	Nirali Publication	Jan 2011
2	Signal Coding and Estimation Theory	Nirali Publication	Feb 2013
3	Data Structures & Algorithms	Nirali Publication	July 2013
4	Analog Communication	Nirali Publication	Feb 2013
5	Data Communication	Nirali Publication	Jan 2013
6	Foundation of Computer Networks	Nirali Publication	Jan 2014
7	Digital Communications	Nirali Publication	July 2014
8	Information Theory & Coding	Nirali Publication	Dec 2014
9	Computer Networks	Nirali Publication	June 2015
10	Wireless Networks	Nirali Publication	Jan 2016
11	Data Structures & Algorithms	Nirali Publication	June 2016

III. List of IPR's

Nil

IV. Details of R&D, MOU and Consultancy Work:

S#	Description	Year	Amount	Sanctioning Agency
1	Study and implementation of MIMO based wireless communication System	2013-15	1.4 Lakh	BCUD SP Pune University
2	Setting up of 3D PLM Product Innovation Lab, 3D PLM Pune	2016-17	11.00 Lakh	Under MOU with 3D PLM The industry sponsored Lab by 3DPLM was set-up with Grant of Rs. 11.00 Lakh and Equipment worth Rs. 15.00 Lakh. Internship for 13 Students. Interaction with 3DPLM executives for various activities related to Lab
	SPPU Pune QIP Grant	2016-17	91,000/-	The SPPU Pune QIP Grant for setting up e-learning facility worth Rs. 91,000/- was received under which a TV and LCD is procured.

V. Workshop/STTP/Seminars Attended:

Sr No	Name	Year/Date	National /International	Organiser
1	Workshop on Drafting of SE(Elex/E&Tc) Syllabus	19 & 20 Nov 2008	University	DYPIET, Pune-18
2	Workshop on Guidelines for SE(Elex/E&Tc) Syllabus	24 Oct 2008	University	SAE, Kondhawa
3	National Conference on Wireless Technologies -08.	29 to 31 Dec 2008	National	DYPIET, Pune
4	Insight 09	12 & 13 May 2009	State	Infosys, Pune
5	Syllabus Detailing of SE	12 th Jan 2010	University	GH Rasoni, A'nagar
6	Workshop on Instructional ethodologies for SE(Elex/E&Tc) Syllabus	13 th July 2008	University	Sandip Foundation's SIT&R Nashik
7	Workshop on Wimax	July 2010	National	IIIT, Pune
8.	One day Workshop on Syllabus exploration for TE(E&Tc)	07 Feb 2011	University	Sinhgad Institute of Technology & Science Narhe
9.	BE Syllabus Meeting	25 Mar 2011	University	BSCOE, Narhe
10.	BE Syllabus Finalisation Meeting	22 Apr 2011	University	RSCOE Pune
11.	National Conference on VLSI and Signal Processing (Session Judge)	01-07-2011	National	G H Rasoni Inst of Tech Pune
12.	Faculty Development Programme for Digital Communication (Resource Person)	05-07-2011	University	JSPM, RSIT Narhe, Pune
13.	One day workshop on Syllabus detailing of Computer Networks of BE(E&Tc) 2008 course	13-07-2011	University	ICOER, Pune
14.	One day workshop on Syllabus detailing of Mobile Communication of BE(E&Tc) 2008 course	16-07-2011	University	KKW COE, Nashik
15.	Guest Lecture on Digital Communication (Resource Person)	05-10-2011	University	BVCOEW, Pune
16.	Seminar on "Fundamentals & Advances in MIMO Communication Systems & Networks" and "Spectrum Sensing for Cognitive Radio " By Pro Marco Chiani	20-10-2011	International	RSCOE IEEE Student Chapter & Communication Society
17	State Level 2 Day workshop on Measurement Techniques in Optical & RF Communication by Agilent Technologies.	9/01/2011-10/01/2011	State	MESCOE, Pune
18	Army Technology Board Meeting	29/02/2012-01/03/2012	Natonal	MCEME Secunderabad
19	Basic Electronics Engineering	6/03/2012-	University	Univ of Pune

Sr No	Name	Year/Date	National /International	Organiser
	Syllabus Design	15/06/2012		
20	FDP on Data Structures & Algorithms	17-22 June 2013	University	RSCOE, Pune & BOS Pune
21	FDP on Object Oriented Programming	19-21-Dec 2013	University	AIT, Pune & BOS Pune
22	Workshop on Matlab by Mathworks	20 Sept 2013	State	Mathworks at Pune
23	FDP on Effective Teaching Techniques and Research Methodologies	20 June 2013	University	AIT Pune
24	STTP on SDR	8-10 June 2015	National	MESCOE, Pune
25	FDP on Intelligent Computing: Algorithm and Applications.	30 Nov 2015 to 12 Dec. 2015	National	MIT COE, Pune.
26	Online Course on Educational Technology for Engineering Teachers	07 Jan to 07 March 2016	National	IIT Mumbai
27	Workshop on SE (E&Tc) Syllabus finalization.	04 May 2016	University	MESCOE, Pune
28	Workshop on PLEXP	1 Feb 2017	National	3D PLM Pune
29	3D Verve	29 March 2017	National	3D PLM Pune
30	Deloitte Deans Summit, Hyderabad	13 & 14 April 2017	National	Deloitte Hyderabad

VI. List of Conferences Attended:

Sr No	Name	Year/Date	National /International	Organiser
1	International conference on Int. conf. on Eco-friendly Computing and Communication Systems-2013,	17-19 Oct 2013	International	Jaypee University of Information Techhnolgy, Solan, Himachal Pradesh, India
2	IEEE International conference on Advances in Computing, Communication and Informatics-2014	24-27 Sept. 2014	International	Galgotia College of Engineering and Technology, Greater Noida, U.P., India
3	IEEE International conference on Pervasive Computing-2015	8-10 Jan 2015	International	Singad College of Engineering Pune, India
4	IEEE international Conference on Advances in Electronics, Communication and Computer Technology-2016	2 Dec. 2017	International	RSCOE, Pune
5	International Conference on Internationalization of Higher Education 2017	9 & 10 April 2017	International	SIU, Pune

VII. Resource Person Details:

Sr No	Date	Description	Place and Target Audience	Role of individual
1	28 Feb 2013	Coding for Reliable Transmission and Storage	Staff and TE(E&Tc) students of MAE Alandi	Resource Person
2	01 Oct 2013	Digital communication	Staff & students of BVCOEW, Pune	Resource Person
3	17-22 June 2013	Data structures & Algorithms	RSCOE, Pune All Faculty under Pune Univ.	Resource Person
4	1 Oct 2013	Guest Lecture on Digital Communications	Staff and TE(E&Tc) students of BVCOE, Pune	Resource Person
5	19-21 Dec 2013	Faculty Orientation Workshop Object Oriented Programming	AIT Pune All Faculty under Pune Univ.	Resource Person & Coordinator
6	12-14 June 2014	Faculty Orientation Workshop on Digital Communication	MESCOE, Pune All Faculty under Pune Univ.	Resource Person & Coordinator
7	14 July 2014	Expert Lecture on Data Structures & Algorithms	MMCOE, Pune	Resource Person
8	11-13 Dec 2014	Faculty Orientation Workshop on ITCT	CCOEW, Pune All Faculty under Pune Univ.	Resource Person
9	11-13 June 2015	Faculty Orientation Workshop on Computer Networks	AISSMS IOIT Pune	Resource Person & Coordinator
10	11 Sept 2015	Expert Lecture on Digital Communication	Dr. DY Patil College of Engg. Ambi	Resource Person
11	12 Sept 2015	Expert Lecture on C and Data Structures	RSCOE, Pune	Resource Person
12	8 Jan 2016	Resource Person for Faculty Orientation Workshop for Wireless Networks (BE E&Tc)	BVCOE, Pune Faculty from colleges in SPPU.	Resource Person
13	23 March 2016	Guest Lecture on "Information Theory and Coding Techniques"	AISSMS IOIT, Pune.	Resource Person
14	09 June 2016	Expert Lecture on "Data Structures and algorithms" in FDP conducted by BoS SPPU	I ² IT, Pune.	Resource Person
15	15-17 Dec 2016	Expert Lecture on Object Oriented Programming in FDP conducted by BoS SPPU.	MESCOE Pune	Resource Person & Co-ordinator
16	9 Sept 2016	Guest Lecture on Digital Communication	PICT Pune	Resource Person

VIII. Industrial Visits/Projects

Sr No	Date	Description	Year of Students	Role of individual
1	Dec./Jan 2012, 2013, 2015	Visit to Southern Command Signal Regiment and Composite Signal Regiment	TE & BE E&TC	Organized Visit
2	2013-2015	AICTE BSNL EETP Course Year 2013-14 and 2014-15.	TE & BE E&TC	Nodal Officer
3	2016-17	3DPLM Product Innovation Lab	AIT Pune	Co-ordinator

IX. Workshop/STTP/Seminar/FDPs organized:

Sr No	Seminar/Workshop/Conference	Year/Date	Organiser
1	Faculty Orientation Workshop Object Oriented Programming	19-21 Dec 2013	Resource Person & Organizer.

X. Committee work/Reviewer/Session Chair:

Sr No	Date	Description	Role of individual
1	April-May 2013	Participation in Syllabus design of Pune Univ. for the Subjects Data Structures and Object Oriented Programming	Coordinator
2	April-May 2014	Participation in Syllabus design of Pune Univ. for the Subjects Digital communication and Information Theory and Coding techniques	Coordinator
3	April-May 2015	Committee member for design of revised Syllabus of BE(E&Tc) course of Pune Univ.	Coordinator
4	Oct 2014	Reviewer for IEEE INDCON Conference	Reviewer
5	Jan 2015	Reviewer for ICPC-2015 Conference	Reviewer
6	May 2015	IEEE Transactions on Wireless Communication	Reviewer
7	24-27 Sept. 2014	Session Chair at IEEE International conference on Advances in Computing, Communication and Informatics-2014, 24-27 Sept. 2014, Galgotia College of Engineering and Technology, Greater Noida, U.P.	Session Chair
8	April-May 2016	Participation in Syllabus design of Pune Univ. for the Subjects Data Structures and Object Oriented Programming	Coordinator
9	May 2016	Reviewer for IEEE CASP-2016 Conference	Reviewer
10	2016	Reviewer for Eurasip Journal of Wireless Communication and Networking	Reviewer

Name: Dr. GR Patil

Signature: _____