

Somaiya Vidyavihar University

Name: Kartik Ramesh Patel			E-mail: kartik@somaiya.edu		
Contact No: 9969657328					
Department/Section: Electronics and Telecommunication Engineering					
College: K J Somaiya College of Engineering					
DOJ Somaiya: 07/01/2016		Career Experience: 10 Yrs		Industry Experience: 0 Yrs	
				Teaching Experience: 10 Yrs	
Present Academic Designation: Assistant Professor			Present Administrative Designation: (Principal/Vice-Principal/ Associate Dean/ HOD etc)		

Area of research/specialization and Courses Delivered
Research domain/interests/areas <ol style="list-style-type: none"> 1. Wireless Communication 2. Quality of Service in the Next Generation Wireless Communication (5G, 6G) Courses Delivered <ol style="list-style-type: none"> 1. Wireless communication 2. Communication Systems

Recognition as a teacher by any University	UG: Yes	PG: No	Ph.D : No
Details of Recognitions			
1. Mumbai University			

Education					
Examination	Name of the Degree	University/Board	Institute/College	Year	CPI/SPI/ %Marks
Ph.D	Electronics and Telecommunication Engineering	Mumbai University	Rajiv Gandhi Institute of Technology	2020 (Year of admission)	Pursuing
PG	Electronics and Telecommunication Engineering	Mumbai University	V E S Institute of Technology	2015	8.92
UG	Electronics and Telecommunication Engineering	Mumbai University	V E S Institute of Technology	2010	74%
Diploma	Industrial Electronics	MSBTE	V E S Polytechnic	2007	83.15%
NET/SET/ Other	NA	NA	NA	NA	NA

Notable Experience Details					
Sr. No	Name of the organization	Designation	Date of Joining	Date of Leaving	Experience (Years)
1.	V E S Polytechnic	Lecturer	23/09/2013	06/01/2016	3
2.	K J Somaiya College of Engineering	Assistant Professor	07/01/2016	Till date	7

Research Accomplishments and Projects		
No of students pursuing Ph.D as on date: 00		No of students completed Ph.D as on date: 00
No of students completed PG thesis / Project work as on date: 00		No of students / groups completed UG projects as on date: 08
Publications Total: 15	Number of Peer review Journal papers: 03	Number of Conference papers: 12

Details of Publications:

International Journals

1. **Kartik Patel**, Dr. R.K. Kulkarni, "Ultra-wideband Wireless System"-IJAIEEM-2014 (International Journal) , special issue for International Technological Conference (ITECHCON-2014) , ISSN- 2319-4847.
2. **Kartik Patel**, Dr. R.K. Kulkarni, " Indoor radio propagation model analysis, wireless node distance and free space path loss measurements using Ultra-wideband (UWB) Technology" International Journal of Engineering Research and Application (IJERA), ISSN:2248-9622, Vol.5, Issue 6, (Part-4) June 2015, PP.20-32, Impact factor-1.67.

National Journals

1. Sangeeta Kulkarni, **Kartik Patel**, "Development of paperless load allocation tool for HOD using linked Google spreadsheets", Journal of Engineering Education Transformations, Volume 31, No.3, January-2018, ISSN 2349-2437, eISSN 2394-1707, pp-42-46. (8th and 9th January 2018)

Conferences

1. Kartik Patel, "**Development of Problem Solving Skills Amongst Undergraduate Engineering Students through a Team-Game-Tournament Collaborative Learning Method**", 2019 IEEE Tenth International Conference on Technology for Education (T4E), 9-11 December 2019, Electronic ISBN:978-1-7281-4227-2, DOI: 10.1109/T4E.2019.00019.
2. Kartik Patel, Aarti Phadke, Sangeeta Kulkarni, "**Development of Tool Based on G-Suit Application for Creation of Course Attainment Sheet**", Sixth International Conference on Transformations in Engineering Education (ICTIEE 2019), 10-11 January 2019, Chitkara University, Punjab.
3. Kartik Patel, "**Test Item Analysis for Effective Question Paper Design**", Sixth International Conference on Transformations in Engineering Education (ICTIEE 2019), 10-11 January 2019, Chitkara University, Punjab.
4. Kartik Patel, "**2C (Crossword, Concept Map): A Formative Assessment Approach to Engage Interdisciplinary Program Students in Wireless Communication Course**", 2018 IEEE Ninth International Conference on Technology for Education (T4E), 10-13 December 2018, Electronic ISBN:978-1-7281-1143-8, DOI: 10.1109/T4E.2018.00051
5. Kartik Patel, Swati Mahjan, "**Improvisation of Circuit Design and Analysis Skills of Students for Analog Electronics Course Using Virtual Labs**", 26th International Conference on Computers in Education, 26-30 November 2018, Bayanihan Center, Philippines.
6. Kartik Patel, "**The JIGSAW Classroom: ICT Enabled Implementation of Cooperative Learning Environment**", International Conference on Transformation in Engineering Education, 15-17 July 2018, SRM University, Amaravati, Andhra Pradesh.
7. Kartik Patel, "**Use of Active Learning Techniques and ICT tools to Inspire online and blended teaching-learning process**", An international multidisciplinary half yearly research journal ROYAL, Volume-VI, Issue-II, December-May-2017, Impact factor-4.42, ISSN-2278-8158, pp-79-94. (16th December 2017)
8. Kartik Patel, "**Free space optics (FSO)- Past, Present, Future and mathematical models of atmospheric turbulence for FSO link budget analysis**" ICRTCEE-2016, IJRITCC, 23rd January 2016, , ISSN:2321-8169, pp-65-71.
9. Kartik Patel, "**3D Password Future of digital lockers it will work...**" "2nd international conference on contours of digital technology" in association with CSI- Mumbai chapter ICCDT-2015, ISBN 978-93-5254-002-0. October-2015.
10. Kartik Patel, Dr. R.K. Kulkarni, "**Comparative Analysis of wireless Indoor Radio Propagation Models using Ultra-wideband (UWB) Technology**" "28th International Conference on Industrial Electronics and Electrical Engineering ICIEEE-CHENNAI", 26th July 2015, ISBN: 978-93-58465-63-5, PP.49-56.

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<p>11. Kartik Patel, Dr. R.K. Kulkarni, “Ultra-wideband Wireless System-survey ”-ITECHCON-2014 (International Conference) 2nd to 4th January 2014, at V.E.S. Institute of Technology, Chembur, Mumbai.</p> <p>12. Kartik Patel, “Location Independent Network Architecture for IPv6 (LIN6)”, 2nd National Conference on “Recent Trends in Wired & Wireless Communication” (NCRTWWC-13), 15 - 16 March 2013, South Indian Education Society’s Graduate School of Technology, Navi Mumbai, India.</p>		
No of Research / consultancy / projects completed: 00 Rs: <u>NIL</u>	No of Research / consultancy / projects on-going: 01 Rs: <u>95,50,212</u>	No of Research / consultancy / projects on applied as on date: 00 Rs: <u>NIL</u>
Details of Research / consultancy / projects: On-going <ol style="list-style-type: none"> 1. Investigating Techniques to Enhance Spectral Efficiency and Data Rate in 4G & 5G Communications, Funded by Somaiya Vidyavihar University, Amount sanctioned Rs. 95,50,212, Amount received for 1st year: Rs. 20,00,000 		

FDPs/Seminars/Workshops/Training Programs Attended/ Organized/ Delivered
Attended <ol style="list-style-type: none"> 1. Completed IIEECP-Phase-III certification course, organised by Indo Universal Collaboration for Engineering Education (IUCEE) 2. Completed 12 weeks IIEECP-Phase-II certification course, organised by Indo Universal Collaboration for Engineering Education (IUCEE) 3. Completed three-day hands-on face-to-face pre-certification workshop (IIEECP- Phase-I), organised by Indo Universal Collaboration for Engineering Education (IUCEE). 4. AICTE approved two week FDP (FDP 201x) on “Pedagogy for Online and Blended Teach Learning Process”, Conducted by IIT Bombay from September 14, 2017 to October 12, 2017. 5. AICTE approved two week FDP (FDP 101x) on “Foundation Program in ICT for Educati Conducted by IIT Bombay from August 3, 2017 to September 7, 2017. 6. AICTE approved two weeks FDP (FDP 301x) on “Mentoring Educators in Educati Technology”, Conducted by IIT Bombay from May 17 to June 27 2018.
Organized <ol style="list-style-type: none"> 1. Two days hands on workshop on “Wireless Communication System (1G to 5G): MATLAB and SIMULINK solutions” in collaboration with MathWorks on 10 and 12 August 2022. 2. ISTE approved STTP on “Practical Approaches in Wireless Communication”, Organized by Electronics and Telecommunication department, K.J. Somaiya College of Engineering, from 29th May to 2nd June 2017. 3. One week workshop under Texas university program on “IOT and advances in Embedded systems”, organized by Electronics and Telecommunication department, K.J. Somaiya College of Engineering, from 25th June to 29th June 2018. 4. AICTE-ISTE approved STTP on Teaching Methodologies for Core Electronics and Telecommunication Courses”, Organized by Electronics and Telecommunication department, K.J. Somaiya College of Engineering, from 2nd July to 7th July 2018.
Delivered <ol style="list-style-type: none"> 1. Conducted session on “Outcome Based Education” (OBE) for the NAAC criterial in-charge the Somaiya Vidyavihar University on 8th February 2023. 2. Conducted session on “CO-PO Calculation and CIS using Google Sheets” for K J Som Institute of Dharma Studies on 18th August 2022. 3. Expert lecture on “Applications of Amplifiers”, for the one branch (IS) of the polytechnic on September 2019.

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4. Expert lecture on “**Next Generation Telecommunication Networks**”, for two branch (EJ, IS) the polytechnic on 6th March 2020.
5. Lecture on “**Mobile communication**” for the **four** branches (ET, IE, IS, EV) of the polytechnic
6. Lecture on “**Data Communication and Networking**” for the **two** branches (CM, CO) of polytechnic.
7. Lecture on “**Electronics Communication Systems**” for the **two** branches (EJ, EV) of polytechnic.
8. Lecture on “**Modern Antennas and Arrays**” for the **two** branches (EJ, ET) of the polytechnic.
9. Lecture on “**Awareness of Outcome Based Education**” for the lab assistants of electronics department, KJSCE on 17th March 2018.

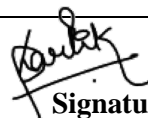
Notable Key Scholastic Achievements

1.	Recipient of " International Society for Engineering Pedagogy (IGIP) International Engineering Educator Certification "- January 2023
2.	Recipient of “ Excellence in Teaching Learning Process (IIEECP) ” award- January 2022
3.	Recipient of “ Best Paper Award ” in Conference on Technology for Future Cities- October 2021
4.	Felicitation (paper award) by ISTE staff chapter for the engineering education papers presented in IEEE conference in 2019 and 2020 and published in JEET magazine in 2018.

Notable Positions and Responsibility

1.	Coordinator for filling ranking and survey forms for KJSCE
2.	Developer of course attainment sheet for KJSCE
3.	Deputy Center Superintendent for NEET examinations
4.	Senior supervisor for end semester theory examinations

Date: 09 / 02 / 2023



Signature of Faculty Member