Somaiya Vidyavihar University

Name: Deepti Patole	E-mail:deeptipatole@somaiya.edu
Contact No:02266449414	
Department/Section: Department of Information Technology	
College: K J Somaiya College of Engineering	
DOJ Somaiya: 2007	Career Experience:16 Yrs	Teaching Experience:16 Yrs
Present Academic Designation: Assistant Professor	Present Administrative Designation: Admission committee member, Departmental website Committee member, Departmental TechTalk Committee, Departmental Digital Marketing Committee member

Area of research/specialization and Courses Delivered

Research domain/interests/areas
1. Image Processing
2. Geographic information system
3. Internet of Things
4. Information Security
5. Blockchain Technology
6. Digital Forensics

Courses Delivered
1. Digital Forensics
2. Cyber laws
3. Cyber Security and Awareness
4. Blockchain Technology
5. Electronic Devices and Circuits
6. Principles of Communication Engineering
7. Analog and Digital Circuits
8. Principles of Analog and Digital Communication
9. Microprocessors and Microcontrollers
10. Computer Organization and Architecture
11. Information and Network Security.
12. System and Web Security
13. Digital Systems
14. Web Programming

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

Details of Recognitions
1. Mumbai University
2. Somaiya Vidyavihar University

Education					
Examination	Name of the Degree	University/Board	Institute/College	Year	CPI/SPI/ %Marks
PG	M.E. Computer Engineering	Mumbai	KJSCE,Mumbai	2014	Distinction
UG	B. E. EXTC	Mumbai	KGCE, Karjat	2005	First Class
Diploma	Electronics and Video Engineering	MSBTE	St. Xavier"s Technical Institute	2002	Distinction

Research Accomplishments and Projects	
No of students completed PG thesis / Project work as on date: 1	No of students / groups completed UG projects as on date: 25+

Publications Total:18	Number of Peer review Journal papers:1	Number of Conference papers:9

Details of Publications:
International Journals

1. Deepti Patole, Darshan Panchal, Krishna Sampat, Saurabh Nagare; "IoT based Garbage Monitoring System", International Journal of Computer Applications, Foundation of Computer Science (FCS), NY, USA, Volume 182 - Number 6, Year of Publication: 2018, doi> 10.5120/ijca2018917515
2. Sonali Patil, V R Udupi and Deepti Patole. Article: " A Robust System for Segmentation of Primary Liver Tumor in CT Images". *International Journal of Computer Applications* 75(13):6-10, August 2013. Published by Foundation of Computer Science, New York, USA.
3. Deepti Patole, P Ahirao, Y Borse, Novel Teaching Learning and Evaluation Activities for Imbibing the Concepts of Cyber Security as Perennial Thought-Process in the Learners' Digital Life, Journal of Engineering Education Transformations 33, 376-383 Jan 2020
4. Mayuresh Agrawal, Smruti Berad, Twara Gandhi, Deepti Patole, "An Obliging Handheld Auditory Helper for Travellers", International Journal of Computer Applications, Foundation of Computer Science (FCS), NY, USA, Volume 182 - Number 6, Year of Publication: 2018, doi> 10.5120/ijca2018917546
5. Purnima Ahirao, Yogita Borse, Deepti Patole, Multi B anking System Using Web Services, International Journal of Research and Scientific Innovation (IJRSI),International Peer Reviewed Refereed Journal,A Unit of Research and Scientific Innovation Society (RSIS),ISSN/ISBN No.: ISSN 2321-2705, June 2017
6. Pankti Desai, Kshitij Makwana, Deepti Patole, Basic Gesture Based Communication for Deaf and Dumb, International Journal of Research and Scientific Innovation (IJRSI),International Peer Reviewed Refereed Journal,A Unit of Research and Scientific Innovation Society (RSIS),ISSN/ISBN No.: ISSN 2321-2705, July 2017
7. Neha Sangal Urvashi Prajapati and Deepti Patole. Fraud Website Detection using Data Mining. *International Journal of Computer Applications* 141(3):40-44, May 2016

National Journals- nil

Conferences

1. Y. Borse, P. Ahirao, A. Chawathe and D. Patole, "Embracing Permissioned Blockchain for a Secure and Reliable Land Registration System," 2022 5th International Conference on Advances in Science and Technology (ICAST), Mumbai, India, 2022, pp. 525-530, doi: 10.1109/ICAST55766.2022.10039485.

2. N. Sangal, D. Singhvi, M. Pharande and D. Patole, "Teen-alyse: A Mobile Application for Parental control, Teen Self-Monitoring and Active Mediation," 2021 9th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO), 2021, pp. 1-5, doi: 10.1109/ICRITO51393.2021.9596148.

3. D. Patole, I. Gupta, P. Jain, V. Gupta and Y. Gada, "Controlled Risk Pairs Trading using ReinforcementLearning," 2021 9th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO), 2021, pp. 1-5, doi: 10.1109/ICRITO51393.2021.9596235.

4. Borse, Yogita and Borse, Yogita and Patole, Deepti and Kukreja, Geeta and Parekh, Harsh and Jain, Rishabh, Advantages of Blockchain in Digital Forensic Evidence Management (May 7, 2021). Available at SSRN: https://ssrn.com/abstract=3866889 or http://dx.doi.org/10.2139/ssrn.3866889

5. Y. Borse, D. Patole and P. Ahirao, "Geo-Encryption: A location based encryption technique for data security," *2019 5th International Conference On Computing, Communication, Control And Automation (ICCUBEA)*, Pune, India, 2019, pp. 1-4, doi: 10.1109/ICCUBEA47591.2019.9129586.

6. Patole, Deepti and Jadhav, Sunayana and Thakkar, Khyatee and Gupta, Saket and Aeer, Shardul, Touch Tap See: A Navigation Assistant for the Visually Impaired Person (October 1, 2019). Proceedings of International Conference on Advancements in Computing & Management (ICACM) 2019. Available at SSRN: https://ssrn.com/abstract=3462233 or http://dx.doi.org/10.2139/ssrn.3462233

7. Borse Yogita and Chawathe Anushka and Patole Deepti and Ahirao Purnima, Anonymity: A Secure Identity Management Using Smart Contracts (March 14, 2019). Proceedings of International Conference on Sustainable Computing in Science, Technology and Management (SUSCOM), Amity University Rajasthan, Jaipur - India, February 26-28, 2019

8. Ahirao Purnima and Borse Yogta and Patole Deepti, Multi Banking System with Three Level Security (March 14, 2019). Proceedings of International Conference on Sustainable Computing in Science, Technology and Management (SUSCOM), Amity University Rajasthan, Jaipur - India, February 26-28, 2019.

9. Ms. Deepti Patole, Sunny Sunil Gokharu, Bhagyesh Dilip Baraskar,Mayur Bhairavnath Hadawale ,2018, "LeapLearn: A gesture-based game" , at Fourth International Conference on Computing Communication Control and Automation (ICCUBEA), 978-1-5386-5257-2/18/$31.00 ©2018 IEEE, August 2018

10. I. Siddavatam, E. Johri, and D. Patole. 2011. Optimization of load balancing algorithm for green IT. In *Proceedings of the International Conference & Workshop on Emerging Trends in Technology* (ICWET '11). ACM, New York, NY, USA, 1344-1346. DOI: http://dx.doi.org/10.1145/1980022.1980321

Books/Book Chapters

1. Patole D., Mehta R., Mehta C., Naik G., Agrawal H. (2022) Taxi Demand Prediction Using LSTM and Optimized Taxi Geo-distribution. In: Reddy V.S., Prasad V.K., Wang J., Reddy K.T.V. (eds) Soft Computing and Signal Processing. Advances in Intelligent Systems and Computing, vol 1340. Springer, Singapore. https://doi.org/10.1007/978-981-16-1249-7_17

2. Batavia P., Ahirao P., Patole D. (2021) Challenges and Future Directions for Privacy Dashboard Design of Electronic Health Systems. In: Singh J., Kumar S., Choudhury U. (eds) Innovations in Cyber Physical Systems. Lecture Notes in Electrical Engineering, vol 788. Springer, Singapore. https://doi.org/10.1007/978-981-16-4149-7_15

3. Patole D., Borse Y., Jain J., Maher S. (2020) Personal Identity on Blockchain. In: Sharma H.,Govindan K., Poonia R., Kumar S., El-Medany W. (eds) Advances in Computing and Intelligent Systems. Algorithms for Intelligent Systems. Springer, Singapore

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No of Research / consultancy / projects on applied as on date:3   Rs:2600000
Details of Research / consultancy / projects: Applied and was accepted in initial stage   1. SCIENCE & ENGINEERING RESEARCH BOARD (SERB), New Delhi

FDPs/Seminars/Workshops/Training Programs Attended/ Organized/ Delivered
Online Courses-   1. Course: Remote sensing and GIS for Rural Development - ELITE with Silver certificate in NPTEL Online Certification (Funded by Ministry of HRD, Govt. of India). Jan-April 2023   2. Course: What is Data Science? an online non-credit course authorized by IBM and offered through Coursera, Sep 10, 2023   3. Innovation by Design – ELITE with silver medal certificate in NPTEL Online Certification (Funded by Ministry of HRD, Govt. of India). Feb-March 2022   4. Successful Completion of Online FDP on „Nurturing Researcher-Pro Mindset in Self‟ conducted by IUCEE From 24th July to 25th September 2021   5. Successful completion of JEET Mentored Reviewer Program as Mentee from Oct 2020 to Jan 2021. Conducted by IUCEE and Journal of Engineering Education Transformation.   6. Blockchain Architecture Design and Use Cases - ELITE certificate in NPTEL Online Certification (Funded by Ministry of HRD, Govt. of India).July- Oct 2018   7. Information Security -5 - Secure Systems Engineering - ELITE certificate in NPTEL Online Certification (Funded by Ministry of HRD, Govt. of India).Jan- March 2019   8. Introduction to Research - ELITE certificate in NPTEL Online Certification (Funded byMinistry of HRD, Govt. of India). Aug-Oct 2019

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Training Programs Attended

1. Attended one week STTP on Cyber Forensic and Cyber Security organized by Yashwantrao Chavan College of Engineering, Nagpur in association with The Institute of Engineers, Nagpur Local center, and Maharashtra State center and FORnSEC solutions, Nagpur, during Dec 2021.

2. Attended AICTE Sponsored Short Term Training Program on Information Security and Digital organised by Army institute of Technology, Pune, during 4th Jan to 9th Jan 2021

3. Attended 3 months JEET Mentored Reviewer training program Oct 2020 to Dec 2020.

4. Attended STTP on Usage of Technology in Covid-19 organised by Terna Engineering College , Nerul, during 28th May to 2nd June

5. Attended 1 day workshop on Project based Learning conducted by TLC-KJSCE, on 14th November 2019.

6. Attended 1 day training on Community Canvas conducted on 26th July, 2019 held at K J Somaiya College of Engineering.

7. Attended 1 day training by Tata Consultancy Sevices on Lateral Thinking conducted on 11th Feb, 2019 held at K J Somaiya College of Engineering.

8. Attended two day workshop on "Introduction to Robotics" conducted on 8th and 9th June, 2018 held at Indian Institute of Technology Bombay. Conducted by Eyantra, ERTS Lab, Department of Computer Science and Engineering, Indian Institute of Technology Bombay, Powai, Mumbai

9. Attended Faculty Development Programme (FDP) on "Use of ICT in Education for Online and Blended Learning", under the aegis of Pandit Madan Mohan Malviya National Mission for Teachers and Teaching (PMMMNMTT)
    Foundation Program in ICT for Education" FDP101x: 27 July 2017 to 31 August 2017
    Pedagogy for Online and Blended Teaching-Learning Process" –FDP201x: 14 September 2017 to 12 October   2017

10. Attended BCUD Sponsored two days National Seminar on "Cyber Security and Evolving Technology" at MKSSS"s Cummins College of Engineering for Women, Pune on 2nd and 3rd February 2017

11. Attended ISTE Short Term Training Program on "Digital Security", at K. J. Somaiya College of Engineering, Mumbai 27th June to 2nd July 2016.

12. Attended Workshop on "Frameworks", at K. J. Somaiya College of Engineering, Mumbai 5th and 19th March 2016.

13. Attended ISTE Short Term Training Program on "Internet of Things", at K. J. Somaiya College of Engineering, Mumbai 4th to 8th January 2016.

14. Attended FDP program organized under the Campus Connect Initiative by IGATE Corporate University. at IGATE Knowledge Park, Airoli Navi Mumbai., 25th May „15 to 29th May"15

15. Attended ISTE Short term training Program on Tools and techniques of Effective technical Writing , June 13 to June17 2013

16. Attended ISTE workshop on Database Management System conducted by IIT, Mumbai. December 13 to December 23 2010

17. Attended training program on Embedded Systems modular design course conducted by IDEMI, Mumbai. December 2010

18. Attended one week Training Program on "Core Java" for the faculty of KJSCE held at KJSCE, Mumbai, June 2010.

19. Attended Training Program on "Language Lab" conducted by H&S Dept, KJSCE in December 2009

20. Attended Short Term Training Program on "Manufacturing Processes and Systems", organized by KJSCE, Mumbai, July 2009.

21. Attended FDP program "Three days awareness session on project Management" conducted by Tata Consultancy Services. at KJSCE, Mumbai, 16th to 18th January 2008

Training Programs Organized

1. Worked as Organising Committee for Session on AI/ML in Geospatial Analytics Organized by Department of Information Technology in association with ISTE Teachers Chapter of K J Somaiya College of Engineering, Somaiya Vidyavihar University, Mumbai, 27th September 2023

2. Worked as Organizing Committee member for ISTE approved Five Days Short Term Training Program on "Blockchain and Security" from December 19 to December 23, 2022 organized by Department of Information Technology in association with ISTE Teacher"s Chapter KJSCE and IQAC-KJSCE at K. J. Somaiya College of Engineering, Somaiya Vidyavihar University.

3. Worked as Organizing Committee member for ISTE approved Short Term Training Program on "Digital Security", organized by KJSCE, Mumbai, 27th June to 2nd July 2016 2016.

4. Worked as Organizing Committee member for Short Term Training Program on "Manufacturing Processes and Systems", organized by KJSCE, Mumbai, July 2009.

5. Worked as Organizing Committee member for National Conference on "Emerging Trends in Computer, Communication and Information Technology", organized by IT and Computer Engg Dept, KJSCE, Mumbai, March 2009.

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Delivered

1. Invited as Guest Speaker for Session on Big Data and Data Analytics at Mechanical Department, , KJSCE on 21st March 2023.

2. Invited as guest speaker on "Pentium 3 Processor" Department of Computer Engineering of Xavier Institute of Engineering, Mahim, Mumbai

3. Invited as Guest Speaker for Lectures on Blockchain Technology at , S K Somaiya College, Mumbai on 10th and 12th August 2022.

4. Invited as Guest Speaker for Lectures on Big data and data Analytics at Mechanical Engineering Department, K J Somaiya College of Engineering, Mumbai on 23rd and 24th March 2022.

5. Invited as Guest Speaker for Webinar on Cyber Security at SST College of Arts and Commerce, Ulhasnagar on 30th August 2021.

6. Invited as Guest speaker for Webinar on Blockchain Forensics Technology" for Third Year Information Technology branch students on 17th May 2021 at Fr. Conceicao Rodrigues College of Engg .Fr. Agnel Ashram, Bandstand, Bandra (W) Mumbai 400 050.

7. Invited as Guest Speaker for sessions on IoT Security at Network Intelligence India private limited on February 2020

8. Invited as Guest Speaker for sessions on Blockchain Technology at Network Intelligence India private limited on 10th and 11th October 2019

9. Invited as Guest Speaker for session on Digital Forensics at K J Somaiya College of Science and Commerce on 1st March 2019

10. Invited as Expert for Hands on Session on Digital Forensics at AICTE-ISTE approved Short Term Training Program on Cyber Security and Laws" 24th to 29th June 2019 at Shivajirao S Jondhale College of Engineering and Technology

11. Invited as Guest Speaker for session on Cyber Security in AICTE-ISTE approved Short Term Training Program on Cyber Security and Laws" 24th to 29th June 2019 at Shivajirao S Jondhale College of Engineering and Technology

12. Invited as Guest Speaker for session on Cyber Security Awareness at MET Institute off Computer Science, Bandra, Mumbai. On 10th Aug 2018

13. Invited as Guest Speaker for session on Cyber Security at Don Bosco Institute of Technology, Mumbai on 10th March 2018

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Notable Key Scholastic Achievements
1. Reviewer for An International Journal Multimedia Tools and Applications, publisher-Springer Nature
2. Associate Editor and reviewer of Scopus indexed Journal of Engineering Education Transformations (JEET).
3. Reviewer for Journal Concurrency and Computation: Practice and Experience of Wiley Publication
4. Session chair in the World Conference "Congress on Intelligent Systems (CIS2020)" organized by Soft Computing Research Society on September 05-06, 2020
5. Reviewer and Technical Program Committee ADCIS 2023, organised by Bits Pilani, K K Birla Goa Campus, Goa
6. Reviewer and Technical Program Committee IDCSA 2023, organised by Malviya National Institute of Technology Jaipur, India
7. Programme Committee member in the World Conference "Congress on Intelligent Systems(CIS2020)" organised by Soft Computing Research Society on September 05-06, 2020
8. Programme Committee member in the RTU TEQUIP III sponsored International Conference onCommunication and Intelligent System ICCIS2020 organised by GIT Jaipur, Soft Computing Research Society on December 26-27, 2020
9. Co-organized Webinar on "Cyber Laws" of Mr. Naavi as the Expert guest speaker, organized byDepartment of Information technology, KJSCE, Mumbai on 5th June 2020.
10. Reviewer for The International Journal of Cyber-Security and Digital Forensics (IJCSDF)ISSN: 2412-3358
11. Reviewer for Journal of Engineering Education Transformations, publisher- Indo USCollaboration for Engineering Education (IUCEE)
12. Reviewer for International Journal of Engineering Research & Technology (IJERT) (ISSN: 2278-0181)
13. Program Committee member of International Conference on Sustainable Computing in Science,Technology & Management (SUSCOM-2020)
14. Sub reviewer of International Conference on Advancements in Computing & Management(ICACM-2019)
15. Program Committee member of International Conference on Communication and ComputationalTechnologies (ICCCT2019)
16. Program Committee member of International Conference On Recent Trends in Communication &Intelligent Systems (ICRTCIS 2019)
17. Reviewer for Journal of Engineering Education Transformations (JEET)

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Notable Positions and Responsibility

- KJSCE Admission Core Committee Member

- Member of Department Exam Committee

- Member of Tech Talk Committee

- Member of Website Committee

- Member of Timetable Committee till 2021.

- Departmental coordinator Member of Alumni Cell till 2022

- Projects guided for undergraduate students : 25+

- Internships offered to KJSCE College of engineering UG as well as PG students.

Life Member of Indian Society of Technical Education, New Delhi, India, since 2009.

Date: 13 / 10 / 2023   **Signature of Faculty Member**