GIDC DEGREE ENGINEERING COLLEGE
FACULTY PROFILE

Name of Teaching Staff	BHUMIKA H. PATEL	
Designation	ASSISTANT PROFESSOR	
Department	COMPUTER ENGINEERING	
Date of Joining	18/07/2016	

Qualifications with Class/Grade	UG	PG	PhD
	Second Class	Distinction	--

Total Experience in Years	Teaching	Industry	Research
	09 years	--	--

Area Of Interest	Database Management System, Automata Theory, Analysis & Design of Algorithms, Compiler Design, Computer Networks, Operating system

Papers Published in Journals	National	-	International	8

| Detail Of Publication | 1. Published a paper with title "CLOUD SECURITY IN A MULTI-TENANT ENVIRONMENT" in journal Stochastic Modeling and Applications, ISSN: 0972-3641, Vol. 26 No. 3 (January - June, Special Issue 2022) UGC CARE APPROVED JOURNAL
2. Published a paper with title "DATA MINING ALGORITHMS BASED ON THE CLUSTERING TECHNIQUE" in journal Stochastic Modeling and Applications, ISSN: 0972-3641, Vol. 26 No. 3 (January - June, Special Issue 2022) UGC CARE APPROVED JOURNAL
3. Published a paper with title "SMART GRID NETWORK: THREATS, VULNERABILITIES, AND SECURITY" in journal Stochastic Modeling and Applications, ISSN: 0972-3641, Vol. 26 No. 3 (January - June, Special Issue 2022) UGC CARE APPROVED JOURNAL
4. Published a paper with title "Scrutiny on ARM Techniques" in International Journal of Advance Engineering and Research Development, ISSN: 2348-4470, e-ISSN (O): 2348-4470, Volume 3, Issue 12, December -2016 (UGC span Number(old): 44839)
5. Published a paper with title "Comparison of Software Development Life Cycle Models" in INTERNATIONAL JOURNAL FOR RESEARCH & DEVELOPMENT IN TECHNOLOGY, ISSN: 2395-4396, Volume-10, Issue-1, July-2018
6. Published a paper with title "Review on FI Mining Algorithms" in International Journal of Engineering Research and Technology, ISSN: 2278-0181, Vol. 4 Issue 11, November-2015
7. Published a paper on "Various Methods of Image Mosaicing", at International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Online ISSN : 2394-4099, Print ISSN : 2395-1990, Volume 8 Issue 5, pp. 195-201, September-October 2021
8. Published a paper on "Clustering Algorithms for WSNs", at International Journal of Innovative Research in Technology, ISSN: 2349-6002, Volume 8 Issue 4, September 2021. |

Papers Presented in Conferences	National	-	International	-

| STTP/WORKSHOP/ CONFERENCE / SEMINAR Organized or Participated | **STTP/WORKSHOP/CONFERENCE / SEMINAR Organized**
1. **Organized and coordinated** GUJCOST Sponsored one week STTP on "Designing embedded systems Enhanced with IoT using Micropython" at GDEC from 8-12 January 2019. |

2. **Organized and coordinated** two-days workshop on "Internet of Things (IoT): A hand-on Approach" at GDEC from 17-18 February 2018.
3. **Organized and coordinated** one-day workshop on ""Hands on Session on Amazon Alexa Skills Development for Beginners" at GDEC on 31st August, 2018.

STTP/WORKSHOP/CONFERENCE / SEMINAR Attended

1. Completed twelve weeks duration course on "Problem solving through Programming In C" with E-Certification by NPTEL-AICTE Faculty Development Programme (September-December 2020)
2. Attended Online Faculty Development Program on "Recent Research Trends and Applications of Artificial Intelligence and Machine Learning" organized in association with E & ICT Academy, NIT Warangal (Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI) on 20th February, 2023.
3. attended a Two-Day State Level GUJCOST sponsored seminar on "Artificial Intelligence and Python Programming" organized by Dr. Jivraj Mehta Institute Of Technology, Mogar, on 21-22 February 2019
4. Completed AICTE Training and Learning (ATAL) Academy Online FDP on " Machine Learning and Computer Vision" from 21/06/2021 to 25/06/2021 at Vignans Foundation for Science Technology and Research University.
5. completed AICTE Training and Learning (ATAL) Academy Online FDP on "Blockchain" from 2021-1-18 to 2021-1-22 at JSS ACADEMY OF TECHNICAL EDUCATION
6. Completed AICTE Training and Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)" from 2021-2-1 to 2021-2-5 at Knowledge Institute of Technology.
7. Completed AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "IoT Applications" from 06/12/2021 to 10/12/2021 at National Institute of Technical Teachers' Training and Research Bhopal.
8. Completed workshop on "Python for Data Science" from 28-06-2019 to 30-06-2019 at Department of Computer Engineering, Sarvajanik College of Engineering and Technology, Surat.
9. Completed One week FDP on "Cloud computing with Amazon Web Services (AWS)" from 25-11-2019 to 29-11-2019 at Birla Vishvakarma

Mahavidyalaya (Engineering College) (An Autonomous Institution) Vallabh Vidyanagar

10. Completed One week FDP on "Blockchain Technology: Challenges and Opportunities" from 31/8/2020 to 4/9/2020 organized by the Graduate School of Engineering and Technology (A Gujarat Technological University managed PG Engineering College).

11. Completed training on "python 3.4.3" from 16-06-2020 organized by Shri Ramkrishna Mission Vidhyalaya with course material provided by Spoken Tutorial, IIT Bombay

12. Completed National Webinar on "Java with IDE" from 16-05-2020 at R. N. G. Patel Institute of Technology – RNGPIT

13. Completed WEBINAR ON "Powerful Multimedia Tools to Make Classroom Teaching Effective" from 28-05-2020 at Applied Science and Humanities Department. of S.S.AGRAWAL, NAVSARI

14. attended webinar on "Application Security" on 20th March, 2018 organized by TCS iON | Digital Learning Empowering Learning Outcomes.

15. Attended Two-Day Training Programme - Saptahaant Shikshak Prashikshan (SSP) on "Introduction to Machine Learning" 16th December and 17th December, 2017 in the Sarvajanik College of Engineering & Technology - 1043 (Remote Center Name with Remote Center ID).

16. Completed Short Tern Training Programme(STTP) on "Android Programming & Mobile Application Development" during 26 -31 December 2017 at BVM Engineering College, Vidya Nagar

17. Completed Short Tern Training Programme(STTP) on "Internet of things and its Applications (IoTA 2017)" during 5-10 June 2017 at Computer Engineering Dept. of SVNIT, Surat

18. attended workshop on "Moodle-an Open Source Learning Platform" at GDEC on 19th September,2015

19. Attended three days workshop on "Introduction to Android Application Development" at GDEC during 8-10 December 2016.

20. Attended GTU Sponsored one week STTP on "Android Programming a hands-on approach" at GDEC from 24-28 December 2018.

21. Attended workshop on "Ethical Hacking and Information Security" at Electronics & Communication Engineering Department, SCET, Surat during 30th sept. to 2nd oct 2016.

22. Attended GTU Sponsored one week STTP on "Scope Research in Image Processing and Futuristic Trends in Soft Computing" at CGPIT, UTU on 18-01-2016

23. attended webinar titled "Essential Skills for Jobs in a Post-COVID19 World" 9/6/2020 TATA TPSDI-Virtual Academy of Skills

24. attended webinar titled "Python Programming" on 12/6/2020 at S.S.AGRAWAL, NAVSARI

25. attended FDP on " Design Engineering" at GDEC on 18th & 19th Dec, 2016

26. attended GUJCOST sponsored STTP on "Recent Trends of Mathematics in Science and Technology" at GDEC during 2-6 Jan 2017

27. attended GIL Sponsored one day workshop on "Start-Up & Innovation Protothon" at GDEC on 24th November 2017

28. attended National Seminar on Application of Radioisotopes & Radiation in Industry (NAARRI) at Mehsana during 15-16 Feb 2019

UBA Activities Organized/Coordinated/Attended:

1. UBA team had organized tree plantation and blood donation camp (2022-23, 2023-24)

2. Visited Sub Centre of Primary Health Care Centre, Mandir Village

3. Taking a pledge of ethics under the Plastic Free Campaign on the occasion of "Plastic Free Bag" Day on 03-07-2020

4. Tree Plantation at College as a part of the environment and sustainable development On 03-07-2020 at GIDC Degree College

5. Coordinated for Rangoli competition on "Say No to Plastic" under Unnat Bharat Abhiyan 2.0 on 3rd February 2020

6. Village visit-(UBA cell committee member) as a part of Induction program of 1st Year students (Vedchha Village)

7. Representative to attend meeting of UBA Participating Institutes at SVNIT Surat (18-01-2020)

8. Attended one week Faculty Development Program (FDP) on "Sustainable Techniques For Rural Development" 17-21 May, 2021 organized by RCI SVNIT, Surat in association with NIRD&PR, Hyderabad (UBA 2.0)

9. Participate in Meeting for "Discussion on implementation of CSIR Technologies in UBA adopted villages – Development of Rural Entrepreneurship" organized by UBA RCI SVNIT, Surat on 20th March

		2021.
		10. Attended a Participating Institutes Video Conference Meeting hosted by RCI SVNIT, Surat on 26th September, 2020
		11. Attended UBA workshop on shitake mashroom at college on 3-8-2021
		12. Attended Webinar on "Participate in Unnat Bharat Abhiyan for Sustainable Development of the Villages" on 17-08-2020 Gujarat Technological University and Organized by Regional Coordinating Institute IIT Gandhinagar and SVNIT, Surat
		13. Attended Webinar on "Technology Demonstration for Rural Entrepreneurship: UBA-CSIR-VIBHA initiative" webinar on 19th March 2021.
	Projects Guided	1. E-Heath Care 2. WoodArt 3. Suchak 4. Gramin Gruh Udhyog 5. Sales and Repair Tracking System 6. Sports Club Management System 7. Back-to-Swadeshi 8. Online Rental System
	Books Published / IPRs/ Patents	-
	Professional Memberships	-
	Administrative Responsibilities	1. Institute level Souvenir & Newsletter co-coordinator 2. Coordinator for Sponsorship for Profusion and UDAAN 3. Faculty mentor for student chapter under ISTE 4. Feedback committee member

		5. Institute Universal Human Value (UHV) cell Member
		6. NBA co-coordinator Criteria-5 & 9
		7. Unnat Bharat Abhiyan Cell-Co-coordinator since April 2019
		8. Discipline Committee member
		9. Department level Exam Coordinator
		10. Member of Pre-exam (GUJCET)- Admission Committee
		11. 100 Points Activity Subject Coordinator
		12. Lab In charge
		13. class councillor (2015-16 batch)
		14. class councillor (2021-22 batch)
		15. Worked as a project guide of BE students.
		16. Student Counselling and Affair Committee member
		17. Science Fair Committee member (2018 & 2022)
		18. PMMS Co-coordinator in A.Y 2015-16
		19. Invigilator in TCS Exam
		20. network admin/ IT system with NSEIT exam
		21. Coordinator of COVID-19 Awareness Quiz on 15-16 June 2020
		22. Co-coordinators in various events of sports organized at GDEC since 2014
		23. Co-coordinators in various events of technical festival organized at GDEC since 2014
		24. Co-coordinators in various cultural events organized at GDEC since 2014
		25. Coordinated essay competition on 2nd International Yoga Day Celebration on 21 June, 2016.
		26. Coordinated Industrial visit at Microsoft Banglore & SEONICS, Banglore (January 2016)
		27. Coordinated Industrial visit at Jaipur (Compucom Software Ltd.) (January 2021)
		28. Coordinated Industrial visit at Bhaskaracharya Institute for Space Applications and Geoinformatics, Gandhinagar. (August 2023)
		29. Coordinated Industrial Visit at Indian Space Research Organisation (ISRO) and Limra SoftTech Pvt. Ltd., Bengaluru (December 2017)
	Awards	• Letter of Appreciation received from GDEC Authorities for bringing the ***sponsorship total of Rs. 67,500/-*** from various industries (centre of

		excellence Vapi green Enviro ltd., colourtex, svr construction, R.C.Patel) for Profusion'19 & UDAAN 2018. • Letter of Appreciation received from GDEC Authorities for bringing the ***sponsorship total of Rs. 37,000/-*** from various industries (colourtex, svr construction, jay bharat & H.M. Electro Mech Ltd) for Profusion'20 & UDAAN 2020. • Award and Letter of Appreciation received from GDEC Authorities for Research Papers published in International Journal
	Grants Fetched	• Coordinated and acquired a grant of ***Rs. 25,000*** from GUJCOST, for holding a national workshop on "Internet of Things (IoT): A hand-on Approach" at GDEC from 17-18 February 2018. • Coordinated GUJCOST Sponsored one week STTP on "Designing embedded systems Enhanced with IoT using Micropython" at GDEC from 8-12 January 2019 and received ***Rs. 40,000/-*** grant from the GUJCOST.