

Faculty Biodata

Name of Teaching Staff	ARUNA UMESH GAWADE
Designation	Assistant Professor
Department	Computer Engineering
Date of Joining the Institution	19.08.2004



Professional Memberships	ACM
Qualifications with Class/Grade: <ol style="list-style-type: none">1. PhD (pursuing in Computer Engineering), Mumbai University, 20152. M.Tech. (Computer Engineering), First Class with Distinction, MPSTME,NMIMS, 20093. B.Tech. (Information Technology), First Class, UMIT, S.N.D.T. University, 2002	
Total Experience in Years: Teaching: 14 Years <ul style="list-style-type: none">• D.J. Sanghvi College of Engineering (Mumbai University) Computer Engineering Department from August 2004 to Till Date• Fr. Conceicao Rodrigues College of Engineering. (Mumbai University) Information Technology Department from August 2003 to August 2004• S. S. Jondhale College of Engineering (Mumbai University) Information Technology Department from Oct 2002 to August 2003	
Courses Taught: <ul style="list-style-type: none">• Operating System (UG)• Computer Organization and Architecture (UG)• Digital Logic Design and applications (UG)• Computer Networks (UG)• Network Programming lab (UG)• Structured Programming approach (UG)• Advanced Algorithms and Complexity (PG)• Decision Making and Adaptive Business Intelligence (PG)• Open Source lab (PG)• Computational Lab II(PG)• Internet of Things (PG)	
Projects Guided: <ul style="list-style-type: none">• M.E. Project: 03• B.E. Project: 30+	
Academic Duties: <ul style="list-style-type: none">• Worked as a NBA Co-ordinator in computer Engg. Department	

- Active participation as a co-ordinator of Software development team in college admission committee
- Co-ordinator of ACM chapter.
- Time table committee member for preparing timetable of first year all divisions.
- co-ordinator for First Year computer Programming I and II subjects
- Actively involved in Training and placement management software development with students.
- Actively involved in website development for college with students.
- Worked as a class In-charge and Lab In-charge
- Worked as Project review committee member
- Worked in Regularity and Monitoring Committee from July 2013 to Dec 2016.
- Represented College by participating in "Best Educational Quality Enhancement Team President Award 2010" organized by NCQM in 2011 and 2012.
- Part of the STTP organized by Computer Engineering Department in 2007.
- Active participation in handling sessions in NCICT 2008.
- Conducted workshops like Blender, Ethical Hacking etc. for students.
- Prepared notes in the subject of CP I and CP II for circulation to FE Students in the College for easy understanding of the subject
- Continuous guidance regarding higher education and career planning to the students
- Worked as an organizing committee member in STTP on "PRACTICAL INSIGHTS ON CLOUD COMPUTING" organized by Computer Engg. And IT Dept.
- Worked as an organizing committee member in STTP on "INSIGHTS OF MACHINE LEARNING AND DEEP LEARNING" organized by Computer Engg. And IT Dept.
- Worked as publication chair for "ICACTA-2015" organized by Computer Engg. And IT Dept.
- Worked as a finance team in DJ-ASCII state level Project Competition.(2015-16, 2016-17 and 2017-18)
- Active participation in Faculty development program on " Research Areaa in Internet of Things(RAIoT-2017)"
- Conducted 2 workshops on "Internet of Things" for students.
- Working as a mentor in DJ Code star programmers club.
- Worked as a class In-charge of SE, TE Computers.
- Working as a Lab In charge of Computer Graphics and multimedia Lab.
- Working as a mentor for SE, TE Computer Engg. Students.
- Working as a NAAC Co-ordinator in computer Engg. Department

Interaction with Professional Institutions:

Workshop, lecture series & Conferences Conducted:

As ACM coordinator conducted various workshops:

- Rubics (2013-14)
- PHP (2013-14)
- Machine Learning (2013-14)
- Blender(2013-14,2014-15,2015-16)
- Django(2015-16, 2016-17)
- Wordpress (2016-17)
- API-(Analyze Plan Implement)(2016-17)
- LOC-Lines of Code(2018-19)

Conferences:

- ICACTA-2015 organized by Computer Engg. And IT Dept.

Grants fetched:

- Minor research grant of Rs. 30,000/- is sanctioned for the Project entitled, "Design and Implementation of Neuromuscular Stimulation to Bypass Nerves System".

Publication & Conferences : (Till Date)

Papers presented in National Conference: 02

1. "M-java MPI A process migration" MPSTME National Conference on Information Communication Technology(NCICT- 2009)
2. "WPA2 The PSK Vulnerability" DJSCOE ,14-15 Oct 2011 Proceeding of National Conference on Communication Technology(NCCT- 2011)

Papers presented in International Conference: 05

1. "Enviornmental Monitoring in IoT",International Conference on current Trends in Computer, Electrical, Electronics and Communication(ICCTCEEC)-2017
2. "Dynamic Routing for Waste management using IoT for Cost Efficient service" International Conference on current Trends in Computer, Electrical, Electronics and Communication(ICCTCEEC)-2017
3. "Lightweight Authentication and Encryption mechanism in Routing protocol for Low power and lossy networks(RPL)", International conference on Intelligent Computing and Control Systems(ICICCS 2018)
4. "Lightweight Secure RPL: A need in IoT" in 16th International Conference of Information Technology(ICIT 2017), held on 21st - 23rd December, 2017,Bhubaneswar,India. IEEE Xplore, <https://doi.org/10.1109/ICIT.2017.31>
5. "Lightweight Cipher using GRP Bit permutation & Tweak" 18th International Conference on Intelligent Systems Design and Applications (ISDA) Conference, 5th Dec 2018. Held at VIT University, Vellore, India.

Papers presented in National Journal: 01

1. "Traffic Light Control Algorithm for Intelligent Transport System" Journal of computer science and Engineering (JCSE) (2013)
2. "Applying parallel Genetic and considering proximity for Resource allocation in Cloud", International Journal of Computer Science and Information Technology(IJCSIT)

Papers presented in International Journal: 14

1. "Investigating the preparedness for adaptive SCADA for efficiencies in energy utility companies" IJOART volume 2,Issue 5,May 2013, ISSN 2278-7763
2. "Optimization Of Traveling Salesman Problem For An Enterprise Resource Planning System", IJCSE, Nov 2013,
3. "Intelligent Network Sniffer using Data Mining" International Journal of Computer science and Engineering(IJCSE) (Nov 2013)
4. "Neural Network Applications in Solar Irradiance prediction", International Journal of Computer science and Engineering(IJCSE) (Nov 2013)

5. "Cross Layer Techniques used for Improving TCP Performance in Wireless Networks: A Proposed Technique" ,International Journal of Computer Applications © 2014 by IJCA Journal Volume 108 - Number 11 Year: 2014
6. "Applications of Influence Propagation in Viral Marketing" ,International Journal of Innovations & Advancement in Computer Science January 2015
7. "Wireless Sensor Network Routing Algorithms – An Application based Survey", International Journal of Engineering Research & Technology Volume. 4 - Issue. 09 , September – 2015
8. "Overview on Generations of Network: 1G,2G,3G,4G,5G",Int.J.Computer Technology & Applications, Vol 5 (5),1789-1794,IJCTA | Sept-Oct 2014
9. "An Overview of Wireless Sensor Network Security Protocol and Applications", International journal of innovations and advancement in computer science(IJIACS)(Oct 2015)
10. "Mobile Image Offloading Using Cloud Computing", International Journal of Innovative Research in Computer and Communication Engineering (An ISO 3297: 2007 Certified Organization) Vol. 3, Issue 9, September 2015
11. "Securing Computer Device Using Bluetooth technology and One-Time Password" ,International Journal Of Engineering And Computer Science ISSN:2319-7242 Volume 4 Issue 4 April 2015, Page No. 11426-11429
12. "Priority mechanism for ant colony optimization in Network Routing", International Journal Of Engineering And Computer Science ISSN:2319-7242 Volume 4 Issue 4 April 2015, Page No. 11426-11429
13. "Internet of Things (IoT) for Medical Healthcare" ,International Journal of Innovations & Advancement in Computer Science (IJIACS),November 2015
14. "Parallel Quick Sort using Thread Pool Pattern", International Journal of Computer Applications February 18, 2016

Books Published / IPRs / Patents