Name of Teaching Staff: Dr. Manali J. Godse

Designation: Professor

Department: Biomedical Engineering

Date of Joining the Institution: 30/6/1995

Qualifications with Class / Grade:

- **PhD** – Electronics Engineering from SVKM's NMIMS (D.U), Vile Parle (West), Mumbai 400 056, April, 2010, under the guidance of Dr. (Mrs.) Nandini K. Jog.

- **M.Tech** – Biomedical Engineering from Indian Institute of Technology (IIT) Mumbai, February, 1999. CPI = 7.42

- **B.E** – Biomedical Engineering from University of Mumbai, October, 1993. First class (honours) with distinction in the final year.

- **D.B.M** – Diploma in Business Management from Prof. Welingkar's Institute of Management, Matunga, Mumbai, June 1995.

Recognized as a Post graduate teacher: Guided 5 students in ME project.

Total Experience in Years:

Teaching: 23 **Years**

D. J. Sanghvi College of Engineering, Department of Biomedical Engineering,

- Professor and Head of Department of Biomedical Engineering, from July, 2011 till date.

- Associate Professor and Head of Department of Biomedical Engineering, from July, 2007 to June, 2011.

- Assistant Professor and Head of Department of Biomedical Engineering, from July 2001 to June, 2007.

- Joined as a Lecturer in Department of Biomedical Engineering in June 1995.

- Mahatma Gandhi Mission's College of Engineering and Technology, Kalamboli, Navi Mumbai worked as a Lecturer in Biomedical Engineering Department, from August 1994 to June 1995.

- Worked as a visiting faculty at Rajiv Gandhi Institute of Technology, Versova Andheri(West), Mumbai 400 053 as an expert in the subject of Biomedical Instrumentation for B.E. Instrumentation Engineering.

- Worked as a visiting faculty at Thadomal Shahani Engineering College, Bandra (West), Mumbai as an expert in the subject of Biomedical Instrumentation for M.E. Electronics Engineering.

- Worked as a visiting faculty at Bhagubhai Mafatlal Polytechnic, Vile Parle (West), Mumbai 400 056 as an expert in the subject of Biomedical Instrumentation for Post Diploma in Medical Electronics and Medical Equipment Maintenance certificate course.

Paper Published in International Journal:

Analysis of Frequency content of Sural Nerve Action Potential in Diabetic and Non-Diabetic Patients using Continuous Wavelet Transform by M. J. Godse and N. K. Jog
Special Issue of Medical Journal of D. Y. Patil University, MDYPU Vol – II, 3, 2009, ISSN No. -0974-2743

Paper Published in National Journal:

Fall Detection System
Priyank Singh, Parth Joshi, Tapan Zaveri, Hari Batavia, Dr. (Mrs.).Manali Godse
Technofocus – Online Journal for Budding Engineers March, 2013

Papers Presented in International Conferences:

1. Statistical Analysis of Wavelet Coefficients of Sural Nerve Conduction Signal in Diabetic and Non-Diabetic Patients by M. J. Godse and N. K. Jog. *SPIT-IEEE Colloquium '08 an International Conference organized by Sardar Patel Institute of Technology, Andheri, Mumbai, February 4-5, 2008.*

2. Analysis of Frequency content of Sural Nerve Action Potential in Diabetic and non-Diabetic Patients using Continuous Wavelet Transform.
   by M. J. Godse and N. K. Jog
   International Conference in Biomedical Engineering and Nanotechnology
   IC BENT'08 organized by D. Y. Patil University, Kolhapur, October 21-23, 2008.

3. Frequency Analysis of Sural Nerve H-Reflex in Diabetic and Non-Diabetic Patients of age group II.
   by M. J. Godse and N. K. Jog
   International Conference on Biomedical Engineering and Technology
   ICBET'09 organized by World Academy of Science, Engineering and Technology
   WASET, Bangkok, Thailand, December25-27,2009

4. Analysis of difference in Calculated Frequency in Sural Nerve H-reflex in Diabetics and Non-Diabetics of age group III
   by M. J. Godse and N. K. Jog
   International Conference on Biomedical Engineering and Technology
   ICBET'09 organized by World Academy of Science, Engineering and Technology
   WASET, Bangkok, Thailand, December25-27,2009

5. Vision Based Analysis Using Sixth Sense Technology by Swarali Narvekar and Manali Godse
   Multicon-W 2013 International Conference & Workshop on Electronics & Telecommunication Engineering Volume II 2013. ISBN978-0-9884925-2-3.
   Organized by Thakur College of Engineering and Technology on 22-23rd Feb, 2013
   Paper is published in IJCA(International Journal Of Computer Applications)
   http://www.ijcaonline.org/proceedings/icwet2013/numbar1/11330-1346.
   ISBN: 973-93-80873-96-7h

Papers Presented in National Conferences:

1. Analysis of cross section of patients for Detection of Peripheral Neuropathy in Diabetic and Non-Diabetic Patients.
   by M. J. Godse and N. K. Jog
   National Conference on Information and Communication Technology NCICT'07 organized by SVKM's NMIMS (Deemed to be University), Vile Parle, Mumbai 400 056, March 1-3, 2007.

2. Frequency Analysis of Sural Nerve Action Potential in Diabetic and Non-Diabetic patients.
   by M. J. Godse and N. K. Jog
   National Conference on Information and Communication Technology NCICT'08 organized by SVKM's NMIMS (Deemed to be University), Vile Parle, Mumbai 400 056, February 29-March 1, 2008.

3. Vision Based Analysis Using Sixth Sense Technology (Skin Detection)
   by Swarali Narvekar and Manali Godse
   Conference proceedings 2nd National Conference on Recent Trends in Wired & Wireless Communication Section –III 2013.
   Organized by S.I.E.S.G.S.T on 15 -16th March, 2013.

Conferences Attended:

1. Attended a "National Conference on Emerging Trends in Biomedical Engineering" BIOCON 2005, organized by Bharati Vidyapeeth's college of Engineering (D.U) Pune, on September 15-16, 2005.

2. Attended an Orientation programme organized by Academic Staff College University of Mumbai from May 2 to June 1, 2000.

Name of Teaching Staff : Mr. Vivek Deodeshmukh

Designation: Associate Professor & Associate Head

Department: Biomedical Engineering

Date of Joining the Institution: 1/1/1999

Qualifications with Class / Grade:

1. **M.Tech. (Biomedical Instrumentation),** University of Mysore, 62.81 %
2. **BE (Instrumentation),** Dr. BAMU University, 63.33 %

Total Experience in Years:

Teaching: **19 Years**

- Assistant Professor in Bio-medical Engineering Dept., Dwarkadas J. Sanghvi College of Engineering affiliated to University of Mumbai (from 20-7-2002 till date)
- Lecturer in Bio-Medical Engineering, Dwarkadas J. Sanghvi College of Engineering (from 01-1-1999 to 19-7-2002)

Industry: 1 year 8 Months

- Service Engineer, Alpha & Omega Medical (I) Ltd.(from 1-5-1998 to 31-12-1998)
- Trainee Engineer at 'NOCIL' (from 1-1-95 to 28-12-1995)

Papers Published:

International:

1. Prof. Vivek Deodeshmukh, Tanmay Dalal, "WSN based Smart light control System using android", International Journal of Enhanced Research in Science, Technology & Engineering ISSN: 2319-7463, Vol. 5 Issue 6, June-2016, http://www.erpublications.com/uploaded_files/download/download_30_06_2016_19_52_08.pdf
2. Prof. Vivek Deodeshmukh, Anikt Sathe "VANET based Overtake mishap preventive advance road safety system" , IEEE conference of "International conference on Inventive computation Technologies (ICICT 2016), RVS Technical campus, Coimbatore Tamilnadu, India, 26-27 August 2016, http://www.ijettjournal.org/2015/volume-28/number-5/IJETT-V28P243.pdf
3. Prof. Vivek Deodeshmukh, Anikt Sathe, "Advance pothole Notification technique for Vehicle road safety Using Android Application", International Journal of Enhanced

Research in Science, Technology & Engineering, ISSN2319-7463, Vol.5, Issue 9, September-2016, http://www.erpublications.com/uploaded_files/download/download_01_10_2016_16_13_46.pdf

4. Vivek Deodeshmukh, Tanmay Dalal "WSN based intelligent lighting control using android" 3rd2016International Conference on "Computing for Sustainable Global Development" INDIACom-2016; ISSN 0973-7529; ISBN 978-93-80544-20-5, BharatiVidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi, 16th– 18thMarch, 2016 http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=7724567
5. Vivek Deodeshmukh, Aniket Sathe "Advance Vehicle-Road Interaction and Vehicle monitoring System using Smart Phone Applications", 2016 International Conference on Innovations in information, Embedded and Communication Systems (ICIIECS), Karpagam College of Engineering, Myleripalayam Village, Othakkal Mandapam Post, Coimbatore - 641032, Tamilnadu, 17th -18th March, http://ieeexplore.ieee.org/document/7916825/
6. Vivek Deodeshmukh, Samarjeet Chauhan"I - Wheel - A Robotic Wheelchair with Mobile Controlled Navigation System" SSRG International Journal of Electronics and Communication Engineering (SSRG-IJECE) – volume 2 issue 2 Feb 2015, http://www.internationaljournalssrg.org/IJECE/2015/Volume2-Issue2/IJECE-V2I2P103.pdf
7. Vivek P Deodeshmukh, Samarjeet P Chavan "Components that could build up a ideal Power-wheelchair", SSRG International Journal of Electronics and Communication Engineering (SSRG-IJECE) – Volume 2 Issue 11–November 2015, http://www.internationaljournalssrg.org/IJECE/2015/Volume2-Issue11/IJECE-V2I11P104.pdf
8. Vivek Deodeshmukh, Prachi Arora, "Tracking System with effective Learning", International Journal of Infinite Innovations in Technology, ISSN:2278-9057, IJIIT| Volume-II| Issue-IV| 2013-2014 April| Paper-17, Reg. No.:20140317|DOI:V2I4P17 , http://ijiit.logicinside.net/archive/volume%202/issue%204/V2I4P17.pdf
9. Vivek Deodeshmukh, Prachi Arora, "Robust Real Time Tracking", International Conference on Advances in Computing and Information Technology' ICACIT 2014 at Rajiv Gandhi Institute of Technology Varsova Mumbai on 18 and 19 Dec. 2014
10. Vivek Deodeshmukh, Prachi Arora "Real Time Tracking Using Feedback Learning", International Journal of Engineering Research and Technology, ISSN:2278-0181, Vol.3-Issue 2, February-2014) http://www.ijert.org/view-pdf/8097/real-time-tracking-using-feedback-learning

11.V. Deodeshmukh1 S. Chaudhuri2 S. Dutta Roy2'Co-operative infrared visible field tracking' at 'International conference in Advances in pattern Recognition'. ISI Kolkata (Dec -2003) http://www.cse.iitd.ernet.in/~sumantra/publications/icapr03_coop.pdf

https://books.google.co.in/books?id=-jFR0nLwF-cC&pg=PA404&lpg=PA404&dq=cooperative+infrared+and+visible+field+tracking&source=bl&ots=YPD36M6lFQ&sig=Z2TE1q1kyHiXib4Mu7myV9TgaRk&hl=en&sa=X&ved=0ahUKEwiSlv7cn7jVAhXEYo8KHU84CL8Q6AEILzAB#v=onepage&q=cooperative%20infrared%20and%20visible%20field%20tracking&f=false

12. Vivek Deodeshmukh, Snehal Harishbhai Patel, "Video Retrieval System using Shot detection and Analysis of Frame Dissimilarities using Different Parameters", Communications on Applied Electronics, Year of Publication: 2017, Publisher: Foundation of Computer Science (FCS), NY, USA, Series: Volume 7 , Number 5, 7(5):5-8, August 2017, **ISBN** : 973-93-80897-16-0 http://www.caeaccess.org/archives/volume7/number5/755-2017652669

13. Vivek Deodeshmukh, Sumaiya Salim Khan, "Wi-fi based Multi-equipment Universal Remote Controller for Smart Homes", Communications on Applied Electronics, Year of Publication: 2017, Publisher: Foundation of Computer Science (FCS), NY, USA, Series: Volume 7, Number 5, **ISBN** : 973-93-80897-16-0, http://www.caeaccess.org/archives/volume7/number5/756-2017652672

14. Vivek Deodeshmukh, Snehal Harishbhai Patel, "Effective Video Retrieval System using Adaptive shot detection and Feature vector algorithm", 3rd International Conference On Computing, Communication, Control And Automation, Organized by "IEEE Pune Section and Pimpri Chinchvad College of Engineering", 17th - 18th Aug 2017

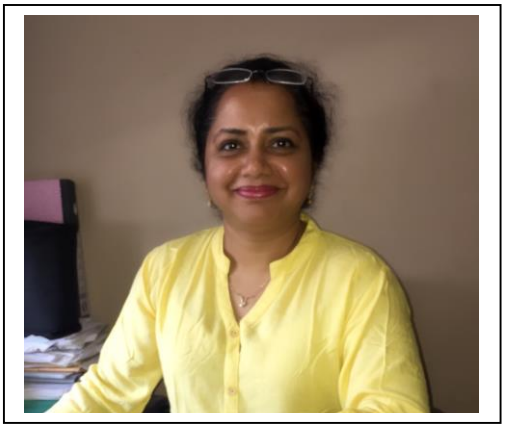
15. Vivek Deodeshmukh, Sumaiya Salim Khan, " Wireless Omni-directional Multi-instrument Universal (WOMU) remote controller using Internet of Things (IOT)", 3rd International Conference On Computing, Communication, Control And Automation, Organized by "IEEE Pune Section and Pimpri Chinchvad College of Engineering", 17th - 18th Aug 2017

National:

1. 'Identification based on Iris detection' National conference on Biomedical Engg. SP College Mumbai (Feb- 2006)

2. 'Computerised detection on malignant tumors on digital mammogram', CISP, Aurangabad (April-2006)

3 'Analysis of Transient Evoked Otoacoustic Emission Signals'', NCBME – 98, MIT, Manipal



Name of Teaching Staff : Prof.(Mrs.) Rashmi Ravikumar

Designation: Assistant Professor

Department : Biomedical Engineering

Date of Joining the Institution : 1.2.2000

Qualifications with Class / Grade :

1. **M.Tech.(Biomedical Engineering), IIT Bombay, July 2004, CPI: 8.24**

2. B.Sc Tech (Electronic Instrumentation with Biomedical Instrumentation), June 1998, (First Class with Distinction), University of Mumbai.

3. B.Sc Physics ,1995, 63%, University of Mumbai.

Total Experience in Years :

Teaching: **19 Years**

1. Assistant Professor in D.J.Sanghvi College of Engineering from April 2006 till date.
2. Senior Scale Lecturer in D.J.Sanghvi College of Engineering from April 2005 till March 2006.
3. Lecturer in D.J.Sanghvi College of Engineering from February 2000 till March 2005.
4. Lecturer in Watumull Shahani Engineering College from July 1998 to January 2000.

Industry:

Worked as trainee R&D engineer in Transasia Biomedical From January 1998 till July 1998.

Papers Published :

International:

1. Paper titled "Title: ALGORITHM FOR PERSONALIZATION OF MOBILE VALUE ADDED SERVICES" by Prof. Meera Narvekar, Rashmi Ravikumar and Dr.Mantha selected at international conference to be held at CUBE Pune Sept 2012.

2. Paper titled “Strategies for Churn Analysis based on Customer Value in Telecom Industry” presented in International Conference organized University of Mumbai 23-24 Feb 2009.(received outstanding research paper award).

3. Paper titled “STRATEGIC ROLE OF CONTEXT AND PERSONALISATION IN M-COMMERCE” Prof.Meera Narvekar, Rashmi RaviKumar presented in International Conference organized University of Mumbai 23-24 Feb 2009.

4. Presented paper in IATE International conference on Teacher Education and ICT: Global Context, Policy and Framework, paper titles “Video Gaming and Digital Technology-Future of Education” organized by IDOL and Department of Education, Mumbai University, 29th -31st DEC. 2009.

National:

1. Presented paper in National conference (NCBME 2006) titled “Applications of surface Potential Measurements in Cancer Detection” organized by NCBME, 28-29th March 2006.

2. Paper titled “Value added services in MCommerce : Findings from a survey: in National level conference on Effects of Globalization on India’s service Sector in Jan 2012 at NM College Mumbai.

Books Published

1. “ Embedded Systems”. Sem VI, Electronics Engineering/Industrial Electronics , MSBTE- Tech Max Publication, July 2009. ISBN 978-81-8492-028-04

Name of Teaching Staff : Prof.(Mrs.) Mrunal Rupesh Rane

Designation: Assistant Professor

Department : Biomedical Engineering

Date of Joining the Institution : 26.7.2002

Qualifications with Class / Grade :

1. M.Tech.(Biomedical Engineering), July 2009, IIT Bombay, CPI: 9.81

2. B.E. (Biomedical Engg.), June 1997, (First Class with Honours), University of Mumbai.

Total Experience in Years :

Teaching: **19 Years**

5. Assistant Professor in D.J.Sanghvi College of Engineering from April 2006 till date.
6. Senior Scale Lecturer in D.J.Sanghvi College of Engineering from October 2004 till March 2006.
7. Lecturer in D.J.Sanghvi College of Engineering from July 2002 till October 2004.
8. Lecturer in Thadomal Shahani Engineering College from January 2000 to July 2002.
9. Lecturer in MGM's College of Engineering and Technology from August 1998 to December 2000.

Papers Published :

International:

1. Published a paper " Creatinine and Albumin Electronic Reader" at International Conference on Communication and Technology, "ICCT 2015" and at International Journal of Computer application (0975-8887), September 2015.
2. Published a paper "Smart Solar ECG" in the proceedings of the International Conference on Electrical, Electronics, Signals, Communication and Optimization (EESCO) (24th & 25th January 2015), ISBN:978-1-4799-7676-8
3. Published a paper "Computational Investigation of Effects of Spines and AMPA Receptor Desensitization in Temporal Integration in Striatal Medium Spiny Neurons" in international Journal of Public Mental Health and Neurosciences, "ICPMN 2014", at Bangalore, on 18th December 2014

4. Published a paper "Low Powered Solar ECG with ZigBee Based Bio-Telemetry" at Journal of Technology Innovations in Renewable Energy, JTIRE Vol. 1, Number 1, September 2012. DOI: http://dx.doi.org/10.6000/1929-6002.2012.01.01.3.

National:

1. Published a paper "Computational Investigation of Role of Inactivating K_{IR} in Synaptic Integration in Striatal Medium Spiny Neurons", Technofocus (ISSN 2229-662X),Volume 1, Issue 2, March 2011.

Papers Presented in Conferences :

International:

1. Presented a paper, "ADHD Assist System" at National Conference and Technology Exhibition "Indian Medical Devices and Plastics Disposables/Implants Industry 2017", Ahmedabad (17^{th} & 18^{th} March, 2017).
2. Presented a paper "Computational Investigation of Effects of Spines and AMPA Receptor Desensitization in Temporal Integration in Striatal Medium Spiny Neurons" at international conference on Public Mental Health and Neurosciences, "ICPMN 2014", at Bangalore, on 18^{th} December 2014.
3. Presented a paper "Computational Investigation of Effects of UP state on EPSP in Stiatal Medium Spiny Neurons" at international conference on Biomedical Engineering, "ICoBE 2012", at UniMAP, Malaysia, on 26^{th} February 2012 – Paper was published in IEEE xplore.DOI: 10.1109/ICoBE.2012.6178980
4. Presented a paper "Computational Investigation of Role of AMPA Receptor Desensitization on Synaptic Integration in Striatal Medium Spiny Neurons" at international conference "Biomedical Engineering and Assistive Technologies - BEATS 2010" at NIT, Jhalandar, on 17^{th} December 2010.
5. Presented a paper "Computational Investigation of Role of Active Conductances in Information Processing in Striatal Medium Spiny Neurons" at World Congress 2009-Medical Physics and Biomedical Engineering at Munich, Germany, on 10^{th} September 2009. DOI:10.1007/978-3-642-03882-2_238
6. Presented a poster "Computational Investigation of Role of Inward Rectifying Potassium Currents in Temporal Summation of EPSPs in Striatal Medium Spiny Neurons" at the international conference IAN' 08 at Cochin, India on 12^{th} December 2008.
7. Presented a poster "Computational Investigation of Role of Active Conductances in Information Processing in Striatal Medium Spiny Neurons" at the International Symposium on Emerging Areas in Bioscience and Bioengineering, organized by SBB, IIT Bombay in February 2009.

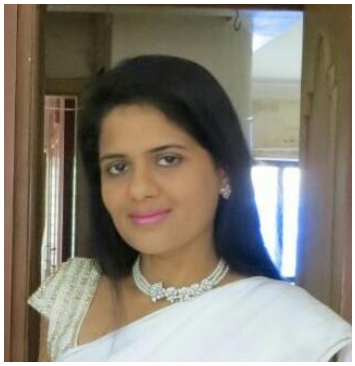
Projects at Bachelors level: **17**

Awards :

1. Best Teachers Awards for the year 2011
2. Shushruta Innovation Award : 1st Prize (2017)
   Project title: ADHD assist system
3. Shushruta Innovation award : 4th Prize (2017)
   Project title: Radial pulse analysis

Grants fetched :

1. Shushruta Innovation award (2011 - 2012)
   Project title: Functional electrical stimulator with gait analyzer
   Sponsorship amount: Rs. 40000/-
2. Mumbai University (2016 - 2017)
   Project title: Radial pulse analysis
   Sponsorship amount: Rs. 27000/-
3. BIRAC SRISTI (2015 - 2016)
   Project title: Immunohematology system
   Sponsorship amount: Rs. 50000/-



Name of Teaching Staff : Dr. (Mrs.) Vaibhavi Ashik Sonetha

Designation: Assistant Professor

Department: Biomedical Engineering

Date of Joining the Institution: 01.08.2003

Qualifications with Class / Grade:

1. Ph.D. (Technology), May 2017, IIT Bombay
2. M.Tech. (Biomedical Engineering), July 2007, IIT Bombay, CPI: 9.81
3. B.E. (Biomedical Engineering), June 2002, D. J. Sanghvi COE, First Class with Distinction.

Total Experience in Years :

Teaching: **14 Years**
Assistant Professor in D. J. Sanghvi College of Engineering from October 2008 till date.
Lecturer in D. J. Sanghvi College of Engineering from July 2003 till September 2008.

Papers Published

International:

1. "Microelectromechanical Systems in Medicine", Journal of Medical and Biological Engineering, June 2017. DOI 10.1007/s40846-017-0265-x.
2. "Mathematical Modeling and Simulation of an Occlusion Device in a Blood Vessel", Cardiovascular Engineering and Technology, 2016. doi:10.1007/s13239-016-0278-6.
3. "Simulation of pulsatile blood flow through various cardiac defects and quantitative measurements of blood volume", Procedia Material Science, Vol. 10 / 706 - 713, November 2015.
4. "Web based radiology viewer", IJCA Proceedings on International conference on Computer Technology, Vol. 1 / 6 – 9, September 2015.
5. "Fatigue analysis of knee joint", Procedia Computer Science, Vol. 45 / 250 – 255, March 2015.
6. "Flow simulation of cardiac defects to evaluate effectiveness of occlusion device", Journal of Medical Devices, Vol. 8 / 020940-1 to 3, June 2014.
7. "Review on Simulation and Evaluation of Intravascular Prosthetic Device Using Finite Element Method and Computational Fluid Dynamics and Application to Simulate Aneurysm Formation", in proceedings of 15th International conference on Biomedical Engineering, December 2013, DOI: 10.1007/978-3-319-02913-9_205, © Springer International Publishing Switzerland 2014.

8. “Evolution of a Novel Intraductal Patent Ductus Arteriosus Occlusion Device”, Journal of Medical Devices, Vol. 5 / 035001-1 to 6, September 2011.
9. “Patent Ductus Arteriosus (PDA) closure device” in International Journal on Biomedical Engineering and Biotechnology – MJDYPU – Vol. II – Issue – III, April 2009, ISSN - 0974 – 2743.

National:

1. “Non-invasive technique for measurement of electrical activity of stomach” in Conference proceedings at International conference in Engineering, Technology and Management at Rajiv Gandhi College of Engineering and Technology, Puducherry, India, September 2012.

Papers Presented in Conferences :

1. Presented a paper “Mathematical Modeling and Simulation of an Occlusion Device in a Blood Vessel” at 2nd international conference on nanomaterials and Nanotechnologies CNT 2014 held at Vardhaman college of engineering, Hyderabad on 18th October, 2015.
2. Presented a paper “Patent Ductus Arteriosus (PDA) closure device” at International conference on “Biomedical Engineering and Nanotechnology” organized by D. Y. Patil College of Engineering and Technology, Kolhapur in 2008.

Projects at Bachelors level: 15

Books Published / IPRs / Patents :

1. “Electrical and Electronic Measurements” - Sem III, Electrical Engineering, Mumbai University - Tech Max Publication, July 2013.
   Revised Edition: July 2014, -July 2015, July 2016
2. “Electronic Instruments and Measurements” - Sem III, Electronics and Telecommunication Engineering, Mumbai University - Tech Max Publication, July 2013.
   Revised Edition: July 2014, July 2015, July 2016
3. “Electronic Instruments and Measurements” - Sem III, Electronics Engineering, Mumbai University - Tech Max Publication, July 2013.
   Revised Edition: July 2014, July 2015, July 2016
4. “Electronics Instrumentation Systems” - Sem VI, Electronics Engineering, Mumbai University - Tech Max Publication, January 2011.
   Revised Edition – February 2012.
5. “Electronic Instrumentation” – Sem III, EXTC Engineering, Rajiv Gandhi Technological University, Madhya Pradesh – Tech Max Publication, August 2009. Revised Edition – October 2010, October 2011, August 2012.
6. “Electronic and Electrical Measuring Instruments and Machine”, Sem IV, Electronics Engineering, Mumbai University - Tech Max Publication, January 2009. Revised Edition

– January 2010, January 2011.

Professional Memberships : ISTE Member

Awards :

1. Honored with "Woman in Engineering" award by ASM international India chapter for research work in Biomedical engineering (2016).
2. Awarded BEST PAPER – "Patent Ductus Arteriosus (PDA) closure device" at International conference on "Biomedical Engineering and Nanotechnology" organized by D. Y. Patil College of Engineering and Technology, Kolhapur (2008).
3. Honored with Nitish V. Thakor M.TECH AWARD for excellence in ongoing work in biomedical engineering by I.I.T. Bombay (2007).

Grants Fetched:

1. "MEMS based Drug Delivery System using Polymer Microneedles"
   Mumbai University, July 2016 – May 2017

2. "Non-invasive technique for measurement of Electrical Activity of Stomach"
   Sahajanand Laser Technology, July 2011 – May 2012

Name of Teaching Staff : Prof.(Ms.) Mangal Shrikrishna Dandekar

Designation: Assistant Professor

Department : Biomedical Engineering

Date of Joining the Institution : 05/07/2007

Qualifications with Class / Grade :

1. M.S.(Bioengineering), May 2003, University of Toledo, Ohio, USA. GPA: 3.7/4.0
2.. B.E. (Biomedical Engg.), June 1998, (First Class), University of Mumbai. (Distinction in the Final Year)

Total Experience in Years :

Teaching: **11 Years**

1. July 2007 till date: Assistant Professor at D J Sanghavi Engineering College, Biomedical Eng. Dept., Mumbai
2. January 2000-August 2000: Lecturer at Thadomal Shahani Eng. College, Biomedical Eng.Dept., Mumbai
3. August 1999- December 1999: Lecturer at Watumull Institute, Biomedical Eng. Dept. , Mumbai

Papers Published :

International:

1. **Reproducibility of 3'-deoxy-3'-(18)F-fluorothymidine microPET studies in tumor xenografts in mice.** Tseng JR, Dandekar M, Subbarayan M, Cheng Z, Park JM, Louie S, Gambhir SS. *J Nucl Med* .2005; 46(11): 1851-1857. PubMed PMID: 16269599. *(Radiology Dept, Stanford University)*
2. **Reproducibility of 18F-FDG microPET studies in mouse tumor xenografts.** Dandekar M, Tseng JR, Gambhir SS. J Nucl Med. 2007 Apr;48(4):602-7. PubMed PMID:17401098. *(Radiology Dept, Stanford University)*
3. **Preclinical efficacy of the c-Met inhibitor CE-355621 in a U87 MG mouse xenograft model evaluated by 18F-FDG small-animal PET.** Tseng JR, Kang KW, Dandekar M,

Yaghoubi S, Lee JH, Christensen JG, Muir S,Vincent PW, Michaud NR, Gambhir SS. J Nucl Med. 2008 Jan;49(1):129-34. Epub 2007 Dec 12. PubMed PMID: 18077531 *(Radiology Dept, Stanford University)*

4. **Small-animal PET of melanocortin 1 receptor expression using a 18F-labeled alpha-melanocyte-stimulating hormone analog.** Cheng Z, Zhang L, Graves E, Xiong Z, Dandekar M, Chen X, Gambhir SS. J Nucl Med. 2007 Jun;48(6):987-94. Epub 2007 May 15. PubMed PMID: 17504880. *(Radiology Dept, Stanford University)*

National:

1. **Automation In Surgery: Review of Current Systems.Vidhi Patel, Ankit Thakkar, Shraddha Gujarathi and Mangal Dandekar, Technofocus, Vol 4, Issue 1, October 2013, 45-53** ***(Biomedical Dept, DJSCOE)***
2. Combination Of Instruments For The Surface Analysis Of The Biomaterials, **Antara Dandekar, Milparinka Desai, Siddhi Bhandarkar, Samiksha Save, Mangal Dandekar, Technofocus, Vol 4, Issue 2, March 2014, 18-21** ***(Biomedical Dept, DJSCOE)***
3. **Techniques for Apnoea Detection, Utsav Dave, Drashti Gandhi and Mangal Dandekar. IJCA Proceedings on International Conference on Communication Technology ICCT 2015(3):6-11, September 2015.** *(Biomedical Dept, DJSCOE)***DigitalLibraryURI:** http://www.ijcaonline.org/proceedings/icct2015/number3/22647-1548 **ISBN :** 973-93-80888-61-5

Projects guided at Bachelor's Level: 5

Awards :

Full tuition waiver and research assistantship during Master's studies in Univ. of Toledo, Ohio,USA.

Name of Teaching Staff : **Prof.(Mrs.) Shruti Nilesh Dodani**

Designation: Assistant Professor

Department : Biomedical Engineering

Date of Joining the Institution : 4.7.2013

Qualifications with Class / Grade :

1. **M.Tech.(Instrumentation and Control), College of Engineering Pune, Pune University. June 2012. CGPA-7.75**

2. B.E. (Biomedical Engg.), June 2010, (80.00%), University of Mumbai.

Total Experience in Years :

Teaching: **5 Years**

1. Assistant Professor, D.J. Sanghvi College of Engineering from 4.7.2013 till date.

2. Assistant Professor (Adhoc), D.J. Sanghvi College of Engineering from 2.7.2012 to 30.6.2013.

Papers Published :

National:

Driver Drowsiness Detection System International Conference on Intuitive Systems & Solutions(ICISS) 2012.Proceedings published by International Journal of Computer Applications® (IJCA)

Review on Image analysis of retinal blood vessel for diagnosis of Diabetic Retinopathy .International Journal of Computer Applications (0975 – 8887) , International Conference on Computer Technology (ICCT 2015)

International:

Papers Presented in Conferences :

National:

Driver Drowsiness Detection System International Conference on Intuitive Systems & Solutions(ICISS) 2012.Proceedings published by International Journal of Computer Applications® (IJCA)

Projects at Bachelors level: **1**

Awards :

Received JRD Tata scholarship for Academic Year 2008-2009 (B.E.)

Name of Teaching Staff :Prof.(Mrs.) Purva Chaitanya Badhe

Designation: Assistant Professor

Department : Biomedical Engineering

Date of Joining the Institution : 4.1.2015

Qualifications with Class / Grade :

1. M.Tech.(Electronics and Telecommunication), Mukesh Patel School of Technology Management and Engineering, NMIMS University, CGPA: 4/4, June 2014

2. B.E. (Biomedical Engg.), June 2010, (80.00%), University of Mumbai.

3. Pursuing Ph.D. (Electronics and Telecommunication Engineering) Mukesh Patel School of Technology Management and Engineering, NMIMS University

Total Experience in Years :

Teaching: **6 Years July 2011 till Date**

1. Assistant Professor, D.J. Sanghvi College of Engineering from 4.1.2015 till date.

2. Assistant Professor (Adhoc), D.J. Sanghvi College of Engineering from 11.7.2011 to 30.12.2014.

Industry: **1 year June 2010- June 2011**

Trainee Service Engineer- Transasia Biomedicals Ltd, (14.06.2010 to 30.06.2011)

Papers Published :

International:

1. Gesture Recognition: A Revolutionary Tool, International Journal of Technological Advancement and Research, Volume 3 Issue 3, and ISSN: 2249-8141 pp. 24-28.
2. Microcontroller based Rehabilitation Stimulator, International Journal of Computer Applications (0975 –8887) pp.17-21.
3. Sign Language Recognition: A survey, IEEE Xplore, ICECS 2014 pp. 452-457.

4. Indian Sign Language Recognition: Database Creation, Hand Tracking and Segmentation, proceedings of CSCITA 2014, IEEE Xplore pp. 358 – 363.

5. Comparative Review of Ultrasound Based Techniques used for Diagnosis of Prostate Cancer, International Journal of Engineering Trends and Technology (IJETT), V23(3),138-141 May 2015. ISSN: 2231-5381.

6. Indian Sign language Translator using Gesture Recognition Algorithm, proceedings of CGVIS 2015, IEEE Xplore.

7. A review of X ray in line phase contrast imaging in diagnosis of cardiac embolization and malignant tissue, International Journal of Engineering Trends and Technology (IJETT), Vol 29, Number 2, Nov. 2015, Serial No 19

Papers Presented in Conferences :

International:

1. Microcontroller based Rehabilitation Stimulator, I International Conference on Communication Technology 2013
2. Sign Language Recognition: A survey, IEEE Xplore, ICECS 2014 pp. 452-457.
3. Indian Sign Language Recognition: Database Creation, Hand Tracking and Segmentation, proceedings of CSCITA 2014, IEEE Xplore pp. 358 – 363.
4. Indian Sign language Translator using Gesture Recognition Algorithm, proceedings of CGVIS 2015, IEEE Xplore.

Awards : University gold Medalist at NMIMS University - M.Tech (Electronics and Telecommunication), June 2014