

Curriculum Vitae

Name: Dr. Arti Dinkarrao Rushi



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Peerbazar, Aurangabad

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Date of Birth: 20th June, 1990

Academic Credentials

Class/ Degree	Specialization	Institution	University	Year	%/CGPA	Class
Ph.D.	Physics	Department of Physics	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (MS)	2016	-	-
M.Sc.	Physics	Department of Physics	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (MS)	2012	77.16%	<i>Distinction</i>
B.Sc.	Physics, Computer Science, Computer maintenance	Balbhim College, Beed	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (MS)	2010	78.50%	<i>Distinction</i>

M. Sc. Project: DIPROBO-12

Ph. D. Research: Study of VOC sensor platforms based on macrocyclic compound functionalized carbon nanotubes

Key Research Areas:

Sensors

Nanomaterials and Nanoscience

Polymer Science

Experience

Sr. No.	Organization	Post	From	To	No. of Years
1	Maharashtra Institute of Technology, Aurangabad	Assistant Professor	1-1-2016	till date	4.2
2	Government Science College, Aurangabad.	Lecturer	7 th July 2015	31 st December, 2015	0.5
3	Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	Contributory Teacher	July 2013	July 2014	1

List of Courses Taught/Teaching at UG level

I, II, III yr B.Sc. Physics

Engineering Physics

Electronics

List of Courses Taught/Teaching at PG level

8086 Microprocessor

Additional Assignments/Duties

- Worked as a member in a committee for administrative audit of laboratories from outcome-based education point of view on 6-12-19.
- Worked as a Co-convener in the Sci-clone 2019, organized by Department of Basic Sciences and Humanities, Maharashtra Institute of Technology, Aurangabad on 28th February and 2nd March, 2019.

- Member of anti-ragging committee, SIRO committee, food committee, class test - termwork verification committee, data repository committee
- Worked as a Rector at MIT Girl's Hostel from 20-02-2016 to 18-06-2018.
- Worked as an organizing committee member in the Sci-clone 2016 and Sci-clone 2017, Sci-clone 2018 organized on the occasion of National Science day at G. S. Mandal's MIT College, Aurangabad.
- Responsible as Guardian-Mentor of lady participants of MIT College during Industrial Visit at IMTEX-2016 in the duration 19-01-2016 to 26-01-2016.

Membership of Professional Bodies

1. Life member of Indian Science Congress Association (ISCA)

Research Projects/Projects Guided

Computer/Software Proficiency

Completed MS-CIT

Knowledge of C, C++, VB programming

Seminar/Workshop/ Industrial Training/ STTP//FDP/CEP/Conference Attended

- Attended one day workshop on 'Community mobilization for effective participatory enterprise development' organized by DST-SEED Science, Technology and Innovation Hub and IQAC, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad in collaboration with Janakidevi Bajaj Gram Vikas Sanstha Trust, Aurangabad on 18, October, 2019.
- Attended 3 days faculty development programme on '**Faculty development programme for students induction**' during 27-29 May, 2019 at CSMSS Chh Sahu College of Engineering, Aurangabad organized by All India Council for Technical Education(AICTE).
- Attended one week refresher course on '**Use of ICT for effective teaching learning process**' organized by Department of Basic Science and Humanities, Department of Computer Engineering and Department of Mechanical Engineering, Maharashtra Institute of Technology, Aurangabad during 8th January – 12th January, 2019.
- Attended Hands on Training workshop on '**Nanofabrication Technologies**', held at IIT Bombay, Mumbai during March, 19-23, 2018.
- Attended one day faculty development programme on '**Great to Greatness-Knowing Yourself**' organized by HR, Department, MIT Aurangabad on 5 February, 2018
- Attended Faculty orientation programme on '**Advance English Communication and Teaching Techniques**' organized by Basic sciences and humanities department and mechanical engineering department, MIT (T), Aurangabad during 2-3 January, 2018.
- Attended two days workshop on '**Outcome based education**' organized by IQAC, MIT (T), Aurangabad during 4-5 December, 2017.
- Attended one week short term training programme on '**Use of ICT for effective teaching learning process**' organized by Department of Basic Science and Humanities and Department of Mechanical Engineering, Maharashtra Institute of Technology, Aurangabad during 27th June – 1st July, 2017.

- Attended hands on training on '**Mask Aligner MA6/BA6**' at RUSA Centre for Advanced Sensor Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad on 12-13 May, 2017.
- Attended workshop on '**Indian Patents: A comprehensive outreach**' organized by DDUKK, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad on 14-15 March, 2017.
- Attended Intellectual Property Right workshop on '**Patents-Why, What, How?**' organized by RUSA-Centre for Advanced Sensor Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad on December 30, 2016.
- Participated in '**2nd University-Industry Interaction Summit 2016**' held at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (MS) from 20-21 December, 2016.
- Attended 5th INUP **Familiarization workshop on nanofabrication technologies** organized by INUP, IIT Bombay during 25-27 May, 2016.
- Workshop of '**LATEX For Project Seminar, Thesis Typesetting**' held at Department of Chemical Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (MS) on 05 March, 2016.
- Six day **Faculty Development Program** on '**Empowering Faculty in English Communication and Soft Skills**' Conducted by Department of Basic Science and Humanities, Maharashtra Institute of Technology, Aurangabad during 11-16 January 2016.
- Two week **ISTE Short Term Training Programme** on '**Engineering Physics**' conducted by Indian Institute of Technology, Bombay during 08-18 December, 2015.
- Workshop on '**Low Energy Ion Beam Facility** organized by IUAC, New Delhi' during 03-04 November, 2015.
- Attended **Course Module** on '**Ion Beams in Semiconductor Materials and Devices**' at IUAC, New Delhi during 02-21 November, 2015.
- Participated in '**University-Industry Interaction Summit 2015**' held at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (MS) from 29-30 October, 2015.
- One day Acquaintance Program on '**Awareness about Facilities and Opportunities at IUAC, New Delhi**' organized by Department of Physics, Babasaheb Ambedkar Marathwada University, Aurangabad (MS) on 01-05-2015.
- National Workshop on '**Scientific / Research Paper Writing**' held at Department of Chemistry, Savitribai Phule Pune University, Pune in collaboration with INSA, New Delhi during 16-17 December, 2014.
- '**Training Programme on Awareness of Scifinder Database**' Knowledge Resource Centre (University Library), Babasaheb Ambedkar Marathwada University, Aurangabad (MS) on 22-07-2014.
- '**Industrial Technical Training Programme**' organized by Babasaheb Ambedkar Marathwada University, Aurangabad (MS) and Endress Hauser during 08-12 July, 2013.
- Two Day workshop on '**Microcontrollers and Its Application**' at Dr. Zakeria campus, Maulana Azad College of Arts, Science and Commerce, Aurangabad during 05-06 July, 2013.
- JES-IUCAA workshop on '**Teaching and Research Using Small Telescopes**' organized by Department of Physics, JES College, Jalna during 17-19 October, 2011.
- National Conference on Emerging Trends in Physical Sciences and Chemical Sciences (ETIPSACS), 18 January, 2020, organized by Department of Physics-Electronics and Chemistry, Shirish Madhukarrao Chaudhari College, Jalgaon on 18th January, 2020
- National conference on '**Materials for Advanced Technology and Applications**' organized by Department of Plastic and Polymer Technology, Maharashtra Institute of Technology, Aurangabad, on 22-23 August, 2019

- International Multidisciplinary Research Conference on ‘Biodiversity, Climate Change, Environment and Life Sciences’ organized by S. B. E. S. College of Science Aurangabad, Maharashtra in association with International Academy of Science and Research Kolkata in collaboration with Confederation of Indian Universities, New India held on 29-30 July, 2019
- International conference on Advanced Materials Development and Performance (AMDP 2017), organized by Department of Physics, Savitribai Phule Pune University, Pune during 11-15 July, 2017
- National Conference On Innovative Research In Chemical Sciences (IRCS-2017) organized by DEPARTMENT OF CHEMISTRY, SHIVAJI UNIVERSITY, KOLHAPUR – 416004 during 1st and 2nd February 2017.
- National conference on Materials for Advanced Technology and Application (MATA-2016) organized by Plastic and Polymer Engineering Technology Department, Maharashtra Institute of Technology, Aurangabad during 20-21 September, 2016
- International conference on functional materials and microwaves (ICFMM-2015) organized by Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (MS)India during 28-30 December, 2015
- International Conference of Nanomaterials and Nanotechnology (Nano-15) organized by K. S. Rangasamy College of Technology, Tiruchengonde India 7-10December, 2015
- International conference on condensed matter and applied physics (ICC-2015) organized by Department of Physics, Government Eng. College, Bikaner, Rajasthan India during 30-31 October, 2015
- Pre Science Congress conference on ‘Science and Technology for Human Development’ organized by ISCA Aurangabad Chapter along with Dr. Babasaheb Ambedkar Marathwada University, Aurangabad during 30-31 December 2014
- National conference on materials science and technology organized by Milliya Arts, Science and Management Science College, Beed during 23-24 December 2014
- National conference on recent trends in Mathematics, Physics and their applications NCRTMPA 2014 organized by Shankarlal Khandelwal Arts, Commerce and Science College, Akola on 19th March, 2014
- National Conference on Upcoming Trends in Chemical Science UTCS-2013 Organized by Department of Chemistry, Shri Anad Science College, Pathardi during 6-7 September, 2013

Seminar/Workshop/ Industrial Training/ STTP//FDP/CEP/Conference organized

- Worked as an organizing committee member in three days workshop ‘Tarunyabhan’ organized by Maharashtra Institute of Technology, Aurangabad during 8-10 August, 2019.
- Worked as an organizing committee member in RUSA CAST FAMILIARIZATION WORKSHOP on ‘Facilities available at RUSA-Centre for Advanced Sensor Technology for Material Synthesis, Characterization & Device Fabrication and Career / Research opportunities’ on 12th July, 2019 at RUSA-Centre for Advanced Sensor Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad
- Worked as an organizing committee member in the workshop on ‘Intellectual Property Rights’ organized by Industry Institute Partnership cell (IIPC) G. S. Mandal’s MIT College, Aurangabad during 5-6 January, 2018.
- Worked as organizing committee member in the Faculty orientation programme on ‘Advance English Communication and Teaching Techniques’ organized by Basic sciences and humanities department and mechanical engineering department, MIT (T), Aurangabad during 2-3 January, 2018.

- Worked as organizing committee member in the one week short term training programme on ‘Implementation of ICT for effective teaching learning process’ organized by Basic sciences and humanities department and mechanical engineering department, MIT (T), Aurangabad during 27 June – 1 July, 2017
- Worked as an organizing committee member in the Faculty Development Program (FDP-2016) at G. S. Mandal’s MIT College, Aurangabad during 11-16 January, 2016.
- Worked as an organizing committee member in DST Sponsored INSPIRE Science Camp held at Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad in the duration 16-20 December, 2013 and 11-15 February 2013.

Invited talks delivered

Projects, Research Grants and Consultancy

Intellectual Property Rights

- “A Method For Annealing Induced Control for Non Covalent Functionalization of Single Walled Carbon Nanotubes Matrix and Application Thereof” **App. Number: E-2/14/2018/MUM 201721000323 Publication date: 07-12-2018**
- “Automated Equipment for Deposition of Thin Film by Dip Coating and Successive Ionic Layer Adsorption and Reaction and Methods for the Same” **App. Number: E-2/13/2018/MUM 201721000280 Publication date: 13-12-2019**
- “A Method to Select Porphyrins for Selective Volatile Organic Compound Detection and Fabrication of Porphyrin Functionalized SWNTs Sensors Using the Same” **App. Number: E-2/11/2018/MUM 201721000342 Publication date: 07-12-2018**

List of Research Publications

Papers in National/ International Journal

- Arti Rushi, K Datta, P. Ghosh, Ashok Mulchandani, and M D Shirsat “Tuning Coating Thickness of Iron Tetraphenyl Porphyrin on Single Walled Carbon Nanotubes by Annealing: Effect on Benzene Sensing Performance” *Physica Status Solidi A* (2018), 215, 18, 1700956 ISSN 1862-6319
- Arti Rushi, K Datta, P. Ghosh, Ashok Mulchandani, and M D Shirsat “Exercising substituents in porphyrins for real time selective sensing of volatile organic compounds ” *Sensors and Actuators B: Chemical (Elsevier)*, 257, (2018), Pg no. 389–397 ISSN 0925-4005
- Arti D. Rushi, Sumedh Gaikwad, Megha Deshmukh, Harshada Patil, Gajanan Bodkhe and Mahendra D. Shirsat “Porphyrin Functionalized SWNTs: Efficient Combination of Functional Materials for Room Temperature Sensing of Acetone” *BIONANO FRONTIER* 8 (2015), Pg. no. 149-151. ISSN 2320-9593

- Harshada K. Patil, M. A. Deshmukh, G. A. Bodkhe, S. D. Gaikwad, A. D. Rushi, Mahendra D Shirsat “Atomic Force Microscopy and Force Distance Spectroscopy Study of PANI/SWNTs Nanocomposite” BIONANO FRONTIER 8 (2015), 219-222 ISSN 2320-9593
- Kunal Datta, Prasanta Ghosh, Arti Rushi, Ashok Mulchandani and Mahendra Shirsat, “Fe Nanoparticles Tailored Poly(N-Methyl Pyrrole) Nanowires Matrix: A CHEMFET Study in Perspective of Discrimination Among Electron Donating Analytes” Journal of Physics D: Applied Physics 48 (2015) 195301 (8pp) ISSN 0022-3727
- Pankaj Koinkar, Sumedh Gaikwad, Gajanan Bodkhe, Megha Deshmukh, Harshada Patil, Arti Rushi, Mahendra D Shirsat, Yun-Hae Kim, Ashok Mulchandani, “Glucose Sensor based on Conducting Polyaniline Nanowire Electrode Junction” Modern Physics Letters B 29 (2015) 1540045 ISSN 0217-9849
- Sumedh Gaikwad, Gajanan Bodkhe, Megha Deshmukh, Harshada Patil, Arti Rushi, Mahendra D Shirsat, Pankaj Koinkar, Yun-Hae Kim, Ashok Mulchandani, “Chemiresistive Sensor based on Polythiophene-modified Single-Walled Carbon Nanotubes for Detection of NO₂”, Modern Physics Letters B 29 (2015) 1540046 ISSN 0217-9849
- Sumedh Gaikwad, Gajanan Bodkhe, Megha Deshmukh, Harshada Patil, Arti Rushi, Mahendra D Shirsat, Pankaj Koinkar, Yun-Hae Kim, Ashok Mulchandani, “Conducting Polyaniline Nanowire Electrode Junction” Modern Physics Letters B 29 (2015) 1540036 ISSN 0217-9849
- Arti D. Rushi, Sumedh Gaikwad, Megha Deshmukh, Harshada Patil, Gajanan Bodkhe and Mahendra D. Shirsat “Chemiresistive Sensor based on Porphyrin functionalized SWNTs: Effect of Spin Coating Parameters” Journal of Advances in Applied Science and Technology: Material Science Special issue, 1 (2014), Pg no. 161-164 ISSN 2393-8188
- Suveda Aarya, Sumedh Gaikwad, Arti Rushi, Harshada Patil, Megha Deshmukh, Gajanan Bodkhe, K. Ashokan and Mahendra D. Shirsat “100 MeV O₇₊ SHI Irradiation induced modification in Nickel oxide/Polyaniline nanocomposites: A spectroscopic study” Journal of Advances in Applied Science and Technology: Material Science Special issue, 1 (2014), Pg no. 189-192 ISSN 2393-8188
- Gajanan A. Bodkhe, Sumedh Gaikwad, Arti Rushi, Megha Deshmukh, Harshada Patil, Mahendra D. Shirsat “Influence of CoOEP on Redox Activity of PANI” Journal of Advances in Applied Science and Technology: Material Science Special issue, 1 (2014), Pg no. 171-172 ISSN 2393-8188
- Megha A. Deshmukh, Harshada K. Patil, Sumedh D. Gaikwad, Arti D. Rushi, Gajanan A. Bodkhe, Mahendra D. Shirsat “Surface Modification of Aluminium Coated Glass Substrate by Tri-Aminosilane” Journal of Advances in Applied Science and Technology: Material Science Special issue, 1 (2014), Pg no. 167-170 ISSN 2393-8188
- Harshada Patil, Megha Deshmukh, Sumedh Gaikwad, Arti Rushi, Gajanan Bodkhe, Mahendra Shirsat “Organic Conducting Polymer (OCP)/Single Walled Carbon Nanotube (SWNTs) Nanocomposite: Electrosynthesis and Electroanalysis” Journal of Advances in Applied Science and Technology: Material Science Special issue, 1 (2014), Pg no. 179-181 ISSN 2393-8188
- Arti Rushi, K Datta, P. Ghosh, Ashok Mulchandani, and M D Shirsat “Selective Discrimination among BTX: Probing Metalloporphyrin Functionalized SWNTs based Field Effect Transistors” Journal of Physical Chemistry C (ACS), 118, (2014), 24034–24041 ISSN 1932-7447
- R.B. Kulkarni, Arti Rushi, Mohd Anis, S.S. Hussaini, M.D. Shirsat “Comparative Study on Structural, Optical, Dielectric and Thermal Properties of Pure and L-Alanine Doped Bis-Thiourea Cadmium Acetate Crystal” International Journal of Scientific and Research Publications, 4, 7, (2014), Pg no. 1-5 ISSN 2250-3153

- Arti Rushi, K Datta, P. Ghosh, Ashok Mulchandani, and M D Shirsat “Iron Tetraphenyl Porphyrin functionalized Single Wall Carbon Nanotubes For Detection of Benzene ” Materials Letters (Elsevier), 96, (2013), Pg no. 38–41 ISSN 0167-577x

Books/ Book Chapter

- Arti D. Rushi, Kunal Datta, Prasanta Ghosh, and Mahendra D. Shirsat, “Functionalized Carbon Nanotubes for Detection of Volatile Organic Pollutant” DOI: 10.5772/intechopen.85045 in a book ‘Perspective of Carbon Nanotubes’ Editor: Hosam El-Din Saleh and Said Moawad Mohamed El-Sheikh ISBN: 978-1-78984-402-3 Print ISBN: 978-1-78984 URL: <http://www.intechopen.com/books/perspective-of-carbon-nanotubes>

Papers in National /International Conference Proceedings

- Kunal P. Datta, Arti D. Rushi, Prasanta Ghosh, Mahendra D. Shirsat “Controlled Tailoring of SWNTs surface with Au-Nanoparticles-Achieving Highly Sensitive Room Temperature Sensor for Naphthalene” 3rd Biennial International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R), on 3-4 January, 2020 pp. 132.
- Arti D. Rushi, Kunal P. Datta, Prasanta Ghosh, Mahendra D. Shirsat “Degradation of Environment by Volatile Organic Compounds: Causes and Solutions” International Multidisciplinary Research Conference on Biodiversity, Climate Change, Environment and Life Sciences, page 35 (2019); ISBN: 978-93-5382-353-5
- Kunal P. Datta, Arti D. Rushi, Prasanta Ghosh, Mahendra D. Shirsat “Comparative VOCs sensing performance for conducting polymer and porphyrin functionalized carbon nanotubes based sensors” AIP Conference Proceedings 1953, 020002 (2018); doi: 10.1063/1.5032333
- Arti D. Rushi, Kunal P. Datta, Prasanta Ghosh, Mahendra D. Shirsat “FeTPP functionalized nanotubes based sensors for the detection of aliphatic and aromatic group of compounds” 8th International Conference on Advanced Materials Development and Performance (AMDP 2017) 11-15 July, 2017 Pg. no. 103
- Kunal P. Datta, Prasanta Ghosh, Arti D. Rushi, Ashok Mulchandani Mahendra D. Shirsat “Au nanoparticles tailored functionalized SWNTs for room temperature detection of carbon monoxide” 8th International Conference on Advanced Materials Development and Performance (AMDP 2017) 11-15 July, 2017 Pg. no. 104
- Arti D. Rushi, S. Gaikwad, M. Deshmukh, H. Patil, G. Bodkhe, Mahendra D. Shirsat “Nanoparticle Tailored Single Walled Carbon Nanotubes Network Sensor: Approach towards Quantification of Arenes.” proceedings of International Conference on Material Science and Ionizing Radiation Safety & Awareness- (ICMSIRSA-2016), 28-30 January 2016, Pg no. 192.
- Arti D. Rushi, S. Gaikwad, M. Deshmukh, H. Patil, G. Bodkhe, Mahendra D. Shirsat “Functionalized Carbon Nanotubes: Facile Development of Gas Sensor” AIP Conference Proceedings 1728, 020164 (2016); doi: 10.1063/1.4946215
- Arti D. Rushi, Mahendra D. Shirsat “MEK Inhalation Property of Flexible SWNT-Porphyrin Sensor” proceedings of International Conference on Recent Advances in Materials and Chemical Sciences (ICRAMCS-2015), 14-15 December, 2015 (ISBN-978-93-85477-46-1), Pg. no. 275-276.
- Arti D. Rushi, Mahendra D. Shirsat “Porphyrin Functionalized Single Walled Carbon Nanotubes: Chem FETs for Alcohol Detection” Proceedings for International Conference of

Nanomaterials and Nanotechnology (Nano-15) Nanoelectronics and Sensors (ISBN: 978-93-85436-94-9), 7-10 December, 2015. pp. 195-200.

National Conferences:

- Arti D. Rushi, Kunal Datta, Mahendra D. Shirsat, “A step towards pollutants measurement by fabricating chemiresistive sensor” proceedings of National Conference on Emerging Trends in Physical Sciences and Chemical Sciences, 18 January, 2020, **Pg. No.15**
- Arti D. Rushi, Kunal Datta, Prasanta Ghosh, and Mahendra D. Shirsat, “Detection of Hydrocarbons and Nitriles by Iron Tetraphenyl Porphyrin Functionalized Carbon Nanotubes based Sensor” proceedings of National Conference on Materials for Advanced Technology and Application (MATA-2019), 22-23 August, 2019, Pg. No.15
- Arti D. Rushi, Kunal Datta, Prasanta Ghosh, and Mahendra D. Shirsat, “Single Walled Carbon Nanotubes for the Detection of Phenol” proceedings of National Conference on Materials for Advanced Technology and Application (MATA-2016), 20-21 September, 2016, Pg. No.28
- Arti Rushi, M. Deshmukh, H. Patil, S. Gaikwad, G. Bodkhe and M. D. Shirsat, “Fabrication of Carbon Nanotube based Sensors: Facile Route to Detect Air Pollutant in the Environment” National Conference on ‘Harmony with nature in Context of Bio-resources and Environmental Health (Harmony-2015)’ 23-25 November 2015, Pg. no. 180.
- Arti Rushi, Megha Deshmukh, Harshada Patil, Sumedh Gaikwad, Gajanan Bodkhe and Mahendra D. Shirsat, “Spin Coated SWNT-CoTPP Sensor for the Detection of p-Xylene” DAE-BRNS 5th Interdisciplinary Symposium on Materials Chemistry, December 9-13, 2014 (ISBN No. 81-88513-63- 6) 3, Pg no. 421.
- Arti Rushi, Sumedh Gaikwad, Megha Deshmukh, Harshada Patil, Gajanan Bodkhe and Mahendra D. Shirsat, “Gold Nanoparticle modified SWNTs Network for detection of Aromatic Hydrocarbons” Proc. Of Pre Science Congress conference on ‘Science and Technology for Human Development’ Pg no. 62.
- Arti Rushi, Megha Deshmukh, Harshada Patil, Gajanan Bodkhe, Sumedh Gaikwad, Prasanta Ghosh, Kunal Datta and Mahendra D. Shirsat, “ Comparative Performance of Pristine and CoOEP Functionalized SWNT based Methanol Sensor”, Proc. Of NCRTMPA- 2014 organized by Shankarlal Khandelwal Arts, Science and Commerce college, Akola on March 19, 2014. (ISBN 978-81-929160-2-6), Pg no. 61-64.
- Arti Rushi, Megha Deshmukh, Harshada Patil, Prasanta Ghosh, Kunal Datta, Mahendra D. Shirsat, “Defining a Control Over Porphyrin Functionalized SWNTs based OFETs”, National conference on Organic Devices: The Future Ahead (ODeFA-2014) (ISBN: 81-8372-072-2), 3-6 March, 2014 pg no. 121.
- Arti Rushi, Kunal Datta, Prasanta Ghosh and Mahendra D. Shirsat, “Sensitive detection of Methyl Ethyl ketone at room temperature”, National Conference on Upcoming Trends in Chemical Science UTCS-2013, (ISBN: 978-81-905776-99-9) 6-7 September, 2013 Pg no. 104-106.
- Suveda Aarya, Sumedh Gaikwad, Arti Rushi, Harshada Patil, Megha Deshmukh, Gajanan Bodkhe, K. Ashokan and Mahendra D. Shirsat “Surface Modification of Nickel Oxide/ Polyaniline Nanocomposites Induced by 100 MeV Oxygen Ions” proceedings of medical applications of pulse laser and diagnostics techniques 27 January, 2015, (ISBN-978-81-930536-3-8), Pg no. 220-227
- Megha Deshmukh, Harshada Patil, Sumedh Gaikwad, Arti Rushi, Gajanan Bodkhe and Mahendra D. Shirsat, “Electrochemical and morphological Studies of Potentiostatically

Grown Poly Pyrrole Films at Various pH Values” proceedings of medical applications of pulse laser and diagnostics techniques, 27 January, 2015, (ISBN-978-81-930536-3-8), Pg no. 242-251

- Megha Deshmukh, Harshada Patil, Arti Rushi, Gajanan Bodkhe, Sumedh Gaikwad, Mahendra D. Shirsat, “Electrochemical Synthesis and Characterization of PANI/SWNTs Composite” DAE-BRNS 5th Interdisciplinary Symposium on Materials Chemistry, December 9-13, 2014 (ISBN No. 81-88513-63-6) 2, Pg no. 500;
- Harshada Patil, Megha Deshmukh, Arti Rushi, Gajanan Bodkhe, Sumedh Gaikwad, Mahendra D. Shirsat, “Synthesis and Characterization of PANI/SWNTs Composite” DAE-BRNS 5th Interdisciplinary Symposium on Materials Chemistry, December 9-13, 2014 (ISBN No. 81-88513-63- 6), Pg no. 205.
- Harshada Patil, Megha Deshmukh, Sumedh Gaikwad, Arti Rushi, Gajanan Bodkhe and Mahendra D. Shirsat, “Organic Conducting Polymer/ Single Walled Carbon Nanotubes (SWNT) composite: Electrochemical Impedance Spectroscopic Study” Proc. Of Pre Science Congress conference on ‘Science and Technology for Human Development’ Pg no. 60
- Megha Deshmukh, Harshada Patil, Sumedh Gaikwad, Arti Rushi, Gajanan Bodkhe and Mahendra D. Shirsat, “Influence of pH on the morphology and electrochemical activity of potentially grown polypyrrole films” Proc. Of Pre Science Congress conference on ‘Science and Technology for Human Development’ Pg no. 59
- Megha Deshmukh, Harshada Patil, Arti Rushi, Gajanan Bodkhe, Sumedh Gaikwad, Prasanta Ghosh, Kunal Datta and Mahendra D. Shirsat, “ Electrochemical Synthesis and Characterization of Poly-Aniline Carbon Nanotube Composite”, Proc. Of NCRTMPA- 2014 organized by Shankarlal Khandelwal Arts, Science and Commerce college, Akola on March 19, 2014. (ISBN 978-81-929160-2-6), Pg no. 52-56
- Kunal Datta, Prasanta Ghosh, Arti Rushi and M. D. Shirsat, “A Flexible Low Cost Polymeric Platform Immune to Humidity”, Proceedings of NANO INDIA -2013 held at National Institute for Interdisciplinary Science and Technology (CSIR-NIIST), 19-20 February, 2013 pg. no 161-162.

NPTEL Certification

Start Date	End Date	Duration (in Weeks)	Course Name	Marks (Out of 100)	Performance
29-7-2019	20-9-2019.	8	TALE 2: Course Design and Instruction of Engineering Course	77	Elite Silver

Awards, Achievements and Recognition

Date: 24-2-2020

Place: Aurangabad