

## List of Ongoing Projects

<b>Sr. No / Year</b>	<b>Title / Project Investigator's name &amp; dept</b>
104/2009	<b>Application of remotely sensed data for the evaluation of impervious surface growth and its effect on surface run off in two rapidly urbanizing watersheds of Western Maharashtra, India</b> <i>Dr (Mrs) Anargha A Dhorde, Dept of Geography, Nowrosjee Wadia College, Pune</i>
105/2009	<b>Modelling spatial patterns in fresh water reservoirs with special reference to plankton, mollusks and fishes using physico-chemical of water and remote sensing techniques</b> <i>Dr Sangeeta Pandit, Dept of Zoology, UoP</i>
106/2009	<b>Deposition of layered transition metal chalcogenides thin film by SILAR method for their tribological application</b> <i>Dr S D Sartale, Dept of Physics, UoP</i>
107/2009	<b>Synthesis and applications of nanocomposites of metal oxides with multiwalled Carbon nanotubes and metal chalcogenides</b> <i>Dr (Mrs) Pragati Thakur, Dept of Chemistry, UoP</i>
108/2009	<b>Chemical deposition of <math>\text{CuInSe}_2</math> CdS and ZnO thin films for solar cell applications</b> <i>Dr Habib Pathan, Dept of Physics, UoP</i>
109/2009	<b>Use of Geographical Information System to study tuberculosis epidemiology and the factors affecting case detection in a population in Pune district, Maharashtra</b> <i>Dr Anita Kar, Interdisciplinary School of Health Sciences, UoP</i>
110/2009	<b>A comparative study of telecommunication technology: Its impact and relevance on urban, rural and tribal community of Maharashtra</b> <i>Dr Prakash B Gambhir, Academic Staff College, UoP</i>
111/2009	<b>Study of Biodiversity of some invertebrates of Sawanga (Vithoba) Lake Region, Dist Amravati, Maharashtra</b> <i>Dr (Mrs) Varsha W Wankhade, Dept of Zoology, UoP</i>
112/2009	<b>Impact of low and high radiation doses on the nutritional quality, functional properties and shelf life of various foods</b> <i>Prof. Madhurima Dikshit, Dept of Chemistry, UoP</i>
113/2009	<b>Study of the radiative forcing of atmospheric aerosols over environments</b> <i>Prof G R Aher, Dept of Physics, Nowrosjee Wadia College, Pune</i>

- 115/2011 **Studies on structural, optical and electrical properties of transparent conducting thin film (TCO).**  
*Dr Arle Ramdas Nivrutti, Jijamata College of Science and Arts, Bhende*
- 116/2011 **Novel electrochemical approach to prepare CuInGaSe<sub>2</sub> based solar cells using non-aqueous bath.**  
*Dr N B Chaure, Dept of Physics, UoP*
- 117/2011 **Design and development of an odor tracking system.**  
*Dr (Mrs) DC Gharpure Dept of Electronic Sciences, UoP*
- 118/2011 **Study of interferometric data and its applications for subsidence monitoring.**  
*Mrs Chaitali Abhijit Laulkar, Sinhgad College of Engineering, Pune*
- 119/2011 **Identification of critical areas of conservation concern using RS-GIS technique from northern Western Ghats of India.**  
*Dr Ankur Patwardhan, Abasaheb Garware College, Pune*
- 120/2011 **Development of high performance Polycarbonate/Graphite nanocomposites with low percolation for EMI shielding application.**  
*Dr Rajendra Kumar Goyal, College of Engineering, Pune*
- 121/2011 **Synthesis and characterization of Copper Chromite for propellant**  
*Dr S L Bonde, Nowrosjee Wadia College, Pune*
- 122/2011 **Preparation of Barium Magnesium Tantalate (BMT) and Barium Zinc Tantalate (BZT) with and without dopants for microwave dielectric application.**  
*Dr (Mrs) MY Khaladkar, College of Engineering, Pune*
- 123/2011 **Biogradation of Ammonium Perchlorate by phytoremediation approaches.**  
*Dr Rekha Gupta, Modern College of Arts, Science and Commerce, Pune*
- 124/2011 **Enhancing rural development through improved communication: case study western India.**  
*Prof Sanjeev Sonawane, Dept of Education & Extension, UoP*
- 125/2011 **Measurement of plasma temperature and identification of species during re-entry of Space Shuttle, using plasma emission spectroscopy.**  
*Dr V L Mathe, Dept of Physics, UoP*

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<b>Sr. No / Year</b>	<b>Title / Project Investigator's name &amp; dept</b>
126/2011	<b>Hazardous Nitrous Oxide gas leakage detection and monitoring system using wireless sensor network</b> <i>Prof. Arunkumar Walunj, Poona College of Arts, Science &amp; Commerce, Pune</i>
127/2012	<b>Development of conducting polyaniline-ZnO nano particle composite paint coating for corrosion protection.</b> <i>Dr Pravin Deshpande, College of Engineering, Pune</i>
128/2012	<b>Impact of Geo-hazards on human settlement.</b> <i>Dr Vijaya Khairkar, Dept.of Geography, UoP</i>
129/2012	<b>Splitting of carbon dioxide into oxygen and carbon moiety using biomimetics of biological catalysts involved in photosynthesis</b> <i>Dr. (Mrs.)Waghmode Shobha Ajeet, Abasaheb Garware College, Pune</i>
130/2012	<b>Development of transition metal oxide nanoparticle films for solar radiation protection and solar cells.</b> <i>Dr Jayashree Pant, Abasaheb Garware College, Pune</i>
131/2012	<b>Preparation of Co<sub>3</sub>O<sub>4</sub> films by using electrochemical and spray pyrolysis deposition methods for gas sensing applications</b> <i>Dr. Shelke Pandit Nivrattirao, Baburaoji Gholap College, New Sangvi, Pune</i>
132/2012	<b>Real time human detection using covariance matrix as human descriptor</b> <i>Prof S.A.Kakade, PDEA's College of Engineering, Manjari(Bk), Pune.</i>
133/2012	<b>Metallic surface plasmon phenomenon as a biosensor for the identification of biomolecules</b> <i>Dr V M Harpale, Ahmednagar College, Ahmednagar</i>

134/2012 **Sensor-less XY planar flexural scanning mechanism for precision application**  
*Dr. Suhas P. Deshmukh, Sinhgad Academy of Engineering, Kondhawa(Bk), Pune*

135/2012 **Digital elevation model (DEM) fusion**  
*Dr Pratibha P Shingare, College of Engineering, Pune*

- 136/2013 **Naphthoquinone containing metal polypyridyl complexes for solar cells: Computational and experimental study.**  
*(Dr Sunita Salunke) Department of Chemistry UoP*
- 137/2013 **Feasibility study on indigenous development of electrochemical based gas sensors and transmitters**  
*(Prof A D Shaligram) Dept. of Electronic Science, UoP*
- 138/2013 **Development of microwave excess noise generator heads using gas discharge of reactive and non reactive gases.**  
*(Prof S A Gangal) Department of Electronic Science UoP*
- 139/2013 **Development of graphite fiber reinforced aluminum (7075) in the rolled sheet form.**  
*(Prof Madhuri Deshpande) Vishwakarma Institute of Technology, Pune*
- 140/2013 **Halophilic bacterial diversity of marine ecosystems from West Coast of India.**  
*(Dr Rebecca Thombre) Modern College, Shivajinagar, Pune*
- 141/2013 **Studies on nano porous metal oxides via anodization and their applications in super capacitors.**  
*(Dr Arif Shaikh) Poona College of Arts, Science & Commerce, Camp, Pune*
- 142/2013 **The development of the F C Observatroy an autonomous robotic telescope.**  
*(Dr Raka Dabhade) Fergusson College, Pune*
- 143/2013 **Multifunctional conducting polymertransition metal composite nanostructure based sensor device for detection of NO<sub>2</sub> H<sub>2</sub>S and NH<sub>3</sub>.**  
*(Dr Vasant Chabukswar) Nowrosjee Wadia College, Pune*

- 144/2014 **Development of Flexible and high temperature aerogels**  
*(Dr N B Chaure) Department of Physics, UoP*
- 145/2014 **Occurrence and distribution of fluoride in groundwater of Terekhol river basin, Sindhudurg and district, Maharashtra: A Remote Sensing and GIS based study**  
*(Dr S K Gaikwad) Department of Geology, UoP*
- 146/2014 **Remote sensing application in Coastal geomorphology, changes in morphology in parts of West coast of Maharashtra**  
*(Dr Milind Herlekar) Department of Geology, Uop*
- 147/2014 **Study of precipitation characteristics using disdrometer and satellite datasets over Pune** *(Dr Rohini Bhawar) Department of Atmospheric Space Sciences, UoP*
- 148/2014 **Optimization of low voltage DC micro-grid with intelligent Solar PV Utilization for a computer laboratory**  
*(Prof Vivek Aranake) VIIT College, Pune*
- 149/2014 **Processing of Natural Biopolymers-Wild and Domestic Silk varieties of Northern Western Ghats: Fabrication of biopolymer film based technological substrate for advanced optical structures**  
*(Dr R D Chaudhari) Shri Shiv Chhatrapati College of Arts, Science & Commerce, JUNNAR, Dist-Pune*
- 150/2014 **Stabilization of zirconia for electronic applications, in tetragonal and cubic structure using various dopants**  
*(Dr M Y Khaladkar) College of Engineering, UoP*
- 151/2014 **Interaction of plasma with thermal protecting system (TPS) material during Re-entry of space vehicle**  
*(Dr V L Mathe) Department of Physics, UoP*

- 152/2015    **Development of Nuclear Batteries using Radioactive Sources**  
*Prof Sanjay Dhole, Dept.of Physics, SPPU*
- 153/2015    **Design, fabrication and testing of a compact and robust Monochromator**  
*Mr C. S. Garde, Vishwakarma Institute of Information Technology, Pune*
- 154/2015    **Fabrication of Magnetolectric Energy harvesters by Utilizing Piezoelectric-Macro fiber composite (MFC) and Magnetostrictive- Nickel/Metglas/Magnetic oxide materials**  
*Dr R C Kambale, Dept.of Physics, SPPU*
- 155/2015    **Design feasibility of PLL frequency synthesizer for Ku band**  
*Mrs Shobha Nikam, Institute of Information Technology, Pune*
- 156/2015    **Space Radiation from the Optically Transparent Planar Microstrip Antenna Integrated with the Solar Panels of Small Satellites**  
*Dr Jayashree Shinde, Sinhgad Academy of Engineering, Pune*
- 157/2015    **Development of coating/manufacturing technology for friction stir coating/welding tool for welding of 3 mm thick stainless steel sheets**  
*Prof Rajesh Chaudhari, Vishwakarma Institute of Technology, Pune*
- 158/2015    **Studies on Biodiversity of poly-extremophilic bacteria for their probable use as test organisms in space research**  
*Dr Neelima Deshpande, Abasaheb Garware College, Pune*

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<b>Sr. No / Year</b>	<b>Title / Project Investigator's name &amp; dept</b>
159/2016	<b>Development of Pre qual engineering model of “SEAPS” (300 KHz to 30 MHz) RF front-end electronics and data acquisition system for low frequency Space Science studies</b> <i>(Dr D C Gharpure) Department of Electronics Science SPPU</i>
160/2016	<b>Converting energy derivable from low energy sources into electrical power for autonomous sensors applications</b> <i>(Prof Subash Ghaisas) Department of Electronic Science, SPPU</i>
161/2016	<b>Development of high current density thermal-field (T-f) cathodes</b> <i>(Prof M A More) Department of Physics, SPPU</i>
162/2016	<b>Fabrication of a small satellite for monitoring radiations in different orbits of outer atmosphere when orbit maneuvering will be controlled by solar sail</b> <i>(Dr (Mrs) Rohini Mudhalwadkar) College of Engineering, Pune</i>
163/2016	<b>Studies on glare reduction techniques for indoor illumination systems</b> <i>(Dr Jayashri Bangali) Kaveri College of Arts, Science &amp; Commerce, Erandwane, Pune</i>
164/2016	<b>Valve-less linear compressor driven stirling cycle cryo-cooler for space</b> <i>(Prof Virendra Bhojwani) JSCOE College, Hadapsar, Pune</i>
165/2016	<b>Drilling techniques/technology for drilling of miniature size holes of diameter less than 10 microns in super alloys for a depth of 1.0 mm</b> <i>(Prof Ganesh Dongare) VIT College, Bibwewadi, Pune</i>
166/2016	<b>Bioleaching of Electronics Wastes (E-wastes)</b> <i>(Prof Ameeta Ravikumar) Department of Biotechnology Science SPPU</i>