

## Mr. Drabindra Pandit

Head of Department-Physics



Degree: PhD Scholar

Name of the University: Tribhuvan University

Specialization: Space-Geo Physics

Research Interest: Space Science/ Biomedical Physics/ Material Science

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Research work:

### Publications:

- Study the effects of patient's radiation dose reduction parameter on image quality of CT scan in Nepalese population- 2016 Published in *SXC Journal of Science and Technology*, Xavier's College, Kathmandu
- Daily, Seasonal and Monthly Variation of Middle-low latitudes Magnetic Field during Low Solar Activity, *Discovery*, 2017
- Ongoing Thesis/project: Study of Acoustical and Thermodynamically Property of Juice, Cold Drinks etc at Different Temperature through Ultrasonic Technique.

### Worked as thesis Supervisor/Co-supervisor

- Study of linear attenuation coefficient of white matter and Gray matter of brain in Nepalese population using CT Scan-2016
- The study on occupational radiation protection at Bhaktapur cancer Hospital in Co-60 Teletherapy units and Brachytherapy units-2016
- Investigation of photovoltaic performances of dye sensitized solar cells devised with Fe doped ZnO thin films-2015
- Dopant species and concentration dependence of optical properties of ZnO films: prospect of application in thin film based solar cells-2015
- Study of the variation of CT no. between normal and liver Neoplasm Patients-2015
- Comparisons of estimate size of liver and spleen by USG with their age, weight and height of Nepalese People-2015
- A study of Radiation dosimeter and quality assurance in Co- 60 Teletherapy at Bhaktapur cancer Hospital (BCH), Bhaktapur-2014
- Study of linear attenuation coefficient of normal liver and pancreas in Nepalese population using CT Scan-2013
- Study of Brain Wave Analysis of childhood in Epilepsy patient using EEG Machine by Longitudinal bipolar Montage planning-2013
- Study of effects of Patients Radiation Dose reduction parameters on Image Quality of CT scan-2013

### Worked as Supervisor in Project

- ❖ Study of Acoustical and Thermodynamic properties of Solutions of NaCl and KCl at different Concentration and Temperature using Ultrasonic Technique-2016
- ❖ To study the variation of voltage and current with change in temperature for Polycrystalline Solar Photovoltaic Module-2015
- ❖ Measurement of speed of Electromagnetic wave using Microwaves-2014
- ❖ A study of variation of resistance of thermistor with temperature and its application in fan controller-2014
- ❖ A study of Electro-acoustic properties of the Middle Ear and its correlation with conductive loss-2014
- ❖ A study of variation of Hearing Threshold level using pure tone Audiometry 0.25 to 8 KHz -2014
- ❖ A study of Quantum Entanglement and its application in Physics-2013
- ❖ A study of Topological symmetry and its implication in Physics-2013
- ❖ Determination of Dielectric Constant of wood using Dielectric Constant Kit-2012
- ❖ Determination of Planck's constant-2012
- ❖ Small Range FM Transmitter-2012