



**Ashwinikumar Umeshchandra Bajpeyee**

Ass. Prof. in Physics

Department of Physics and Electronics

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**Objectives**

- To get ready for self reliant teacher in the job
- To contribute in research, applications and its development
- To contribute in academic administration
- To administrate an academic institutions
- To develop social commitments and good citizenship among learners

**Goals Achieved**

- Ph. D. Supervisor
- As a teacher of Under Graduate, Post Graduate Physics Students
- Published Research Articles in Journals of National and International Repute, Attended actively and presented Research Articles in the State, National and International Levels
- Worked on different 9 committees as a head, coordinator, member of the college and the University
- Actively working as an administrator in the following capacity
  1. Director of the Vishwabharati CBSE School affiliated to CBDE-Delhi and Government of Maharashtra
  2. Treasurer Amravati University Physics Teachers' Association
  3. Member of Co-ordination Committee of NAAC at College Level
  4. Worked as a Member of Local Enquiry Committee appointed by the Sant Gadge Baba Amravati University
  5. Member of the Committee for preparation of the Questioner in the subject Physics at the Sant Gadge Baba Amravati University
  6. Organizing Committee of the Research Conference/s
  7. Reviewer of the Research Journal/s and Publication/s

**Awards**

- Best Research Article Presentation Award at Internationally notorious Hanuman Vyayam Prasarak Mandal's College of Engineering and Technology by Padmashri Shri P. A. Vaidya, Principle Secretary of the Institution (Topic: Science and Environmental Engineering)
- State Level five Awards of Excellence of Skills in the Intermediate Drawing Grade Examination conducted by Government of Maharashtra

**Research Area and other Area of Interest**

- Material Science and Materials Synthesis

- Synthesis of nano-structured dielectric materials
- Applications of dielectric materials as a thick film
- Gas Sensors
- Synthesis of cosmetic materials applicable in Sun-screens and skin protection
- Theoretical and Mathematical Physics
- Electronics based Projects
- Environmental Science and its theoretical base in Physics

#### **Beneficiary of the Knowledge**

- Dange Scientific Trading Company  
(Type of benefit/s: The commercial organization have got knowledge of micron and submicron level polythene material not to be used in the society for Environmental Protection operated by Municipal Corporation)
- Commercial Construction Engineer and Ashirwad Construction Company  
(Type of benefit: Got the knowledge of scaling of the gauge and the converted S. I. unit conversion)

#### **Contribution in the Subject Spreading and Extension of Subject Knowledge**

- Convener of Yearlong Program of World Year of Physics 2005
- Coordinator and Convener of “Workshop on Handling and Care of Electric House wares” especially for girls learning UG courses
- Coordinator of Essay Competition on “Science and Natural Disaster”
- Convener of Basic and Popular Science Knowledge Test (for Std V to PG Level)
- Contributed in engaging the Lectures at Post Graduate (MSc) Level in Physics
- Coordinator and Invited Faculty at Junior College & its Administration
- Contributed in spreading of the Knowledge to the students of Junior College Level through Schemes
- Coordinator of “Demonstration of the Experiments at School Level”
- Survey on “Energy Saving Tools for community”

#### **Spreading of Knowledge in Community Development**

- Speech on Fundamental Education and National Service Scheme
- Speech on Self Discipline and National Service Scheme
- Juries for the Inter-Collegiate Seminar Competition
- State Government of Maharashtra organized School Level Students Seminar on Water Problems on the Earth
- State Government of Maharashtra organized School Level Students Seminar on “Chandrayan”
- Speech on “How to Save Electricity” for the students of middle and high school in the vicinity.

#### **Formal Education in Physics / Physics as a main Subject**

(From SGB Amravati University, Amravati - Maharashtra)

- **2012 Ph. D.**  
Structural & Electrical Studies of Dielectric Layers on Semiconductor

- **2011 M. Phil.**  
Effect of Calcium doping on the dielectric properties of PbTiO<sub>3</sub>
- **1995 M. Sc. (3<sup>rd</sup> Merit from SGBAU)**  
3<sup>rd</sup> Rank in the order of Merit of Sant Gadge Baba Amravati University, Amravati.
- **Good Academic Record** as per UGC norms

**Experience (20 years)**

- **Academic:** 23 years UG: 19 PG: 04
- **Research Project/s:** 15 years M. Phil./Research Articles: 07 Ph. D.: 08

**Contributed Books:** 06 (Authored)

**Research Project Sanctioned by Academic/Research Bodies**

UGC –Minor Research Project 2011-12 and 2013-14

Principle Investigator: A. U. Bajpeyee  
 Funding Agency: UGC  
 Amount Allocated: Rs. 1, 65, 000  
 Date of Sanction: April 04, 2011  
 Date of Implementation: April 04, 2011  
 Duration Stated: 2 year  
 Status: Completed and settled

**Administrative Assistance at Under Graduate College**

1. Working as a member, Internal Quality Assurance Cell.
2. Worked as a member of various college committees.
3. Worked as a convener of different extension activities.
4. Worked as HoD of Physics Department

**Contact address:**

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[aubajpeyee@rediffmail.com](mailto:aubajpeyee@rediffmail.com)

**Research Publications (Recent):**

State Level Conferences/Seminars/Workshops: Abstracts: 3 Full Length Articles: 2

National Level Conferences/Seminars/Workshops: Abstracts: 11 Full Length: 12

Inter-National Level Conferences/Seminars/Workshops: Abstracts: 00 Full Length: 10

..... Can be confirmed for more details from

<http://www.narsammaacsc.org> and [vishwabharati.ac.in](http://www.vishwabharati.ac.in)