BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY)

COLLEGE OF ENGINEERING, PUNE

Department of Electronics Engineering

TITLE OF ACTIVITY: EXPERT SEMINAR ON "LIGHTENING PROTECTION AS PER IEC/IS 62305"

Date: 24th January 2020

Venue: WW-II-209

Seminar conducted by: Mr. Subhash L. Bahulekar, Consultant, Engineering Consultancy Services and the Member of CEEAMA

Objective:

- To aware about lightening protection system and its usage in day-to-day life.
- To introduce standards in India for Lightning Protection System.

Summary of the Seminar:

- The seminar provided the basic knowledge of lightening protection systems and various materials used for it.
- Lightening conductor is a metal rod mounted on a structure and intended to protect the structure from a lightening strike. If lightning hits the structure, it will preferentially strike the rod and be conducted to ground through a wire, instead of

Photographs:

Felicitation of the Guest: Mr. Subhash L. Bahulekar, Consultant, Engineering Consultancy Services and the Member of CEEAMA by the hands of Dr. D.S. Bankar, Head, Department of Electrical Engineering, BV(DU) COE, Pune.

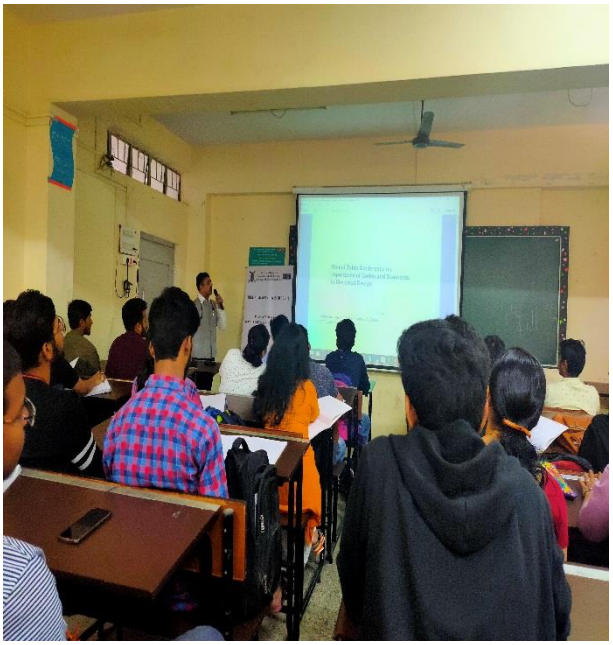
passing through the structure, where it could start a fire or cause electrocution. Lightning rods are also called finials, air terminals, or strike termination devices.

- In a lightning protection system, a lightning rod is a single component of the system. The lightning rod requires a connection to earth to perform its protective function. Lightning rods come in many different forms, including hollow, solid, pointed, rounded, flat strips, or even bristle brush-like. The main attribute common to all lightning rods is that they are all made of conductive materials, such as copper and aluminum. Copper and its alloys are the most common materials used in lightning protection.
- Expert has started his session with "What is lightning"? and then continued by stating lightning's hazards on various sector like aircraft, wildlife etc. He explained Benjamin Franklin Experiment to explain lightning and its importance

Interactive session on Lightening Protection system and standards used for it.

and told about the observations from typical Indian Infrastructure.

- Seminar was organized by Mrs. Sharda Tondare, Counselor and Mrs. Rupali Ambekar, Mentor, IEEE Student Branch, BV(DU) College of Engineering, Pune for IEEE student members across IEEE Pune Section.



Outcome:

- Expert discussed Lightening protection systems and CEA Regulations-2010 (General Safety). He also discussed Standards of BIB, Earthing Standards-IS 3043, National Electrical Code, IEEE Standards and IEC/IS 62305. He then explored various advantages of standards and codes.
- Based on the discussion, students gained knowledge and understood the importance of protection system and standards used for it.