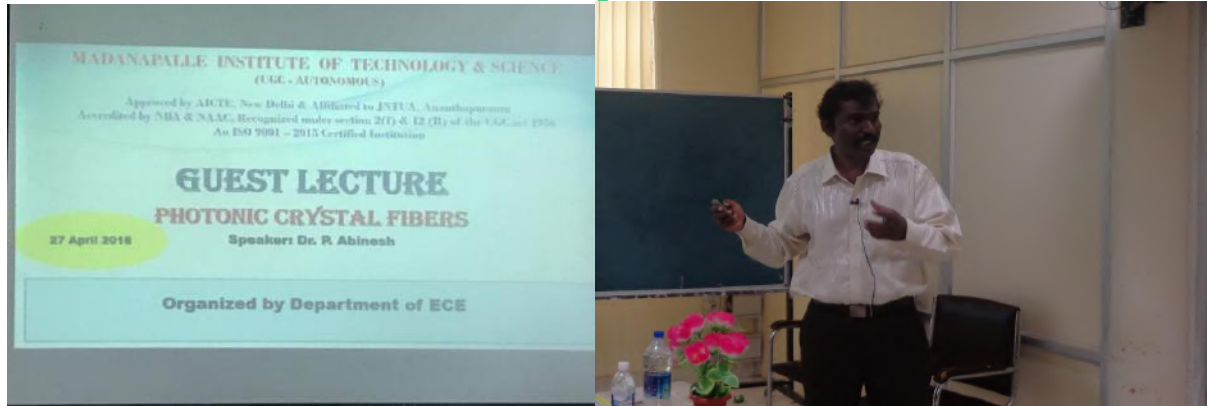


**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE**  
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**Report on**  
**One day Guest lecture on**  
**Photonic Crystal Fibers**  
**27 April 2018**



*Submitted by: Dr. Kumar Manoj, Associate Professor, Department of Electronics and Communication Engineering*

To enhance the knowledge of 3<sup>rd</sup> and final year students. A one day guest lecture was organized by department of ECE common to all branched regarding photonics. The lecture begun at 11 AM in college seminar hall. The key speaker was Dr. Abinash .

Dr. Abinash working as Professor in Department of Electronics & Communication Engineering, School of Electrical, Electronics & Communication Engineering, Velammal engineering college. He is have

qualified the following- Doctor of Philosophy, Bachelor of Engineering, Master of Technology with the specialization in optoelectronics, electronics and telecommunication and VLSI design respectively. The personality Holds an experience of 14 years and still counting.

All the students of Electronics Engineering Department were present at this knowledge sharing session. Prof. Manish Tiwari began his lecture with introduction about Photonic Crystal Fibers. He emphasized on today's technology, uses of non-linear optics etc. In his lecture he explained all the processes that were involved in manufacturing of Photonic Crystal Fibers. The processes involved were Introduction, guiding mechanism of PCF, fabrication Methods and properties of PCF. Various components of an engine is produced using some or the other processes listed above. After explaining the manufacturing processes, he illustrated various materials used in the manufacturing of the components of the PCF. He explained the process flow in detail and elucidated the testing methods employed in manufacturing. He disclosed some modern techniques that are used in its manufacturing. He also threw light on how the material testing can be done in an industry. He finally concluded his lecture by pointing out the difference between Knowledge and Information. After his lecture the students were given time to interact with the dignitary. Through the interaction, several other information about PCF and scope of Optical Science in future.

The lecture was of great success. It helps students to know about something new and prepare themselves for something innovative and new. The Lecture came to an end with the Vote of Thanks by the Professor

The students from 3<sup>rd</sup> year participated the event and got benefitted by obtaining basic knowledge in digital signals.