



# ABBE SCHOOL OF PHOTONICS

at the Friedrich-Schiller-Universität Jena

## Lecture Announcement

### for ERASMUS MUNDUS Visiting **Prof. Kyunghwan Oh**

Department of Physics, Institute of Physics and Applied Physics at Yonsei University, Seoul, Korea.

### “Optical fiber: the most efficient transmission medium for communications”



**Prof. Kyunghwan Oh** is a director of Photonics Device Physics Laboratory, a national research laboratory funded by Ministry of Education, Science, and Technology (MEST) of Korea. Since receiving Ph.D. in fiber optics from Brown University, USA in 1994, he has focused on fiber optics research especially specialty fiber for both active and passive devices. He has authored and co-authored more than 130 journal articles including 4 invited papers, and 20 patents. He is a topical editor of Optics Letters, an international advisory board member of Optics Communications, an associate Editor of Optical Fiber Technology, and an executive editor of Current Applied Physics.

**Abstract:** In this introductory course, optical fiber will be discussed in terms of its excellent features for optical communication applications. Attenuation, chromatic dispersions will be discussed for the power budget and timing analysis in optical links. Modal properties of optical fiber will be also discussed.

**Audience:** upper level undergraduate seniors, graduate students majoring in optics, physics, electrical engineering, and material science

**Pre-requisites:** electromagnetism, electromagnetic waves

**When:** 30<sup>th</sup> of June, 12.15 p.m. to 13.45 p.m.

**Where:** Lecture hall 1, Building 1 (Max-Wien-Platz 1, main building PAF, large lecture hall)