



Taksha University

Short Course TRS101:
**FUNDAMENTALS OF
ATMOSPHERIC RADIATION**



*Sponsored by the Institute for Atmospheric Optics and Remote Sensing (IFAORS),
a division of Taksha University (TU)*

Date: TBA
8:30am-5:00pm
Venue: TBA

Course Faculty:

Instructor: Dr. Benjamin Herman - Professor, IFAORS, Taksha University; former Director of the Institute of Atmospheric Physics and former Head, Department of Atmospheric Sciences at the University of Arizona, Tucson

Director: Dr. Paul D. Try - IFAORS, Taksha University

COURSE DESCRIPTION

The purpose of this course is to introduce the basic definitions, laws, and concepts of atmospheric radiation. This course will prepare its students for further coursework, research, or applications in which the basic principles are required to develop more advanced principles of radiation and radiative transfer.

WHO SHOULD ATTEND

The course is designed as an initial introduction to radiation, to acquaint scientists, science or R&D managers, and research support personnel with a basic understanding of radiation terminology, and fundamental laws governing the behavior of radiation. It will also be of value for those who wish to go further into related subjects of radiative transfer or to consider applications such as remote sensing, modeling, or sensor/instrument performance, but do not yet have a sufficient background in these areas.

COURSE OUTLINE

Day 1 (6 hours): Basic definitions will be reviewed with examples demonstrating their usage. Fundamental laws of radiation will also be presented along with examples of usage.

Day 2 (6 hours): The complete equation of radiative transfer will be derived, including the multiple scattering term. Solutions for simplified cases will be derived and discussed.

A Certificate of Course Completion will be awarded to each student at the end of the course.

COURSE BOOK: No textbook is required. Course materials will be provided on site.

Course Fee: TBA

Early Registration Fee: TBA.

Group discounts are also available!

To register online or learn more about this or other Taksha courses in earth and space sciences:

www.taksha.org

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Course Administrator Tel: 757-766-5832; Fax: 757-865-1294

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