

WEBINAR TALK ON “FIBER OPTIC SENSORS”

ORGANISED BY :
ENGINEERING EDUCATION TECHNICAL DIVISION

BEM APPROVED CPD: 2

REF NO: IEM23/HQ/031/T (w)

Presented by:

Ir. Assoc Prof. Dr. Malathy Batumalay

**7 March 2023, Tuesday
3.00pm - 5.00pm**

REGISTRATION FEE :

IEM STUDENT : FOC

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SYNOPSIS

Optical fibers are used most often as a means to transmit light between transmitter and the receiver. A fiber optic sensor is a sensor that uses optical fiber either as the sensing element or as a means of relaying signals from a remote sensor to the electronics that process the signals.

Optical fibers can be used as sensors to measure strain, temperature, pressure and other quantities. This is done by modifying a fiber so that the quantity to be measured modulates the intensity, phase, polarization, wavelength or transit time of light in the fiber.

Here, she will talk about creating fiber optic sensors to track environmental changes. Additionally, she will discuss the recent progress in fiber optics and with a brief idea to relate with future trends demand.

SPEAKER'S PROFILE

Malathy Batumalay graduated from University Tun Hussein Onn in Malaysia with a B.E. in Electrical Engineering. She graduated from University Malaya in Malaysia with a Masters in Engineering and a PhD in Photonics Engineering. Currently, Malathy is attached to INTI International University. Malathy focused on research in lasers, fiber optics, and photonics engineering. In her earlier research, she transformed fiber optics into sensors that track relative humidity and detect changes in solution. In order to further investigate fiber optics sensors, she is currently collaborating with University Malaya, University Teknikal Malaysia Melaka and Airlangga University, Indonesia. To date, she has successfully completed 3 seed grant and published papers on the related field.