**Continues and Pulsed Laser Beam Modulation** 

Al-Abid Ahmed Al-Zaini

Physics department- Science College

Jazan University

**Abstract**:

In this report, we theoretically study the modulation of the continuous and pulsed laser beam. In

the beginning, we introduced the main laser modulation types: the amplitude, the frequency, and

the phase modulation. Then we presented an overview of the continuous and pulsed laser beam

modulation techniques. We numerically analyzed the frequency modulation of a continuous

carrier laser beam at different deviation constant of a message signal. Also, we study the phase

modulation of the Gaussian laser pulse at different phase shifts.

*Keywords:* 

Laser Modulation, Self-Phase Modulation, Gaussian Pulse