

Examination Feedback for EEE6041– Optical Communication Devices and Systems
Autumn Semester 2012-13

Feedback for EEE6041 Session: 2012-2013

Feedback: Please write simple statements about how well students addressed the exam paper in general and each individual question in particular including common problems/mistakes and areas of concern in the boxes provided below. Increase row height if necessary.

General Comments:

All the questions are generally well-answered, and some students miss some subtle points.

Question 1:

Most students have answered well.

However,

1b: Most students understand the mechanisms of a laser diode and an optical amplifier. Unfortunately, a large number of students don't highlight the major difference between a laser diode and an optical amplifier. A laser diode requires an optical cavity, while an optical amplifier doesn't

1c: A small number of students mis-use the refractive indices of AlGaAs and GaAs to calculate the reflectivity.

Question 2:

2b is not well-answered. The rest parts are okay

Question 3:

Well answered

Question 4:

4a is well-answered

4b: A small number of students miss one point for the formation of optical modes, which is related to the requirement of total internal reflection

4c: well-answered, but a small number of students forget the equation for the calculation of the number of optical modes