

## INTISARI

Telah dilakukan penelitian tentang Pengaruh Kontras Film biru dan Film hijau terhadap Kualitas Radiograf. Penggunaan film biru dan film hijau yang berbeda kesensitivannya ini menyebabkan perbedaan gambar radiograf, sehingga menghasilkan densitas dan kontras radiograf yang berbeda.

Pengaruh Kontras Film biru dan Film hijau terhadap Kualitas Radiograf diperoleh melalui pengukuran densitas radiograf setelah sinar-X menembus *stepwedge* dengan menggunakan alat densitas optik yaitu densitometer. Adanya perbedaan densitas pada *stepwedge* menghasilkan kontras radiografi. Untuk mengetahui karakteristik fotografi berdasarkan kontras film biru dan film hijau maka dibuat kurva karakteristik berdasarkan hasil pengukuran densitas.

Hasil penelitian menunjukkan, bahwa densitas film hijau yakni 1,38-2,85 lebih tinggi dibandingkan film biru antara 0,32-1,72. Sedangkan kontras film hijau yakni 1,16-1,34 akan lebih tinggi dibandingkan kontras film biru antara 0,22-1,42. Kontras tersebut mengalami penurunan sejalan dengan meningkatnya faktor eksposi.



## **ABSTRACT**

Recently, the contrast efek of the blue and the green film with the radiographic quality. The using of blue film and green film which are differ from their sensitivity causes the difference of radiography image, so that this phenomena result in the various of density and radiography contras.

Efek contrast of the blue and green sensitive with the radiographic quality by means the measuring of radiography density after the stepwedge absorbs X-rays by optic density measurement that is called densitometry. The differences of density on the stepwedge result in radiography contrast. This research attempts to clarify the characteristics of blue film and green sensitive film. Therefore, the writer makes the characteristic curve according to the measurement value of density degree.

The result of the research shows that green sensitive film densities that are 1.38-2.85, was higher than blue sensitive film that having density of 0,32-1,72. Meanwhile, the green sensitive film contrast that are 1.16-1.34, was higher than the blue sensitive film that having contrast of 0.22-1.42. The contrast will decrease whenever the exposure factor became increase.

