

## **ABSTRACT**

### **REALISASI ALAT UKUR INDEKS BIAS PADA MINYAK GORENG KELAPA SAWIT MENGGUNAKAN SENSOR OPTIK BERBASIS MIKROKONTROLER ATMEGA 8535**

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It has been realized the refraction index instrument to measuring the refraction index of fried coconut oil. The part of this tools are : LDR, sensor ATmega 8535 and computer. The work process of this tool is the laser shine will perforate of the sample and LDR sensor will receive the lightest shine from laser shine which have deviate by liquid. When LDR sensor perforate the shine so the LDR sensor will process the tension and microcontroller will read the result of LDR sensor. And then continue the perform on the computer. The result of LDR will be conversion by using the program as a value of liquid refraction index. The result of change the value of refraction index to every samples are different. On every sample have the different value refraction index too. So this tool is good for perform the value refraction index of every kind fried oil which able to perforate the real shine.

**Keyword** : Refraction index, LDR sensor, microcontroller ATMEGA 8535.