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**Course name :**

**Crop Production Technology-II  
(ASAG 2204)**

**Course credit :**

**(2-1-0)**

**Experiment 6**

**Topic: Yield and Juice Quality  
Analysis of Sugarcane**



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- **6.1 Aim**
- To determine the yield and quality parameters of sugarcane
  
- **6.2 Material required**
- Refractometer (brix), tissue paper and syrup



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## 6.3 Procedure

- Take refractometer
- Ensure the refractometer prism surface is cleaned and dry
- Place a two to three drops of fresh cane juice
- Look through the eyepiece while the prism in light direction
- Focus on scale and take the reading Clean the refractometer.



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- An estimation of sucrose content can also be made using the refractometer brix reading the equation

$$\text{Sucrose \%} = \frac{\text{RB} - 306}{0.97} \times 100$$

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- **Where, RB = Refractometer brix value**