PREPARATION AND COLOR MATCHING IN INK

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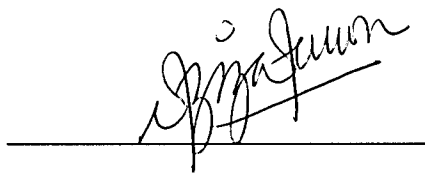
This final year project report entitled "**Preparation and Color Matching in Ink**" was submitted by Nurul Ashikin Bt Arshad, in partial fulfillment of the requirement for Degree of Bachelor of Science (Hons.) Physics, in the Faculty of Applied Science, and was approved by



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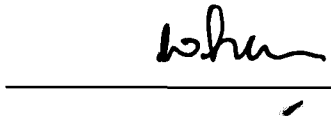

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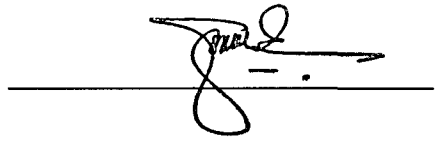

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ABSTRACT

PREPARATION AND COLOR MATCHING IN INK

This was the study on preparation and color matching in ink. The objectives of this research are, to determine the optimum curing time and the best formulation of ink, and to obtain the approximate color matching formulation of ink. Sample of ink are prepared by determine the best formulation by using Pigment Dispersion System. There are three characterization measurements conducted for Red and Blue inks, which are viscosity measurement, color proof and light fast. Whereas, there are only two characterization measurements for Purple ink, which are viscosity measurement and color proof. From observation made during the research, the red pigment is more hydrophilic, whereas, blue pigment is hydrophobic. For color matching, the formulation using two different color essences is difficult to achieve because of separation of pigment and due to hydrophobic property of the pigment. Therefore, single pigment formulation is more preferable for color matching