

**THERMAL BEHAVIOUR OF COPPER OXIDE AND
TITANIUM DIOXIDE PRECURSORS**

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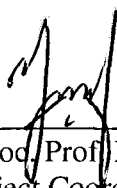
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This Final Year Project Report entitled “**Thermal behaviour of Copper Oxide and Titanium Dioxide precursors**” was submitted by Nordiana Binti Hashim, in partial fulfillment of requirements for Degree of Bachelor of Science (Hons.) Physics, in the Faculty of Applied Science, and was approved by



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ABSTRACT

THERMAL BEHAVIOUR OF TITANIUM DIOXIDE AND COPPER OXIDE PRECURSORS

Titanium dioxide and copper oxide were prepared via the sol-gel method. Initially, the starting materials were weighed out grinded in a mortar. Then, the materials were dissolved in the ethanol by using magnetic stirrers. Once the materials were dissolved, gelling agents were added to produce a thick gel of pH between 5 and 6. The gel was slowly dried until all the solvent had evaporated and the temperatures were increased until precursor materials were obtained. The precursor materials were subjected to thermal studies. The thermal behaviours of the samples were characterized using a simultaneous TG-DSC instrument.

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