

**FABRICATION AND CHARACTERIZATION OF POLYANILINE  
/POLYVINYL ALCOHOL CONDUCTING BLEND FILMS**

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**Final Year Project Report Submitted in  
Partial Fulfilment of the Requirements for the  
Degree of Bachelor of Science (Hons.) Chemistry  
in the Faculty of Applied Sciences  
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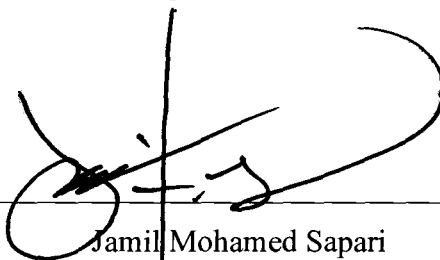
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This Final Year Project Report entitled “**Fabrication and Characterization of Polyaniline/Polyvinyl Alcohol Conducting Blend Films**” was submitted by Sakhawi Muhsin Bin Samsukamar, in partial fulfilment of the requirements for the Degree of Bachelor of Science (Hons.) Chemistry, in the Faculty of Applied Sciences, and was approved by



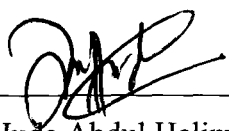
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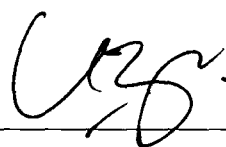
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## **ABSTRACT**

### **FABRICATION AND CHARACTERIZATION OF POLYANILINE/POLYVINYL ALCOHOL CONDUCTING BLEND FILMS**

Conducting blend films of polyaniline (PANI)/polyvinyl alcohol (PVA) formed by ex-situ chemical oxidative polymerization reaction with used of hydrochloric acid (HCl) as a dopant, sorbitan monolaurate (Tween 20) as surfactant and potassium persulfate (KPS) as oxidation agent. PANI shown good dispersion in PVA polymeric matrix and less precipitation were found. Films do not conduct electricity due to PANI exist in form of emeraldine base and prove with no absorbance peak that found in UV-Vis spectroscopy analysis due to random error that be done in methodology.