

UNDERGRADUATE THESIS

**SYNTHESIS OF $\text{Fe}_3\text{O}_4/\text{SiO}_2/\text{TiO}_2$ NANOCOMPOSITE
AS PHOTOCATALYST IN CO_2 INDIRECT REDUCTION
TO PRODUCE METHANOL FUEL**

***SINTESIS NANOKOMPOSIT $\text{Fe}_3\text{O}_4/\text{SiO}_2/\text{TiO}_2$
SEBAGAI FOTOKATALIS DALAM REDUKSI TIDAK LANGSUNG CO_2
UNTUK MEMPRODUKSI BAHAN BAKAR METANOL***



Yudha Ramanda
13/349644/PA/15330

**UNDERGRADUATE PROGRAM OF CHEMISTRY
DEPARTMENT OF CHEMISTRY
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
UNIVERSITAS GADJAH MADA
YOGYAKARTA**

2017

UNDERGRADUATE THESIS

SYNTHESIS OF $\text{Fe}_3\text{O}_4/\text{SiO}_2/\text{TiO}_2$ NANOCOMPOSITE AS PHOTOCATALYST IN CO_2 INDIRECT REDUCTION TO PRODUCE METHANOL FUEL

SINTESIS NANOKOMPOSIT $\text{Fe}_3\text{O}_4/\text{SiO}_2/\text{TiO}_2$ SEBAGAI FOTOKATALIS DALAM REDUKSI TIDAK LANGSUNG CO_2 UNTUK MEMPRODUKSI BAHAN BAKAR METANOL

Submitted to fulfill one of the requirements to obtain the degree
Bachelor of Science in Chemistry



Yudha Ramanda
13/349644/PA/15330

**CHEMISTRY
DEPARTMENT OF CHEMISTRY
FACULTY OF MATHEMATICS AND NATURAL SCIENCES
UNIVERSITAS GADJAH MADA
YOGYAKARTA**

2017