

# **“SYNTHESIS AND CHARACTERIZATION OF CARBON QUANTUM DOTS (CQDs)”**

**PROJECT REPORT**

**SUBMITTED TO**

**UNIVERSITY OF CALICUT**

**IN PARTIAL FULFILLMENT FOR THE DEGREE OF**

**MASTER OF SCIENCE IN CHEMISTRY**

**BY**

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**MAHATMA GANDI UNIVERSITY**

**KOTTAYAM**

**“HIGHLY SELECTIVE AND SENSITIVE DETECTION OF  
LEVOFLOXACIN USING BIOMASS DERIVED CARBON QUANTUM  
DOTS”**

**PROJECT REPORT**

**SUBMITTED TO**

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**MASTER OF SCIENCE IN CHEMISTRY**

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**“MOLECULAR DOCKING STUDIES OF SOME NATURALLY  
OCCURRING FLAVONOIDS AGAINST SARS COV-2 RECEPTORS”**

**PROJECT REPORT**

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**Corey-Chaykovsky Cyclopropanation of Aminostyrene and  
their Visible-Light-Promoted Ring-Opening Reaction  
Through Photoredox Catalysis**

**Research Project Report**

**Submitted to Calicut University**

**In partial fulfillment of the requirements**

**For the degree of**

**MASTER OF SCIENCE IN CHEMISTRY**

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**May – 2022**

# **GREEN SYNTHESIZED CARBON QUANTUM DOT FOR SELECTIVE SENSING OF Cr(VI)**

PROJECT REPORT

SUBMITTED TO

**UNIVERSITY OF CALICUT**

IN PARTIAL FULFILLMENT FOR THE DEGREE OF

MASTER OF SCIENCE IN CHEMISTRY

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**MAHATMA GANDI UNIVERSITY**

**Corey-Chaykovsky Cyclopropanation of Anthraquinones  
and their Visible-Light-Induced Photoredox Catalysed Ring-  
Opening Reactions**

**Research Project Report**

submitted to university of calicut

In partial fulfillment of the requirements

For the degree of

**MASTER OF SCIENCE IN CHEMISTRY**

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**May 2022**

**“SYNTHESIS OF ZIF-8 DERIVED ZnO@ g-CN COMPOSITE FOR  
THE THERMAL DECOMPOSITION STUDIES OF AMMONIUM  
PERCHLORATE”**

**PROJECT REPORT**

**SUBMITTED TO**

**UNIVERSITY OF CALICUT**

**IN PARTIAL FULFILLMENT FOR THE DEGREE OF**

**MASTER OF SCIENCE IN CHEMISTRY**

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**MAHATMA GANDHI UNIVERSITY**

**KOTTAYAM**

**Corey-Chaykovsky Cyclopropanation of Isatin Derivatives and Their  
Visible-Light-Mediated Ring Opening Reactions Through Photoredox  
Catalysis**

PROJECT REPORT

SUBMITTED TO

**UNIVERSITY OF CALICUT**

IN PARTIAL FULFILLMENT FOR THE DEGREE OF

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**COREY-CHAYKOVSKY CYCLOPROPANATION OF INDOLE  
DERIVATIVES AND THEIR VISIBLE-LIGHT-INDUCED PHOTOREDOX  
CATALYSED RING-OPENING REACTIONS**

PROJECT REPORT

SUBMITTED TO

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IN PARTIAL FULFILLMENT FOR THE DEGREE OF

MASTER OF SCIENCE IN CHEMISTRY

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