

A DISSERTATION REPORT
ON
"SYNTHESIS OF PLATINUM NANOPARTICLES,
THEIR POTENTIAL ANTIMICROBIAL & BIOMEDICAL
APPLICATIONS"



SUBMITTED BY: PRANATI PRADHAN
ROLL NO: 20PCHE 01
PG 2nd YEAR
FOR THE DEGREE OF
MASTER OF SCIENCE IN CHEMISTRY
GOVT. AUTONOMOUS COLLEGE, ROURKELA

**A DISSERTATION REPORT
ON
NANO-FERTILIZERS FOR PRECISION AND SUSTAINABLE
AGRICULTURE
SUBMITTED BY
SAILAXMI BEHERA
PG 2ND YEAR
FOR THE DEGREE OF
MASTER OF SCIENCE IN CHEMISTRY**



GOVT. AUTONOMOUS COLLEGE, ROURKELA

"GOLD CATALYSIS"

A Dissertation

Submitted In Partial Fulfillment Of The Requirements For the Award
Of the Degree

Mater of science

In

CHEMISTRY

BY

SURYAKANTA PATRA

ROLLNO:20PCHE03

2020-2022

**Under the guidance and supervision
Of
Dr. Sasmita Samal and Dr. sonia sharma**



Department of chemistry

Govt. Autonomous College, Rourkela-769004, Odisha

"ORGEL DIAGRAMS OF 3D SERIES METAL IONS"

A Dissertation

submitted In Partial Fulfilment of The Requirements For the

Award of the Degree

Mater of science

In

CHEMISTRY

BY

SIDDHESH PURI

ROLLNO:20PCHE04

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Department of chemistry

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“Biodegradable Polymer”

A Dissertation

Submitted In Partial Fulfillment of The Requirements for the
Award of the Degree

Master of Science

In

CHEMISTRY

BY

SNEHA SMITA SURIN

Roll No. 20PCHE05

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Department of Chemistry

Government Autonomous College, Rourkela-769004

Odisha

“TRANSITION METAL-MEDIATED CYCLOADDITION REACTIONS”

A Dissertation

Submitted In Partial Fulfillment Of The Requirements For the Award
Of the Degree

Mater of science

In

CHEMISTRY

BY

SANDEEP KU. PATEL

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2020-2022

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Department of chemistry

Govt. Autonomous College, Rourkela-769004, Odisha

A
REVIEW WORK
ON
Aspects of Vitamin D

Prevalence of deficiency and impact on
musculoskeletal parameters

A Review

Submitted in Partial fulfillment of the Requirements for the

Award of the Degree
Master of Science
In
Chemistry
By
Srikanta Kusulia
(20PCHE07)
Under Supervision of
Dr.Sasmita Samal(HOD)



A REVIEW WORK ON THE COORDINATION CHEMISTRY

A Review work

Submitted in partial fulfillment of the requirements for the award of
the

MASTER OF SCIENCE

In

CHEMISTRY

By

PAYAL AGARWAL

Roll No: 20PCHE08

Under the supervision of

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Department of Chemistry

Govt. Autonomous College, Rourkela-769004, Odisha

A
DISSERTATION REPORT
ON
“HYDROPHOBIC EFFECT”

SUBMITTED BY
JOYESH MARY MINZ
ROLL NO: - 20PCHE09
PG 2nd YEAR (4th SEMESTER)



UNDER THE GUIDANCE AND SUPERVISION OF
DR. SASMITA SAMAL
(H.O.D., DEPARTMENT OF CHEMISTRY)
DR. SONIA SHARMA
FOR THE DEGREE OF MASTER'S IN CHEMISTRY
GOVERNMENT AUTONOMOUS COLLEGE, ROURKELA

**“SYNTHESIS AND BIOLOGICAL ACTIVITIES OF SCHIFF
BASE COMPLEXES OF COPPER”**

A Dissertation

Submitted In Partial Fulfillment Of The Requirements For the Award
Of the Degree

Mater of science

In

CHEMISTRY

BY

MANOJ PRUSETH

ROLLNO:20PCHE10

2020-2022

Under the guidance and supervision
Of

Dr. Sasmita Samal and Dr. sonia sharma



Department of chemistry

Govt. Autonomous College, Rourkela-769004, Odisha

A DISSERTATION REPORT
ON BIOCHEMISTRY
SUBMITTED BY
DEBAJANI NATH
PG 2ND YEAR
FOR THE DEGREE OF
MASTER OF SCIENCE IN CHEMISTRY



GOVT.AUTONOMOUS COLLEGE, ROURKELA

GOVERNMENT AUTONOMOUS COLLEGE

ROURKELA

A

DISSERTATION REPORT

ON

“NANOTECHNOLOGY AND IT'S APPLICATION”

SUBMITTED BY

SUMIRANI BEHERA

ROLL NO: - 20PCHE12

PG 2nd YEAR (4th SEMESTER)



UNDER THE GUIDANCE AND SUPERVISION OF

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DR. SONIA SHARMA

FOR THE DEGREE OF MASTER OF DEGREE IN CHEMISTRY

A
REVIEW WORK
ON
TOXICOLOGICAL PROFILE FOR BARIUM AND BARIUM
COMPOUNDS

A Review work

*Submitted in Partial fulfillment of the Requirements for the
Award of the Degree*

Master of Science In Chemistry

By

DEBASHIS DASH

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Dr.Sasmita Samal (HOD)



A DISSERTATION REPORT
ON
"THE EFFECT OF ZINC OXIDE AND SILVER NANOPARTICLES
IN BIOLOGICAL SYSTEM"

SUBMITTED BY
KHITISWARI KISHAN
PG 2ND YEAR
FOR THE DEGREE OF
MASTER OF SCIENCE IN CHEMISTRY



GOVT. AUTONOMOUS COLLEGE, ROURKELA

**“DEVLOPMENT OF ANION EXCHANGE
MEMBRANE FOR FUEL CELL AND ZINC EXCHANGE
REDOX FLOW BATTERIES”**

A Dissertation

Submmitted In Partial Fulfillment Of The Requirements For the Award
Of the Degree

Mater of science

In

CHEMISTRY

BY

CHANDAN CHHURIA

ROLLNO:20PCHE15

2020-2022

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Of
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Department of chemist
Govt. Autonomous College,Rourkela-769004, Odisha

A
REVIEW WORK
ON
STUDY OF AMBIENT AIR QUALITY IN KOELNAGAR AREA

A Review work

Submitted in Partial fulfillment of the Requirements for the

Award of the Degree

Master of Science In Chemistry

By

RAJESH KUMAR MAJHI

(20PCHE16)

Under Supervision of

Dr.Sasmita Samal (HOD)



A DISSERTATION REPORT
ON
"CARBOHYDRATES
AND
IT'S CLASSIFICATION"



SUBMITTED BY: ANKITA SATAPATHY
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FOR THE DEGREE OF
MASTER OF SCIENCE IN CHEMISTRY

GOVT. AUTONOMOUS COLLEGE
ROURKELA

GOVT.AUTONOMOUS COLLEGE
ROURKELA



NAME -ROSHANDEEP SURIN
PG 2nd YEAR
ROLL NO-20PCHE18
DEPARMENT OF CHEMISTRY

A DISSERTATION REPORT
ON
“RAPID ESTIMATION OF T1 FOR QUANTITATIVE NMR”



SUBMITTED BY: ARCHANA NAYAK
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MASTER OF SCIENCE IN CHEMISTRY
GOVT. AUTONOMOUS COLLEGE, ROURKELA

**GOVT. AUTONOMOUS COLLEGE
ROURKELA**



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PG 2nd YEAR

ROLL NO- 20PCHE20

DEPARTMENT OF CHEMISTRY

A REVIEW WORK ON METAL IN MEDICINE

A Review work

Submitted in partial fulfillment of the Requirements for the Award of the Degree

Master of Science

In

CHEMISTRY

By

BINDUSHREE SAHU

Roll No : 20PCHE21

2021-22

Under the supervision

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DEPARTMENT OF CHEMISTRY

Govt. Autonomous College, Rourkela- 769004, Odisha

A REVIEW WORK ON CHEMICAL BONDING

A Review Work

*Submitted in Partial fulfillment of the Requirement for
the Award of the degree*

MASTER OF SCIENCE

In

CHEMISTRY

By

MADHUSMITA BARICK

Roll. No: 20PCHE22

2020-2022

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GOVERNMENT AUTONOMOUS COLLEGE

ROURKELA

A

DISSERTATION REPORT

ON

**"DEVELOPMENT OF NANOMATERIAL SUPPORTS FOR THE STUDY OF
AFFINITY-BASED ANALYTES USING ULTRA-THIN LAYER
CHROMATOGRAPHY"**

SUBMITTED BY: -

LEENA BARIK

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DR. SONIA SHARMA

FOR THE DEGREE OF

MASTER OF SCIENCE IN CHEMISTRY

**“PHASE TRANSFER CATALYSIS INVOLVING
QUATERNARY AMMONIUM SALTS: SYNTHESIS AND
APPLICATIONS”**

A Dissertation

Submitted In Partial Fulfillment Of The Requirements For the
Award Of the Degree

Master of science

In

CHEMISTRY

BY

ASIM KUMAR PATEL

ROLLNO:20PCHE25

2020-2022

**Under the guidance and supervision
Of**

Dr. Sasmita Samal and Dr. Sonia Sharma



Department of chemistry

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“Synthesis and Medicinal use of Morphine and Nicotine “

A Dissertation

**Submitted In Partial Fulfillment of The Requirements For
the Award of the Degree**

Mater of science

In

CHEMISTRY

BY

SABNAM TOPO

ROLLNO:20PCHE27

PG 2ND YEAR (4TH SEMESTER)

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Department of chemistry

Govt. Autonomous College,Rourkela-769004, Odisha

Stability of Coordination complexes and its reaction mechanism

A Dissertation

Submitted In Partial Fulfillment of The Requirements For

the Award of the Degree

Mater of science

In

CHEMISTRY

BY

MANISHA SINGH

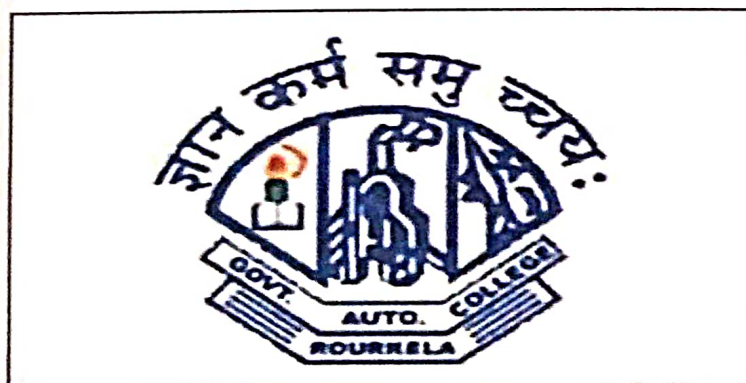
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2020-2022

Under the guidance and supervision

Of

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Govt. Autonomous College, Rourkela-769004, Odisha

A

REVIEW WORK

ON

GREEN CHEMISTRY

of Review work

Submitted in Partial fulfillment of the Requirements for the

Award of the Degree

Master of Science

In

Chemistry

By

Rajat Kumar Pattashani

(20PCHE29)

Under Supervision of

Dr. Sasmita Samal (HOD)



A
REVIEW WORK
ON
MEDICINAL CHEMISTRY

A Review work

Submitted in Partial fulfillment of the Requirements for the

Award of the Degree

Master of Science

In

Chemistry

By

Swaroop Pati

(20PCHE30)

Under Supervision of

Dr.Sasmita Samal(HOD)



“GRAPHENE”

A Dissertation

Submitted In Partial Fulfillment Of The Requirements For the Award

Of the Degree

Mater of science

In

CHEMISTRY

BY

TOSHARIKA KALO

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2020-2022

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Department of chemistry

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“FATTY ACIDS PROFILE OF EDIBLE OILS AND FATS IN INDIA”

A Dissertation

*Submitted in partial fulfilment of the requirements for the
award of the degree*

Master of science

In

CHEMISTRY

By

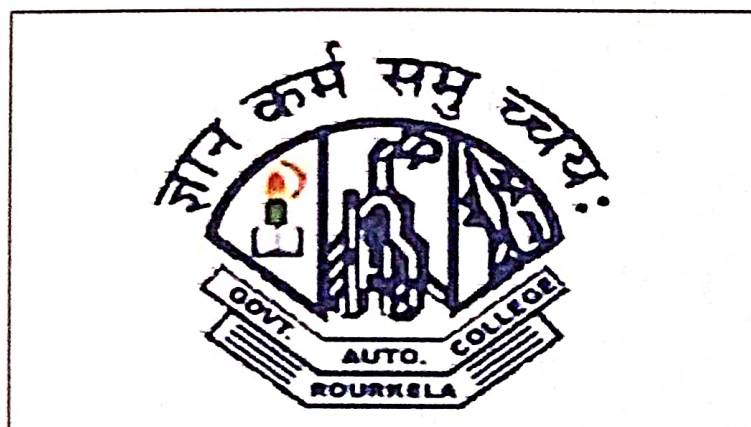
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