

Semester VIII

Course code	Name of the course	No. of hours	Tutorial	Credit points
THEORY				
PT 817	Biostatistics and Research Methodology	3	1	4
PT818	Social and Preventive Pharmacy	3	1	4
PT810A	Pharma Marketing Management(Elective)*	3×2=6	1×2=2	4×2=8
PT810B	Computer Aided Drug Design(Elective)*			
PT810C	Advanced Instrumentation Techniques(Elective)*			
PT810D	Life Science Skill Development *			
SESSIONAL				
PT 883	Project Work	12	-	6
Total		24	4	22

* A student has to opt any two(2) electives

Table-IX: Semester wise credits distribution

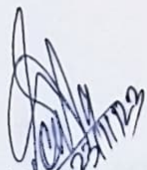
Semester	Credit Points
I	27
II	25
III	29
IV	31
V	26
VI	30
VII	24
VIII	22
Extracurricular/ Co curricular activities	01*
Total credit points for the program	215

- * The credit points assigned for extracurricular and or co-curricular activities shall be given by the Principals of the colleges and the same shall be submitted to the University. The criteria to acquire this credit point shall be defined by the colleges from time to time.
- * This (Extracurricular/ Co curricular activities) credit point will be awarded to the student who will qualify the MAR(Mandatory Additional Requirement).
- * To obtain B.Pharm degree with honours minimum of additional 8 credits has to be earned in minimum three subjects from MOOCs Platform as recognized by MAKAUT, WB.

Note: For Lateral Entry Students

- * Lateral Entry students will carry 52credits from D.Pharm as per norms of PCI.




 Prof. (Dr.) Samir Kumar Samanta
 M. Pharm., Ph.D (J.U.)
 Principal
 Dr. B. C. Roy College of Pharmacy & AHS
 Durgapur, West Bengal-713206

NOTES:

1. Academic (Program) Committee

The B. Pharm. program shall have an Academic (Program) Committee constituted by the Head of the institution.

2. Project work

All the students shall undertake a project under the supervision of a teacher and submit a report. The area of the project shall be decided by the supervisor in consultation with the student. The project may be carried out in group not exceeding 3 in number.

The internal and external examiner appointed by the University shall evaluate the project at the time of the Practical examinations of other semester(s).

3. Industrial training (Desirable)


Every candidate shall be required to work for at least 150 hours spread over four weeks in a Pharmaceutical Industry/Hospital. It includes Production unit, Quality Control department, Quality Assurance department, Analytical laboratory, Chemical manufacturing unit, Pharmaceutical R&D, Hospital (Clinical Pharmacy), Clinical Research Organization, Community Pharmacy, etc. After the Semester – VI and before the commencement of Semester – VII, and shall submit satisfactory report of such work and certificate duly signed by the authority of training organization to the head of the institute.

4. Practice School

In the VII semester, every candidate shall undergo practice school for a period of 150 hours evenly distributed throughout the semester. The student shall opt any one of the domains for practice school declared by the academic (program) committee from time to time.

At the end of the practice school, every student shall submit a printed report (in triplicate) on the practice school he/she attended (not more than 25 pages). Along with the exams of semester VII, the report submitted by the student. The knowledge and skills acquired by the student through practice school shall be evaluated by the subject experts at college level and grade point shall be awarded.




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY
WEST BENGAL



A

Project Report on

**2D-QSAR ANALYSIS ON C-ARYL GLYCOSIDE
DERIVATIVES AS SGLT2 INHIBITORS USING
OPEN-SOURCE SOFTWARE TOOLS**

Submitted by

PRIYA RAY

University Regn. No. -181890210053

Roll No. -18901918068

Under the guidance of

Dr. Amit Kumar Halder

Associate Professor

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022- 2023



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (U.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "2D-QSAR ANALYSIS ON C-ARYL GLYCOSIDE DERIVATIVES AS SGLT2 INHIBITORS USING OPEN-SOURCE SOFTWARE TOOLS" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **DR. AMIT KUMAR HALDER**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Priya Ray
Signature


Name of Candidate: PRIYA RAY

Roll No: 18901918068

Date: 15.05.2023

Place: DURGAPUR




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "2D-QSAR ANALYSIS ON C-ARYL GLYCOSIDE DERIVATIVES AS SGLT2 INHIBITORS USING OPEN-SOURCE SOFTWARE TOOLS" by Priya Ray in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Amit Kumar Halder 15/5/23

Signature of Supervisor

Name of Supervisor: Dr. Amit Kumar Halder

Date: 15.05.23

Place: Durgapur

Prof. (Dr.) Samir Kr. Samanta
(PRINCIPAL)

Date:

Place:

Signature



18/05/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

**Lab Scale Development of The Formulation Of
Shigella dysenteriae Vaccine**

NAME OF THE STUDENT

Debojyoti Sarkar

University Regn. No. – 181890210024

Roll No. - 18901918097

Under the guidance of
Dr. Subrata Chakrabarty
(Director)


In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to Prof. Sobhan Bose (Exam Cell)
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Sarmanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "**Lab Scale Development of The Formulation Of *Shigella dysenteriae* Vaccine**" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Name of the Guide**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.


Signature

Name of Candidate: Debojyoti Sarkar

Roll No. : 189019198097

Date: 15th May, 2023

Place: Durgapur





Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (U.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Lab Scale Development of The Formulation Of *Shigella dysenteriae* Vaccine" by Debojyoti Sarkar in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Debojyoti Sarkar 15/5/2023

Signature of Supervisor

Name of Supervisor: Dr. Subrata Chakrabarty

Date: 15th May, 2023.

Place: Durgapur

Prof. (Dr.) Samir Kr. Samanta
(PRINCIPAL)

Date:

Place:

Signature

Samir Kr. Samanta
18/5/23



Samir Kr. Samanta
18/5/23
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

External Examiner



A
Project Report on

Immobilization of plastic degrading microorganism on polymeric nanoparticle for efficient plastic degradation

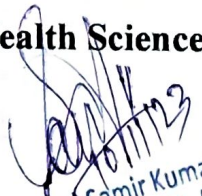
Submitted by
ANIRBAN GHOSH

University Regn. No. – 011778
Roll No. -18901919001

Under the guidance of
MR. SANJOY KONAR
Assistant Professor
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal
Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206
Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled “**Immobilization of plastic degrading microorganism on polymeric nanoparticle for efficient plastic degradation**” in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Sir Sanjoy Konar**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Anirban Ghosh
Signature


Name of Candidate: ANIRBAN GHOSH

Roll No: 18901919001

Date: 15.05.23

Place: Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Immobilization of plastic degrading microorganism on polymeric nanoparticle for efficient plastic degradation" by Anirban Ghosh in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.


15/05/2023

Signature of Supervisor

Name of Supervisor:

Date: 15.05.23

Place: Durgapur



PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date: 15.05.23

Place: Durgapur



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206




15/05/23

Signature





A

Project Report on
**IMPROVEMENT OF SOLUBILITY AND
DISSOLUTION OF ACECLOFENAC BY SOLID
DISPERSION TECHNIQUE**

Submitted by

SOHAM DUTTA

University Regn. No. -031289 of 2019-20

Roll No. -18901919002

Under the supervision of

Ms. Manami Dhibar

M. Pharm.

Assistant Professor

Department of Pharmaceutics

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy


Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled “**Improvement of Solubility and Dissolution of Aceclofenac by Solid Dispersion Technique**” in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of **(Ms) Manami Dhibar**, Assistant Professor, Pharmaceutics, Dr. B. C. Roy College of Pharmacy & AHS, Durgapur, West Bengal.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Soham Dutta

Signature

Name of Candidate: Soham Dutta

Roll No: 18901919002




[Handwritten Signature]
10/11/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Improvement of Solubility and Dissolution of Aceclofenac by Solid Dispersion Technique" by Soham Dutta in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.


15/05/2023

Signature of Guide

(Ms) Manami Dhibar


M.Pharm

Assistant Professor, Pharmaceutics

Dr. B. C. Roy College of Pharmacy & AHS.

Date: 15.05.2023

Place: Durgapur


Prof. (Dr.) Samir Kumar Samanta

Principal

Dr. B. C. Roy College of Pharmacy & AHS.

Date: 15.05.2023

Place: Durgapur


Signature

(External)

Date: 15.05.2023

Place: Durgapur




15/05/23
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS



A
Project Reporton

PACEMAKER

Submitted by

DEBAM RAY

University Regn. No. – 039775

Roll No. –18901919003

Under the guidance of
DR. SHYAMSHREE S SMANNA


In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
**MaulanaAbulKalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (U.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled “Pacemaker” in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Dr. Shyamshree S S Manna**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

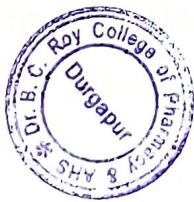
Debam Ray.
Signature


Name of Candidate: DEBAM RAY

Roll No: 18901919003

Date: 15.05.23

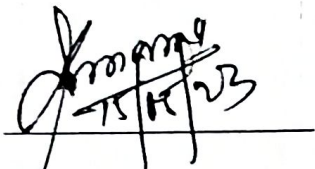
Place: Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE


This is to certify that the project entitled "Pacemaker" by Debam Ray in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under my supervision and up to my satisfaction. To my knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.


Signature of Supervisor

Prof. (Dr) SHYAMSHREE S S MANNA

Date: 15.05.23



Place: Durgapur


PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date:

Place: Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 742005

18/5/2023



A
Project Report on

**IN-VITRO EVALUATION OF CERTAIN
REPURPOSED AND SYNTHETIC
HETEROCYCLIC COMPOUNDS AGAINST
PROTEIN FIBRILLATION**

Submitted by

SUCHETA KARMAKAR

University Regn. No.- 039608

Roll No.- 18901919004

Under the guidance of

Dr. Souvik Basak

Associate Professor and Divisional In-charge (Pharmaceutical
Chemistry), BCRCP

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy


Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022-2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "*In-vitro* evaluation of certain repurposed and synthetic heterocyclic compounds against protein fibrillation" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Souvik Basak.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Sucheta Karmakar

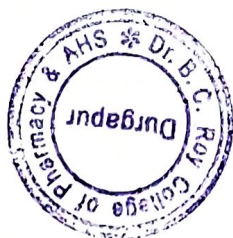
Signature


Name of Candidate: Sucheta Karmakar

Roll No: 18901919004

Date: 15.05.2023

Place: Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 713206

CERTIFICATE

This is to certify that the Project entitled "*In-vitro* evaluation of certain repurposed and synthetic heterocyclic compounds against protein fibrillation" by Sucheta Karmakar in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Souvik Basak

Signature of Supervisor

Name of Supervisor: Dr. Souvik Basak

Date: 15.05.2023

Place: Durgapur

[Signature]

PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date:

Place:

Signature



[Signature]
28/05/23
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 726106



A
Project Report on

DIGITAL PHARMACEUTICAL MARKETING

Submitted by

ANITA KUMBHAKAR

NAME OF THE STUDENT-ANITA KUMBHAKAR

University Regn. No. – 039618 of 2019-20

Roll No. -18901919005

Under the guidance of
MRS TANUSREE ROY
ASSISTANT PROFESSOR


In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
**Maulana Abul Kalam Azad University of Technology West
Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022– 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled "DIGITAL PHARMACEUTICAL MARKETING" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of MRS TANUSREE ROY.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Anita Kumbhakar .

Signature

Name of Candidate: ANITA KUMBHAKAR

Roll No: 18901919005

Date: 15.05.2023

Place: Durgapur



A handwritten signature in blue ink, appearing to be "Prof. (Dr.) Samir Kumar Samanta", with the date "15/05/23" written below it.

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "DIGITAL PHARMACEUTICAL MARKETING" by ANITA KUMBHAKAR in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

15/05/23

Signature of Supervisor

MRS TANUSREE ROY

Assistant Professor

Dr. B. C. Roy College of Pharmacy & AHS.

Date: 15.05.2023

Place: Durgapur

15/5/23

PROF (DR.) SAMIR KR. SAMANTA

Principal

Dr. B. C. Roy College of Pharmacy & AHS

Date: 15.05.2023

Place: Durgapur

15/5/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
West Bengal-713206

15/5/23
Dr. C. M. Hossain

Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741249

Signature

(External)

Date: 15.05.2023

Place: Durgapur





A

Project Report on

**IMPROVEMENT OF SOLUBILITY AND
DISSOLUTION OF ACECLOFENAC BY SOLID
DISPERSION TECHNIQUE**

Submitted by

ARNAB PAL

University Regn. No. -039596 of 2019-20

Roll No. -18901919006

Under the supervision of

Prof. (Dr.) Santanu Chakraborty
M. Pharm., Ph.D., FIC
Divisional In-charge, Pharmaceutics

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy


Submitted to

Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2022 - 2023




Prof. (Dr.) Sahar Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled “Improvement of Solubility and Dissolution of Aceclofenac by Solid Dispersion Technique” in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Prof. (Dr.) Santanu Chakraborty, Professor and Divisional In-charge, Pharmaceutics, Dr. B. C. Roy College of Pharmacy & AHS, Durgapur, West Bengal.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Signature Arnab Pal

Name of Candidate: Arnab Pal

Roll No: 18901919006



A handwritten signature in blue ink, likely belonging to Prof. (Dr.) Samir Kumar Samanta.

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Improvement of Solubility and Dissolution of Aceclofenac by Solid Dispersion Technique" by Subhankar Pal in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

S. Chakraborty 15/05/23
Signature of Guide

Prof. (Dr.) Santanu Chakraborty

M.Pharm, Ph.D, FIC
Divisional In-charge, Pharmaceutics
Dr. B. C. Roy College of Pharmacy & AHS
DIC, Pharmaceutics Division
Date: Dr. B. C. Roy College of Pharmacy and AHS
Place: Bidhannagar, Durgapur-713206

Prof. (Dr.) Samir Kumar Samanta

Principal

Dr. B. C. Roy College of Pharmacy & AHS.

Date:

Place:

Signature
(External)

Date:

Place:



Signature
10/11/23

Signature
18/05/23
Circular stamp of Dr. B. C. Roy College of Pharmacy & AHS, Durgapur.
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Reporton

Synthesis and Characterization of Low-Methoxyl- Pectin Tamarind Gum Based Composite Films

Submitted by

PRODIPTO DAS

University Regn. No. – 039540 of 2019-20

Roll No. -18901919007

Under the guidance of

Dr. Hridoy Bera

Associate Professor

Dr. B. C. Roy College of Pharmacy & AHS

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Synthesis and Characterization of Low-Methoxyl-Pectin Tamarind Gum Based Composite Films" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Hridoy Bera.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.



(Signature)


Name of Candidate: **PRODIPTO DAS**

University Roll No: **18901919007**

Date: 15/05/2023

Place: Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Synthesis and Characterization of Low-Methoxyl-Pectin Tamarind Gum Based Composite Films" by Prodipto Das in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Supervisor

Name of Supervisor: *Dr. Hriday Bera*

Date: *17/5/2023*

Place: *Durgapur*

Prof. (Dr.) Samir Kr. Samanta

(PRINCIPAL)

Date: *17/05/2023*

Place: *Durgapur*

Signature



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.T)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

TRANSDERMAL DRUG DELIVERY SYSTEM: A REVIEW

Submitted by

Nikita Dutta

University Reg. No.- 038594 OF 2019-20

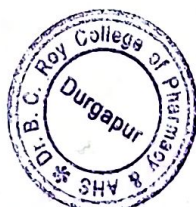
Roll No. - 18901919008

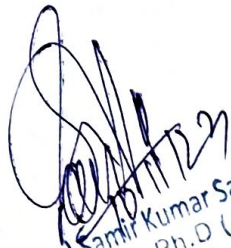
Under the guidance of
MS. SURITA GHOSH
ASSISTANT PROFESSOR
Department of Pharmaceutics

In partial fulfillment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal
Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2022-2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled "TRANSDERMAL DRUG DELIVERY SYSTEM: A REVIEW" in partial fulfillment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of MS. SURITA GHOSH.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Signature

Name of Candidate: NIKITA DUTTA

Roll No: 18901919008

Date: 15/05/2023

Place: Durgapur.



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

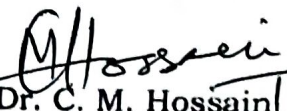

CERTIFICATE

This is to certify that the Project entitled "TRANSDERMAL DRUG DELIVERY SYSTEM: A REVIEW" by NIKITA DUTTA in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.


Signature of Supervisor
Name of Supervisor: MS. SURITA GHOSH
Date:
Place:

PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)
Date:
Place:

Signature



Dr. C. M. Hossain 9/5/23
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741249




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on
“GENE THERAPY FOR OBESITY”

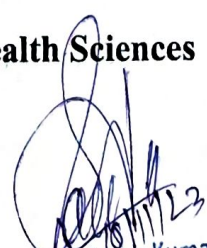
Submitted by
SWARAJ NAYEK
University Regn. No. 038677 OF 2019-2023
University Roll No. - 18901919009

Under the guidance of
Miss. Sancharee Mondal
(Assistant Professor), Dr. B.C Roy College of Pharmacy & A.H.S
In partial fulfillment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal
Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled "GENE THERAPY FOR OBESITY" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Miss. Sancharee Mondal (Assistant Professor), Dr. B.C Roy College of Pharmacy & A.H.S.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Swaraj Nayek
Signature


Name of Candidate: Swaraj Nayek

Roll No: 18901919009

Date: 16/05/2023

Place: Durgapur - 713206




Prof. (Dr.) Samir Kumar Samanta
M.Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "GENE THERAPY FOR OBESITY" by Swaraj Nayek in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Signature of Guide *Sancharee Mondal* 16/5/23

Name of Guide: Miss. Sancharee Mondal (Assistant Professor), Dr. B.C Roy College of Pharmacy & A.H.S

Date:
Place:

Samir kr. Samanta
Prof. Dr. Samir kr. Samanta
(PRINCIPAL)

Date:
Place:

C. M. Hossain 18/5/23



Dr. C. M. Hossain
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly as West Bengal University of Technology)
Haringhata, Nadia-741249

Signature of External Examiner

Date:
Place:



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Dr. B.C. Roy College of Pharmacy & A.H.S
Durgamur, West Bengal - 713206



A

Project Report on

***“A Mini survey of Daily sales of Drug Formulation
in a local Pradhan Mantri Bhartiya Jan Aushadhi
Kendra at Durgapur”***

Submitted by

MEHEDI HASAN

University Regn. No. – 038504 of 2019-20

Roll No. - 18901919010

Under the guidance of

Dr. Subhabrata Ray

Professor-in-Charge

Dr. B. C. Roy College of Pharmacy & AHS

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy


Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "A Mini survey of Daily sales of Drug Formulation in a local Pradhan Mantri Bhartiya Jan Aushadhi Kendra at Durgapur" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of

Dr. Subhabrata Ray

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.



(Signature)

Name of Candidate: **Mehedi Hasan**

University Roll No: **18901919010**

Date: 16/05/2023

Place: Durgapur





Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "A Mini survey of Daily sales of Drug Formulation in a local Pradhan Mantri Bhartiya Jan Aushadhi Kendra at Durgapur" by Mehedi Hasan in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.


16/05/23

Signature of Supervisor

Name of Supervisor: SUBHARATA RAY

Date: 16-05-2023

Place: Durgapur

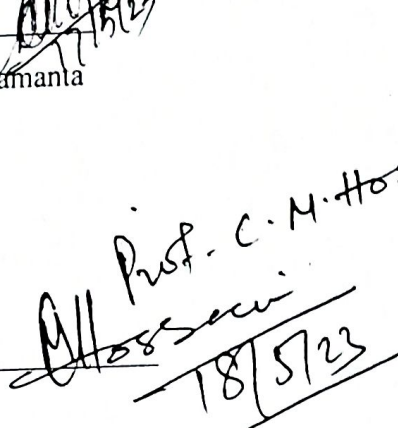
Prof. (Dr.) Samir Kr. Samanta

(PRINCIPAL)

Date:

Place:


Signature


18/5/23
Prof. C.M. Hosseini; MAHAT, DURGAPUR



External Examiner




Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206
Principal
M. Pharm., Ph.D. (J.U.)
Samir Kumar Samanta



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A

Project Report on

**Comparative In-Vitro
Evaluation Studies of
Marketed Brands and
Generic Ibuprofen Tablets**

Submitted by

Sudin Nayek

University Regn. No. – 038462

Roll No. –18901919011

Under the guidance of

Mr. Waizul Haque

Associate Professor

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

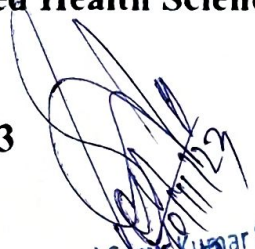
Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022–2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

We hereby declare that the Project entitled “**comparative in-vitro evaluation studies of marketed brands and generic Ibuprofen tablets**” in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bonafide work carried out by me under the guidance of

Mr. Waizul Haque.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Name of Candidate: *Sudin Nayek*

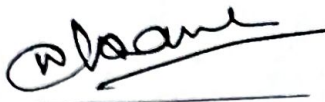
Date : *17.05.2023*



[Signature]
10/11/23
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled “comparative in-vitro evaluation studies of marketed brands and generic Ibuprofen tablets” by **Sudin Nayek** partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.




Signature of Supervisor

Name of Supervisor: MD. WAJIDUL HAQUE

Date: 17.05.2023

Place: Durgapur


PROF. (DR.) SAMIR KUMAR SAMANTA
(PRINCIPAL)

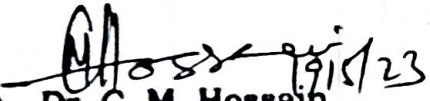
Date:

Place:

Signature






Dr. C. M. Hossain
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741249

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713205



A
Project Report on

**Phytochemical Screening and *In-vitro* Antioxidant
Evaluation of Different Extracts of Purified Roots of
*Plumbago zeylanica***

Submitted by

Debabrata Chattopadhyay

University Regn. No. - 031285

Roll No. - 18901919012

Under the guidance of
Dr. Yadu Nandan Dey
Associate Professor


In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2019 – 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Phytochemical screening and *in-vitro* antioxidant evaluation of different extracts of purified roots of *Plumbago zeylanica*" in partial fulfillment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Yadu Nandan Debp.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Debabrata Chattopadhyay

Signature

Name of Candidate: DEBABRATA CHATTOPADHYAY

Roll No: 18901919012

Date: 16/05/2023

Place: DURGAPUR



Samir Kumar Samanta

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (U.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Phytochemical Screening and Evaluation on in-vitro activity of Anti-Oxidant in different extracts of purified roots of *Plumbago zeylanica*" by DEBABRATA CHATTOPADHYAY in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The report is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Yadu Nandan Dey

Signature of Supervisor

Name of Supervisor: Dr. Yadu Nandan Dey

Date: 16-05-2023

Place: DURGAPUR

Prof. (Dr.) Samir Kr. Samanta

(PRINCIPAL)

Date:

Place: DURGAPUR

Signature

Name of the External Examiner

Date:



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (U.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



Prof. C. M. Hossain
18/5/23
MAKAUT



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Report on

A REVIEW ON NANOPARTICLES IN CANCER VACCINE

Submitted by

DIPEN RANA

University Regn. No. – 031265 of 2019-20

Roll No.- 18901919013

Under the guidance of
MS TANUSREE ROY
ASSISTANT PROFESSOR


**In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy**

Submitted to.....

**Maulana Abul Kalam Azad University of Technology
West Bengal
Dr.B.C.Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 – 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "A Review On Nanoparticles in Cancer Vaccine" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of MS TANUSREE ROY.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University/Institution.

Dipen Rana

Signature

Name of Candidate: DIPEN RANA

RollNo: 18901919013

Date:Place:


10/11/23



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "A Review On Nano-particles In Cancer Vaccine" by Dipen Rana in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and upto our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

15/05/23

Signature of Guide

Name of Guide:

Date:

Place:

15/5/23

PROF(DR.) SAMIR Kr. SAMANTA
(PRINCIPAL)

15/5/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



Signature

Name of External Examiner:

Date/Place:

19/5/23

Dr. C. M. Hossain



Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741249





MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Report on

**Comparative In-Vitro
Evaluation Studies of
Marketed Brands and
Generic Ibuprofen Tablets**

Submitted by

Suman Mondal

University Regn. No. – 031258

Roll No. –18901919014

Under the guidance of

Mr. Waizul Haque

Associate Professor

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

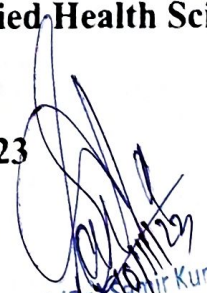
Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022– 2023




Prof. (Dr.) Sanjay Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

We hereby declare that the Project entitled “**comparative in-vitro evaluation studies of marketed brands and generic Ibuprofen tablets**” in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bonafide work carried out by me under the guidance of

Mr. Waizul Haque.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Name of Candidate: *Suman Mondal*

Date: *17.05.2023*




A handwritten signature in blue ink, appearing to read "Samir Kumar Samanta".

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713275

CERTIFICATE

This is to certify that the Project entitled “comparative in-vitro evaluation studies of marketed brands and generic Ibuprofen tablets” by **Suman Mondal** partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Supervisor

Name of Supervisor: MD. WAIZUL HAQUE

Date: 17.05.2023

Place:

Durgapur

PROF (DR.) SAMIR KUMAR SAMANTA
(PRINCIPAL)

Date:

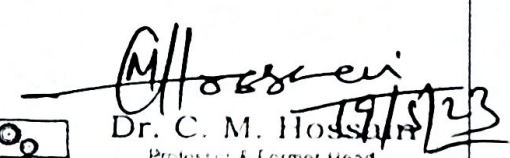
Place:

Signature





(Formerly Known as West Bengal University of Technology)
Harambada, Nadia-741249


Dr. C. M. Hossain
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
Harambada, Nadia-741249



A
Project Report on

**TRANSDERMAL INSULIN DRUG DELIVERY
EMPHASIZING ON MICRONEEDLE DELIVERY SYSTEM**

Submitted by

DEBARGHYA KARFORMA

University Regn. No. - 031161

Roll No. - 18901919015

Under the guidance of
Mr. Saroj Singhmura
Assistant Professor


In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 – 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Transdermal Insulin Delivery Emphasizing on Mechanical Force Triggered System" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of MR SAROJ SINGHMURA, Assistant Professor, Dr. B.C Roy College of Pharmacy & A.H.S.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Signature: Debarghya Karforma


Name of Candidate: Debarghya Karforma

University Roll No: 18901919015

Date: 15/05/22

Place: Durgapur




Prof. (Dr.) Samir Kumar Samanita
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Transdermal Insulin Delivery Emphasizing on Mechanical force triggered system" by Debarghya Karforma in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The report is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Signature of Supervisor

Name of Supervisor: MR SAROJ SINGHMURA

Date: 15/05/23

Place: Durgapur

Signature

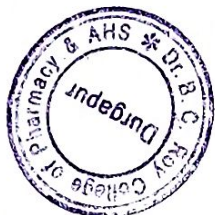
PROF (DR.) SAMIR KUMAR SAMANTA (PRINCIPAL)

Date:

Place:

Signature

Dr. C. M. Hossain 18/5/23
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741249



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



^
Project Report on

SYNTHESIS OF ANTIBACTERIAL COUMARINS

Submitted by
ARYADIPTO DASGUPTA

University Regn. No. -038406
Roll No. - 10901919016

Under the guidance of
Dr. Sudip Kumar Mandal
Designation: Assistant Professor

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Synthesis of Antibacterial Coumarins" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Sudip Kumar Mandal.

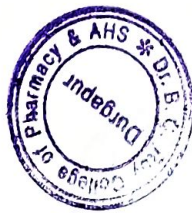
The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

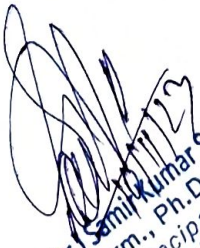
Aryadipto Dasgupta
Signature

Name of Candidate : ARYADIPTO DASGUPTA
Roll No: 18901919016

Date: 15/05/2023

Place: Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Synthesis of Antibacterial Coumarins" by Aryadipto Dasgupta in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

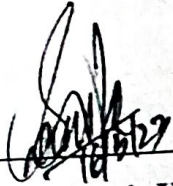


Signature of Supervisor

Name of Supervisor : Dr. Sudip Kumar Mandal

Date :

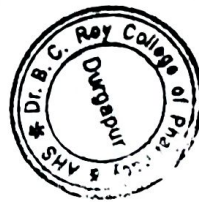
Place : Durgapur



Prof. Dr. Samir Kumar Samanta
(PRINCIPAL)

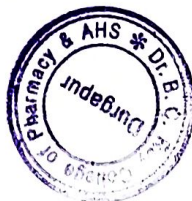
Date:

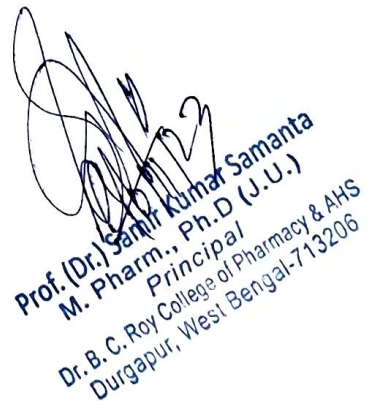
Place:



Signature






Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

CONNECTED DRUG DELIVERY



Submitted by

ABHISHIKTA SARKAR

University Regn. No. -037944 OF 2019-2020

Roll No. -18901919017

Under the guidance of

Dr. Subhabrata Ray

Professor -in-charge (PG Studies and Research)

In partial fulfillment of the Requirement for the Degree of
Bachelor of Pharmacy


Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022- 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Connected Drug Delivery" in partial fulfillment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal** is an authentic record of bona fide work carried out by me under the guidance of **Dr. Subhabrata Ray**

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Abhishikta Sarkar
Signature

Name of Candidate: Abhishikta Sarkar

Roll No: 18901919017

Date:

Place: DURGAPUR





Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Connected Drug Delivery" by Abhishikta Sarkar in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Supervisor

Name of Supervisor: SUBHABRATA RAY

Date: 15/05/2023

Place: Durgapur



PROF. (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place:

Signature


Prof. C. M. Hossain



18/5/23

External Examiner




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Durgapur College of Pharmacy & AHS
Durgapur, West Bengal-713206





A
Project Report on

SYNTHESIS OF ANTI CANCER COUMARIN DERIVATIVES

**Submitted by
ANKIT DAS**

*University Regn. No. -18901919018
Roll No. -1911005*

Under the guidance of
MR. ISMAIL MONDAL
Designation: Assistant Professor

In partial fulfillment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "SYNTHESIS OF ANTI CANCER COUMARIN DERIVATIVES" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of MR. ISMAIL MONDAL.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Ankit Das

Signature

Name of Candidate: ANKIT DAS

Roll no: 18901919018

Date: 15/05/2023

Place: DURGAPUR

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



CERTIFICATE

This is to certify that the Project entitled "SYNTHESIS OF ANTI CANCER COUMARIN DERIVATIVE" by ANKIT DAS in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

15/05/23

Signature of Supervisor

Name of Supervisor: MR. ISMAIL MOMDAL

Date:

Place: DURGAPUR

15/05/23
PROF (DR. SAMIR KUMAR SAMANTA)
(PRINCIPAL)

Date:

Place: DURGAPUR

Signature

Name of the External Examiner

Date-

Place - DURGAPUR

15/05/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206





A
Project Report on

SYNTHESIS OF ANTIBACTERIAL COUMARINS

Submitted by
ABDUR RAHAMAN

University Regn. No. -037889
Roll No. -10901919019

Under the guidance of
Dr. Sudip Kumar Mandal
Designation: Assistant Professor


In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Synthesis of Antibacterial Coumarins" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Dr. Sudip Kumar Mandal**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Abdur Rahaman
Signature

Name of Candidate: **ABDUR RAHAMAN**

Roll No: 18901919019

Date: 15/05/2023

Place: Durgapur

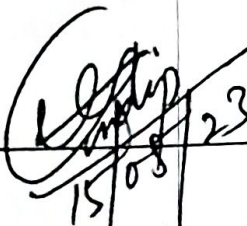




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Synthesis of Antibacterial Coumarins" by **Abdur Rahaman** in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



15/08/23

Signature of Supervisor

Name of Supervisor : **Dr. Sudip Kumar Mandal**

Date :

Place: **Durgapur**


16/08/23

Prof. Dr. Samir Kumar Samanta

(PRINCIPAL)

Date:

Place:


14/08/23

Signature




14/08/23





A
Project Report on

A REVIEW - ON ROLE OF EXTRACT OF CLITORIA TERNATEA ON CNS DISORDER

Submitted by

ANGANA CHAKRABORTY

University Regn. No. -037850

Roll No. - 18901919020

Under the guidance of

Mrs. Sushruta Chakraborty

Assistant Professor

In partial fulfillment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to


**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health
Sciences**

Durgapur 713206

Academic Year: 2022 – 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "A REVIEW - ON ROLE OF EXTRACT OF CLITORIA TERNATEA ON CNS DISORDER" in partial fulfillment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Mrs. Sushruta Chakraborty**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Angana Chakraborty

Signature

Name of Candidate: Angana Chakraborty

Roll No: 18901919020

Date: 15.5.2023

Place: Durgapur



(Handwritten signature)

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "A REVIEW - ON ROLE OF EXTRACT OF CLITORIA TERNATEA ON CNS DISORDER" by **Angana Chakraborty** in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Sushruta Chakraborty

Signature of Supervisor

Name of Supervisor: *SUSHRUTA CHAKRABORTY*

Date: *15/05/23*

Place: *Durgapur*

[Signature]
15/5/23

Signature

PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date:

Place



[Signature]
19/5/23
Dr. C. M. Hossain
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741249



[Signature]
15/5/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

**A BRIEF REVIEW ON PREVENTION ,
DETECTION AND MANAGEMENT OF BREAST
CANCER**

Submitted by
Abhijit Goswami

University Regn. No. – 037789
Roll No. -18901919021

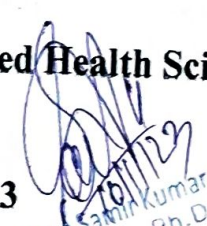
Under the guidance of
Mr. Sudipta Baur
Assistant professor

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2022 - 2023


Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "A BRIEF REVIEW ON PREVENTION , DETECTION AND MANAGEMENT OF BREAST CANCER" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Mr. Sudipta Baur

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Abhijit Goswami
Signature

Name of Candidate: Abhijit Goswami

Roll No: 18901919021

Date: 15.5.2023

Place: - Durgapur.

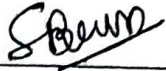


A handwritten signature in blue ink, appearing to be "Prof. (Dr.) Samir Kumar Samanta".

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (U.)
Principal
Dr. B. C. Roy College of Pharmacy & A.P.S.C.
Durgapur, West Bengal - 713200

CERTIFICATE

This is to certify that the Project entitled "A BRIEF REVIEW ON PREVENTION , DETECTION AND MANAGEMENT OF BREAST CANCER" by Abhijit Goswami in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Supervisor

Name of Supervisor: Mr.Sudipta Baur

Date: 15/05/2023

Place: Durgapur



Signature

PROF (DR.) SAMIR KUMAR SAMANTA

(PRINCIPAL)

Date:

Place:


19/05/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206





A
Project Report on

STUDY OF VARIOUS PHARMACOGNOSTIC AND PHYTOCHEMICAL BEHAVIOUR ON THE *MORINGA* *OLEIFERA LAM* LEAVES.

Submitted by
ARIJIT DEY

University Regn. No. – 037755
Roll No. - 18901919022

Under the guidance of
MR. SOUMYA MITRA

Assistant professor, Division of Pharmacognosy and Phytochemistry


In partial fulfillment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to Exam cell
**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "STUDY OF VARIOUS PHARMACOGNOSTIC AND PHYTOCHEMICAL BEHAVIOR ON THE *MORINGA OLEFERA LAM* LEAVES." in partial fulfillment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Mr. Soumya Mitra.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Arijit Deo.

Signature

Name of Candidate: ARIJIT DEY

Roll No: 18901919022

Date: 15.05.2023

Place: BCRCP, DURGAPUR




2

A handwritten signature in blue ink, appearing to read "Samir Kumar Samanta".

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "STUDY OF VARIOUS PHARMACOGNOSTIC AND PHYTOCHEMICAL BEHAVIOR ON THE *MORINGA OLEFERA* LAM. LEAVES." by Arijit Dey in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Supervisor

Name of Supervisor:

Date: 15.02.2023

Place: BCRCR, DURGAPUR

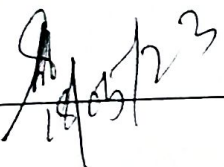


PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)


Date: 15.02.2023

Place: BCRCR, DURGAPUR

Signature 



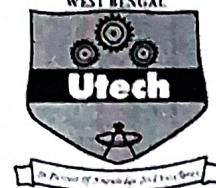
3


Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206





MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Report on

SYNTHESIS OF ANTI CANCER COUMARIN DERIVATIVES

Submitted by
SOUMYADIP SAHA

University Regn. No. -18901919025

Roll No. -1911092

Under the guidance of
MR. ISMAIL MONDAL
Designation: Assistant Professor

In partial fulfillment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2022 - 2023



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal

Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "SYNTHESIS OF ANTI CANCER COUMARIN DERIVATIVES" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of MR. ISMAIL MONDAL.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Soumyadip Saha
Signature


Name of Candidate: SOUMYADIP SAHA

Roll no: 18901919025

Date: 15/5/23

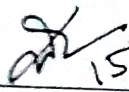
Place: DURGAPUR




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "SYNTHESIS OF ANTI CANCER COUMARIN DERIVATIVE" by SOUMYADIP SAHA in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.


15/05/23

Signature of Supervisor

Name of Supervisor: MR. ISMAIL MOMDAL

Date:

Place: DURGAPUR

PROF (DR. SAMIR KUMAR SAMANTA)
(PRINCIPAL)

Date:

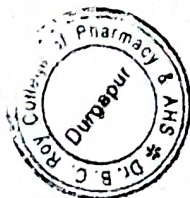
Place DURGAPUR


Signature

Name of the External Examiner

Date-

Place - DURGAPUR




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

**Isolation and Chemical Characterization of
the Fractions of Methanolic Extract of
Purified Roots of *Plumbago zeylanica***

Submitted by
ANIRBAN DALUI

University Regn. No. - 037629

Roll No. - 18901919026

Under the guidance of

DR. PARTHASARATHI PANDA

ASSISTANT PROFESSOR


In partial fulfillment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 – 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Isolation and Chemical Characterization of the Fractions of Methanolic Extract of Purified Roots of *Plumbago zeylanica*" in partial fulfillment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bonafide work carried out by me under the guidance of DR. PARTHASARATHI PANDA.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Anirban Dalui

Signature

Name of Candidate: Anirban Dalui

Roll No: 18901919026

Date: 17.05.2023

Place: DURGAPUR

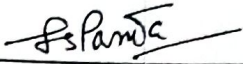


A handwritten signature in blue ink, appearing to read "Samir Kumar Samanta".

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Isolation and Chemical Characterization of the Fractions of Methanolic Extract of Purified Roots of *Plumbago zeylanica*" by ANIRBAN DALUI in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The report is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Supervisor

Name of Supervisor: DR. PARTHASARATHI PANDA

Date: 17.05.2023

Place: DURGAPUR



PROF. (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place: DURGAPUR

Signature







Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206





A
Project Report on

A REVIEW ON NUTRACEUTICALS NEW ERA OF MEDICINE IN HUMAN HEALTH

Submitted by

GOPENDRA KRISHNA ROY

University Regn. No. – 037627 of 2019-20

Roll No.- 18901919027

Under the guidance of
MRS TANUSREE ROY
ASSISTANT PROFESSOR

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to.....

Maulana Abul Kalam Azad University of Technology
West Bengal
Dr.B.C.Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2022 - 2023



Prof. (Dr.) Sanjit Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled "A Review on Nutraceuticals New Era of Medicine In Human Health" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of MRS TANUSREE ROY.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University/Institution.

Gopendra Krishna Roy
Signature

Name of Candidate: GOPENDRA KRISHNA ROY

RollNo: 18901919027

Date: 15.05.2023

Place: Durgapur.


10/1/27



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "A Review on Nutraceuticals New Era of Medicine In Human Health" by GOPENDRA KRISHNA ROY in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Roy 15/05/23

Signature of Supervisor

Name of Supervisor:

Date:

Place:

[Handwritten Signature]

PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date:

Place:

[Handwritten Signature]



[Handwritten Signature]
19/5/23

Dr. C. M. Hossain
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741249



Signature

M. Pharam., F.I.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



REVIEW ON MUCOADHESIVE DRUG DELIVERY SYSTEM

Submitted by

SUBHANKAR NAG

University Regn. No. – 037615

Roll No. – 18901919028

Under the guidance of

SAPTARSHI DUTTA

ASSISTANT PROFESSOR

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to....


**Maulana Abul Kalam Azad University of Technology
West Bengal**

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur 713206

Academic Year: 2022 – 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled “**Review On Mucoadhesive Drug Delivery System**” in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Saptarshi Dutta**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Subhankar Nag
Signature

Name of Candidate: **SUBHANKAR NAG**

Roll No: **18901919028**

Date: **16/5/23**

Place: - **Durgapur**

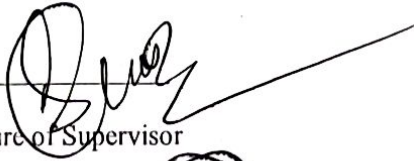


Subhankar Nag
16/5/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled “Review On Mucoadhesive Drug Delivery System” by Subhankar Nag in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Supervisor

Name of Supervisor ASSIS. PROF. SAPTARSHI DUTTA

Date:

Place:




PROF (DR.) SAMIR KR. SAMANTA


(PRINCIPAL)

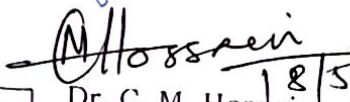
Date:

Place:



Signature 


18/11/23
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Department of Pharmacy & AHS
Durgapur, West Bengal-713206


18/11/23
Dr. C. M. Hossain
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741249



A
Project Report on

MAGNETICALLY LOADED DRUG DELIVERY SYSTEM: A REVIEW

Submitted by
Harekrishna Saha

University Regn. No. – 18901919029
Roll No. -1911029

Under the guidance of
Mr. Sudipta Baur
Assistant professor

In partial fulfillment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "MAGNETICALLY LOADED DRUG DELIVERY SYSTEM: A REVIEW" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bonafide work carried out by me under the guidance of **Mr. Sudipta Baur**

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Harekrishna Saha
Signature

Name of Candidate: Harekrishna Saha

Roll No: 18901919029

Date: 15.05.2023

Place: Durgapur




10/11/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "MAGNETICALLY LOADED DRUG DELIVERY SYSTEM: A REVIEW" by Harekrishna Saha in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Supervisor

Name of Supervisor: Mr. Sudipta Baur

Date: 15/05/2023

Place: Durgapur



Signature

PROF (DR.) SAMIR KUMAR SAMANTA
(PRINCIPAL)

Date:

Place:



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report
on



PREPARATION AND EVALUATION OF PARACETAMOL TABLET

Submitted by

SOUMYADEEP MAJHI

University Regn. No. – 037591 of 2019-20.

Roll No. -18901919030

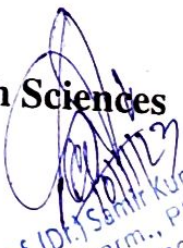
Under the guidance of
SURITA GOSH.
ASSISTANT PROFESSOR
Department of Pharmaceutics

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
MaulanaAbulKalam Azad University of Technology
West Bengal



Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206
Academic Year: 2022-2023


Prof. (Dr.) Sanjit Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "PREPARATION AND EVALUATION OF PARACETAMOL TABLET" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **MaulanaAbulKalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **SURITA GOSH**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Soumyadeep majhi
Signature

Name of Candidate: SOUMYADEEP MAJHI

Roll No: 18901919030.

Date: 12.05.23

Place: Durgapur.

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206


12/05/23



CERTIFICATE

This is to certify that the Project entitled "PREPARATION AND EVALUATION OF PARACETAMOL TABLET" by Soumyadeep Majhi in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Sourita Ghosh

Signature of Supervisor

Name of Supervisor: SORITA GHOSH

Date: 12.05.2023

Place: Durgapur

Prof. (Dr.) Samir Kr. Samanta

(PRINCIPAL)

Date:

Place:

Signature



Dr. C. M. Hossain
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741249

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Department of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

ESCHERICHIA COLI IS A KEY SPECIES ASSOCIATED WITH AMR

Submitted by
SRINJANI MITRA

University Reg. No. – 037558 of 2019-20
Roll No. - 18901919031

Under the guidance of
DR. SUMAN ROY
(Assistant Professor)

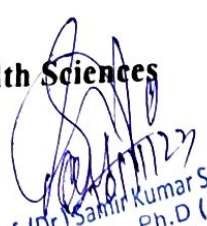
&
Mr. SHOBHAN BOSE
(Assistant Professor)

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur, 713206

Academic Year: 2022 - 2023


Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "Escherichia coli is a key species associated with AMR" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me, under the guidance of Dr. Suman Roy & Mr. Shobhan Bose.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Srinjani Mitra.
Signature

Name of Candidate: Srinjani Mitra

Roll no: 18901919031

Date : 15/05/2023

Place : Durgapur





10/11/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE


This is to certify that the Project entitled "Escherichia coli is a key species associated with AMR" Srinjani Mitra in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.


Signature of Guide

Name of Guide: Mr. Shobhan Bose

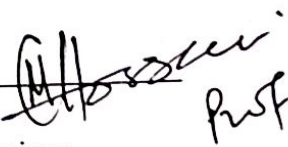
Date: 15/05/2023

Place: Durgapur


PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date: 15/05/2023

Place: Durgapur


Signature

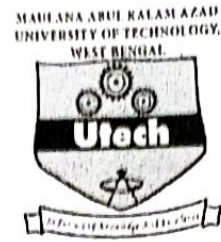
Name of External Examiner: Prof C.M. Hosen

Date: 15/05/2023

Place: Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

**TRANSDERMAL INSULIN DRUG DELIVERY
EMPHASIZING ON ELECTRICALLY
FACILITATED DELIVERY SYSTEM**

Submitted by
Hirak Bhowmik

University Regn. No. – 037564
Roll No. - 18901919032

Under the guidance of
Mr. Saroj Singhmura
Assistant professor


In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2022 - 2023




Prof. (Dr.) Sanku Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "TRANSDERMAL INSULIN DRUG DELIVERY EMPHASIZING ON ELECTRICALLY FACILITATED DELIVERY SYSTEM" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Mr. Saroj Singhmura

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Hirak Bhowmik
Signature

Name of Candidate: Hirak Bhowmik

Roll No: 18901919032

Date: 15.05.2023

Place: Durgapur





20/11/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & H.S
Durgapur, West Bengal-713206

CERTIFICATE


This is to certify that the Project entitled "TRANSDERMAL INSULIN DRUG DELIVERY EMPHASIZING ON ELECTRICALLY FACILITATED DELIVERY SYSTEM" by HIRAK BHOWMIK in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.


Signature of Supervisor

Name of Supervisor: Mr. Saroj Singhmura

Date: 15.05.2023

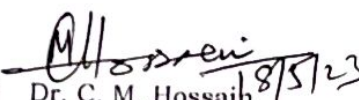
Place: Durgapur


Signature

PROF (DR.) SAMIR KUMAR SAMANTA
(PRINCIPAL)

Date:

Place:


Dr. C. M. Hossain
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741240



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206







A
Project Report on

**“A rapid and efficient DNA extraction protocol from
fresh rodent blood samples”**

Submitted by
RUDRA DAS

University Regn. No. 037563
University Roll No. - 18901919033

Under the guidance of

Dr. Sagarika Deepthy Tallapragada

M.Pharm., Ph. D., Assistant Professor

Department of Pharmacology

In partial fulfillment of the Requirement for the Degree of

Bachelor of Pharmacy

Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 - 2023




Dr. Sagarika Deepthy Tallapragada
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled "A rapid and efficient DNA extraction protocol from fresh rodent blood samples" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Sagarika Deepthy Tallapragada, M.Pharm., Ph. D., Assistant Professor, Department of Pharmacology, Dr. B. C. Roy College of Pharmacy & A.H.S.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Rudradas

Signature

Name of Candidate: RUDRA DAS

Roll No: 18901919033

Date: 16/05/23

Place: Durgapur

[Handwritten Signature]



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "A rapid and efficient DNA extraction protocol from fresh rodent blood samples" by Rudra Das in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Dr. Sagarika Deepthy . T

Signature of Guide **Dr. Sagarika Deepthy Tallapragada**

Name of Guide: **Dr. Sagarika Deepthy Tallapragada, M.Pharm., Ph. D., Assistant Professor**

Professor Department of **Department of Pharmacology**
Dr. B. C. Roy College of Pharmacy & AHS

Date: **Durgapur-713206**

Place:

[Signature]
19/5/23

Prof. Dr. Samir kr. Samanta

(PRINCIPAL)

Date:

Place:

[Signature]
19/5/23

Dr. C. M. Hossain

Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology),
Haringhata, Nadia-741249

Signature of External Examiner

Date:

Place:



[Signature]
19/5/23
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (U.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

**Isolation and Chemical Characterization of
the Fractions of Methanolic Extract of
Purified Roots of *Plumbago zeylanica***

Submitted by
ANKITA KARMAKAR

University Regn. No. - 037547

Roll No. - 18901919034

Under the guidance of

DR. PARTHASARATHI PANDA

ASSISTANT PROFESSOR


**In partial fulfillment of the Requirement for the Degree of
Bachelor of Pharmacy**

**Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 – 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Isolation and Chemical Characterization of the Fractions of Methanolic Extract of Purified Roots of *Plumbago zeylanica*" in partial fulfillment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bonafide work carried out by me under the guidance of DR. PARTHASARATHI PANDA.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Ankita Karmakar.
Signature

Name of Candidate: ANKITA KARMAKAR

Roll No: 18901919031

Date: 17/05/2023

Place: DURGAPUR

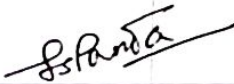




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Isolation and Chemical Characterization of the Fractions of Methanolic Extract of Purified Roots of *Plumbago zeylanica*" by ANKITA KARMAKAR in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The report is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Supervisor

Name of Supervisor: DR. PARTHASARATHI PANDA

Date: 17.05.2023

Place: DURGAPUR

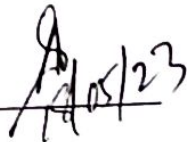


PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place: DURGAPUR



Signature





Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

APPLICATION OF COMMON METALS AS NANOCARRIERS

Submitted by

SOUVIK KOWER

University Regn. No. -18901919035

Roll No. -1911041

Under the guidance of


ASST. PROF. RITUPARNA CHAKI

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
**MaulanaAbulKalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2019 – 2023


Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "Application of common metals as nanocarriers" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to MaulanaAbulKalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of ~~Asst.~~ Prof. Rituparna Chaki.

The matter embodied in this Project has not been submitted for the award of any other ~~degree~~ or diploma to any University / Institution.

Souvik Kower

Signature

Name Of Candidate- Souvik Kower.

Roll No. - 18901919035

Unit

Place DR.B.C.ROY COLLEGE OF PHARMACY & ALLIED HEALTH SCIENCES.

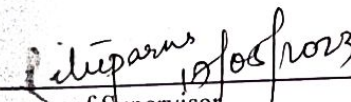


A handwritten signature in blue ink, appearing to be "Samir Kumar Samanta".

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Application of common metals as nanocarriers" by ~~Sarvik~~ Kower in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Supervisor

ASST. PROF. RITUPARNA CHAKI

Date:

Place: DR. B. C. ROY COLLEGE OF PHARMACY AND ALLIED HEALTH SCIENCES

Signature:

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place: DR. B. C. ROY COLLEGE OF PHARMACY AND ALLIED HEALTH SCIENCES


10/11/23


14/5/23

Prof. (Dr.) Samir Kr. Samanta
M. Pharm., Ph.D. (U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur - 713205





MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A

Project Report on ANTIMICROBIAL RESISTANCE

ANTIMICROBIAL RESISTANCE

AVAS PAL

University Regn. No. -037541 of 2019-2020

Roll No. -18901919036

Under the guidance of
Mr. SHOBHAN BOSE
ASSISTANT PROFESSOR

In partial fulfilment of the Requirement for the Degree of
- Bachelor of Pharmacy

Submitted to Mr. Shobhan Bose

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 - 2023



Prof. (Dr.) Samit Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Anti-Microbial Resistance" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Mr Shobhan Bose**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Avas Pal

Signature

Name of Candidate: Avas Pal

Roll

No:

18901919036

Date: 15/05/23

Place:


Durgapur




Prof. (Dr.) Sahir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Anti-Microbial Resistance" by Avas Pal in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

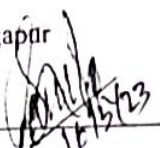


Signature of Supervisor

Name of Supervisor:

Date: 15/05/23

Place: Durgapur



PROF (DR.) SAMIR KR. SAMANTA


(PRINCIPAL)

Date:

Place:

Signature




15/05/23
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

**Phytochemical Screening and *In-vitro* Antioxidant
Evaluation of Different Extracts of Purified Roots of
*Plumbago zeylanica***

Submitted by
Gourab Manna

University Regn. No. - 037539

Roll No. - 18901919037

Under the guidance of
Dr. Yadu Nandan Dey
Associate Professor

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2019 – 2023




Prof. (Dr.) Sanku Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Phytochemical screening and *in-vitro* antioxidant evaluation of different extracts of purified roots of *Plumbago zeylanica*" in partial fulfillment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of *Dr. Yadu Nandan DeY.*

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Gourab Manna

Signature

Name of Candidate: GOURAB MANNA

Roll No: 18901919037

Date: 16-05-23

Place: DURGAPUR



[Handwritten signature]
16/05/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (U.C.)
Principal
Dr. B. C. Roy College of Pharmacy & HNS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Phytochemical Screening and Evaluation on in-vitro activity of Anti-Oxidant in different extracts of purified roots of *Plumbago zeylanica*" by GOURAB MANNA in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The report is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Yadu Nandan Dey

Signature of Supervisor

Name of Supervisor: Dr. Yadu Nandan Dey

Date: 16-05-2023

Place: DURGAPUR

[Signature]

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place: DURGAPUR

Signature

Name of the External Examiner

Date:

Place: DURGAPUR



[Signature]

M. Pharam, Ph.D. (Pharm)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

[Signature] 18/5/23
Prof. C. M. Hossain
MAKAUT
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on
2D QSAR MODELING ON TRIAZOLE
CONTAINING DERIVATIVES AS HDAC INHIBITOR
USING OPEN SOURCE TOOLS.

Submitted by
ADARSHA GANGULY

University Regn. No. -037516

Roll No. -18901919038

Under the guidance of
DR. AMIT KUMAR HALDER

Designation
Associate Professor

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2022-2023




Prof. (Dr.) Samit Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the project entitled "2D QSAR MODELING ON TRIAZOLE CONTAINING DERIVATIVES AS HDAC INHIBITOR FOR USING OPEN SOURCE TOOLS." In partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL is an authentic record of bona file work carried out by me under the guidance of DR. AMIT KUMAR HALDER.

The matter embodied in this project has not been submitted for the award of any other degree or diploma to any University/Institution.

Adarsha Ganguly.

signature


Name of the candidate-ADARSHA GANGULY

Roll no- 18901919038

Date – 15.05.2023

Place – DURGAPUR.




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "2D QSAR MODELING OF TRIAZOLE CONTAINING DERIVATIVES OR HDAC INHIBITOR FOR THE TREATMENT OF CANCER." by Adarsha Ganguly in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Amrit Kumar Halder 15/5/23

Signature of Supervisor

Name of Supervisor: DR.AMIT KUMAR HALDER.

Date: 15/05/23

Place: Durgapur

Amir 16/5/23

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place:

Signature



15/05/23



Samir Kumar Samanta
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (U.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



**“REVIEW ON POLYMERS IN
PHARMACEUTICAL DRUG
DELIVERY SYSTEM”**

Submitted by

AVIJIT RUIDAS

University Regn. No. – 037508

Roll No. -18901919039

Under the guidance of
SAPTARSHI DUTTA

ASSISTANT PROFESSOR

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to.....


**Maulana Abul Kalam Azad University of Technology
West Bengal**

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur 713206

Academic Year: 2022 - 2023




Prof. Dr. S. K. Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled “Review On Polymers in Pharmaceutical Drug Delivery System” in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of SAPTARSHI DUTTA, Assistant Professor, Dr. B.C Roy College of Pharmacy & A.H.S.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Avijit Ruidas

Signature

Name of Candidate: *AVIJIT RUIDAS*

Roll No: 18901919039

Date: *16/05/2023*

Place: *Durgapur*



[Handwritten Signature]
16/05/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713205

CERTIFICATE

This is to certify that the Project entitled "Review On Polymers in Pharmaceutical Drug Delivery System" by Avijit Ruidas in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Signature of Supervisor

Name of Supervisor: **ASSIS. PROF. SAPTARSHI DUTTA**

Date:

Place:

PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date:

Place:



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



Dr. C. M. Hossain
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741249

Signature





A
Project Report on

SCREENING OF ANTI-INFLAMMATORY ACTIVITY USING OYSTER MEAT EXTRACT

Submitted by
ANIKET DAS

University Reg. No.-037491 of 2019-20
Roll No. -18901919040

Under the guidance of
Mrs. JAYITA MONDAL
(ASSISTANT PROFESSOR)


In partial fulfilment of the Requirement for the Degree of
-Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur, 713206

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "*Screening of anti-inflammatory activity using oyster meat extract*" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me, under the guidance of **Mrs. Jayita Mondal**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Aniket Das (15/05/23)

Signature

Name of Candidate: Aniket Das

Roll no: 18901919040

Date :15/05/2023

Place : Durgapur




10/11/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (U.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "*Screening of anti-inflammatory activity using oyster meat extract*" by **Aniket Das** in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Jayita Mondal 15/5/23

Signature of Guide

Name of Guide: Mrs. JAYITA MONDAL

Date: 15/05/2023

Place: Durgapur

[Signature]

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date: 15/05/2023

Place: Durgapur

Signature

Name of External Examiner:

Date: 15/05/2023

Place: Durgapur

[Signature]
15/05/23

[Signature]
10/11/23



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph. D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A

Project Report on

A REVIEW- CAN SAMBAR PROTECT COLON CANCER

Submitted by

SPURTIKA JANA

University Regn.No.-037485 OF 2019-20

Roll No. -18901919041

Under the guidance of

DR. AVIJIT CHATTERJEE

ASSISTANT PROFESSOR

In partial fulfilment of the Requirement for the Degree of

Bachelor of Pharmacy

Submitted to

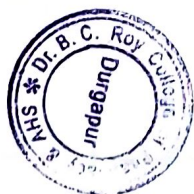
Maulana Abul Kalam Azad University of Technology


West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur- 713206

Academic Year: 2022-2023




Prof. (Dr.) Sandip Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled "A REVIEW- CAN SAMBAR PROTECT COLON CANCER" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of DR. AVIJIT CHATTERJEE.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Spurtika Jana

Signature


Name of Candidate: SPURTIKA JANA

Roll No: 18901919041

Date: 15/05/2023

Place: DURGAPUR




Prof. (Dr.) Sanjit Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled " A REVIEW- CAN SAMBAR PROTECT COLON CANCER " by SPURTIKA JANA in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original practical work under our supervision and up to our satisfaction. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Avijit Chatterjee 15/5/23

Signature of Guide

Name of Guide: DR. AVIJIT CHATTERJEE

Date: 15/05/2023

Place: DURGAPUR

Avijit Chatterjee
15/5/23

PROF. (Dr.) SAMIR KUMAR SAMANTA (PRINCIPAL)

Date: 15/05/2023

Place: DURGAPUR



Signature

Name of External Examiner:

Date:

Place:



Dr. C. M. Hossain
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741249

C. M. Hossain
18/5/23



Samir Kumar Samanta
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal/3
B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-741206



A
Project Report on

**Isolation and Chemical Characterization of
the Fractions of Methanolic Extract of
Purified Roots of *Plumbago zeylanica***

Submitted by
DEBANWITA LAHA

University Regn. No. - 037461

Roll No. - 18901919042

Under the guidance of

DR. PARTHASARATHI PANDA
ASSISTANT PROFESSOR


In partial fulfillment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 – 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Isolation and Chemical Characterization of the Fractions of Methanolic Extract of Purified Roots of *Plumbago zeylanica*" in partial fulfillment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bonafide work carried out by me under the guidance of DR. PARTHASARATHI PANDA.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Debanwita Laha

Signature

Name of Candidate: DEBANWITA LAHA

Roll No: 18901919042

Date: 17.05.2023

Place: DURGAPUR

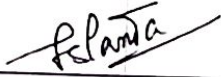


Samir Kumar Samanta
17/05/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (U.U.)
Principal
Dr. B. C. Roy College of Pharmacy & MHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Isolation and Chemical Characterization of the Fractions of Methanolic Extract of Purified Roots of *Plumbago zeylanica*" by DEBANWITA LAHA in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The report is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Supervisor

Name of Supervisor: DR. PARTHASARATHI PANDA

Date: 17.05.2023

Place: DURGAPUR



PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place: DURGAPUR

Signature



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206





A
Project Report
on



PREPARATION AND EVALUATION OF PARACETAMOL TABLET

Submitted by

Subhadip Manna

University Regn. No. – 037459 of 2019-20.

Roll No. -18901919043

Under the guidance of
SURITA GOSH.
ASSISTANT PROFESSOR
Department of Pharmaceutics

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
MaulanaAbulKalam Azad University of Technology
West Bengal



Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206
Academic Year: 2022 – 2023

[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "**PREPARATION AND EVALUATION OF PARACETAMOL TABLET**" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **MaulanaAbulKalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **SURITA GOSH**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Subhadip manna

Signature

Name of Candidate: **SUBHADIP MANA**

Roll No: **18901919043**.

Date: **15/05/2023**

Place: **Durgapur**

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206





CERTIFICATE

This is to certify that the Project entitled "PREPARATION AND EVALUATION OF PARACETAMOL TABLET" by Subhadip Mana in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Surita Ghosh 12/05/2023

Signature of Supervisor

Name of Supervisor: SURITA GHOSH

Date: 12.05.2023

Place: Durgapur

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place:

Signature



Dr. C. M. Hossain
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology,
Haringhata, Nadia-741249)



Signature 9/5/23



A
Project Report on

SYNTHESIS OF ANTIBACTERIAL COUMARINS

Submitted by
DEBAPRIYA DEY

NAME OF THE STUDENT
DEBAPRIYA DEY
University Regn. No. – 037438
Roll No. – 18901919044

Under the guidance of
Dr. Sudip Kumar Mandal
Designation: Assistant Professor

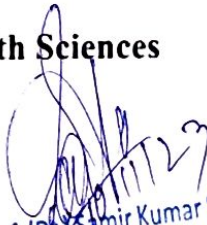
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Synthesis of Antibacterial Coumarins" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Dr. Sudip Kumar Mandal**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Debapriya Dey

Signature

Name of Candidate: Debapriya Dey

RollNo:18901919044

Date:15.05.2023

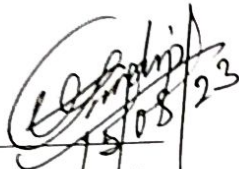
Place:Durgapur



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Synthesis of Antibacterial Coumarins" by Debapriya Dey in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

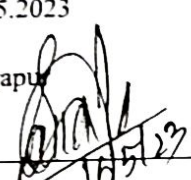

15/05/23

Signature of Supervisor

Name of Supervisor: Dr. Sudip Kumar Mandal

Date: 15.05.2023

Place: Durgapur


16/5/23

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place:

Signature




14/5/23




15/5/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A Thesis

on

ENTREPRENEURSHIP DEVELOPMENT

*Submitted for the partial fulfilment of the requirement of the award of
the Degree of*

Bachelor of Pharmacy

by

SOUVIK GHOSH

Registration No: 037422

University Roll No: 18901919045

Under the guidance of

DR. Ujjwal Sahoo

Associate Professor

Department of Pharmaceutical Chemistry

Submitted to

Maulana Abul Kalam Azad University of Technology

West Bengal

**DR. B. C. Roy College of Pharmacy and Allied Health Sciences,
Durgapur-713206**

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Thesis entitled "Entrepreneurship Development" in partial fulfilment of the requirement for the award of the Degree of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bonafide work carried out by me under the guidance of DR. Ujjwal Sahoo (Associate Professor, Department of Pharmaceutical Chemistry).

The matter embodied in this Thesis has not been submitted for the award of any other degree or diploma to any University/Institution.

Souvik Ghosh

Name of the Candidate: SOUVIK GHOSH

Roll No.: 18901919045

Date: 15/05/2023

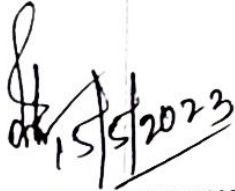
Place: Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Thesis entitled "Entrepreneurship Development" in partial fulfilment of the requirement for the award of the Degree of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bonafide work carried out by Mr. Souvik Ghosh Roll No. 18901919045 under my guidance.


15/5/2023

Signature of Guide

Name of Guide: DR. Ujjwal Sahoo

Date: 15/5/2023

Place: Durgapur


16/5/23

Prof. (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date:

Place: Durgapur




15/05/23




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Report on

**Phytochemical Screening and *In-vitro* Antioxidant
Evaluation of Different Extracts of Purified Roots of
*Plumbago zeylanica***

Submitted by

Snehasish Koner

University Regn. No. - 037343

Roll No. - 18901919046

Under the guidance of
Dr. Yadu Nandan Dey
Associate Professor


In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2019 – 2023




Prof. (Dr.) Samik Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Phytochemical screening and *in-vitro* antioxidant evaluation of different extracts of purified roots of *Plumbago zeylanica*" in partial fulfillment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Jadu Nandan Dey

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Snehasish Koner

Signature

Name of Candidate: SNEHASISH KONER.

Roll No: 18901919046

Date: 16/05/2023

Place: DURGAPUR



~~18/05/23~~
Prof. C. M. Asokan
MAYADT


10/11/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Phytochemical Screening and Evaluation on in-vitro activity of Anti-Oxidant in different extracts of purified roots of *Plumbago zeylanica*" by SNEHASHISH KONER in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The report is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Yadu Nandan Dey

Signature of Supervisor

Name of Supervisor: Dr. Yadu Nandan Dey

Date: 15-05-2023

Place: DURGAPUR

Samir Kr. Samanta
15/5/23

PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date:

Place: DURGAPUR



Signature

Name of the External Examiner

Date:

Place: DURGAPUR

Samir Kr. Samanta
15/5/23



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A

Project Report on

**Investigation of novel drug target and latest update on
antihypertensive therapy: A review**

Submitted by

Dinesh Pradhan

University Registration Number – 037388 of 2019-20

University Roll Number - 18901919047

Under the guidance of

Dr. Aniruddha Mukherjee

Assistant professor

In partial fulfilment of the Requirement for the Degree of

Bachelor of Pharmacy

Submitted to

Maulana Abul Kalam Azad University of Technology


West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur 713206

Academic Year: 2023 – 2024




Prof. (Dr.) Sanjay Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled "Investigation of Novel drug target and latest update on Antihypertensive therapy – A review" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Aniruddha Mukherjee.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Dinesh Pradhan
Signature

Name of Candidate: Dinesh Pradhan

Roll No: 18901919047

Date: 15.05.2023

Place: *Durgapur*



[Handwritten Signature]

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Investigation of Novel drug target and latest update on Antihypertensive therapy – A review" by Dinesh Pradhan in partial fulfilment for the BACHELOR OF PHARMACY (PHARMACOLOGY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

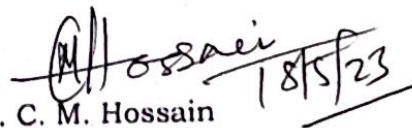

Signature of Guide



Principal

Name of Guide: Dr. Aniruddha Mukherjee
Date: 15/5/23
Place: BCRCP

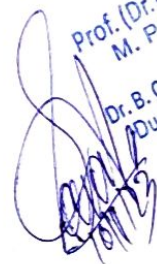
Prof (Dr.) Samir Kumar Samanta
Date:
Place:

Signature
Name of the External Examiner
Date:
Place:


18/5/23


Dr. C. M. Hossain
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741249




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Report on

SCREENING OF ANTI-INFLAMMATORY ACTIVITY USING OYSTER MEAT EXTRACT

Submitted by
SK DILSHAD ANWAR

University Reg. No. - 037329 of 2019-20
Roll No. -18901919048

Under the guidance of
Mrs. JAYITA MONDAL
(ASSISTANT PROFESSOR)

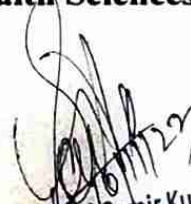
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur, 713206

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "*Screening of anti-inflammatory activity using oyster meat extract*" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me, under the guidance of **Mrs. Jayita Mondal**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

SK Dilshad Anwar 15/05/23
Signature

Name of Candidate: SK Dilshad Anwar

Roll no: 18901919048

Date :15/05/2023

Place : Durgapur


15/05/23



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "*Screening of anti-inflammatory activity using oyster meat extract*" by SK Dilshad Anwar in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Jayita Mondal 15/5/23
Signature of Guide

Name of Guide: Mrs. JAYITA MONDAL

Date: 15/05/2023

Place: Durgapur

[Signature]
PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date: 15/05/2023

Place: Durgapur

[Signature]
Signature

Name of External Examiner:

Date: 15/05/2023

Place: Durgapur



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (U.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A Project Report
on

**DEVELOPMENT AND VALIDATION OF UV-
SPECTROPHOTOMETRIC METHOD FOR
SIMULTANEOUS ESTIMATION OF GLICLAZIDE
AND METFORMIN IN TABLET DOSAGE FORM.**

Submitted by
Arnab Dey

University Regn. No. – 037323 of 2019-20

Roll No. - 18901919049

Under the guidance of

Dr. Manabendra Dhua.

Assistant professor

Dr. B.C. Roy College of Pharmacy & AHS

In partial fulfillment of the requirement for the Degree of
Bachelor of Pharmacy


Submitted to:

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur - 713206**

2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

There by declare that the Project entitled "SIMULTANEOUS UV SPECTROPHOTOMETRIC METHOD FOR ESTIMATION OF GLYCLAZIDE & METFORMIN IN TABLET DOSAGES FORM" In Partial fulfillment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Manabendra Dhua, Assistant Professor, Dr. B.C. Roy College of Pharmacy & AHS.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Signature: Arnab Dey

Arnab Dey
University Roll No: 18901919049
Date: 16.05.2023
Place: Durgapur



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B.C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206


10/11/23

CERTIFICATE

This is to certify that the Project entitled "SIMULTANEOUS UV SPECTROPHOTOMETRIC METHOD FOR ESTIMATION OF GLYCLAZIDE & METFORMIN IN TABLET DOSAGES FORM" by Arnab Dey in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The report is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of supervisor

Dr. Manabendra Dhua
Assistant Professor
Dr. B.C. Roy College of Pharmacy & AHS

Date: 16/05/23.

Place: Durgapur.



Prof. (Dr.) Samir Kumar Samanta
Principal

Dr. B.C. Roy College of Pharmacy & AHS

Date:

Place:



Signature
(External Examiner)



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Report on

ANTIMICROBIAL RESISTANCE: A REVIEW

Submitted by

Sourav Paul

University Reg. No.- 037333 OF 2019-20

Roll No. - 18901919050

Under the guidance of
MR. SHOBHAN BOSE
ASSISTANT PROFESSOR
Department of Pharmaceutical Chemistry

In partial fulfillment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal
Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2022-2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled "ANTIMICROBIAL RESISTANCE: A REVIEW" in partial fulfillment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of MR. SHOBHAN BOSE.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Signature

Name of Candidate: Sourav Paul

Roll No: 18901919050

Date: Durgapur 15/05/23

Place:




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "ANTIMICROBIAL RESISTANCE: A REVIEW" by SOURAV PAUL in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Supervisor

Name of Supervisor: MR. SHOBHAN BOSE

Date:

Place:



PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date:

Place:

Signature



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.) III
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A

Project Report on

COMPARATIVE EVALUATION STUDY OF MARKETED METFORMIN SR 500 TABLETS

Submitted by

SATADRU MALLIK

University Regn. No.-037337 OF 2019-20

Roll No. -18901919051

Under the guidance of

DR. FALGUNI PATRA

ASSISTANT PROFESSOR

In partial fulfilment of the Requirement for the Degree of

Bachelor of Pharmacy

Submitted to

Maulana Abul Kalam Azad University of Technology


West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur- 713206

Academic Year: 2022-2023




Prof. (Dr.) Satish Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206
1

DECLARATION

This is to certify that the Project entitled "**COMPARATIVE EVALUATION STUDY OF MARKETED METFORMIN SR 500 TABLETS**" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **DR. FALGUNI PATRA**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University/Institution.

Satadru Mallik

Signature

Name of Candidate: SATADRU MALLIK

Roll No: 18901919051

Date: 15.05.2023

Place: DURGAPUR




[Handwritten signature]
15/05/23

Prof. (Dr.) Sanjay Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled " **COMPARATIVE EVALUATION STUDY OF MARKETED METFORMIN SR 500 TABLETS** " by **SATADRU MALLIK** in partial fulfilment for the **BACHELOR OF PHARMACY** under **OF MAULANA ABUL KALAM AZAD UNIVERSITY TECHNOLOGY** is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination **MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY** for assessment.


15/5/2023

Signature of Guide

Name of Guide: DR. FALGUNI PATRA Date: 15.05.2023

Place: DURGAPUR


15/5/23

PROF (DR.) SAMIR KUMAR SAMANTA

(PRINCIPAL)

Date: 15.05.2023

Place: DURGAPUR




15/5/23


15/5/23



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal/
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Report on
**Thermodynamically Stable Microstructure As Efficient
Drug Carrier- A Review**
Submitted by

SRABONA KONAR

University Regn. No. – 037328 of 2019-20
Roll No. - 18901919052

Under the guidance of
Mr. Indrajit Chand
Assistant Professor


In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2022 – 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206 1

DECLARATION

I hereby declare that the Project entitled "**Thermodynamically Stable Microstructure As Efficient Drug Carrier- A Review**" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **MR INDRAJIT CHAND**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Srabona Konar

Signature

Name of Candidate: **SRABONA KONAR**

Roll No: **18901919052**

Date: **15/05/23**

Place: **DURGAPUR**



A handwritten signature in blue ink, appearing to read "Samir Kumar Samanta".

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "**Thermodynamically Stable Microstructure As Efficient Drug Carrier- A Review**" by **SRABONA KONAR** in partial fulfilment for the **BACHELOR OF PHARMACY** under **MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY** is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The report is forwarded to Controller of Examination **MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY** for assessment.



Signature of Supervisor

Name of Supervisor: MR INDRAJIT CHAND

Date: 15.05.23

Place: DURGAPUR

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place: DURGAPUR

Signature



Dr. C. M. Hossain
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia 741249

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

IMPROVING SOLUBILITY ENHANCEMENT OF CARVEDILLOL VIA COCRYSTALLIZATION

:A REVIEW

Submitted by
SUMAN DAS

University Roll No. – 18901919053
Reg. No. -037088 of 2019-2020

Under the guidance of
Dr. Hriday Bera
Associate professor


In partial fulfillment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2022 - 2023




Prof. (Dr.) Sanjay Kumar Samanta
M. Pharm., Ph.D (I.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "IMPROVING SOLUBILITY ENHANCEMENT OF CARVEDILLOL VIA COCRYSTALLIZATION :A REVIEW " in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bonafide work carried out by me under the guidance of Dr. Hriday Bera

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Suman Das

Signature

Name of Candidate: Suman Das

Roll No: 18901919053

Date: 15/05/23

Place: Durgapur



[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "IMPROVING SOLUBILITY ENHANCEMENT OF CARVEDILLOL VIA COCRYSTALLIZATION :A REVIEW" by Suman Das in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY

OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Supervisor

Name of Supervisor: Dr. Hriday Bera

Date: 15/5/23


Place: Durgapur



Signature
PROF (DR.) SAMIR KUMAR SAMANTA
(PRINCIPAL)

Date:

Place:



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713208



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Report on

Transdermal Insulin Delivery Emphasizing on Mechanical Force Triggered System

Submitted by

ARKAPRAVA PAUL

University Regn. No. – 037314

Roll No. - 18901919054


Under the guidance of
Mr. Saroj Singhmura
Assistant Professor

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 – 2023


Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled “**Transdermal Insulin Delivery Emphasizing on Mechanical Force Triggered System**” in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Mr. SAROJ SINGHMURA**, Assistant Professor, Dr. B.C Roy College of Pharmacy & A.H.S.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Signature: Arkaprava Paul

Name of Candidate: Arkaprava Paul

University Roll No: 18901919054

Date: 15/05/2023

Place: Dr. B.C. Roy College of Pharmacy & AHS



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

A handwritten signature in black ink, appearing to read "Arkaprava Paul", with the date "15/05/23" written below it.

CERTIFICATE

This is to certify that the Project entitled "**Transdermal Insulin Delivery Emphasizing on Mechanical force triggered system**" by ARKAPRAVA PAUL in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The report is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Signature of Supervisor

Name of Supervisor: MR SAROJ SINGHMURA

Date: 15/05/23

Place: Dr. B. C. Roy College of pharmacy & AHS

PROF (DR.) SAMIR KUMAR SAMANTA (PRINCIPAL)

Date:

Place:

Signature



Dr. C. M. Hossain
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology,
Haringhata, Nadia-741249)

Signature of Dr. C. M. Hossain



“Emerging Concepts in Pharmaceutical Marketing Channels”

Submitted by

SOVAN GIRI

University Regn. No- 037283

RollNo.-18901919055

Under the guidance of

MS TANUSREE ROY

ASSISTANT PROFESSOR

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to.....


**Maulana Abul Kalam Azad
University of Technology, West Bengal**

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur-713206

Academic Year:2022-2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled "**Emerging Concepts in Pharmaceutical Marketing Channels**" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **MS TANUSREE ROY**, Assistant Professor, Dr. B.C Roy College of Pharmacy & A.H.S.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Signature: *Sovan Giri*

Name of Candidate: **SOVAN GIRI**

Roll No: **18901919055**

Date: **15.05.2023**

Place: *Durgapur.*



[Handwritten signature]
15/05/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Emerging Concepts in Pharmaceutical Marketing Channels" by Sovan Giri in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Roy 15/05/23
Signature of Guide

Name of Guide: ASST. PROF. TANUSHREE ROY

Date: 15.05.23

Place: Durgapur



[Signature]
PROF (DR.) SAMIR KR SAMANTA
(PRINCIPAL)

Date:

Place:



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

[Signature]
Signature of External



[Signature]
Dr. C. M. Hossain
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741249



A

Project Report on

A Review on Antibiotic Resistance of Penicillin

Submitted by

Sudarshini Dutta

University Reg No. – 037271 of 2019-20

Roll No. - 18901919056

Under the guidance of

Dr. Suman Ray

Professor

Prof. Shobhan Bose

Assistant Professor

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy


Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 – 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "A Review on Antibiotic Resistance of Penicillin" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of Dr. Suman Ray and Prof. Shobhan Bose.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Sudarshini Dutta
Signature

Name of Candidate: Sudarshini Dutta

Roll No: 18901919056

Date: 15/05/2023

Place: Durgapur



[Handwritten signature]
15/05/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "A Review on Antibiotic Resistance of Penicillin" by Sudarshini Dutta in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.


18/5/23

Signature of Supervisor

Name of Supervisor:

Date:

Place:



18/5/23

PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date:

Place:

Signature


18/5/23
Prof. C. M. Hossain, MAKAUT.


18/5/23



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

**Comparative In-Vitro
Evaluation Studies of
Marketed Brands and
Generic Paracetamol
Tablets**

Submitted by

Sourov Gorai

University Regn. No. – 037259

Roll No. – 18901919057

Under the guidance of
Mr. Waizul Haque
Associate Professor


In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022– 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

We hereby declare that the Project entitled “comparative in-vitro evaluation studies of marketed brands and generic paracetamol tablets” in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bonafide work carried out by me under the guidance of

Mr. Waizul Haque.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Name of Candidate: *Sourav Gorai*

Date : 16. 05. 2023

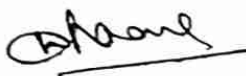


A handwritten signature in blue ink, appearing to read "Samir Kumar Samanta".

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713205

CERTIFICATE

This is to certify that the Project entitled "comparative in-vitro evaluation studies of marketed brands and generic paracetamol tablets" by Suryakanta Dolui partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

MD. WAIZUL HAQUE 

Signature of Supervisor

Name of Supervisor: MD. WAIZUL HAQUE

Date: 16.05.2023

Place: Durgapur

PROF (DR.) SAMIR KUMAR SAMANTA

(PRINCIPAL)

Date:

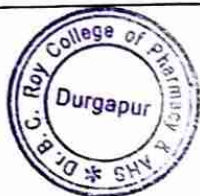
Place:




Dr. C. M. Hossain

Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741249

Signature




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A

Project Report on

SCREENING OF ANTI-INFLAMMATORY ACTIVITY USING OYSTER MEAT EXTRACT

Submitted by

SWAPNAMOIY GAYEN

University Reg. No. -037239 of 2019-20

Roll No. -18901919058

Under the guidance of

Mrs. JAYITA MONDAL
(ASSISTANT PROFESSOR)

In partial fulfilment of the Requirement for the Degree of
· **Bachelor of Pharmacy**

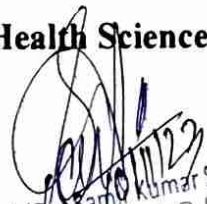
Submitted to

Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur, 713206

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "*Screening of anti-inflammatory activity using oyster meat extract*" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me, under the guidance of **Mrs. Jayita Mondal**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Swapnamoy Gayen (15/05/23)

Signature

Name of Candidate: Swapnamoy Gayen

Roll no: 18901919058

Date :15/05/2023

Place : Durgapur




10/11/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "*Screening of anti-inflammatory activity using oyster meat extract*" by Swapnamoy Gayen in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Jayita Mondal 15/5/23

Signature of Guide

Name of Guide: Mrs. JAYITA MONDAL

Date: 15/05/2023

Place: Durgapur

[Signature]

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date: 15/05/2023

Place: Durgapur

[Signature]

Signature

Name of External Examiner:

Date: 15/05/2023

Place: Durgapur



[Signature]
10/11/23
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph. D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713208



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Report on

**Comparative In-Vitro
Evaluation Studies of
Marketed Brands and
Generic Paracetamol
Tablets**

Submitted by

Suryakanta Dolui

University Regn. No. – 037200

Roll No. –18901919059

Under the guidance of
Mr. Waizul Haque
Associate Professor

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy


Submitted to

**MaulanaAbulKalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**



Academic Year: 2022– 2023


Prof. (Dr.) Saran Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206
1

DECLARATION

We hereby declare that the Project entitled "comparative in-vitro evaluation studies of marketed brands and generic paracetamol tablets" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bonafide work carried out by me under the guidance of

Mr. Waizul Haque.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Name of Candidate: *Suryakanta Dolui*

Date: *16.05.2023*



A handwritten signature in blue ink, appearing to read "Samir Kumar Samanta".

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "comparative in-vitro evaluation studies of marketed brands and generic paracetamol tablets" by Suryakanta Dolui partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Supervisor

Name of Supervisor: MD. WAIZUL HOSSAIN

Date: 16.05.2023

Place: Durgapur


PROF (DR.) SAMIR KUMAR SAMANTA

(PRINCIPAL)

Date:

Place:

Signature



(Formerly Known as West Bengal University of Technology)
Haringhata, Medinipur-741249

Dr. C. M. Hossain
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
Haringhata, Medinipur-741249



A
Project Report on

**SYNTHESIS OF CAFFEIC ACID-g-XANTHAN GUM
HYDROGELS AND EVALUATION OF THEIR
GEL-SOL TRANSITION PROPERTIES**

Submitted by
SOURAV PATRA

University Reg. No. – 037185 of 2019-20
Roll No. - 18901919060

Under the guidance of
DR. HRIDAY BERA
(M. Pharm, Ph.D.)
Assistant Professor


In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur, 713206**

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Synthesis of Caffeic acid-g-Xanthan gum-based hydrogels and evaluation of their sol gel transition properties" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me, under the guidance of Dr. Hriday Bera.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Sourav Patra
Signature

Name of Candidate: Sourav Patra

Roll no: 18901919060

Date : 15/05/2023

Place : Durgapur



[Handwritten signature]
15/05/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Synthesis of Caffeic acid-g-Xanthan gum-based hydrogels and evaluation of their sol gel transition properties" by Sourav Patra in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



15/5/2023

Signature of Guide

Name of Guide: Dr. Hriday Bera

Date: 15/05/2023

Place: Durgapur


15/5/23

PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date: 15/05/2023

Place: Durgapur



Signature

Name of External Examiner:

Date: 15/05/2023

Place: Durgapur


15/5/23


15/5/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206





A
Project Report on
**A REVIEW ON
ORODISPERSIBLE DOSAGE
FORM FOR PEDIATRIC USE**

Submitted by

SOUMEN LAHARI

University Reg. No. – 037160 of 2019-20

Roll No. - 18901919062

Under the guidance of
Mr. INDRAJIT CHAND
Designation

Assistant professor of BCRCP Dept. of Pharmaceutics

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

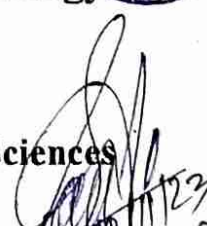
Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur, 713206**

Academic Year: 2022 - 2023




Prof. (Dr.) Sampr Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "A REVIEW ON ORODISPERSIBLE DOSAGE FORM FOR PEDIATRIC USE" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me, under the guidance of Mr. INDRAJIT CHAND

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Soumen Lahari

Signature

Name of Candidate: Soumen Lahari

Roll no: 18901919062

Date: 15/05/2023

Place: Durgapur





Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "A REVIEW ON ORODISPERSIBLE DOSAGE FORM FOR PEDIATRIC USE" by Soumen Lahari in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Guide

Name of Guide: **Mr. INDRAJIT CHAND**

Date: 15.05.23

Place: Durgapur




PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place: Durgapur



Dr. C. M. Hossain



Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741249

Signature

Name of External Examiner:

Date

Place: Durgapur



Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

A Project Thesis

On

ALCOHOLISM – AN ENIGMA AMONG US

Submitted for the partial fulfilment of
the requirement for the award of the Degree of
BACHELOR OF PHARMACY

By

Ms. SWAGATA ROY

University Regn. No- 037152

Roll No. -18901919063

Under the supervision of

Dr. Shyamshree S.S Manna (Professor),

**Dr. B.C. Roy College of Pharmacy and Allied Health Sciences,
Durgapur-713206**




**Affiliated to: Maulana AbulKalam Azad University of
Technology, West Bengal**



2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled "Alcoholism – an enigma among us" in partial fulfillment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Dr. SHYAMSHREE S S MANNA**, Professor of Pharmacology, Dr. B.C Roy College of Pharmacy & A.H.S.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Swagata Roy

Signature

Name of Candidate: **SWAGATA ROY**

Roll No: **18901919063**

Date: 15/05/23

Place: Durgapur

Samir Kumar Samanta
7/11/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



CERTIFICATE

This is to certify that the Project entitled "Alcoholism – an enigma among us" by Swagata Roy in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under my supervision and up to my satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL for assessment.


15/05/23

PROF (DR.) SHYAMSHREE SS MANNA

Supervisor

Date: 15/05/23

Place: Durgapur



15/05/23




15/05/23

PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date: 15/05/23


18/5/23
Prof. C.M. Hossain
M.A.C.A.D.T.



A Project Report On

A review of antisense therapy and biological targets for asthma

Submitted by –

Swarup Chatterjee

University Regn. No – 037137 of 2019-20

Roll No- 18901919064

Under the guidance of

Mr. Sagar Sengupta

Associate Professor

In partial fulfillment of the requirement for the Degree of

Bachelor Of Pharmacy

Submitted to –

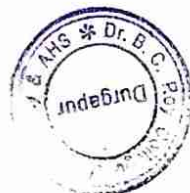
Maulana Abul Kalam Azad University Of Technology


West Bengal

Dr. B. C. Roy college Of Pharmacy And Allied Health Sciences

Durgapur 713206

Academic Year : 2022-2023




Prof. (Dr.) Sumir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that project entitled "**A review of antisense therapy and biological targets for asthma** " in partial fulfillment of the requirement for the award of Bachelor Of Pharmacy submitted to **Maulana Abul Kalam Azad University Of Technology , West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Mr. Sagar Sengupta** .

The matter embodied in this project has not been submitted for the award of any other degree or diploma to any University / Institution .

Swarup Chatterjee.

Signature

Name of candidate –SWARUP CHATTERJEE

Roll No. 18901919064

Date – 15/5/2023

Place : Durgapur

Sagar Sengupta
10/11/23



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that project entitled "A review of antisense therapy and biological targets for asthma " By SWARUP CHATTERJEE in partial fulfillment of the requirement for the award of Bachelor Of Pharmacy submitted to Maulana Abul Kalam Azad University Of Technology , West Bengal, Is a record of the original research work under our supervision and upto our satisfaction . To my knowledge , neither his thesis is forwarded to Controller of Examination Mulana Abul Kalam Azad University Of Technology for assessment .

SWARUP CHATTERJEE
15/05/2023

Signature of guide

Name –Mr. Sagar Sengupta

Date – 15/5/2023

Place – Durgapur

Sagar Sengupta
15/5/23

PROF (DR) SAMIR KUMAR SAMANTA

(PRINCIPAL)

Date – 15/5/2023

Place – Durgapur

Samir Kumar Samanta
15/5/23

Signature

Name of the External Examiner

Date –

Place – Durgapur

M. Hossain
18/5/23

Prof. C. M. Hossain
MAKAUT, WB



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (I.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A

Project Report on

A SURVEY ON PRESCRIPTION ERRORS ON TERTIARY CARE HOSPITALS

SOURAV GHOSH

University Regn. No. -037122 of 2019-2020

Roll No. -18901919066

Under the guidance of

Mr. SAGAR SENGUPTA

ASSOCIATE PROFESSOR

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy


Submitted to Mr. Sagar Sengupta

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 - 2023




18/11/23
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "A SURVEY ON PRESCRIPTION ERRORS ON TERTIARY CARE HOSPITALS" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Mr. Sagar Sengupta**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.



Signature

Name of Candidate: **Sourav Ghosh**

Roll No: **18901919066**

Date: **15/05/23**

Place: **Durgapur**



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "A SURVEY ON PRESCRIPTION ERRORS ON TERTIARY CARE HOSPITALS" by Sourav Ghosh in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.


15/05/23

Signature of Supervisor

Name of Supervisor: Mr. Sagar Sengupta

Date: 15/05/23

Place: Durgapur


Signature

PROF (DR.) SAMIR KR.


SAMANTA

(PRINCIPAL)

Date: 15/05/23

Place: Durgapur




18/5/23
Prof. C.M. Hussain, MAKAUT.




15/05/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J. U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

SCREENING OF ANTI-INFLAMMATORY ACTIVITY USING OYSTER MEAT EXTRACT

Submitted by
WASHIM AKTAR

University Reg. No. -037114 of 2019-20
Roll No. -18901919067

Under the guidance of
Mrs. JAYITA MONDAL
(ASSISTANT PROFESSOR)


In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur, 713206

Academic Year: 2022 - 2023




Prof. (Dr.) Samit Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "*Screening of anti-inflammatory activity using oyster meat extract*" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me, under the guidance of **Mrs. Jayita Mondal**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Washim Aktar 15.05.23

Signature

Name of Candidate: Washim Aktar

Roll no: 18901919067

Date :15/05/2023

Place : Durgapur

 15/05/23



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "*Screening of anti-inflammatory activity using oyster meat extract*" by Washim Aktar in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Jayita Mondal 15/5/23

Signature of Guide

Name of Guide: Mrs. JAYITA MONDAL

Date: 15/05/2023

Place: Durgapur

16/5/23
PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date: 15/05/2023

Place: Durgapur

Signature

Name of External Examiner:

Date: 15/05/2023

Place: Durgapur



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

CURCUMIN AND ITS DERIVATIVES: A HOLISTIC TREATMENT FOR ALZHEIMER'S DISEASE

Submitted by

TRIDIB NAYEK

University Regn. No. -037104

Roll No. -18901919068

Under the guidance of

Mrs PUJA MISHRA

Assistant Professor of

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 - 2023



*Prof. (Dr.) Sakir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206*

DECLARATION

I hereby declare that the Project entitled "**Curcumin And Its Derivatives: A Holistic Treatment For Alzheimer's Disease**" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Mrs. Puja Mishra**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Tridib Nayek
Signature

Name of Candidate: Tridib Nayek

Roll no.: 18901919068

Date: 15/05/2023

Place: Durgapur



Prof. (Dr.) Samir Kumar Samant
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



CERTIFICATE

This is to certify that the Project entitled "Curcumin And Its Derivatives: A Holistic Treatment For Alzheimer's Disease" by Tridib Nayek in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Prakash
15/05/23

Signature of Supervisor

Name of Supervisor: Mrs. Puja Mishra

Date: 15.05.23

Place: DURGAPUR

[Signature]
16/5/23

PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date:

Place:

[Signature]
18/05/23

Signature



[Signature]
18/05/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J. U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL.



A Project Report on :
**NUTRITIONAL REQUIREMENTS FOR THE
ELDERLY IN INDIA**

Submitted by : Krishnendu Bhowmick

University Regn. No. – 037099 of 2019-20

Roll No. -18901919069

Under the guidance of

Miss.Sanchree Mondal
Asst.prof

In partial fulfilment of the Requirement for the Degree of

Bachelor of Pharmacy

Submitted to :

Maulana Abul Kalam Azad University of Technology

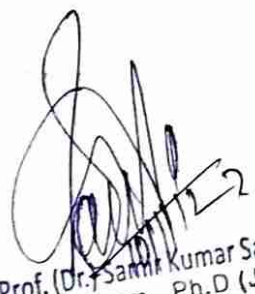
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur 713206

Academic Year: 2022 -23




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

There by declare that the Project entitled **“NUTRITIONAL REQUIREMENTS FOR THE ELDERLY IN INDIA”** In Partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, WestBengal**, is an authentic record of bona fide work carried out by me under the guidance of **Miss. Sanchree Mondal** , Assistant Professor, **Dr. B.C Roy College of Pharmacy & A.H.S.**

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Signature: Krishnendu Bhowmick

Name of Candidate: krishnenduBhowmick .

DATE: 16.05.23

PLACE:Durgapur .



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



CERTIFICATE

This is to certify that the Project entitled "NUTRITIONAL REQUIREMENTS FOR THE ELDERLY IN INDIA" by Krishnendu Bhowmik in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY.

Is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The report is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Signature of supervisor

Sanchree Mondal
16/5/23

Name of Supervisor: Miss. Sanchree Mondal.

Date:

Place: Durgapur.

[Signature]
18/5/23

PROF(DR.) Samir Kumar Samanta (PRINCIPAL)

Signature:



[Signature]
18/5/23
Dr. C. M. Hossain
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
H. Singhata, Nadia-741249

[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A

Project Report on
REVIEW ON MODERN APPLICATIONS OF DNA FINGERPRINTING

Submitted by

MD SAHIDUJJAMAN

Roll No. -18901919070

Under the guidance of

Dr. Abhik Si

Associate Professor

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to

MaulanaAbulKalam Azad University of Technology

West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur 713206

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled "DNA Finger-Printing: **REVIEW ON MORDEN APPLICATION OF DNA FINGERPRINTING** in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **MaulanaAbulKalam Azad University of Technology**, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of **Dr. Abhik Si**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Signature *Md. Sahidujjaman*

Name of Candidate: MD SAHIDUJJAMAN

Roll No: 18901919070

Date: 15/05/2023

Place: Durgapur

[Handwritten Signature]
10/11/23



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713205

CERTIFICATE

This is to certify that the Project entitled "DNA Finger-Printing: REVIEW ON MORDEN APPLICATION OF DNA FINGERPRINTING" by MD SAHIDUJJAMAN partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Abhik

Signature of Guide

Name of Guide: Dr. Abhik Si *Dr. Abhik S...*

Date: 15.05.2023

Place: *BCRCP, Durgapur*

[Signature]
PROF (DR.) SAMIR KUMAR SAMANTA
(PRINCIPAL)

Date:

Place:

Signature

Name of External Examiner:

Date:

Place:

[Signature]



[Signature]
Prof. *[Signature]* M. Hosseini
18/5/23
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A

Project Report on
**REVIEW ON MODERN APPLICATION OF DNA
MICROARRAYS**

Submitted by

SAYED ANOWAR

Roll No. -18901919071

Under the guidance of

Dr. Abhik Si

Associate Professor

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to

Maulana Abul Kalam Azad University of Technology


West Bengal

**Dr. B. C. Roy College of Pharmacy and Allied Health
Sciences**

Durgapur 713206

Academic Year: 2022 - 2023




Prof. Dr. Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & Allied Health Sciences
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled "REVIEW ON MODERN APPLICATION OF DNA MICROARRAYS" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Abhik Si.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Signature *Sayed Anowar*

Name of Candidate: SAYED ANOWAR

Roll No: 18901919071

Date: 15/05/2023

Place: Durgapur



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "MODERN APPLICATION OF DNA MICROARRAYS" by SAYED ANOWAR partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Abhik

Signature of Guide

Name of Guide: Dr. Abhik Si Dr. Abhik S.

Date: 15.05.2023.

Place: BCRCP, Durgapur.

Samir Kumar Samanta

PROF. (DR.) SAMIR KUMAR SAMANTA

(PRINCIPAL)

Date:

Place:

Signature

Name of External Examiner:

Date:

Place:



M. Hossein
18/5/23
Prof. C. M. Hossein,
MAKAUT, WB

Samir Kumar Samanta



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report
on



PREPARATION AND EVALUATION OF PARACETAMOL TABLET

Submitted by

SOMNATH SINGHA

University Regn. No. – 037053 of 2019-20.


Roll No. -18901919072

Under the guidance of
SURITA GOSH.
ASSISTANT PROFESSOR
Department of Pharmaceutics

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
**MaulanaAbulKalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206
Academic Year: 2021-2022**


Prof. (Dr.) Sanjit Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "PREPARATION AND EVALUATION OF PARACETAMOL TABLET" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to MaulanaAbulKalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of SURITA GOSH.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Somnath Singha.
Signature

Name of Candidate: SOMNATH SINGHA

Roll No: 18901919072.

Date: 12.05.2023

Place: Durgapur.



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



CERTIFICATE

This is to certify that the Project entitled "PREPARATION AND EVALUATION OF PARACETAMOL TABLET" by Somnath Singha in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Sureta Ghosh 12/05/2023

Signature of Supervisor

Name of Supervisor: SURITA GHOSH

Date: 12.05.2023

Place: Durgapur

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place:

Signature



Dr. C. M. Hossain
19/5/23
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741249



Prof. (Dr.) Samir Kumar Samanta
10/11/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Department of Pharmacy & AHS
Durgapur
Contact: 713206



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Report on

DEVELOP THE FORMULATION OF CHOLERA VACCINE

Submitted by
SUMANA PAL

University Reg. No. – 037021 of 2019-20
Roll No. - 18901919073

Under the guidance of
DR. SUBRATA CHAKRABORTY
(M. Pharm, Ph.D, FIC)
(Director of Dr. B.C. Roy College Of Pharmacy & Allied Health Science)


In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur, 713206

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Develop the Formulation of Cholera Vaccine" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me, under the guidance of Dr. Subrata Chakraborty.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Sumana Pal.

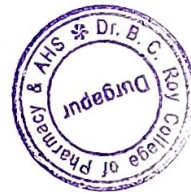
Signature

Name of Candidate: Sumana Pal

Roll no: 18901919071

Date: 15/05/2023

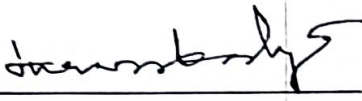
Place: Durgapur



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Develop the Formulation of Cholera Vaccine" by Sumana Pal in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.


 15/5/2023

Signature of Guide

Name of Guide: Dr. SUBRATA CHAKRABORTY
(DIRECTOR)

Date: 15/05/2023

Place: Durgapur


PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date: 15/05/2023

Place: Durgapur

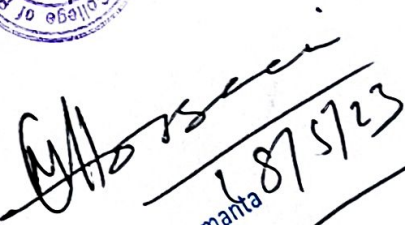
Signature

Name of External Examiner:

Date: 15/05/2023

Place: Durgapur




6/8/23

Dr. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on
NATURES POWER HOUSE ASHWAGANDHA

Submitted by

MOHITOSH PATRA
University Regn. No. -037008
Roll No. - 18901919074

Under the guidance of
Dr. AVIJIT CHATTERJEE

Professor of

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences


In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206
1 / Page

DECLARATION

This is to certify that the Project entitled " NATURES POWER HOUSE ASHWAGANDHA " In partial fulfillment of the requirement for the award of Bachelor of Pharmacy submitted to MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL, is an authentic record of bona fide work carried out by me under the guidance of Dr . AVIJIT CHATTERJEE.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Mohitosh Patra

SIGNATURE

Name of Candidate : MOHITOSH PATRA

ROLL NO : 18901919074

Date : 15/05/2023

Place : DURGAPUR



A handwritten signature in blue ink, appearing to read "Samir Kumar Samanta", with the date "15/05/23" written below it.

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "**NATURES POWER HOUSE ASHWAGANDHA**" by **MOHITOSH PATRA** in partial fulfillment for the **BACHELOR OF PHARMACY** under **MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY** is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination **MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY** for assessment.

Avijit Chatterjee
15/5/23

Signature of Guide

Name of Guide: (Dr.) AVIJIT CHATTERJEE

Date: 15/05/2023

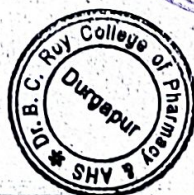
Place: DURGAPUR

Samir Kr Samanta
15/5/23

Prof. (Dr.) SAMIR KR SAMANTA
(PRINCIPLE)

Date : 15/05/2023

Place - DURGAPUR



Dr. C. M. Hossain
15/5/23



Dr. C. M. Hossain
Professor & Former Head
Department of Pharmaceutical Technology,
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology),
Haldia, Nadia-741249

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report
on

MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



REVIEW ON MODERN APPLICATION OF ELISA

Submitted by

RAJ ALI

University Regn. No. -036967 of 2019-20.

Roll No. -18901919075

Under the guidance of
Dr. Abhik Si.
Associate Professor

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206
Academic Year: 2022-2023

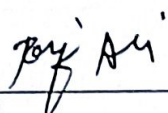



Prof. (Dr.) Sanjay Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "REVIEW ON MODERN APPLICATION OF ELISA" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Abhik Si.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.


Signature

Name of Candidate: RAJ ALI

Roll No:18901919075

Date:15/05/2023

Place:Durgapur


15/05/2023



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "REVIEW ON MODERN APPLICATION OF ELISA" by Raj All in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Supervisor

Name of Supervisor: Dr Abhik S.

Date: 15.05.2023.


Place: DERC, Durgapur.


PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date:

Place:

Signature


18/5/23

Prof- C. M. Hossain
MAKAUT

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & HPS
Durgapur, West Bengal-713206




18/5/23



A

Project Report on

Silicosis a disaster in coal yards of India: Recent update in therapeutics

Submitted by

Susovan Das

University Registration Number -036927 of 2019-20

University Roll Number - 18901919076

Under the guidance of

Dr. Aniruddha Mukherjee

Assistant professor

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur 713206

Academic Year: 2023 – 2024




Prof. (Dr.) Sanku Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled "Silicosis a disaster in coal yards of India: Recent update in therapeutics" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Aniruddha Mukherjee.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Signature *Susovan Das*

Name of Candidate: Susovan Das

Roll No: 18901919076

Date: 15.05.23

Place:



[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Silicosis a disaster in coal yards of India: Recent update in therapeutics" by Susovan Das in partial fulfilment for the BACHELOR OF PHARMACY (PHARMACOLOGY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Guide


Principal

Name of Guide: Dr. Aniruddha Mukherjee
Date: 15/5/23
Place: BCRCP

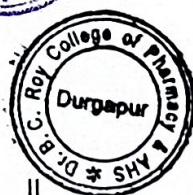
Prof (Dr.) Samir Kumar Samanta
Date:
Place:


Signature
Name of the External Examiner
Date:
Place:


18/5/23



Dr. C. M. Hossain
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741249




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

**A REVIEW - ON ROLE OF EXTRACT OF
CLITORIA TERNATEA ON CNS DISORDER**

Submitted by

SARMISTHA MONDAL

University Regn. No. - 036897

Roll No. - 18901919077


Under the guidance of
Mrs. Sushruta Chakraborty
Assistant Professor

In partial fulfillment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health
Sciences
Durgapur 713206
Academic Year: 2022 - 2023**




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "A REVIEW - ON ROLE OF EXTRACT OF CLITORIA TERNATEA ON CNS DISORDER" in partial fulfillment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Mrs. Sushruta Chakraborty.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Sarmistha Mondal

Signature

Name of Candidate: Sarmistha Mondal

Roll No: 18901919077

Date: 15.5.23

Place: Durgapur



[Handwritten signature]
15/5/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "A REVIEW - ON ROLE OF EXTRACT OF CLITORIA TERNATEA ON CNS DISORDER" by Sarmistha Mondal in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.


Signature of Supervisor

Name of Supervisor: SUSHRUTA CHAKRABORTY
Date: 15/05/23
Place: Durgapur

Signature

PROF. (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date:

Place:



Dr. C. M. Hossain
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadua-741249

2




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713205

MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A

Project Report on

**“A rapid and efficient DNA extraction protocol from
fresh rodent blood samples”**

Submitted by

SUDIP MONDAL

University Regn. No. 036887

University Roll No. - 18901919078

Under the guidance of

Dr. Sagarika Deepthy Tallapragada

M.Pharm., Ph. D., Assistant Professor

Department of Pharmacology

In partial fulfillment of the Requirement for the Degree of

Bachelor of Pharmacy


Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 - 2023




Prof. (Dr.) Sanku Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled "A rapid and efficient DNA extraction protocol from fresh rodent blood samples" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Sagarika Deepthy Tallapragada, M.Pharm., Ph. D., Assistant Professor, Department of Pharmacology, Dr. B. C. Roy College of Pharmacy & A.H.S.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Sudip Mondal

Signature

Name of Candidate: **SUDIP MONDAL**

Roll No: **18901919078**

Date: **16.05.2023**

Place: **Durgapur**



[Handwritten signature]
10/11/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "A rapid and efficient DNA extraction protocol from fresh rodent blood samples" by Sudip Mondal in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Dr. Sagarika Deepthy - T

Signature of Guide **Dr. Sagarika Deepthy Mallapragada**

Name of Guide: **Dr. Sagarika Deepthy Mallapragada, M.Pharm., Ph. D., Assistant Professor**

Professor Department of **Department of Pharmacology**
Dr. B. C. Roy College of Pharmacy & AHS

Date:

Durgapur-713206

Place:

[Signature]
19/5/23

Prof. Dr. Samir kr. Samanta

(PRINCIPAL)

Date:

Place:



Dr. C. M. Hossain
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741249

[Signature]
19/5/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Signature of External Examiner

Date:

Place:



[Signature]
19/5/23



A

Project Report on
**IMPROVEMENT OF SOLUBILITY AND
DISSOLUTION OF ACECLOFENAC BY SOLID
DISPERSION TECHNIQUE**

Submitted by

SUBHANKAR PAL

University Regn. No. -036879 of 2019-20

Roll No. -18901919079

Under the supervision of

Prof. (Dr.) Santanu Chakraborty

M. Pharm., Ph.D., FIC

Divisional In-charge, Pharmaceutics

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022-2023



*Prof. (Dr.) Santanu Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206*

DECLARATION

This is to certify that the Project entitled "Improvement of Solubility and Dissolution of Aceclofenac by Solid Dispersion Technique" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Prof. (Dr.) Santanu Chakraborty, Professor and Divisional In-charge, Pharmaceutics, Dr. B. C. Roy College of Pharmacy & AHS, Durgapur, West Bengal.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Subhankar Pal
Signature

Name of Candidate: Subhankar Pal

Roll No: 18901919079



A handwritten signature in blue ink, appearing to be "Samir Kumar Samanta".

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Improvement of Solubility and Dissolution of Aceclofenac by Solid Dispersion Technique" by Subhankar Pal in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

S. Chakraborty 15/5/23
Signature of Guide

Prof. (Dr.) Santanu Chakraborty
M.Pharm., Ph.D., FIC
Divisional Director (Dr.) Santanu Chakraborty
Dr. B. C. Roy College of Pharmacy & AHS
Date: DIC, Pharmaceutics Division
Place: Dr. B. C. Roy College of Pharmacy and AHS
Kishoreganagar, Durgapur-713206

Samir Kumar Samanta 16/5/23
Prof. (Dr.) Samir Kumar Samanta
Principal
Dr. B. C. Roy College of Pharmacy & AHS.
Date:
Place:

Signature
(External)
Date:
Place:

Subhankar Pal 15/5/23

Subhankar Pal 15/5/23



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY
WEST BENGAL



A

Project Report on

**“A rapid and efficient DNA extraction protocol from
fresh rodent blood samples”**

Submitted by

KOUSHIK DAS

University Regn. No. 036877

University Roll No. - 18901919080

Under the guidance of

Dr. Sagarika Deepthy Tallapragada

M.Pharm., Ph. D., Assistant Professor

Department of Pharmacology

In partial fulfillment of the Requirement for the Degree of

Bachelor of Pharmacy

Submitted to


**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 - 2023



1


Dr. (Dr.) Sagarika Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled "A rapid and efficient DNA extraction protocol from fresh rodent blood samples" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Sagarika Deepthy Tallapragada, M.Pharm., Ph. D., Assistant Professor, Department of Pharmacology, Dr. B. C. Roy College of Pharmacy & A.H.S.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Koushik Das

Signature

Name of Candidate: **KOUSHIK DAS**

Roll No: **18901919080**

Date: **16/5/23**

Place: **Durgapur**



[Handwritten signature]
16/5/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "A rapid and efficient DNA extraction protocol from fresh rodent blood samples" by Koushik Das in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Dr. Sagarika Deepthy .T

Signature of Guide **Dr. Sagarika Deepthy Tallapragada**
M. Pharm., Ph.D

Name of Guide: **Dr. Sagarika Deepthy Tallapragada, M.Pharm., Ph. D., Assistant**

Professor Department of **Pharmacology**
Dr. B. C. Roy College of Pharmacy & AHS

Date: **Durgapur-713206**

Place:

[Signature]
17/5/23

Prof. Dr. Samir kr. Samanta

(PRINCIPAL)

Date:

Place:

[Signature]
Dr. C. M. Hossain 17/5/23
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741249

Signature of External Examiner

Date:

Place:

[Signature]
10/11/22



Prof. (Dr.) Samir
M. Pharm., Ph.D
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



**“REVIEW ON METALLIC NANOPARTICLES
IN DRUG DELIVERY SYSTEM”**

Submitted by

ISHIKA DEY

University Regn. No- 036869

RollNo.-18901919081

Under the guidance of

RITUPARNA CHAKI GHOSH

ASSISTANT PROFESSOR

In partial fulfilment of the Requirement for the Degree of

Bachelor of Pharmacy

Submitted to.....

**Maulana Abul Kalam Azad University of Technology,
West Bengal**

Dr.B.C.Roy College of Pharmacy and Allied Health Sciences

Durgapur-713206

Academic Year:2022-2023



*Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206*

DECLARATION

I hereby declare that the Project entitled “Review on Metallic Nanoparticles in Drug Delivery System” in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of RITUPARNA CHAKI GHOSH, Assistant Professor, Dr. B.C Roy College of Pharmacy & A.H.S.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Ishika Deey.

Signature

Name of Candidate: **ISHIKA DEY**

Roll No: **18901919081**

Date: *15/05/2023*

Place: *Durgapur.*



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Review on Metallic Nanoparticles in Drug Delivery System" by Ishika Dey in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Rituparna 15/05/2023

Signature of Supervisor

Name of Supervisor: ASSIS. PROF. RITUPARNA CHAKI GHOSH

Date: 15/05/2023

Place: Durgapur.

[Signature]

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place:

[Signature]
[Signature]

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph. D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713026





A
Project Report on

**A SHORT REVIEW ON THE ROLE OF
PHYTOCHEMICALS ACTING ON
ALZHEIMER'S DISEASE**

Submitted by

SUDIP MAJI

University Regn. No. - 036865

Roll No. - 18901919082

Under the guidance of
Mr. SOUMYA MITRA
Assistant Professor of

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences


In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2022-2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHIS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled "A SHORT REVIEW ON THE ROLE OF PHYTOCHEMICALS ACTING ON ALZHEIMER'S DISEASE " in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL, is an authentic record of bona fide work carried out by me under the guidance of Mr. SOUMYA MITRA.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Sudip Maji

SIGNATURE


Name of Candidate : SUDIP MAJI

ROLL NO : 18901919082

Date : 15/05/2023

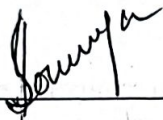
Place : DURGAPUR




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled " A SHORT REVIEW ON THE ROLE OF PHYTOCHEMICALS ACTING ON ALZHEIMER'S DISEASE " by SUDIP MAJI in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Guide

Name of Guide: (Mr.) SOUMYA MITRA

Date: 15/05/2023

Place: DURGAPUR



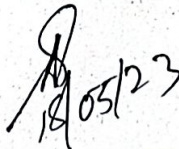
Prof. (Dr.) SAMIR KR SAMANTA

(PRINCIPLE)

Date : 15/05/2023

Place - DURGAPUR

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principi
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 741006





A

Project Report on

DISEASES DUE TO WRONG BODY POSTURES

Submitted by

RAHUL MALLICK

University Registration No. – 036405 OF 2019-20

Roll No. -18901919083

Under the guidance of

MS. SANCHAREE MONDAL

Assistant Professor of

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy


Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 - 2023




Prof. (Dr.) Sakshi Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled "**DISEASES DUE TO WRONG BODYPOSTURES**" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL**, is an authentic record of bona fide work carried out by me under the guidance of **MS. SANCHAREE MONDAL**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Rahul Mallick.

SIGNATURE

Name of Candidate : RAHUL MALLICK .

ROLL NO : 18901919083

Date : 15/05/2023

Place : DURGAPUR



[Handwritten signature]

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "DISEASES DUE TO WRONG BODY POSTURES" by RAHUL MALLICK in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and upto our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

 15/5/23

Signature of Guide

Name of Guide: MS. SANCHAREE MONDAL

Date: 15/05/2023

Place: DURGAPUR

 15/5/23

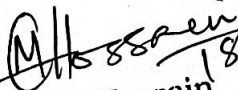
Prof. (Dr.) SAMIR KR SAMANTA

(PRINCIPLE)

Date : 15/05/2023

Place – DURGAPUR



 15/5/23
Dr. C. M. Hossain

Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741249

Prof. (Dr.) Samir Mondal
M. Pharm., Ph.D (S.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Signature of External

Date: 15/05/2023

Place: DURGAPUR







PROJECT REPORT

**EXTRACTION: A SENSITIVE PROCESS IN OBTAINING
SECONDARY METABOLITES FROM HERBS**

SUBMITTED BY
SAYANTA SINGHA

University reg no. 036342 of 2019-20

Under the guidance of

Prof. Ashoke Kumar Ghosh, M. Pharm, Ph.D.

In partial fulfilment of the requirement for the Degree
of

BACHELOR OF PHARMACY

Submitted to

Maulana Abul Kalam Azad University of Technology


West Bengal

**Dr. B.C. Roy College of Pharmacy & Allied Health
Sciences**

Durgapur 713206

Academic Year: 2022-2023 : season - 2019-2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B.C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Extraction: A Sensitive Process in Obtaining Secondary Metabolites from Herbs" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Prof. Ashoke Kumar Ghosh, M. Pharm, Ph.D. of Dr. B.C Roy College of Pharmacy & A.H.S, Durgapur.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Name of Student: SAYANTA SINGHA

Signature: Sayanta Singha

DATE: 16/5/23

PLACE: DURGAPUR.



[Handwritten signature]
ii
16/5/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B.C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Extraction: A Sensitive Process in Obtaining Secondary Metabolites from Herbs" by Sayanta Singha, B. Pharm 8th Semester student, in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, Kolkata.

It is a record of the original research work under my supervision and up to my satisfaction. To my knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The report will be forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



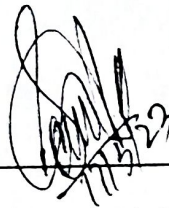
Signature of supervisor

Name of Supervisor: Prof. Ashoke Kumar Ghosh, M. Pharm, Ph.D.

Date: 16/5/23

Place: Durgapur

Signature: _____



Prof. Samir Kumar Samanta, Principal, M. Pharm, Ph.D.



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206





A
Project Report on


Immobilization of plastic degrading microorganism on polymeric nanoparticle for efficient plastic degradation

Submitted by
PRIYANGI GHOSAL
University Regn. No. – 036277
Roll No. -18901919087

Under the guidance of
MR. SANJOY KONAR
Assistant Professor
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal
Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206
Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled **“Immobilization of plastic degrading microorganism on polymeric nanoparticle for efficient plastic degradation”** in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Sir Sanjoy Konar**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Priyangi Ghosal.
Signature

Name of Candidate: PRIYANGI GHOSAL

Roll No: 18901919087

Date: 15.05.23

Place: Durgapur




Samir Kumar Sarmanta
15/05/23

Prof. (Dr.) Samir Kumar Sarmanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Immobilization of plastic degrading microorganism on polymeric nanoparticle for efficient plastic degradation" by Priyangi Ghosal in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.


15/05/2023

Signature of Supervisor

Name of Supervisor: Mr. Sanjoy Konar

Date: 15.05.23

Place: Durgapur


PROF. (DR.) SAMIR K.R. SAMANTA


(PRINCIPAL)

Date: 15.09.23

Place: Durgapur

Signature




15/09/23
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (U.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur



“HERBAL DRUGS IN THE TREATMENT OF NON-ALCOHOLIC FATTY LIVER DISEASE (NAFLD)”

Submitted by

ROHIT CHATTERJEE

University Regn. No- 036268

Roll No. -18901919088

Under the guidance of

SOUMYA MITRA

ASSISTANT PROFESSOR

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to.....

Maulana Abul Kalam Azad University of Technology, West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur-713206

Academic Year:2022-2023



[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (U.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled "**Herbal Drugs in the treatment of non-alcoholic fatty liver disease**" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **SOUMYA MITRA**, Assistant Professor, Dr. B.C Roy College of Pharmacy & A.H.S.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Rohit Chatterjee

Signature

Name of Candidate: **ROHIT CHATTERJEE**

Roll No: **18901919088**

Date: 15.05.2023

Place: Durgapur

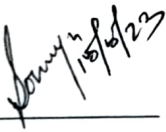




Prof. (Dr.) Samir Kumar Samanta
M. Pharm. (D. J.)

CERTIFICATE

This is to certify that the Project entitled “Herbal Drugs in the treatment of non-alcoholic fatty liver disease” by Rohit Chatterjee in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Supervisor

Name of Supervisor: ASSIS.PROF. SOUMYA MITRA

Date: 15.05.2023

Place: Durgapur




PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place:






Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J. U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

MICROSPONGE DRUG DELIVERY SYSTEM

Submitted by

JAGADISH SHIL

University Regn. No. -036249 of 2019-20

Roll No. -18901919089

Under the guidance of
Mr. Saptarshi Dutta
Assistant Professor


In partial fulfillment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2022 - 2023




Prof. Dr. Suman Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

There by declare that the Project entitled “**Microsponge Drug Delivery System**” in partial fulfillment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bonafide work carried out by me under the guidance of Mr. Saptarshi Dutta, Assistant Professor, Dr. B.C Roy College of Pharmacy & A.H.S.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Signature: Jogadish Shil

Name of Candidate: Jagadish Shil

University Roll No: 18901919089

Date: 15/05/2023

Place: Durgapur



M. Hossain
Dr. C. M. Hossain 18/5/23
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haranghata, Nadia-741249

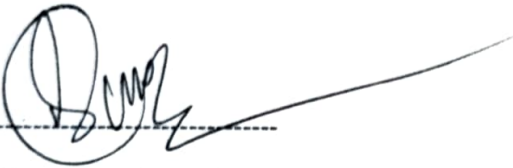


Jogadish Shil
10/11/23
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (U.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled " Microsponge Drug Delivery System" by Jagadish Shil in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY

Is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The report is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Supervisor

Name of Supervisor: Mr. Saptarshi Dutta

Date: 15/05/2023

Place: Durgapur



PROF.(DR.) Samir Kumar Samanta(PRINCIPAL)



Date: 15/05/2023

Place: Durgapur



Signature



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A

**Project Report on
ISOLATION AND PRELIMINARY CHARACTERIZATION OF
ALKALOIDS FROM AQUEOUS EXTRACT OF *Cuscuta reflexa*.**

**Submitted by
MANOJ MANA**

**University Regn. No. -036190 of
2019-20**

**Roll No. -18901919090
YEAR-4TH YEAR**

**Under the guidance of
DR. SOUVIK BASAK
Associate Professor**

**In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy**


Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur, 713206**

Academic Year: 2023-2024




Prof. (Dr.) Sanjit Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "**ISOLATION AND PRELIMINARY CHARACTERIZATION OF ALKALOIDS FROM AQUEOUS EXTRACT OF *Cuscuta reflexa*.**" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Dr. SOUVIK BASAK**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Manoj Mana
Signature

Name of Candidate: **MANOJ MANA**

Roll No:

18901919090

Date: **15/05/2023**

Place: **DURGAPUR**



Prof. (Dr.) Samir Kumar Dasgupta
M. Pharm., Ph.D. (U.S.A.)
Principal
Dr. B. C. Roy College of Pharmacy, Durgapur,
Durgapur, West Bengal-713002



CERTIFICATE

This is to certify that the Project entitled "ISOLATION AND PRELIMINARY CHARACTERIZATION OF ALKALOIDS FROM AQUEOUS EXTRACT OF *Cuscuta reflexa*." by MANOJ MANA in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Souvik Basak

Signature of Supervisor

Name of Supervisor: DR. SOUVIK BASAK

Date: 15/05/2023

Place:

Samir Kumar Samanta
Principal

Prof(Dr.) Samir Kumar Samanta

Date:

Place:

Signature
Name of the External Examiner

Date:

Place:

Samir Kumar Samanta
15/05/23



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713205

Samir Kumar Samanta
15/05/23



A
Project Report on
“A REVIEW ON E-PHARMACY”

Submitted by

SAHADEV DAS

University Regn. No.- 036135 of 2019-20

Roll No. -18901919091

Under the guidance of
SUDIPTA BAUR
Assistant Professor


In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2022 - 2023




Prof. (Dr.) Sahir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "A review on E-Pharmacy" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **SUDIPTA BAUR**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Sahadev DAS

Signature

NAME OF THE CANDIDATE! - SAHADEV DAS

ROLL NO! - 18201919001

DATE! - 15.05.2023

PLACE! - Durgapur.



Prof. (Dr.) Sanjit Kumar Samanta
M. Pharm., Ph. D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "A review on E-Pharmacy" by Sahadev Das in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

S Baur

Signature of Supervisor

Name of Supervisor: MR. SUDIPTA BAUR.

Date: 15/05/2023

Place: Durgapur

PROF (DR.) SAMIR KR. SAMANTA.
(PRINCIPAL)

Date:

Place:

Signature

19/05/23



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., F. C. D. (U. U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

A REVIEW - ON ROLE OF EXTRACT OF CLITORIA TERNATEA ON CNS DISORDER

Submitted by

JAYITA PAL

University Regn. No. – 036149

Roll No. - 18901919092

Under the guidance of

Mrs. Sushruta Chakraborty

Assistant Professor

In partial fulfillment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to


**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health
Sciences**

Durgapur 713206

Academic Year: 2022 – 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "A REVIEW - ON ROLE OF EXTRACT OF CLITORIA TERNATEA ON CNS DISORDER" in partial fulfillment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Mrs. Sushruta Chakraborty.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Jayita Pal

Signature

Name of Candidate: Jayita Pal

Roll No: 18901919092

Date: 15.5.2023

Place: Durgapur

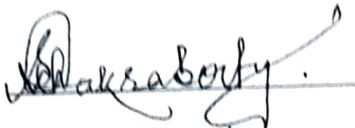

10/11/23



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "A REVIEW - ON ROLE OF EXTRACT OF CLITORIA TERNATEA ON CNS DISORDER" by Jayita Pal in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Supervisor

Name of Supervisor: GUSHRUTA CHAKRABORTY

Date: 15/05/23

Place: Durgapur.



Signature

PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date:

Place:



Dr. C. M. Hossain
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741249



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph. D. (U.U.)
Principal
Department of Pharmacy & AHS
Durgapur, West Bengal-713206

A
PROJECT REPORT ON
DIFFERENT METHOD OF STERLIZATION

P.T - 883

submitted by

Name – **Shreya Datta**

University Reg.No-036082 of 2019-2020

University Roll No.-**18901919093**

under the guidance of

Dr. Subrata Chakraborty

**Director of Dr. B.C Roy College of Pharmacy and
A.H.S**

In partial fulfillment of the Requirement for the

Degree of

Bachelor of Pharmacy

Submitted to

**MAULANA ABUL KALAM AZAD UNIVERSITY OF
TECHNOLOGY**


West Bengal

Dr. B.C Roy College of Pharmacy and Allied Health
Sciences

Durgapur 713206

Academic Year : 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the project entitled " Different methods of sterilization" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Moulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of project work carried out by me under the guidance of Dr. SUBRATA CHAKRABORTY, Director of B.C. Roy College of Pharmacy and A.H.S. The matter embodied in this project has not been submitted for the award of any other degree or diploma to any university/ Institution.

Shreyo Datta

NAME OF THE STUDENT

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (U.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713205



CERTIFICATE

This is to certify that the project entitled " Different methods of sterilization" by SHREYA DATTA in partial fulfilment for the Bachelor of Pharmacy under MOULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original project work under our supervision and up to our satisfaction. To our knowledge, neither her thesis nor any part of it has been submitted for any other academic award anywhere before.

The thesis is forwarded to controller of examination MOULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Shreya Datta
NAME OF THE STUDENT

Jayashree
NAME OF THE GUIDE

[Signature]
NAME OF THE PRINCIPAL

[Signature]
10/11/23



[Signature]
18/9/23
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (U.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 713206





A

Project Report on
**PROS AND CONS OF DIGITAL AND MANUAL
SPHYNOMOMANOMETER**

Submitted by

PRIYAM KUMAR GIRI

University Regn. No.-035959 OF 2019-20

Roll No. -18901919094

Under the guidance of

DR. AVIJIT CHATTERJEE

ASSISTANT PROFESSOR

In partial fulfilment of the Requirement for the Degree of

Bachelor of Pharmacy

Submitted to

Maulana Abul Kalam Azad University of Technology


West Bengal

DR. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur- 713206

Academic Year: 2022-2023




Prof. (Dr.) Sankar Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled "PROS AND CONS OF DIGITAL AND MANUAL SPHYGMOMANOMETER" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of DR. AVIJIT CHATTERJEE.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Priyam Kumar Giri

Signature

Name of Candidate: PRIYAM KUMAR GIRI

Roll No: 18901919094

Date: 15/05/2023

Place: DURGAPUR



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



CERTIFICATE

This is to certify that the Project entitled " PROS AND CONS OF DIGITAL AND MANUAL SPHYGMOMANOMETER " by PRIYAM KUMAR GIRI in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original practical work under our supervision and up to our satisfaction. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Avijit Chatterjee
15/5/23

Signature of Guide

Name of Guide: DR. AVIJIT CHATTERJEE

Date: 15/05/2023

Place: DURGAPUR

Samir Kumar Samanta
15/5/23

PROF. (Dr.) SAMIR KUMAR SAMANTA (PRINCIPAL)

Date: 15/05/2023

Place: DURGAPUR

C. M. Hossain
18/5/23



Utech
University of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)

Dr. C. M. Hossain

Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
Haringhata, Nadia-741249

Signature

Name of External Examiner:

Date:

Place:



Prof. (Dr.) Samir Kumar Samanta
Pharm., Ph.D (J.U.)
Principal
College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

A REVIEW ON TABLET BINDER

Submitted by

RAJAT SAMAI

University Regn. No. -035782

Roll No. - 18901919095

Under the guidance of

Mr. INDRAJIT CHAND

ASSISTANT Professor of

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy


Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 - 2023




Prof. (Dr.) Sakir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

There by declare that the Project entitled "**REVIEW ON TABLET BINDER**" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bonafide work carried out by me under the guidance of **MR . INDRAJIT CHAND**, Assistant Professor, Dr. B.C Roy College of Pharmacy & A.H.S.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Signature: Rajat Samai

Name of Candidate: RAJAT SAMAI

Date: 15/05/2023

PLACE : Durgapur.



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal 713249

CERTIFICATE

This is to certify that the Project entitled "A REVIEW ON TABLET BINDER" by **RAJAT SAMAI** in partial fulfilment for the **BACHELOR OF PHARMACY** under **MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY** is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination **MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY** for assessment.

Signature of Guide

Name of Guide: Mr. INDRAJIT CHAND

Date: 15/05/2023

Place: DURGAPUR

Prof. (Dr.) SAMIR KR SAMANTA



(PRINCIPLE)

Date : 15/05/2023

Place – DURGAPUR



Dr. C. M. Hossain 18/5/23
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741245

Prof. (Dr.) Samir Kumar
M. Pharm., Ph.D (J&T)
Principal
Dr. B. C. Roy College of Pharmacy
Durgapur, West Bengal-741245





A Project Report On

A preview on HPTLC-MS (High Performance Thin Layer Chromatography – Mass Spectrometry) as one of the finest analytical techniques

Submitted by –

Hirakdyuti Ganguly

University Regn. No – 035920 of 2019-20

Roll No- 18901919096

Under the guidance of

Mr. Ismail Mondal

Assistant Professor

In partial fulfillment of the requirement for the Degree of

Bachelor Of Pharmacy

Submitted to –

Maulana Abul Kalam Azad University Of Technology

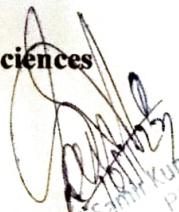
West Bengal

Dr. B. C. Roy college Of Pharmacy And Allied Health Sciences

Durgapur 713206

Academic Year : 2022-2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that project entitled "A preview on HPTLC-MS (High Performance Thin Layer Chromatography – Mass Spectrometry) as one of the finest analytical techniques" in partial fulfillment of the requirement for the award of Bachelor Of Pharmacy submitted to Maulana Abul Kalam Azad University Of Technology , West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Mr. Ismail Mondal.

The matter embodied in this project has not been submitted for the award of any other degree or diploma to any University / Institution .

Hirakdyuti Ganguly

Signature

Name of candidate – HIRAKDYUTI GANGULY

Roll No. 18901919096

Date – 15/5/2023

Place : Durgapur



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (G.D.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that project entitled "A preview on HPTLC-MS (High Performance Thin Layer Chromatography – Mass Spectrometry) as one of the finest analytical techniques)" By HIRAKDYUTI GANGULY in partial fulfillment of the requirement for the award of Bachelor Of Pharmacy submitted to Maulana Abul Kalam Azad University Of Technology , West Bengal, Is a record of the original research work under our supervision and up to our satisfaction . To my knowledge , neither his thesis is forwarded to Controller of Examination Maulana Abul Kalam Azad University Of Technology for assessment .

 15/05/23

Signature of guide

Name –Mr. Ismail Mondal
Assistant professor

Date – 15/5/2023

Place – Durgapur



PROF. (Dr.) SAMIR KUMAR SAMANTA
(PRINCIPAL)

Date – 15/5/2023

Place – Durgapur




Signature

Name of the External Examiner

Date –

Place – Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (I.U.)
Principal
Dr. B. C. Roy College of Pharmacy &
Durgapur, West Bengal-713002





MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Report on

**COMPARATIVE EVALUATION STUDY OF DIFFERENT
MARKETED IBUPROFEN TABLETS**

Submitted by
Indrajit Pal

University Regn. No. -035881 of 2019-2020
Roll No. -18901919097

Under the guidance of
Dr. Falguni Patra
Assistant Professor, BCRCP


In partial fulfilment of the Requirement for the Degree of
• **Bachelor of Pharmacy**

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 – 2023




Prof. Dr. Sanjiv Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "**Comparative Evaluation Study Of Different Marketed Ibuprofen Tablets**" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Dr. Falguni Patra**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Indrajit pal
Signature

Name of Candidate: Indrajit Pal

Roll No:18901919097

Date:15.05.2023

Place:Durgapur



Prof. (Dr.) Samir Kumar Sinha
M. Pharm., Ph.D. (U.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled “Comparative Evaluation Study Of Different Marketed Ibuprofen Tablets” by **Indrajit Pal** in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

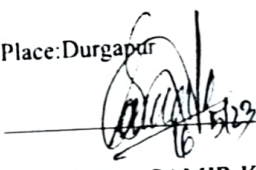

15/5/2023

Signature of Supervisor

Name of Supervisor: Dr. Falguni Patra.

Date: 15.05.2023

Place: Durgapur


6/5/23

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date: 15.05.2023

Place: Durgapur

Signature





Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206


15/5/23



A
Project Report on

REVIEW ON NEW APPROACHES TO PHARMACEUTICAL COATING

Submitted by

SANGRAM RAKSHIT

University Regn. No. -035873 OF 2019-20

Roll No. - 18901919098

Under the guidance of
Mr. Indrajit Chand
Assistant Professor


In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206



Academic Year: 2021 - 2022


Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "A review on New approaches to Pharmaceutical Coating" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Mr. Indrajit Chand**, Assistant Professor of Dr. B.C Roy College Of Pharmacy & A.H.S

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Sangram Rakshit
Signature

Name of Candidate: Sangram Rakshit

University Roll: 18901919098

Date: 16.05.2023

Place: Durgapur .




[Handwritten Signature]
10/11/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "A Review On New Approaches to Pharmaceutical Coating" by SANGRAM RAKSHIT in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Supervisor

Name of Supervisor: *Indrajit Chandra*

Date: *15.05.23*

Place: *Durgapur*

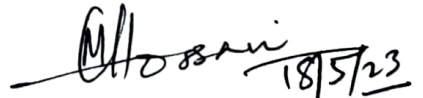


PROF (DR.) SAMIR K.R. SAMANTA
(PRINCIPAL)

Date:

Place:

Signature



Dr. C. M. Hossain

Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741249



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY
WEST BENGAL



A
Project Report on

Synthesis and Characterization of Low-Methoxyl- Pectin Tamarind Gum Based Composite Films

Submitted by
RAJAT DANDAPAT
University Regn. No. – 035842 of 2019-20
Roll No. - 18901919099

Under the guidance of
Mr. Sudipta Baur
Assistant Professor
Dr. B. C. Roy College of Pharmacy & AHS

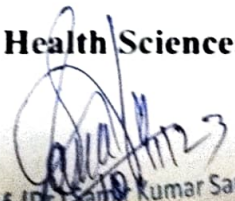
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2022 - 2023




Prof. (Dr.) Sanjay Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "**Synthesis and Characterization of Low-Methoxyl-Pectin Tamarind Gum Based Composite Films**" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Mr. Sudipta Baur**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Rajat Dandapat

(Signature)

Name of Candidate: **RAJAT DANDAPAT**

University Roll No: **18901919099**

Date: 15/05/2023

Place: Durgapur



A handwritten signature in blue ink, appearing to be "Rajat Dandapat".

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph. D. (C.P.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Synthesis and Characterization of Low-Methoxyl-Pectin Tamarind Gum Based Composite Films" by Rajat Dandapat in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.




Signature of Supervisor

Name of Supervisor: **Sudipta Baur**

Date: **15/05/2023**

Place: **Durgapuri**


Prof. **Samir Kr. Samanta**
(PRINCIPAL)

Date:

Place:

Signature



Prof. (Dr.) **Samir Kumar Samanta**
M. Pharm., Ph.D. (Pharm.)
Dr. B. G. Roy College of Pharmacy & H.P.
Durgapuri, West Bengal (741025)



A
Project Report on

CURCUMIN AND ITS DERIVATIVES: A HOLISTIC TREATMENT FOR ALZHEIMER'S DISEASE

Submitted by

MAINUL HASAN

University Regn. No. -035793 Of 2019-20

Roll No. -18901919100

Under the guidance of

Mrs PUJA MISHRA

Assistant Professor of

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 - 2023



*Prof. (Dr.) S. P. Samanta
M. Pharm., Ph.D. (U.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206*

DECLARATION

I hereby declare that the Project entitled "**Curcumin And Its Derivatives: A Holistic Treatment For Alzheimer's Disease**" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Mrs. Puja Mishra**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Mainul Hasan
Signature

Name of Candidate: Mainul Hasan

Roll no.: 18901919100

Date: 15/05/2023

Place: Durgapur




20/05/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (U. U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled **“Curcumin And Its Derivatives: A Holistic Treatment For Alzheimer’s Disease”** by **Mainul Hasan** in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Supervisor
15/05/23

Signature of Supervisor

Name of Supervisor: Mrs. Puja Mishra

Date: 15.05.23

Place: DURGAPUR

Principal
15/05/23

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

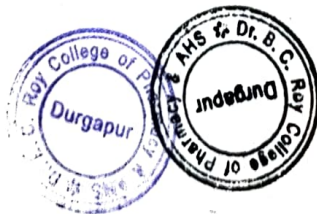
Date:

Place:

Signature

Principal
15/05/23

Principal
15/05/23



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J. U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713205



A
Project Reporton

2D-QSAR analyses on some Cariprazine based D2 receptor ligands using various feature selection techniques.

Submitted by

NIRUPAM PATTANAYAK

University Regn. No. – 035730

Roll No. -18901919101

Under the guidance of
Dr. AMIT KUMAR HALDER
M.PHARM., PhD
Associate Professor


In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
MaulanaAbulKalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2022 - 2023

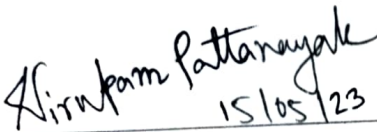



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "2D-QSAR analyses on some Cariprazine based D2 receptor ligands using various feature selection techniques" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Name of **Dr. Amit Kumar Halder**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.


Signature

Name of Candidate: NIRUPAM PATTANAYAK

RollNo:18901919101

Date: 15.05.2023

Place:Durgapur





Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & MHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "2D-QSAR analyses on some Cariprazine based D2 receptor ligands using various feature selection techniques" by Nirupam pattanayak in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Amit Kumar Halder 15/5/2023

Signature of Supervisor

Name of Supervisor: Dr. Amit Kumar Halder

Date: 15.05.2023

Place: Durgapur

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place: Durgapur

Signature

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (I. D.)
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



15/05/23

10/11/22





A

Project Report on

Novel drug in the treatment of malaria

Submitted by

Md Mainul Hassan

University Registration Number – 035766 of 2019-20

University Roll Number - 18901919102

Under the guidance of

Dr. Aniruddha Mukherjee

Assistant professor

In partial fulfilment of the Requirement for the Degree of

Bachelor of Pharmacy

Submitted to

Maulana Abul Kalam Azad University of Technology

West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur 713206

Academic Year: 2023 – 2024



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled "Novel drug in the treatment of malaria" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bonafide work carried out by me under the guidance of Dr. Aniruddha Mukherjee.

The matter embodied in this project has not been submitted for the award of any other degree or diploma to any University / Institution.

Md Mainul Hassan

Signature


Name of Candidate: Md Mainul Hassan

Roll No: 18901919102

Date: 15/05/2023

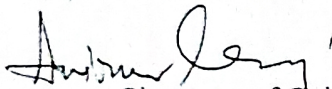
Place: Durgapur





Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Novel drug in the treatment of malaria" by Md Mainul Hassan in partial fulfilment for the BACHELOR OF PHARMACY (PHARMACOLOGY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.


Signature of Guide


Principal

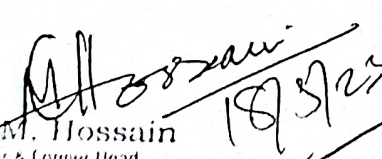
Name of Guide: Dr. Aniruddha Mukherjee
Date: 15/1/23
Place: BURCP

Prof (Dr.) Samir Kumar Samanta
Date:
Place:


Signature

Name of the External Examiner
Date:
Place:




Dr. C.M. Hossain
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741249




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal

Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

Extraction: A Sensitive Process in Obtaining Secondary Metabolites from Herbals

Submitted by

SANCHITA PODDER

University Regn. No. – 201890201920015 OF 2020-21
Roll No. – 18901920106

Under the guidance of
Prof. Ashoke Kumar Ghosh
M. Pharm, Ph.D.

In partial fulfilment of the requirement for the Degree of
Bachelor of Pharmacy

Submitted to

Maulana Abul Kalam Azad University of Technology
West Bengal


Prof. (Dr.) Ashoke Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206, Academic Year 2022-2023

DECLARATION

I hereby declare that the Project entitled "Extraction: Sensitive Process Obtaining Secondary Metabolites from Herbals" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal is an authentic record of bona fide work carried out by me under the supervision of Prof. Ashoke Kumar Ghosh, M. Pharm, Ph.D. of Dr. B.C Roy College Of Pharmacy & A.H.S, Durgapur. The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Sanchita Podder
Signature

Name of the Student: Sanchita Podder

University Roll: 189019120106

Date: 16.05.2023

Place: Durgapur


16/05/23



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Extraction: Sensitive Process in Obtaining Secondary Metabolites from Herbals" by SANCHITA PODDER in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, West Bengal is a record of the original research work under my supervision and up to my satisfaction. To my knowledge, neither her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of the Supervisor

Name of Supervisor: Prof. Ashoke Kumar Ghosh, M.Pharm, Ph.D.

Date: 16/5/23

Place: Durgapur

Prof. Samir Kumar Samanta
(PRINCIPAL)

Date:

Place:



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713208

16/5/23



A project Report On
**Comparative evaluation study of marketed
Metronidazole tablets**

Submitted By:

Subhajyoti Khamrui

University reg. No -201890201920014 OF 2020-21

Roll No -18901920107

Under the guidance of:

Dr. Falguni Patra

ASSISTANT PROFESSOR

In partial fulfilment of the requirement for the degree of

BACHELOR OF PHARMACY

Submitted to

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY


WEST BENGAL

Dr.B.C Roy College of Pharmacy and Allied Health Sciences

Durgapur 713206

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled "Comparative evaluation study of marketed metronidazole tablets" in partial fulfillment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bonafide work carried out by me under the guidance of Dr. Falguni Patra.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any university / Institution.

Subhajyoti Khamrui

Name of the Candidate: Subhajyoti Khamrui

Roll No: 18901920107

Date: 15/05/23

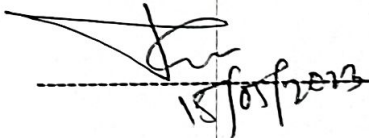
Place: Durgapur-



[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the project entitled "Comparative evaluation study of marketed metronidazole tablets" by Subhajyoti Khamrui in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his these is not any part of it has been submitted for any other academic award anywhere before. The these is forwarded to controller of examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



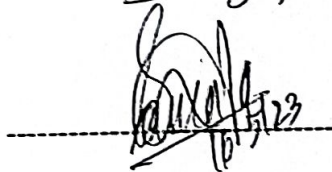
15/05/2023

Signature of Supervisor

Name of Supervisor: Dr. Falguni Patra

Date: 15/05/2023

Place: Durgapur

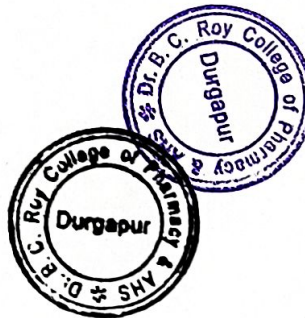




16/05/23

PROF. (DR.) SAMIR KR. SAMANTA

Date:

Place:




15/05/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

IMPORTANCE OF DATA INTEGRITY PHARMACEUTICAL DOCUMENTATION PROCESS

Submitted by
SOYED RANA

University Reg. No. – 201890201920013 of 2020-21
Roll No. -18901920108

Under the guidance of
Mr. ISMAIL MONDAL
(ASSISTANT PROFESSOR)

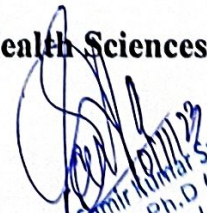
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur, 713206

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "**IMPORTANCE OF DATA INTEGRITY PHARMACEUTICAL DOCUMENTATION PROCESS**" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me, under the guidance of Mr. Ismail Mondal

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Soyed Rana.

Signature

Name of Candidate: Soyed Rana

Roll no: 18901920108

Date :15/05/2023

Place : Durgapur



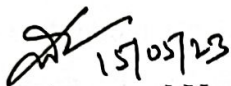
[Handwritten signature]

Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal

Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal


CERTIFICATE

This is to certify that the Thesis entitled "Importance of data Integrity Pharmaceutical Documentation Process" in partial fulfilment of the requirement for the award of the Degree of Bachelor of Pharmacy submitted to MaulanaAbulKalam Azad University of Technology, West Bengal, is an authentic record of bonafide work carried out by Mr. Soyed Rana Roll No. 18901920108 under my guidance.


Signature and Name of Guide
Mr. Ismail Mondal

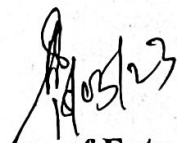
Date: 15/05/23

Place: Durgapur


Signature and Name of Principal
(PROF) (DR.) SAMIR KR. SAMANTA

Date:

Place: Durgapur


Signature and Name of External Examiner

Date:

Place:



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A Project Report

on

**DEVELOPMENT AND VALIDATION OF UV-
SPECTROPHOTOMETRIC METHOD FOR
SIMULTANEOUS ESTIMATION OF GLICLAZIDE
AND METFORMIN IN TABLET DOSAGE FORM.**

Submitted by

Boni Israil

University Regn. No. – 201890201920012 of 2020-21

Roll No. - 18901920109

Under the guidance of

Dr. Manabendra Dhua.

Assistant professor

Dr. B.C. Roy College of Pharmacy & AHS

In partial fulfillment of the requirement for the Degree of
Bachelor of Pharmacy

Submitted to:

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur - 713206**

2022 - 2023



*Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206*

DECLARATION

There by declare that the Project entitled "SIMULTANEOUS UV SPECTROPHOTOMETRIC METHOD FOR ESTIMATION OF GLYCLAZIDE & METFORMIN IN TABLET DOSAGES FORM" In Partial fulfillment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Manabendra Dhua, Assistant Professor, Dr. B.C. Roy College of Pharmacy & AHS.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

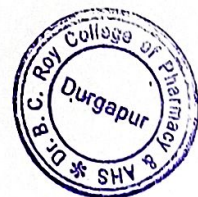
Signature: Boni Israil

Boni Israil
University Roll No: 18901920109

Date: 16.05.2023

Place: Durgapur

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



CERTIFICATE

This is to certify that the Project entitled "SIMULTANEOUS UV SPECTROPHOTOMETRIC METHOD FOR ESTIMATION OF GLYCLAZIDE & METFORMIN IN TABLET DOSAGES FORM" by Boni Israil in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The report is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



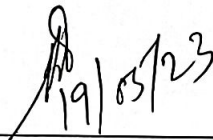
Signature of supervisor

Dr. Manabendra Dhua
Assistant Professor
Dr. B.C. Roy College of Pharmacy & AHS
Date: 16/05/2023
Place: Durgapur



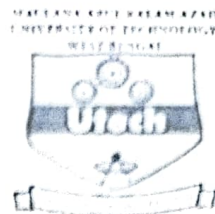
Prof. (Dr.) Samir Kumar Samanta
Principal
Dr. B.C. Roy College of Pharmacy & AHS
Date:
Place:

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B.C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



Signature
(External Examiner)





“COMPARATIVE EVALUATION STUDY OF MARKETED METFORMIN TABLETS”

Submitted by

SK SAIMA KHATUN

University Regn. No. -620011

Roll No. -18901920110

Under the guidance of

Dr. FALGUNI PATRA

ASSOCIATED PROFESSOR

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy


Submitted to

**Maulana Abul Kalam Azad University of Technology West
Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2021 - 2022




Prof. (Dr.) Sandhya Kumar Sananta
M. Pharm., Ph.D. (P.U.)
Durgapur
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal 713206 112

[Type here]

DECLARATION

I hereby declare that the Project entitled "**Comparative evaluation study of marketed metformin tablets**" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Dr. FALGUNI PATRA**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.


SK Saima Khatun
Signature

Name of Candidate: **SK SAIMA KHATUN**

RollNo: **18901920110**

15.8.23
Date: Place: **Durgapur**

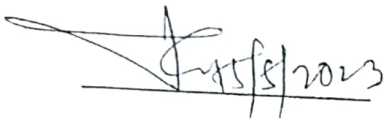



Prof. (Dr.) Samir Kumar Sarin
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713208

[Type here]

CERTIFICATE


This is to certify that the Project entitled "COMPARATIVE EVALUATION STUDY OF MARKETED METFORMIN TABLETS" by SK Saima Khatun in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Supervisor

Name of Supervisor:


Date: 15/5/2023

Place: Durgapur


PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Date:

Place:

Signature




15/5/23



A Project Report

on

**DEVELOPMENT AND VALIDATION OF UV-
SPECTROPHOTOMETRIC METHOD FOR
SIMULTANEOUS ESTIMATION OF GLICLAZIDE
AND METFORMIN IN TABLET DOSAGE FORM.**

Submitted by

Ramkrishna Mahata

University Regn. No. – 201890201920010 of 2020-21

Roll No. - 18901920111

Under the guidance of

Dr. Manabendra Dhua.

Assistant professor

Dr. B.C. Roy College of Pharmacy & AHS

In partial fulfillment of the requirement for the Degree of
Bachelor of Pharmacy

Submitted to:

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur - 713206**

2022 - 2023



[Signature]
Prof. (Dr.) Samit Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

There by declare that the Project entitled "SIMULTANEOUS UV SPECTROPHOTOMETRIC METHOD FOR ESTIMATION OF GLYCLAZIDE & METFORMIN IN TABLET DOSAGES FORM" In Partial fulfillment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Manabendra Dhua, Assistant Professor, Dr. B.C. Roy College of Pharmacy & AHS.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Signature: Ramkrishna Mahata

Ramkrishna Mahata
University Roll No: 18901920111

Date: 16.05.2023

Place: Durgapur

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206


10/11/23



CERTIFICATE

This is to certify that the Project entitled "SIMULTANEOUS UV SPECTROPHOTOMETRIC METHOD FOR ESTIMATION OF GLYCLAZIDE & METFORMIN IN TABLET DOSAGES FORM" by Ramkrishna Mahata in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The report is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of supervisor

Dr. Manabendra Dhua
Assistant Professor
Dr. B.C. Roy College of Pharmacy & AHS

Date: 16/05/23

Place: Durgapur


16/5/23

Prof. (Dr.) Samir Kumar Samanta
Principal
Dr. B.C. Roy College of Pharmacy & AHS

Date:

Place:




19/05/23

Signature
(External Examiner)



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713208


19/5/23



A Project Report On

DEVELOP THE FORMULATION OF TYPHOID VACCINE

Submitted By

MOUMITA DEBNATH

University Regn. No. -201890201920009

Roll No. -18901920112

Under The Guidance Of

Prof. Dr. SUBRATA CHAKRABORTY

(Director of Dr. B.C. Roy College Of Pharmacy & Allied Health Science)

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy


Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 – 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Develop the Formulation of Typhoid vaccine" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Prof. Dr. Subrata Chakraborty.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Moumita Debnath
Signature

Name of Candidate: Moumita Debnath

Roll No: 18901920112

Date: 15th May, 2023

Place: Durgapur



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph. D. (J. U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Develop the Formulation of Typhoid vaccine" by Moumita Debnath in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Samanta 15/5/2023

Signature of Supervisor

Name of Supervisor:

Date: 15/5/2023

Place: Durgapur.

Samanta

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place:

Signature

Prof. C. M. Hossain 15/5/2023

MAKAUT
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713208





MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A

Project Report on
**IMPROVEMENT OF SOLUBILITY AND
DISSOLUTION OF ACECLOFENAC BY SOLID
DISPERSION TECHNIQUE**

Submitted by

SUMAN SAW

University Regn. No. -20189020192008

Roll No. -18901920113

Under the supervision of

Ms. Manami Dhibar

M. Pharm.

Assistant Professor

Department of Pharmaceutics

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy


Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**



**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences Durgapur
713206**

Academic Year: 2022 - 2023


Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled "Improvement of Solubility and Dissolution of Aceclofenac by Solid Dispersion Technique" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Ms. Manami Dhibar Assistant Professor of Pharmaceutics, Dr. B. C. Roy College of Pharmacy & AHS, Durgapur, West Bengal.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Signature *Suman Saw*

Name of Candidate: Suman Saw

Roll No: 18901920113

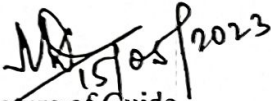


A handwritten signature in blue ink, appearing to read "Suman Saw", with the date "18/11/23" written below it.

Prof. (Dr.) Sanku Kumar Samanta
M. Pharm., Ph.D. (I.I.T.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713200

CERTIFICATE

This is to certify that the Project entitled "Improvement of Solubility and Dissolution of Aceclofenac by Solid Dispersion Technique" by Suman Saw in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.


Signature of Guide

Ms. Manami Dhibar


M.Pharm.,

Assistant professor, Pharmaceutics

Dr. B. C. Roy College of Pharmacy & AHS.

Date: 15.05.2023

Place: Durgapur


Prof. (Dr.) Samir Kumar Samanta

Principal

Dr. B. C. Roy College of Pharmacy & AHS.

Date:

Place:



Signature

(External)

Date:

Place:







Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (I.I.T.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY
WEST BENGAL



A Project Report

on

**DEVELOPMENT AND VALIDATION OF UV-
SPECTROPHOTOMETRIC METHOD FOR
SIMULTANEOUS ESTIMATION OF GLICLAZIDE
AND METFORMIN IN TABLET DOSAGE FORM.**

Submitted by

Gourab Singha Mahapatra

University Regn. No. – 201890201920007 of 2020-21

Roll No. - 18901920114

Under the guidance of

Dr. Manabendra Dhua.

Assistant professor

Dr. B.C. Roy College of Pharmacy & AHS

In partial fulfillment of the requirement for the Degree of
Bachelor of Pharmacy

Submitted to:

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur - 713206**

2022 - 2023



*Prof. (Dr.) Srimati K. Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206*

DECLARATION

There by declare that the Project entitled "SIMULTANEOUS UV SPECTROPHOTOMETRIC METHOD FOR ESTIMATION OF GLYCLAZIDE & METFORMIN IN TABLET DOSAGES FORM" In Partial fulfillment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Dr. Manabendra Dhua**, Assistant Professor, Dr. B.C. Roy College of Pharmacy & AHS.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Signature: Gourab Singha Mahapatra

Gourab Singha Mahapatra
University Roll No: 18901920114

Date: 16/05/23

Place: Durgapur



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "SIMULTANEOUS UV SPECTROPHOTOMETRIC METHOD FOR ESTIMATION OF GLYCLAZIDE & METFORMIN IN TABLET DOSAGES FORM" by Gourab Singha Mahapatra in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The report is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of supervisor

Dr. Manabendra Dhua
Assistant Professor
Dr. B.C. Roy College of Pharmacy & AHS
Date: 16/05/23
Place: Durgapur.

Prof. (Dr.) Samir Kumar Samanta
Principal
Dr. B.C. Roy College of Pharmacy & AHS
Date:
Place:



19/03/23

Signature
(External Examiner)



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B.C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

**A REVIEW - ON ROLE OF EXTRACT OF
CLITORIA TERNATEA ON CNS DISORDER**

Submitted by

KRISHNA GOPAL MONDAL
University Regn. No. -201890201920006
Roll No. - 18901920115


Under the guidance of
Mrs. Sushruta Chakraborty
Assistant Professor

In partial fulfillment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health
Sciences
Durgapur 713206
Academic Year: 2022 – 2023




Prof. (Dr.) Samit Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "A REVIEW - ON ROLE OF EXTRACT OF *CLITORIA TERNATEA* ON CNS DISORDER" in partial fulfillment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Mrs. Sushruta Chakraborty**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Krishna Gopal Mondal

Signature

Name of Candidate: Krishna Gopal Mondal

Roll No: 18901920115

Date: 15/05/2023

Place: Durgapur



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "A REVIEW - ON ROLE OF EXTRACT OF *CLITORIA TERNATEA* ON CNS DISORDER" by Krishna Gopal Mondal in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Sushruta Chakraborty

Signature of Supervisor

Name of Supervisor: SUSHRUTA CHAKRABORTY

Date: 15/05/23

Place: Durgapur

Signature

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place:



Dr. C. M. Hossain
Professor & Former Head
Department of Pharmaceutical Technology
Maulana Abul Kalam Azad University
of Technology, West Bengal
(Formerly Known as West Bengal University of Technology)
Haringhata, Nadia-741249

Samir Kumar Samanta
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206





MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A

Project Report on

**IN-VITRO EVALUATION OF CERTAIN
REPURPOSED DRUGS AND SYTHETIC
HETEROCYCLIC COMPOUNDS AGAINST
PROTEIN FIBRILATION**

Submitted by

RITAM MONDAL

University Regn. No. -201890201920005

Roll No. -18901920116

Under the guidance of

Mrs. PUJA MISHRA

Assistant Professor, BCRCP

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy


Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "IN-VITRO EVALUATION OF CERTAIN REPURPOSED DRUGS AND SYTHETIC HETEROCYCLIC COMPOUNDS AGAINST PROTEIN FIBRILATION" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Mrs. Puja Mishra**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Ritam Mondal
Signature

Name of Candidate: Ritam Mondal

Roll No:18901920116

Date: 15.05.23

Place:Durgapur


15/05/23



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "IN-VITRO EVALUATION OF CERTAIN REPURPOSED DRUGS AND SYTHETIC HETEROCYCLIC COMPOUNDS AGAINST PROTEIN FIBRILATION" by Ritam Mondal in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Puja Mishra
15/05/23

Signature of Supervisor

Name of Supervisor: Mrs. Puja Mishra

Date: 15.05.23

Place: Durgapur

[Signature]
15/5/23

PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date:

Place:

Signature

[Signature]
14/05/23



[Signature]
15/05/23

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (U.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

**IN-VITRO EVALUATION OF CERTAIN
REPURPOSED AND SYNTHETIC
HETEROCYCLIC COMPOUNDS AGAINST
PROTEIN FIBRILLATION**

Submitted by

ANURAG DAS

University Regn. No. -201890201920004

Roll No.- 18901920117


Under the guidance of
Mrs. PUJA MISHRA
Assistant Professor, BCRCP

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022-2023


Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "In-vitro evaluation of certain repurposed and synthetic heterocyclic compounds against protein fibrillation" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Mrs. Puja Mishra.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.



Signature

Name of Candidate: Anurag Das

Roll No: 18901920117

Date: 15.05.2023

Place: Durgapur





Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & MHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "In-vitro evaluation of certain repurposed and synthetic heterocyclic compounds against protein fibrillation" by Anurag Das in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Poojesh
15/05/23

Signature of Supervisor

Name of Supervisor: PUJA MISHRA-

Date: 15.05.23

Place: DURGAPUR

Samir Kr. Samanta
PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date:

Place:

Signature



15/05/23

Samir Kr. Samanta
10/11/23



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A

Project Report on

A REVIEW - ON GAS CHROMATOGRAPHY

Submitted for the partial fulfilment of the requirement of the award of the Degree of

Bachelor of Pharmacy

by

AVIJIT BHUNIA

Registration No: 201890201920003

University Roll No: 18901920118

Under the guidance of

Dr. Ujjwal Sahoo

Associate Professor

Department of Pharmaceutical Chemistry

Submitted to


**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 - 2023

2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Thesis entitled "A Review- On Gas Chromatography" in partial fulfilment of the requirement for the award of the Degree of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bonafide work carried out by me under the guidance of **Dr. Ujjwal Sahoo (Associate Professor, Department of Pharmaceutical Chemistry)**.

The matter embodied in this Thesis has not been submitted for the award of any other degree or diploma to any University/Institution.

..... *Avijit Bhunia*

Name of the Candidate: AVIJIT BHUNIA

Roll No.: 18901920118

Date: 15/5/2023

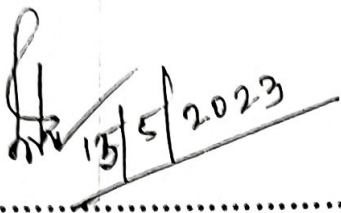
Place: Durgapur



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Thesis entitled "A Review -On Gas Chromatography" in partial fulfilment of the requirement for the award of the Degree of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bonafide work carried out by Mr. Avijit Bhunia Roll No. 18901920118 under my guidance.


15/5/2023

Signature of Guide

Name of Guide: Dr. Ujjwal Sahoo

Date: 15/5/2023

Place: Durgapur


15/5/23

PROF. (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place:

Signature



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206





A

Project Report on

**IMPROVEMENT OF SOLUBILITY AND
DISSOLUTION OF ACECLOFENAC BY SOLID
DISPERSION TECHNIQUE**

Submitted by

MOUMITA CHATTERJEE

University Regn. No. – 201890201920001 of 2020-21

Roll No. - 18901920120

Under the supervision of

Ms. Manami Dhibar

M. Pharm.

Assistant Professor

Department of Pharmaceutics

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy


Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 - 2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

This is to certify that the Project entitled "**Improvement of Solubility and Dissolution of Aceclofenac by Solid Dispersion Technique**" in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of **Ms. Manami Dhibar**, Assistant Professor, Department Of Pharmaceutics, Dr. B. C. Roy College of Pharmacy & AHS, Durgapur, West Bengal.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Moumita Chatterjee
Signature

Name of Candidate: Moumita Chatterjee

Roll No: 18901920120

[Handwritten Signature]

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph. D. (J.U.)
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



CERTIFICATE

This is to certify that the Project entitled "Improvement of Solubility and Dissolution of Aceclofenac by Solid Dispersion Technique" by Moumita Chatterjee in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.


15/05/2023
Signature of Guide

Ms. Manami Dhibar

M.Pharm.,

Assistant Professor, Department of Pharmaceutics
Dr. B. C. Roy College of Pharmacy & AHS.

Date: 15.05.2023

Place: Durgapur


15/05/23
Prof. (Dr.) Samir Kumar Samanta

Principal

Dr. B. C. Roy College of Pharmacy & AHS.

Date:

Place:

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



Signature
(External)

Date:

Place:


19/05/23


19/05/23