



LIST OF PROJECTS IN B. PHARMACY: AY 2023-2024

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

Durgapur - 713206

B. Pharm. 4th Year 8th Semester' 2023-2024

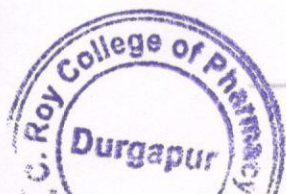
SL NO	UNIV. ROLL NO.	NAME	TITLES
1	18901920001	RAM SWARUP CHATTOPADHYAY	APPROACHES MADE ON TRANSDERMAL PATCHES INCORPORATING ANTIVIRAL DRUG FOR TREATMENT OF VIRAL INFECTION
2	18901920002	MD TOUHEED AHAMED	IMPACT OF TELEPHARMACY ON THE HEALTH CARE SYSTEM
3	18901920003	SAGNIK DE	A REVIEW OF DIABETIC WOUND AND ITS TREATMENTS
4	18901920004	NUHIN SK	A REVIEW ON NOVEL ROUTE OF INSULIN ADMINISTRATION FOR DIABETES TREATMENT
5	18901920005	TAMAL CHATTERJEE	2D-QSAR ANALYSIS OF PYRIMIDINONE AMINE DERIVATIVES AS ROCK2 INHIBITORS IN THE TREATMENT OF PSORIASIS
6	18901920006	KOUSHIK DAS	PHARMACOLOGICAL ACTIVITY OF NEEM
7	18901920007	SUBRATA DUTTA	A REVIEW ON RECENT ADVANCE TOOLS AND TECHNOLOGIES USED FOR CARDIAC PATIENTS
8	18901920008	TUSHAR DEBNATH	2D-QSAR ANALYSIS OF PYRIMIDINONE AMINE DERIVATIVES AS ROCK2 INHIBITORS IN THE TREATMENT OF PSORIASIS
9	18901920009	DIBENDU SANNIGRAHI	STABILITY OF EMULSION AND SUSPENSION
10	18901920010	SATHI GHOSH	NON-FLOATING DRUG DELIVERY SYSTEM
11	18901920011	SAIKAT GOSWAMI	ALZHEIMER'S DISEASE: ITS IMMUNOTHERAPY
12	18901920012	ANIKET OJHA	TO DESIGN SOME NOVEL ACTINONIN DERIVATIVES AS HSPDF AND HCT INHIBITORS BY STRATEGIC AMALGAMATION OF LIGAND AND STRUCTURE- BASED DRUG DESIGN
13	18901920014	POULAMI SINGHA	EXPLORING THE ROLE OF NANOPARTICLES: SIZE, SHAPE, CLASSIFICATION, SYNTHESIS, AND THEIR APPLICATIONS
14	18901920015	MAHIMA CHOWDHURY	EXPLORING THE VALUE OFFERED BY INCRETINS IN LONG TERM MANAGEMENT OF DIABETES
15	18901920016	SAMPRITI MISHRA	INVESTIGATION OF NOVEL DRUG TARGET AND LATEST UPDATE ON ANTI-HYPERTENSIVE THERAPY: A REVIEW
16	18901920017	SRIJITA BASAK	IN SILICO SCREENING OF DIFFERENT PHENYL DERIVATIVES AS POTENTIAL ANTI-DIABETIC AGENTS"





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Dr. Meghnad Saha Sarani, Bidhannagar, Durgapur-713206, West Bengal (India)

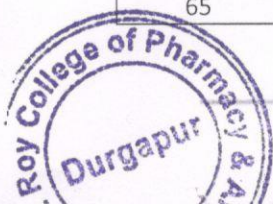
17	18901920018	ABHISHEK CHOWDHURY	METALLIC ALLIES: EXPLORING ANTIMICROBIAL RESISTANCE METAL COMPLEXES
18	18901920019	BILASH PATRA	A REVIEW ON THE IMPACT OF THE FIRST LINE DRUG ON THE TREATMENT OF TUBERCULOSIS
19	18901920020	PRITAM MONDAL	A REVIEW ON ISOFERULIC ACID AS AN ALPHA GLUCOSIDASE INHIBITOR IN DIABETIS MELLITUS
20	18901920021	SHYAMACHARAN BANERJEE	MELATONIN SUPPLEMENTS A NEW BOON FOR VARIOUS TREATMENT
21	18901920022	RITWIM MONDAL	STABILITY OF EMULSION AND SUSPENSION
22	18901920023	SOURAV POULIK	HPLC TROUBLESHOOTING
23	18901920024	ANUPAM SINGHA ROY	PHARMACEUTICAL CLEAN ROOM
24	18901920025	SUBHASH GHOSH	CRISPR-BASED THERAPIES FOR RARE GENETIC DISORDERS-AN OVERVIEW
25	18901920026	BASTAV MAZUMDAR	UNVEILING THE NEXUS: PEPTIDYL-TRNA HYDROLASE AND MULTIDRUG RESISTANCE IN BACTERIAL PATHOGENS
26	18901920027	MOHAN CHANDRA BARAL	THERAPEUTIC APPROACHES FOR DIABETES MELLITUS
27	18901920028	SHANTANU BERA	A REVIEW ON NOVEL APPROACHES OF FLOATING DRUG DELIVERY SYSTEM
28	18901920029	BITHIKA BANERJEE	ROLE OF VITAMIN D3 AS NEUROPROTECTIVE AGENT
29	18901920030	ANOMITA DAS	MARKET ANALYSIS ON NOVEL DRUG DELIVERY SYSTEM
30	18901920031	ANKITA DEY	DESIGN AND MOLECULAR DOCKING OF SOME DERIVATIVES OF NATURAL PRODUCTS AS A- SYNUCLEIN PROTEIN AS FIBRILLATION INHIBITORS
31	18901920032	AGNITH MAITY.	PATHOPHYSIOLOGY AND THERAPEUTIC APPROACH OF INFLAMMATORY BOWEL DISEASE (IBD)
32	18901920033	SAYAN NANDI	REVIEW ON USE OF CASPASES FOR TARGATED DRUG DELIVERY
33	18901920034	TAPABRATA BHANJA	FRONTIERS IN ADVANCED PHARMACEUTICAL TECHNOLOGY: INNOVATIONS AND APPLICATIONS
34	18901920035	ARITRA NANDY	A REVIEW ON THE TREATMENT OF PARKINSON DISEASE
35	18901920036	ANIRBAN DAN	NATURAL PRODUCTS AS ANTI-INFLAMMATORY AGENTS
36	18901920037	SUBHANKAR DAS	A REVIEW ON STUDY OF CONSUMER BUYING BEHAVIOR ON PRESCRIPTION AND NON- PRESCRIPTION DRUGS
37	18901920038	NEHA DAS	HEMORRHOIDS: CURRENT TREATMENTS AND FUTURE PROSPECTS
38	18901920039	ANKAN MUKHERJEE	IN SILICO SCREENING OF DIFFERENT COUMARIN DERIVATIVES AS ANTI-LUNGS CANCER AGENT
39	18901920040	SOHAM KUNDU	IMPORTANCE OF DATA INTEGRITY IN PHARMACEUTICAL INDUSTRY
40	18901920041	SUMAN KUMAR PANDA	PREPARATION AND EVALUATION OF LIQUID SUPPOSITORY





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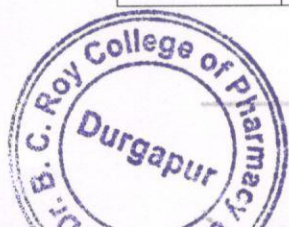
41	18901920042	ARKA GANGULY	PHARMACOPHORE MAPPING
42	18901920043	ANWESHA BANDYOPADHYAY	PHARMACEUTICAL WASTE MANAGEMENT
43	18901920044	INDRANIL KUNDU	METALLIC ALLIES: EXPLORING ANTIMICROBIAL RESISTANCE METAL COMPLEXES
44	18901920045	RITWIK SAHOO	NATURAL PRODUCTS IN TREATMENT OF ALCOHOLIC FATTY LIVER DISEASE
45	18901920046	SOUVIK GHORAI	A REVIEW ON VARIOUS PLANTS AND PLANT DERIVED NATURAL PRODUCTS FOR RHEUMATOID ARTHRITIS
46	18901920047	ARNAB CHOWDHURY	DIURETICS: A MODERN APPROACH IN TREATMENT
47	18901920048	SAYAN KAR	STABILITY OF EMULSION AND SUSPENSION
48	18901920049	VISHAL KUMAR MAHATO	A STUDY OF COMMON APPARATUS AND TECHNIQUES USED IN CHEMICAL SYNTHESIS LABORATORY OF A PHARMACEUTICAL INDUSTRY
49	18901920050	SARBARTHA DAS	HPLC TROUBLESHOOTING
50	18901920051	SUMAN CHATTERJEE	'SURVEY OF TOTAL PARENTAREL NUTRITION BRAND IN INDIA AND THEIR CLINICAL SIGNIFICANCE'
51	18901920052	SOUBHAGYA MUKHERJEE	THERAPEUTIC EFFICACY OF ALLICINE AND THEIR DERIVATIVES
52	18901920054	SUSHOVAN MAITY	REVIEW ON CIPROFLOXACIN CONJUGATES
53	18901920055	RONAJIT MONDAL	MARKET ANALYSIS ON NOVEL DRUG DELIVERY SYSTEM
54	18901920056	ARPAN KAR	A REVIEW ON STUDY OF CONSUMER BUYING BEHAVIOR ON PRESCRIPTION AND NON- PRESCRIPTION DRUGS
55	18901920057	BIDHAKAR RAY	MARKET ANALYSIS ON NOVEL DRUG DELIVERY SYSTEM
56	18901920058	ABHISHEK MALIK	NATURAL PRODUCT-DERIVED DRUGS FOR THE TREATMENT OF INFLAMMATORY BOWEL DISEASES (IBD)
57	18901920059	JEET BANERJEE	ERGONOMIC RISK ASSESSMENT BY POSTURE ANALYSIS USING RULA IN PHARMACY STORES TO EVALUATE THE RELATION BETWEEN WORK-RELATED STRESS & MUSCULO-SKELETAL DISORDERS.
58	18901920060	SHOAIB AKHTAR	HPLC TROUBLESHOOTING
59	18901920061	RANADEEP BOSE	2D-QSAR ANALYSIS OF PYRIMIDINONE AMINE DERIVATIVES AS ROCK2 INHIBITORS IN THE TREATMENT OF PSORIASIS
60	18901920062	SOYEB AKTAR	NOVEL DRUG IN THE TREATMENT OF MALARIA
61	18901920064	SUMANA DAS	ROLE OF VITAMIN D3 AS NEUROPROTECTIVE AGENT
62	18901920065	SAYAN HATI	BIOLOGICAL ACTIVITIES OF INDOLE DERIVATIVES
63	18901920067	ROHAN MONDAL	DESIGN AND MOLECULAR DOCKING OF SOME DERIVATIVES OF NATURAL PRODUCTS AS A- SYNUCLEIN PROTEIN AS FIBRILLATION INHIBITORS
64	18901920069	ANTARA GUPTA	METALLIC ALLIES: EXPLORING ANTIMICROBIAL RESISTANCE METAL COMPLEXES
65	18901920070	AMRITA SINGHA	ZEBRA FISH AS A MODEL IN DRUG DISCOVERY





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66	18901920071	ARIJIT SIL	POLYPEPTIDE BASED HAEMOSTASIS DRESSINGS
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68	18901920073	PRITAM JANA	A CRITICAL REVIEW OF ANALYTICAL AND BIO-ANALYTICAL METHODS FOR THE ESTIMATION OF ANTI-VIRAL DRUG REMDESIVIR
69	18901920074	SUSHANTA SINGHA	POLYSACCHARIDE BASED HAEMOSTATIC DRESSINGS
70	18901920075	SAPTARSHI BHATTACHARJEE	MODIFIED POLYSACCHARIDE BASED DRUG DELIVERY SYSTEMS FOR INFLAMMATORY BOWEL DISEASE THERAPY
71	18901920076	BIKRAM DAS	REVIEW OF COUMARIC ACID AND ITS DERIVATIVE AS A POTENT ANTI DIABETIC AGENT
72	18901920077	BAPI KONAI	NASO-PULMONARY DRUG DELIVERY: TARGETED THERAPY FOR RESPIRATORY HEALTH
73	18901920078	SHRABANI DAS	NATURAL PRODUCTS IN TREATMENT OF ALCOHOLIC FATTY LIVER DISEASE
74	18901920079	RISHAV SETH	AN OVERVIEW OF DNA BARCODING AND CHROMATOGRAPHY FINGERPRINTS FOR AUTHENTICATION OF BOTANICALS PRESENT IN HERBAL MEDICINAL PRODUCTS
75	18901920080	AYUSH SEN	DEVELOPMENT AND EVALUATION OF POLYHERBAL CREAM
76	18901920081	RIK KARAK	CONVEYING THE POTENTIAL OF OZANIMOD AND NEXT-GENERATION TARGETED THERAPIES IN THE TREATMENT OF IBD
77	18901920082	MD SAKIL HASAN	DIURETICS: A MODERN APPROACH IN TREATMENT
78	18901920083	SK SAMIM HOSSAIN	PARACETAMOL AND ITS INTERACTION WITH SEROTONERGIC SYSTEM
79	18901920084	VANSHIKA AGARWAL	REVIEW ON CIPROFLOXACIN CONJUGATES
80	18901920085	SAUMYABRATA BHATTACHARYA	RADIOIMMUNOASSAY
81	18901920086	SOUGATA GHOSHAL	NEW STRATEGIES FOR ANTIBACTERIAL DRUG DESIGNING
82	18901920087	ANIK MUKHOPADHYAY	TO DESIGN SOME NOVEL ACTINONIN DERIVATIVES AS HSPDF AND HCT INHIBITORS BY STRATEGIC AMALGAMATION OF LIGAND AND STRUCTURE-BASED DRUG DESIGN
83	18901920088	TAMAL PARIA	SUPPLY CHAIN MANAGEMENT IN THE PHARMACEUTICAL INDUSTRY
84	18901920089	TANUSHREE PRADHAN	MULTITASKING BOX-JENKINS MOVING AVERAGE BASED CHEMINFORMATIC MODELLING TO CHARACTERIZE THE AQUATIC TOXICITY OF PHARMACEUTICAL PERSONAL CARE PRODUCTS (PPCPS)
85	18901920090	MD SAFI	THE EFFECTS OF OPIUM ON THE CARDIOVASCULAR SYSTEM: A REVIEW OF SIDE EFFECTS, USES, AND POTENTIAL MECHANISMS





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87	18901920092	SUMAN MAITY	ERGONOMIC RISK ASSESSMENT USING REBA , PERFORMED IN DIFFERENT PHARMACY STORES TO EVALUATE THE RELATION BETWEEN WORK RELATED STRESS AND MUSCULO-SKELETAL DISORDERS
88	18901920093	SAGAR MANDAL	EXISTING DRUG DELIVERY SYSTEMS FOR INFLAMMATORY BOWEL DISEASE (IBD)
89	18901920094	APARESH BERA	ADVANCEMENTS IN SOLUBILITY ENHANCEMENT STRATEGIES FOR POORLY WATER SOLUBLE DRUGS: A COMPREHENSIVE REVIEW
90	18901920095	RITTIK PAUL	AI IN THE PHARMACEUTICAL INDUSTRY: INNOVATIONS AND CHALLENGES
91	18901920096	SUBHRAKANTA MANDAL	ROLE OF GMP IN PHARMACEUTICAL INDUSTRY
92	18901920097	SOUMYADEEP GUHA	A COMPREHENSIVE REVIEW OF DOSAGE FORMS: TYPES, PROPERTIES, AND APPLICATIONS IN DRUG DELIVERY
93	18901920098	NABANITA SEN	CURRENT SCENARIO OF TYPE 2 DIABETES MELLITUS AND UPDATE ON ANTI-DIABETIC DRUGS
94	18901920099	SHANKHASREE SEN	EFFECT OF DIFFERENT CONCENTRATIONS OF MAGNESIUM STEARATE ON DISSOLUTION PROPERTIES OF TABLETS
95	18901920100	PRITAM DE	DESIGN AND MOLECULAR DOCKING OF SOME DERIVATIVES OF NATURAL PRODUCTS AS A A-SYNUCLEIN PROTEIN AS FIBRILLATION INHIBITORS
96	18901920101	SINCHAN KUMAR ROY	REVIEW OF CAFFEIC ACID AND IT'S DERIVATIVE AS A POTENT ANTI DIABETIC AGENT
97	18901920102	AJITESH PATRA	IMPLICATION OF NITRIC OXIDE IN THE PHARMACOLOGICAL ACTIONS OF PARACETAMOL
98	18901920103	JYOTIRADITYA DAS	RECENT ADVANCEMENTS ON TABLET COATING TECHNOLOGY
99	18901920104	PRIYANKA JANA	POLYSACCHARIDE BASED SCAFFOLDS AS FOOD PACKAGING MATERIALS
100	18901921105	SIDDHANTA MISHRA	2D-QSAR ANALYSIS OF PYRIMIDINONE AMINE DERIVATIVES AS ROCK2 INHIBITORS IN THE TREATMENT OF PSORIASIS
101	18901921106	POULAMI BISUYI	MARINE DRUGS USED IN THE TREATMENT OF CANCER
102	18901921107	SURANJANA BASAK	OVERVIEW OF NANO PARTICLES USED IN THE TREATMENT OF TYPE 2 DIABETES MELLITUS
103	18901921108	ATANU JANA	PARACETAMOL BEYOND ANALGESIC: ROLE OF ENDOCANNABINOID
104	18901921109	PRABIR MONDAL	TIRZEPATIDE: A BREAKTHROUGH IN DIABETES MANAGEMENT
105	18901921110	SAMPRI TI PRAMANICK	MECHANISM, MANAGEMENT AND CLINICAL PERSPECTIVE OF DIABETIC CATARACT
106	18901921111	DEBJYOTI DEY	RECENT ADVANCEMENT OF DRUGS USED IN THE TREATMENT OF HYPERTENSION






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107	18901921112	SAYAK MONDAL	DESIGN AND MOLECULAR DOCKING OF SOME DERIVATIVES OF NATURAL PRODUCTS AS A-SYNUCLEIN PROTEIN AS FIBRILLATION INHIBITORS
108	18901921113	RIYA KUNDU	STIMULI-RESPONSIVE DRUG DELIVERY SYSTEMS FOR INFLAMMATORY BOWEL DISEASE (IBD) THERAPY
109	18901921114	BUBAI MOHISH	NATURAL REMEDIES FOR THE MANAGEMENT OF THE DIABETES
110	18901921115	SANDIP RUHIDAS	DNA MICROARRAY TECHNOLOGY
111	18901921116	SK NOMRUDDIN	A COMPREHENSIVE OVERVIEW ON DIABETIC CATARACT
112	18901921117	ARPAN NANDI	APPLICATION OF NEWER DRUG THERAPY FOR TYPE 2 DIABETES MELLITUS OVER THE CONVENTIONAL THERAPY




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

HPLC TROUBLESHOOTING

Submitted by

SOURAV POULIK

University Regn. No. -201890201910082 of 2020-21
Roll No. - 18901920023

Under the guidance of
Dr. Manabendra Dhua
Assistant Professor, BCRCP

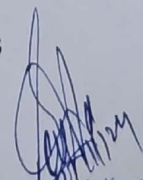
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

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: 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

I hereby declare that the Project entitled "HPLC Troubleshooting" 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. Manabendra Dhua.

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

Sourav Poulik

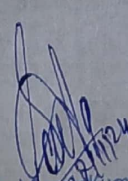
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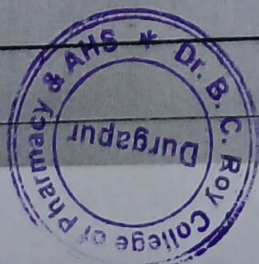
Name of Candidate: Sourav Poulik

Roll No: 18901920023

Date: 03/06/2024

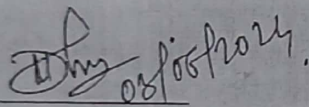
Place: Durgapur


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



CERTIFICATE

This is to certify that the Project entitled "HPLC Troubleshooting" by Sourav Poulik 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.

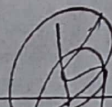


Signature of Supervisor

Name of Supervisor: Dr. Manabendra Dhua

Date: 03.06.2024

Place: Durgapur



Signature of External Examiner

Date:

Place:

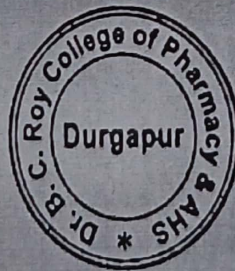


PROF. (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place:





Prof. (Dr.) Samir Kumar Samanta
M. Pharm. (J.U.)

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





A
Project Report on
**A REVIEW ON VARIOUS PLANTS AND PLANT
DERIVED NATURAL PRODUCTS FOR
RHEUMATOID ARTHRITIS**

Submitted by

NAME- SOUVIK GHORAI

University Regn. No. – 201890201910059 (2020-2021)

Roll No. - 18901920046

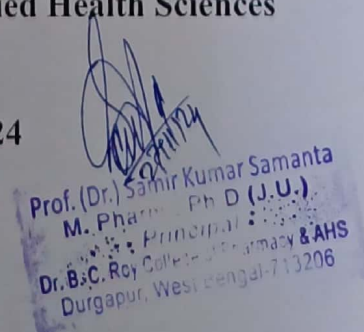
Under the guidance of
Dr. Yadu Nandan Dey
Associate Professor

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: 2023- 2024



DECLARATION

This is to certify that the Project entitled "A REVIEW ON VARIOUS PLANTS AND PLANT DERIVED NATURAL PRODUCTS FOR RHEUMATOID ARTHRITIS" 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. 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.

Souvik Ghorai

Signature

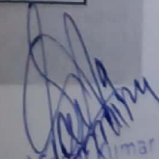
Name of Candidate: Souvik Ghorai

Roll No: 18901920046

Date: 03/06/2024

Place: Durgapur




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 "A REVIEW ON VARIOUS PLANTS AND PLANT DERIVED NATURAL PRODUCTS FOR RHEUMATOID ARTHRITIS" by Souvik Ghorai in partial fulfillment for the B.A. DIPLOMA 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.

Yadu Nandan Dey

Signature of Guide

Name of Guide: *Dr. Yadu Nandan Dey*

Date: *03-06-24*

Place: *Durgapur*

[Signature]
03/06/24

PROF (DR.) SAMIR KUMAR SAMANTA

(PRINCIPAL)

Date:

Place:

[Signature]

Signature

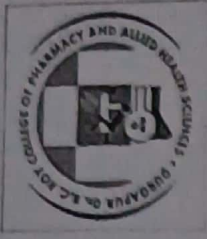
Name of External Examiner:

Date:

Place:



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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

NOVEL DRUG IN THE TREATMENT OF MALARIA

Submitted by

SOYEB AKTAR

University Regn. No. – 201890201910043 Of 2020-21

Roll No.- 18901920062

Under the guidance of

DR. UJJWAL SAHOO

Associate professor

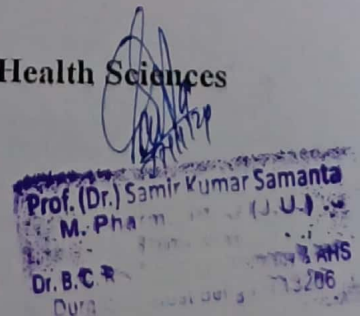
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Submitted to

**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



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 bona fide work carried out by me under the guidance of DR. UJJWAL SAHOO.

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

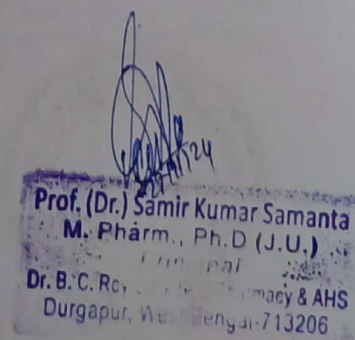
Soyeb Aktar

Signature Name of Candidate: SOYEB AKTAR

Roll No: 18901920062

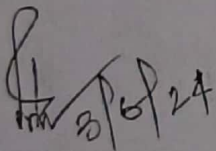
Date: 03.06.2024

Place: Durgapur



CERTIFICATE

This is to certify that the Project entitled "Novel Drug In The Treatment of Malaria" by SOYEB 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 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.

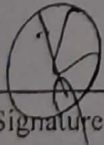


Signature of Guide

Name of Guide: Dr.UJJWAL SAHOO

Date: 3/6/24

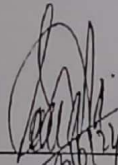
Place: Durgapur



Signature

Name of External Examiner:

Date:

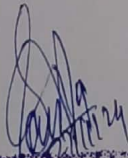


PROF (DR.) Samir Kumar Samanta

(PRINCIPAL)

Date:

Place:


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





Project Report

on

In Silico Screening of Different Phenyl Derivatives as Potential Anti-Diabetic Agents

Submitted by

SRIJITA BASAK

University Regn. No. -201890201910088 of 2020-2021

Roll No. -18901920017

Under the guidance of

Mr. Ismail Mondal

Assistant Professor

In partial fulfilment of the Requirement for the Degree of

Bachelor of Pharmacy

Submitted to

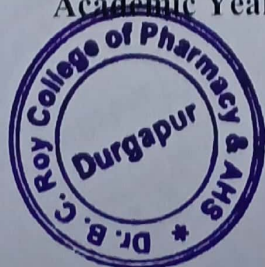
Maulana Abul Kalam Azad University of Technology

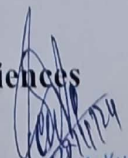
West Bengal

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

Durgapur 713206

Academic Year: 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

I hereby declare that the Project entitled "*In Silico Screening of Different Phenyl Derivatives as Potential Anti-Diabetic Agents*" 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.

Signature Srijita Basak

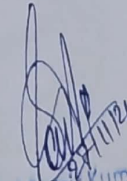
Name of Candidate: Srijita Basak

Roll No: 18901920017

Date: 03/06/24

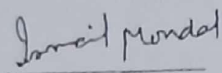
Place: Durgapur




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

CERTIFICATE


This is to certify that the Project entitled "*In Silico Screening of Different Phenyl Derivatives as Potential Anti-Diabetic Agents*" by Srijita Basak 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: Mr. Ismail Mondal

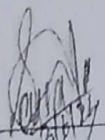
Date: 03/06/24

Place: Durgapur


Signature of External Examiner

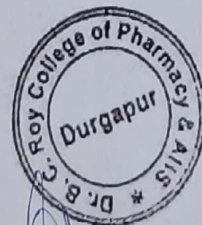
Date: 31/6/24

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

STUDY ON CONSUMER BUYING BEHAVIOUR ON PRESCRIPTION & NON-PRESCRIPTION DRUGS

Submitted by

SUBHANKAR DAS

University Regn. No. – 201890201910068 of 2020-21

Roll No. - 18901920037

Under the guidance of

Dr. Parthasarathi Panda

Assistant Professor

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

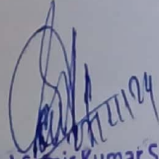
Submitted to

**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

I hereby declare that the Project entitled "Study on Consumer Buying Behaviour on Prescription & Non-Prescription Drugs" 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. 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.

Subhankar Das

Signature

Name of Candidate: Subhankar Das

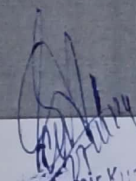
Roll No: 18901920037

Date: 03/06/24

Place: Durgapur



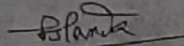
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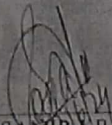

Prof. (Dr.) Samir Kumar Samanta
M. Pharm. (U. U.)
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 726006




CERTIFICATE

This is to certify that the Project entitled "Study on Consumer Buying Behaviour on Prescription & Non-Prescription Drugs" by Subhankar 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/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. Parthasarathi Panda
Date: 03/05/2024
Place: Durgapur


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



Signature of External Examiner
Date: 27/6/24
Place: Durgapur



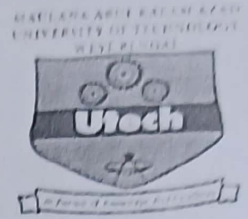
II



II


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

CRISPR-BASED THERAPIES FOR RARE GENETIC DISORDERS-AN OVERVIEW.

Submitted by

Subhash Ghosh

University Regn. No. – 201890201910080 of 2020-21

Roll No. – 18901920025

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

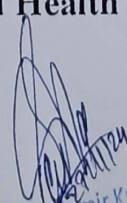
West Bengal

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

Durgapur 713206

Academic Year: 2023– 2024




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



DECLARATION

I hereby declare that the Project entitled "CRISPR-Based Therapies for Rare Genetic Disorders-An Overview" 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.

Subhash Ghosh

Signature

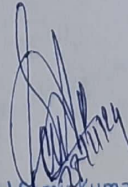
Name of Candidate: Subhash Ghosh

Roll No: 18901920025

Date: 03/06/24

Place: BCREP, Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm. (J.U.)

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

CERTIFICATE

This is to certify that the Project entitled "CRISPR-Based Therapies for Rare Genetic Disorders-An Overview" by Subhash 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.

Abhik S.

Signature of Supervisor

Name of Supervisor:

Dr. Abhik S.

Date: 3/6/24.

Place: TBRCRCP, DGR.

Prof. (Dr.) Samir Kr. Samanta

(PRINCIPAL)

Date:

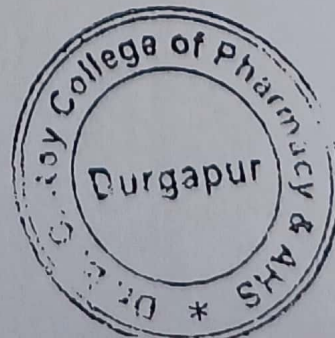
Place:

Signature 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





A Project Report on

ROLE OF GMP IN PHARMACEUTICAL INDUSTRY

Submitted by

SUBHRAKANTA MANDAL

University Regn. No. -201890201910009 of 2020-21

Roll No. -18901920096

Under the guidance of

Dr. Parthasarathi Panda

Assistant Professor

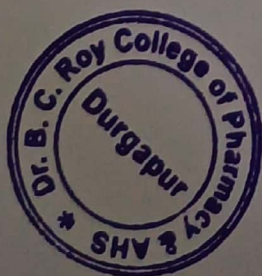
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

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



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



DECLARATION

I hereby declare that the Project entitled "ROLE OF GMP IN PHARMACEUTICAL INDUSTRY" 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 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.

Subhro Kanta Mandal

Signature


Name of Candidate: SUBHRAKANTA MANDAL

Roll No: 18901920096

Date: 03/06/2024

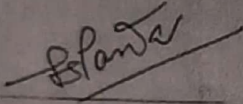
Place: Durgapur




Prof. (Dr.) Sanjay 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 "ROLE OF GMP IN PHARMACEUTICAL INDUSTRY" SUBHIRAKANTA MANDAL 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.

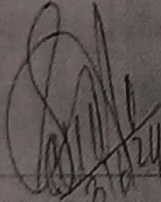


Signature of Supervisor

Name of Supervisor: Dr. Parthasarathi Panda

Date: 03/06/2024

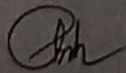
Place: Durgapur



PROF (DR.) SAMIR K.R. SAMANTA
(PRINCIPAL)

Date:

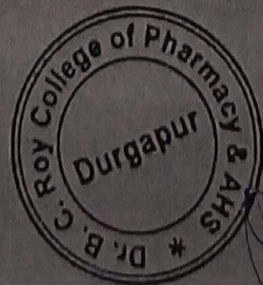
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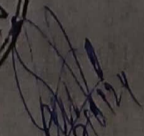


Signature of External Examiner

Date: 24/24

Place: Durgapur




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



A
Project Report on

**A review on recent advance tools & technologies used for
Cardiac Patients**

Submitted by

Subrata Dutta

University Regn. No. -201890201910098

Roll No. -18901920007

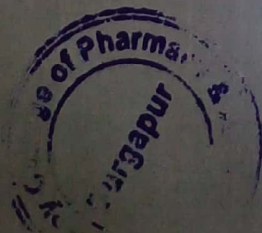
Under the guidance of
Mr. Ismail Mondal
Assistant Professor

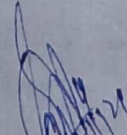
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

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: 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



1. DECLARATION

I hereby declare that the Project entitled "A review on recent advance tools & technologies used for Cardiac Patients"

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.

Subrata Dutta

Signature

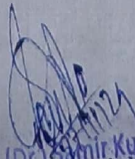
Name of Candidate: Subrata Dutta

Roll No- 18901920007

Date: 3/06/24

Place: Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principals
Dr. B. C. Roy College of Pharmacy &
Durgapur, West Bengal-743121

2.CERTIFICATE

This is to certify that the Project entitled "A review on recent advance tools & technologies used for Cardiac Patients"

by Subrata 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.

Ismail Mondal

Signature of Supervisor M. K. Ismail Mondal

Name of Supervisor:

Date: 03/06/24

Place: Durgapur

Prof. (Dr.) Samir Kr. Samanta

(PRINCIPAL)

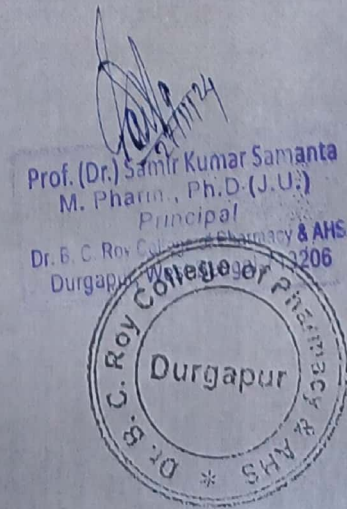
Date:

Place:

Sh
Signature of External Examiner

Date: 31/6/24

Place: Durgapur.





A Project Report on

MELATONIN SUPPLEMENT AS NUTRACEUTICAL

Submitted by

SUJATA BURNWAL

University Regn. No. – 201890201910033

Roll No. -18901920072

Under the guidance of

MRS SUSHRUTA CHAKRABORTY

ASSISTANT PROFESSOR

(DEPARTMENT OF PHARMACOLOGY)

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.)

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



DECLARATION

I hereby declare that the Project entitled "Melatonin as Nutraceutical" 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 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.

Sujata Burnwal

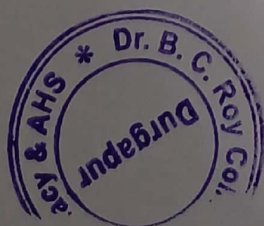
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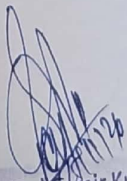
Name of Candidate: Sujata Burnwal

Roll No: 18901920072

Date: 03.06.2024

Place: Durgapur

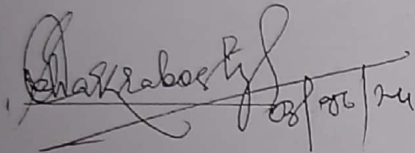



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal



CERTIFICATE

This is to certify that the Project entitled "Title of the Project Report" by Name of the student 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.

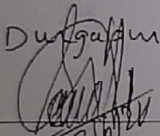


Signature of Supervisor

Name of Supervisor: Mrs. SUSHRUTA CHAKRABORTY

Date: 03.06.2024

Place: Durgapur,



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

Date:

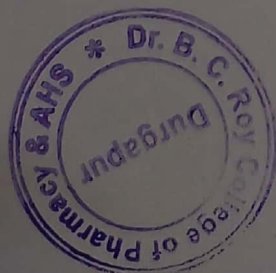
Place:



Signature of External Examiner

Date: 3/6/24

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



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A Project Report on
**“Survey of Total Parenteral Nutrition Brands In India & Their
clinical Significance”**

Submitted by

SUMAN CHATTERJEE

University Regn. No. – 201890201910054 of 2020-21

Roll No. - 18901920051

Under the guidance of

Prof. Dr. Subhabrata Ray

(Department of Pharmaceutics)

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

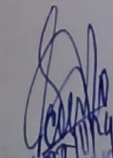
Submitted to

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

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

Academic Year: 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

I hereby declare that the Project entitled "Survey of Total Parenteral Nutrition Brands In India & Their clinical Significance" 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 Prof. 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.

Suman Chatterjee

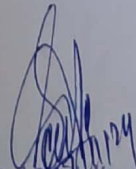
Signature

Name of Candidate: Suman Chatterjee

Roll No: 18901920026

Date: 07.06.24

Place: Durgapur

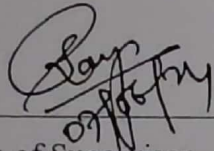

Prof. (Dr.) Subhabrata Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

2



CERTIFICATE

This is to certify that the Project entitled "Survey of Total Parenteral Nutrition Brands In India & Their clinical Significance" by Suman Chatterjee 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.

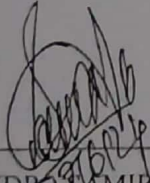


Signature of Supervisor

Name of Supervisor: Prof. Dr. Subhabrata Ray

Date:

Place:



PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

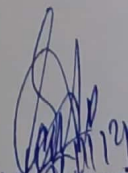
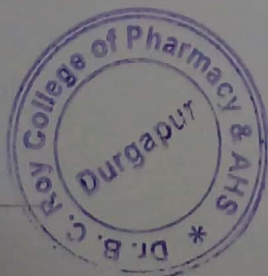
Date:

Place:

Signature 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



A
Project Report on (PT 883)

PREPARATION AND EVALUATION OF LIQUID SUPPOSITORY

Submitted by
SUMAN KUMAR PANDA
University Regn. No. – 201890201910064 of 2020-21
Roll No. - 18901920041

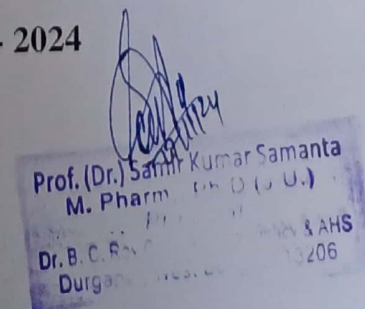
Under the guidance of
MR. WAIZUL HAQUE
(ASSOCIATE PROFESSOR)

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: 2023 - 2024



DECLARATION

I hereby declare that the Project entitled "PREPARATION AND EVALUATION OF LIQUID SUPPOSITORY" 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. 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.

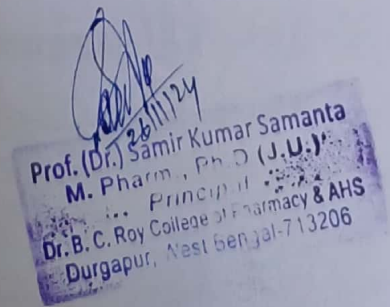
Suman Kumar Panda.
Signature

Name of Candidate: Suman Kumar Panda

Roll No: 18901920041

Date: 08.06.2024

Place: Durgapur.



CERTIFICATE

This is to certify that the Project entitled "PREPARATION AND EVALUATION OF LIQUID SUPPOSITORY" by SUMAN KUMAR PANDA 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.


for J. Chakrabarty

Signature of Supervisor

Name of Supervisor: MR. WAIZUL HAQUE

Date:


Place:



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

Date:

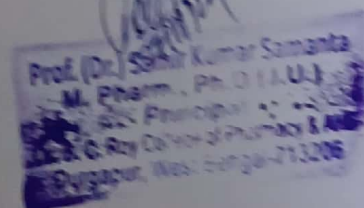
Place:



Signature of External Examiner

Date:

Place:





A

Project Report on

**ERGONOMIC Risk Assessment by Posture Analysis Using REBA
In Pharmacy Stores To Evaluate The Relation Between Work-
Related Stress & Musculo-Skeletal Disorders**

Submitted by

SUMAN MAITY

University Regn. No. -201890201910013 of 2020-21

Roll No. -18901920092

Under the guidance of

Mr. RUDRANIL KARMAKAR

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: 2023- 2024




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



DECLARATION

I hereby declare that the Project entitled "Ergonomic risk assessment using REBA performed in different Pharmacy stores to evaluate the relation between Work related stress and Muskulo-skeletal Disorder" 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. Rudranil Karmakar (Assistant Professor, BCRCF).

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

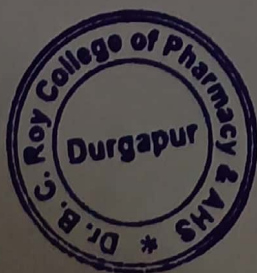
Suman Maity
Signature

Name of Candidate: Suman Maity

Roll No:18901920092

Date:03.06.2024

Place: Durgapur



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

Page 1 of 24

CERTIFICATE

This is to certify that the Project entitled "Ergonomic risk assessment using REBA performed in different Pharmacy stores to evaluate the relation between Work related stress and Musculoskeleton Disorder" by Suman Maity 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.

Rudranil Karmakar

Signature of Supervisor

Name of Supervisor: Rudranil Karmakar(Assistant Professor, BCRCP)

Date: 03-06-2024

Place: Durgapur

Prof. (Dr.) Samir Kr. Samanta

(PRINCIPAL)

Date:

Place:

Signature of External Examiner

Date:

Place:



Page 3 of 24
Prof. (Dr.) Samir Kumar Samanta
M. Pharm (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A Project Report on

**ROLE OF VITAMIN D3 AS NEUROPROTECTIVE
AGENT**

Submitted by-

SUMANA DAS

University Regn. No. – 201890201910041

Roll No. - 18901920064

Under the guidance of

Mrs. Sushruta Chakraborty

Assistant Professor

(Department of Pharmacology)

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

Maulana Abul Kalam Azad University of Technology

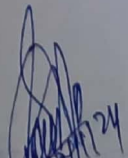
West Bengal

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

Durgapur 713206

Academic Year: 2020 – 2024




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

DECLARATION

I hereby declare that the Project entitled "ROLE OF VITAMIN D3 AS NEUROPROTECTIVE AGENT" 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. 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.

Sumana Das.

Signature

Name of Candidate: Sumana Das.

Roll No: 18901920064

Date: 03/06/2024

Place Durgapur



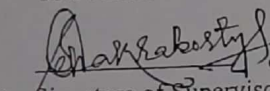
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Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



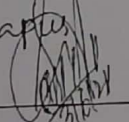
CERTIFICATE

This is to certify that the Project entitled "ROLE OF VITAMIN D3 AS NEUROPROTECTIVE AGENT" by Sumana 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/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: Mrs. Sushruta Chakraborty

Date: 03/06/24


Place: Durgapur


PROF. (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place:



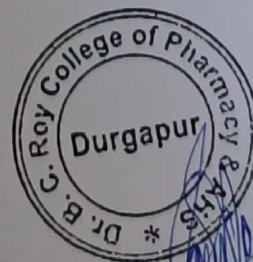
Signature of External Examiner

Date: 3/4/24

Place: Durgapur.

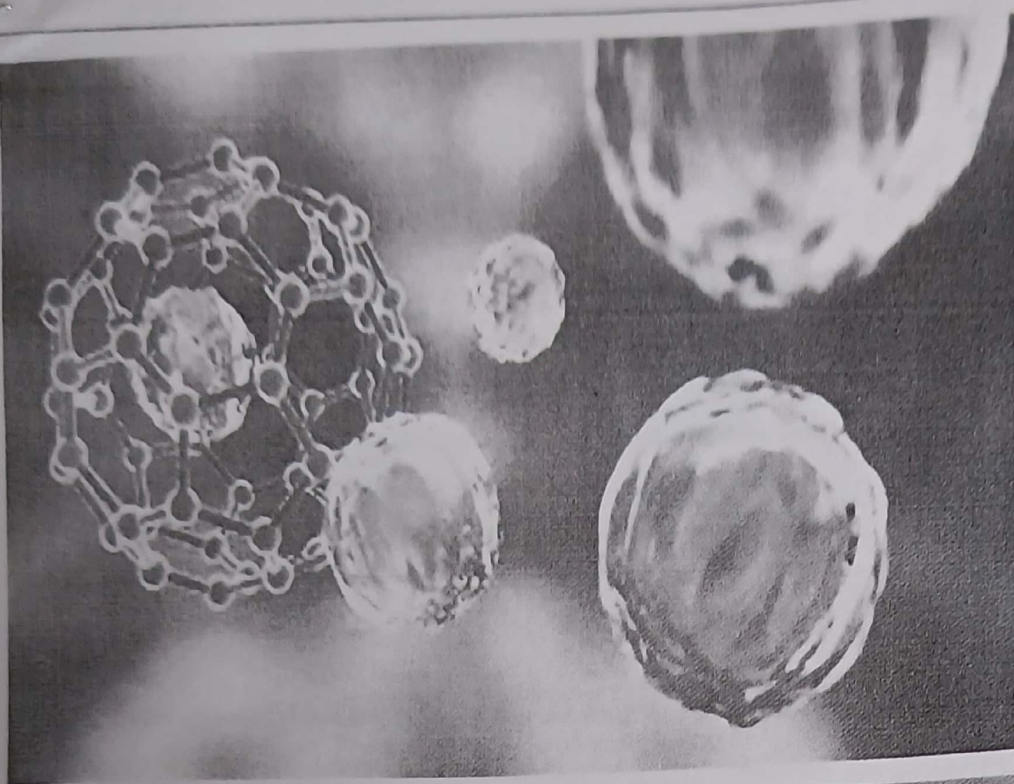


[II]



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

Dr. B. C. Roy College of Pharmacy & Arts
Durgapur, West Durgapur-713



**Overview On Nano Particles Used In The Treatment Of Type 2
Diabetes Mellitus**

Under Guidance Of,
Prof. (Dr.) Samir Kumar Samanta

SUBMITTED BY,

Suranjana Basak

University roll no: 18901921107


SUBMITTED TO,

Maulana Abul Kalam Azad University of Technology West Bengal

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

Durgapur 713206 (23-24)




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 "Overview On Nano Particles Used In The Treatment Of Type 2 Diabetes Mellitus" 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 Prof. (Dr.) Samir Kumar Samanta.

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

Sumanjana Basak

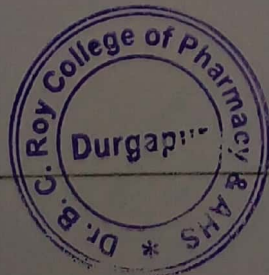
Signature

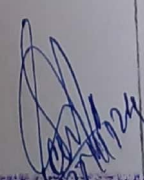
Name of Candidate: Sumanjana Basak

Roll No: 18901921107

Date: 03/06/24

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 "Overview On Nano Particles Used In The Treatment Of Type 2 Diabetes Mellitus" by **Suranjana Basak** 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:

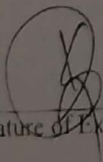
Place:



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

Date:


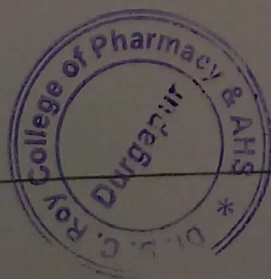
Place:



Signature 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-713 000



^

Project Report on

**“POLYSACCHARIDE
BASED HAEMOSTATIC
DRESSINGS”**

Submitted by

SUSHANTA SINGHA

University Regn. No. -201890201910031of2020-21

Roll No. -18901920074

Under the guidance of

Dr. Hriday Bera

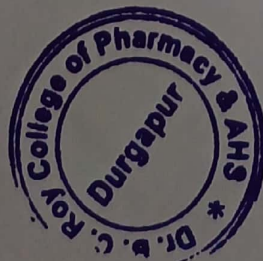
Associate Professor


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

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

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

Academic Year: 2020-2024




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

I hereby declare that the Project entitled "*Polysaccharide based haemostatic dressings*" 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. Hridny Berna.

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

Sushanta Sinha

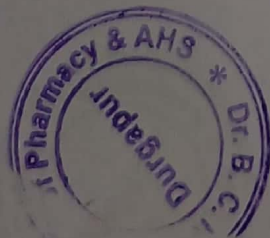
Signature

Name of Candidate: *Sushanta Sinha*

Roll No: *18901920074*

Date: *03/06/24*

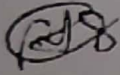
Place: *Durgapur.*



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

CERTIFICATE

This is to certify that the Project entitled "Polysaccharide based haemostatic dressings" by Sushant Singh 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.

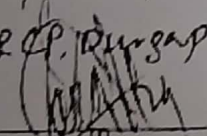


Signature of Supervisor

Name of Supervisor:

Date: 03/06/2024

Place: BCRCP, Durgapur


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

Date:

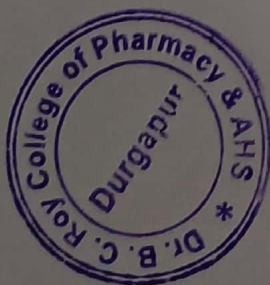
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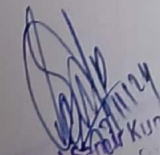


Signature of External Examiner

Date: 3/6/24

Place: Durgapur,




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



A
Project Report on

REVIEW ON CIPROFLOXACIN CONJUGATES

Submitted by

SUSHOVAN MAITY

University Regn. No. – 201890201910051

Roll No.- 18901920054

Under the guidance of

Dr. Ujjwal Sahoo

Associate Professor

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

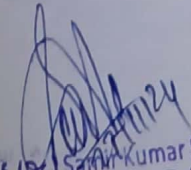
Submitted to

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

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

Academic Year: 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

I hereby declare that the Project entitled "Review on Ciprofloxacin Conjugates" 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. Ujjwal Sahoo.

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

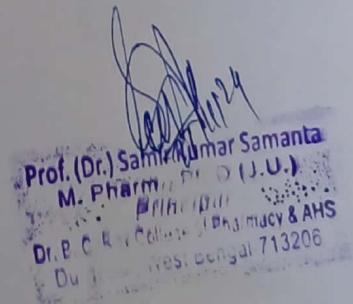
Sushovan Maity
Signature

Name of Candidate: Sushovan Maity

Roll No: 18901920054

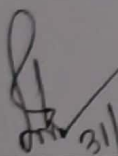
Date: 31.05.21

Place: Durgapur



CERTIFICATE

This is to certify that the Project entitled "Review on Ciprofloxacin Conjugates" by Sushovan Maity 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.

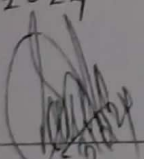

31/5/2024

Signature of Supervisor

Name of Supervisor: Dr. Ujjwal Sahoo

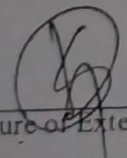
Date: 31/5/2024

Place: Durgapur


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

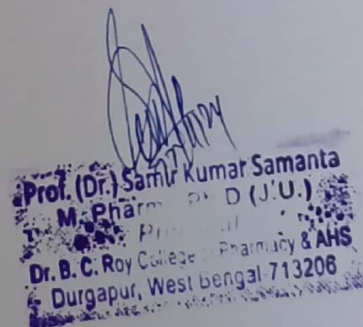
Date:

Place: Durgapur


Signature of External Examiner

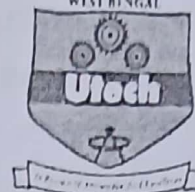
Date:

Place: Durgapur





MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Report on

**2D-QSAR analysis of Pyrimidinone amine derivatives
as ROCK2 inhibitors in the treatment of Psoriasis.**

Submitted by
Tamal Chatterjee
University Regn. No. -201890201910100
of
2020-21
Roll No. -18901920005

Under the guidance of
Soumya Mitra
Assistant Professor

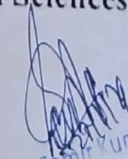
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

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: 2023 - 2024

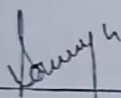



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (U. U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 713206



CERTIFICATE

This is to certify that the Project entitled "2D-QSAR analysis of Pyrimidinone amine derivatives as ROCK2 inhibitors in the treatment of Psoriasis" by Tamal 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/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.

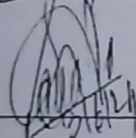


Signature of Supervisor **Soumya MITRA**

Name of Supervisor:

Date: **03/06/24**

Place: **DURGAPUR**




PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place:



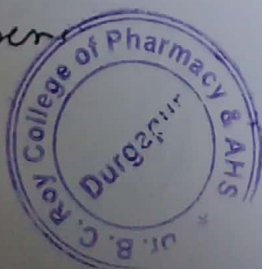
Prof. (Dr.) Samir Kumar Samanta
M. Pharm. (J.U.)
Faculty of Pharmacy & AHS
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713200



Signature of External Examiner

Date: **31/6/24**

Place: **Durgapur**



DECLARATION

I hereby declare that the Project entitled "2D-QSAR analysis of Pyrimidinone amine derivatives as ROCK2 inhibitors in the treatment of Psoriasis" 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.

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

Tamal Chatterjee
Signature

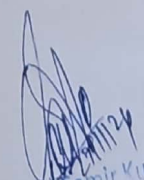
Name of Candidate: Tamal Chatterjee

Roll No: 18901920005

Date: 03/06/2024

Place: Durgapur




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



A
**Supply Chain Management in the
Pharmaceutical Industry**

Submitted by
Tamal Paria

University Regn. No. -201890201910017
Roll No. -18901920088

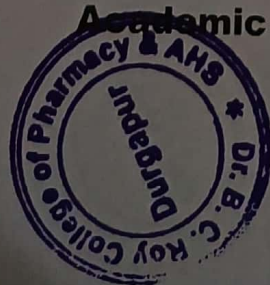
Under the guidance of
Dr. Souvik Basak


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

Academic Year: 2023 - 2024

DECLARATION

I hereby declare that the Project entitled "A Supply Chain Management Of the Pharmaceutical Industry" 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.

Tamal Paria

Signature


Name of Candidate: Tamal Paria

Roll

No:18901920088

ii | Page




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

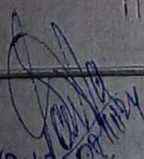
A Supply Chain Management in the Pharmaceutical Industry

Date: 03/06/2024

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

Page




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

A Supply Chain Management in the Pharmaceutical Industry

CERTIFICATE

This is to certify that the Project entitled "A
Supply Chain Management Of the Pharmaceutical
Industry

" by Tamal Paria 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.

Souvik Basak
3/11/24

Signature of Supervisor

Name of Supervisor: Dr. Souvik Basak

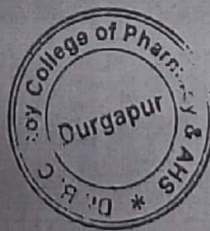
Date:

Place:

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

Date:

Place:

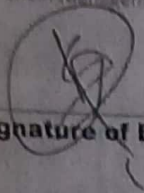


2 | Page



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

A Supply Chain Management in the Pharmaceutical Industry


Signature of External Examiner

Date:

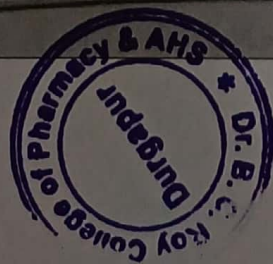
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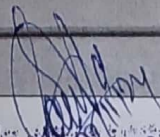
ACKNOWLEDGEMENTS

My sincere gratitude goes out to everyone who helped me do my final year project on supply chain management in the pharmaceutical business, both individually and through organizations. First and foremost, I would like to sincerely thank Dr. Souvik Basak, my academic advisor, for his help and support with this research. They have provided me with excellent direction and thoughtful criticism. Their knowledge and commitment have been extremely helpful in negotiating the challenges of this project. I also owe a debt of gratitude to Dr. B C Roy College Of Pharmacy and Allied Health Sciences and Bachelor Of Pharmacy for furnishing the tools and setting that I needed to conduct my research. We would especially want to thank the technical support team and library workers for helping us access pertinent resources and data.

I express my gratitude to the pharmaceutical companies and specialists who generously contributed to our study. Their readiness to offer their knowledge and perspectives has greatly improved the calibre and applicability of our study. Finally, I want to express my sincere gratitude to my family for their constant support

3 | Page




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



A
Project Report
On

**Multitasking Box-Jenkins moving average based cheminformatic
modelling to characterize the aquatic toxicity of Pharmaceutical
Personal Care Products (PPCPs)**

Submitted by
Tanushree Pradhan

University Reg. No. -201890201910016 of 2020-21
Roll No. - 18901920089

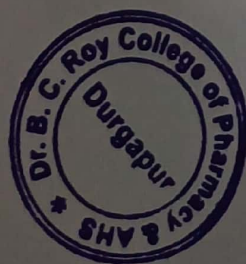
Under the guidance of
Dr. Amit Kumar Halder
Associate Professor of BCRCP, Durgapur

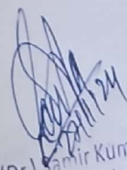
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

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

I hereby declare that the Project entitled "Multitasking Box-Jenkins moving average based cheminformatic modelling to characterize the aquatic toxicity of Pharmaceutical Personal Care Products (PPCPs)" 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.

Tanushree Pradhan
Signature

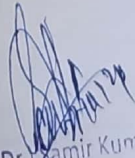
Name of Candidate: Tanushree Pradhan

Roll No: 18901920089

Date: 03/06/2024

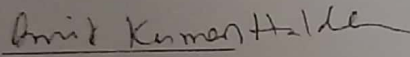
Place: Durgapur




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

CERTIFICATE

This is to certify that the Project entitled "Multitasking Box-Jenkins moving average based cheminformatic modelling to characterize the aquatic toxicity of Pharmaceutical Personal Care Products (PPCPs)" by Tanushree Pradhan 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.

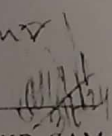


Signature of Supervisor

Name of Supervisor: Dr. Amit Kumar Halder

Date 03/06/2024

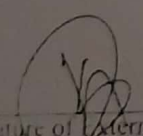
Place Durgapur



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

Date

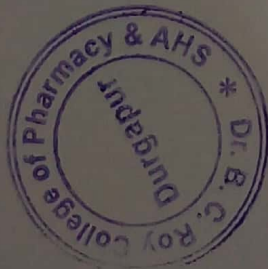
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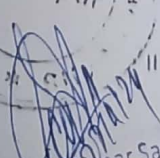


Signature of External Examiner

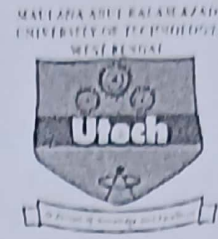
Date

Place




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





Project Report on

FRONTIERS IN ADVANCED PHARMACEUTICAL TECHNOLOGY: INNOVATIONS AND APPLICATIONS

Submitted by

TAPABRATA BHANJA

University Regn. No. - 201890201910071 of 2020-21

Roll No. -18901920034

Under the guidance of

Dr. Manami Dhibar

M.Pharm., Ph.D.

Assistant Professor

(Department of Pharmaceutics)

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

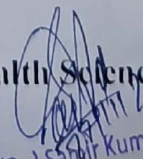
Submitted to

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

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

Academic Year: 2023-2024




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



DECLARATION

I hereby declare that the Project entitled "Frontiers in Advanced Pharmaceutical Technology: Innovation and Applications" 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. Manami Dhibar

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

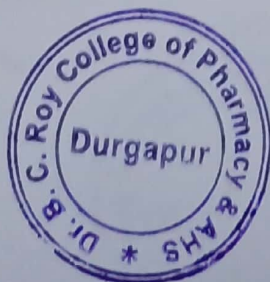
Tapabrata Bhanja
Signature

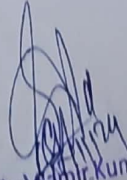
Name of Candidate: TAPABRATA BHANJA

Roll No: 18901920034

Date: 03/06/2024

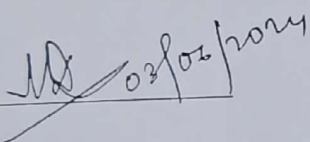
Place: Durgapur.




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 "Frontiers in Advanced Pharmaceutical Technology: Innovation and Applications" by TAPABRATA BHANJA in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original review 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.

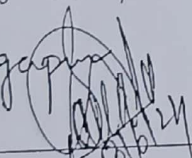


Signature of Supervisor

Name of Supervisor: Dr. Manami Dhibar,
M.Pharm., Ph.D.
Assistant Professor, Department of Pharmaceutics

Date: 03.06.2024


Place: Durgapur



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

Date:

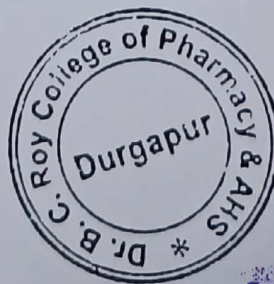
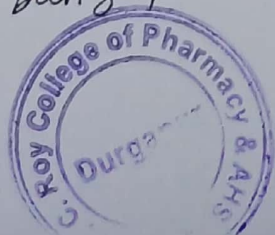
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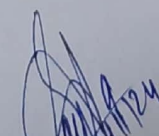


Signature of External Examiner

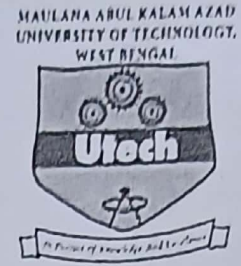
Date: 31/6/24

Place: Durgapur.





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



A

Project Report on

**2D-QSAR analysis of Pyrimidinone amine derivatives
as ROCK2 inhibitors in the treatment of Psoriasis.**

Submitted by

Tushar Debnath

University Regn. No. -201890201910097

of

2020-21

Roll No. -18901920008

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: 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

I hereby declare that the Project entitled "2D-QSAR analysis of Pyrimidinone amine derivatives as ROCK2 inhibitors in the treatment of Psoriasis" 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.

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

Tushar Debnath.
Signature

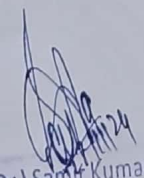
Name of Candidate: TUSHAR DEBNATH.

Roll No: 18901920008.

Date: 03.06.2024

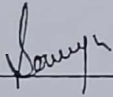
Place: DURGAPUR.




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 of Pyrimidinone amine derivatives as ROCK2 inhibitors in the treatment of Psoriasis" by Tushar 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.

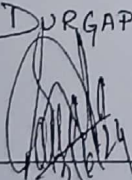


Signature of Supervisor

Name of Supervisor: SOUMYA MITRA

Date: 03/06/24

Place: DURGAPUR



PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

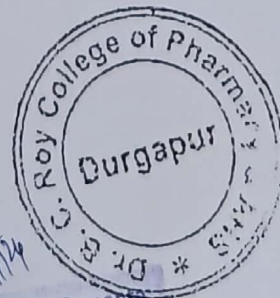
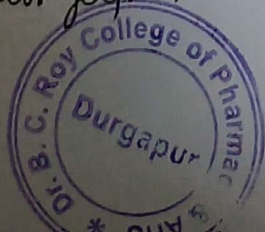
Place:



Signature of External Examiner

Date: 31/6/24

Place: Durgapur



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



A
Project Report on

REVIEW ON CIPROFLOXACIN CONJUGATES

Submitted by

VANSHIKA AGARWAL

University Regn. No. -201890201910021

Roll No. -18901920084

Under the guidance of

Dr. Ujjwal Sahoo

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.) 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 of Ciprofloxacin Conjugates" 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. Ujjwal Sahoo.

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

Vanshika Agarwal
Signature


Name of Candidate: Vanshika Agarwal

Roll No: 18901920084

Date: 3/6/24

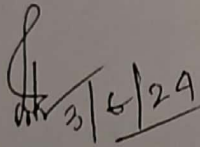
Place: Durgapur




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 "Review of Ciprofloxacin Conjugates" by Vanshika Agarwal 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.

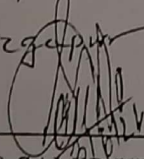

3/6/24

Signature of Supervisor

Name of Supervisor: Dr. Ujjwal Sahoo.

Date: 3/6/24


Place: Durgapur



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

Date:

Place:



Signature of External Examiner

Date:

Place:



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

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

III





A
Project Report on

**A STUDY OF COMMON APPARATUS AND
TECHNIQUES USED IN CHEMICAL SYNTHESIS
LABORATORY OF A
PHARMACEUTICAL INDUSTRY**

Submitted by
VISHAL KUMAR MAHATO

University Regn. No. – 201890201910056
Roll No.- 18901920049

Under the guidance of
Dr. Subhabrata Ray
Associate Professor

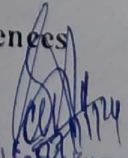
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

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 "A STUDY OF COMMON APPARATUS AND TECHNIQUES USED IN CHEMICAL SYNTHESIS LABORATORY OF A PHARMACEUTICAL INDUSTRY" 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.

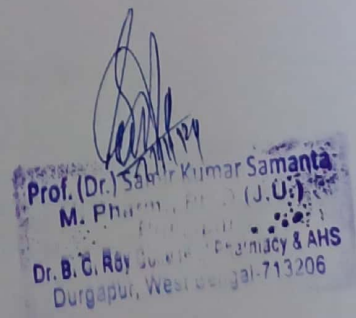
Vishal K. Mahato
Signature

Name of Candidate: Vishal Kumar Mahato

Roll No: 18901920049

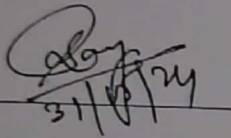
Date: 31/05/24

Place: Durgapur



CERTIFICATE

This is to certify that the Project entitled "A STUDY OF COMMON APPARATUS AND TECHNIQUES USED IN CHEMICAL SYNTHESIS LABORATORY OF A PHARMACEUTICAL INDUSTRY" by Vishal Kumar Mahato 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. Subhabrata Ray

Date:

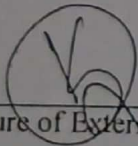
Place: Durgapur



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

Date:

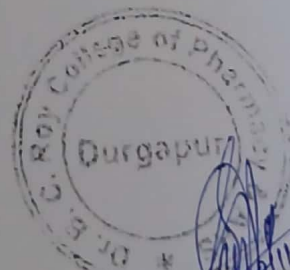
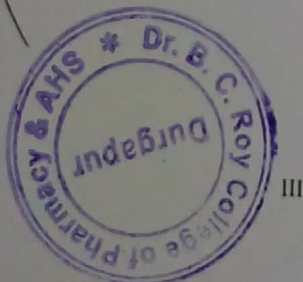
Place: Durgapur



Signature of External Examiner

Date:

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 741006



A

Project Report on

**STIMULI - RESPONSIVE DRUG DELIVERY
SYSTEM FOR INFLAMMATORY BOWEL
DISEASE (IBD) THERAPY**

Submitted by

RIYA KUNDU

University Regn. No. -211890201920002

Roll No. -18901921113

Under the guidance of

Indrajit Chand

(Assistant Professor)

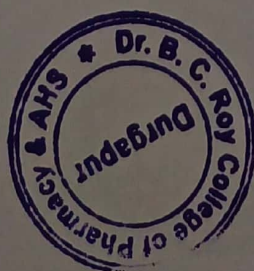
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

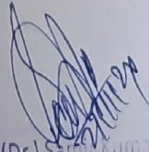
Submitted to

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

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

Academic Year: 2023 - 2024




Prof. (Dr.) Sarmi 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 "Stimuli-responsive drug delivery System for Inflammatory Bowel Disease (IBD) therapy" 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 **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.

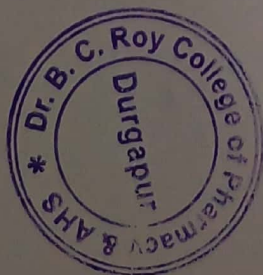
Signature Riya Kundu

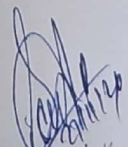
Name of Candidate: Riya Kundu

Roll No: 18901921113

Date: 3.8.2024

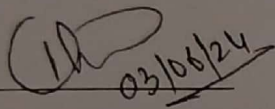
Place: Durgapur




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 "Stimuli-responsive drug delivery System for Inflammatory Bowel Disease (IBD) therapy" by Riya kundu 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.

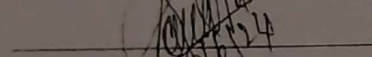

03/06/24

Signature of Supervisor

Name of Supervisor: Indrajit Chand

Date: 03/06/24

Place: Durgapur


03/06/24

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

Date:

Place:



Signature of External Examiner

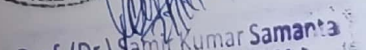
Date: 8/6/24

Place: Durgapur



2

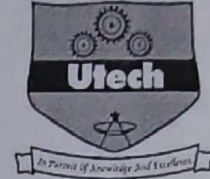



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-726006





MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A

Project Report on

Market Analysis on Novel Drug Delivery System

Submitted by

RONAJIT MONDAL

University Regn. No. - 201890201910050 of 2020-21

Roll No. - 18901920055

Under the guidance of

Mrs. RITUPARNA CHAKI GHOSH

Assistant Professor (dept. Pharmaceutics)

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

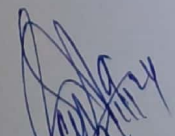
Submitted to

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

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

Academic Year: 2023 - 2024




Prof. (Dr.) Sanyu 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 "Market Analysis On Novel 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 Assistant Prof. Rituparna Chaki Ghosh.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any Maulana Abul Kalam Azad University of Technology .

Ronajit Mondal
Signature

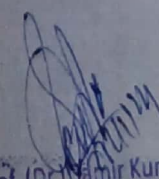
Name of Candidate: Ronajit Mondal

Roll no: 18901920055

Date: 03/06/2024

Place: Durgapur.




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. ()
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 726006

CERTIFICATE

This is to certify that the Project entitled "Market Analysis on Novel Drug Delivery System" by Ronajit 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.

Shree
30/6/24
Signature of Supervisor

Name of Supervisor:- ASST. PROF. Mrs. Rituparna Chaki Ghosh

Date: 03/06/2024

Place: Durgapur

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

Date:

Place:

[Signature]
Signature of External Examiner

Date: 31/6/24

Place: Durgapur



[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy
Durgapur, West Bengal
SHS
06



A

Project Report on



EXISTING DRUG DELIVERY SYSTEM FOR INFLAMMATORY BOWEL DISEASE

Submitted by

SAGAR MANDAL

University Regn. No. – 201890201910012 of 2020-21

Roll No. – 18901920093

Under the guidance of

Mr. Indrajit Chand

Assistant Professor, BCRCP

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

Submitted to

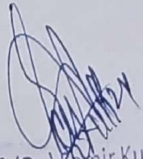
**Maulana Abul Kalam Azad University of Technology
West Bengal**

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

Durgapur 713206

Academic Year: 2023 - 2024




Prof. (Dr.) Barnir 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 "Existing Drug Delivery System for Inflammatory Bowel 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. 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.

Signature: Sagar Mandal

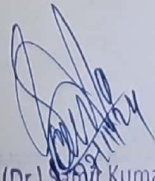
Name of the Candidate: Sagar Mandal

Roll No: 18901920093

Date: 03/06/24

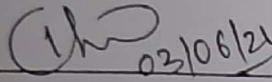
Place: Durgapur




Prof. (Dr.) Sanjit Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713008

CERTIFICATE

This is to certify that the Project entitled "Existing Drug Delivery System for Inflammatory Bowel disease" by Sagar Mandal 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.


03/06/24

Signature of Supervisor

Name of Supervisor: M.Y. Indrajit Chaud

Date: 03/06/24

Place: Durgapur



PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place:

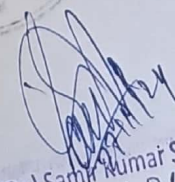


Signature of External Examiner

Date: 3/6/24

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
"A REVIEW OF DIABETIC WOUND AND ITS
TREATMENTS"

Submitted by

NAME- SAGNIK DE

Roll No -18901920003

University Regn. No. – 201890201910102 (2020-2021)

Under the guidance of

Dr. Yadu Nandan Dey

Associate Professor

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

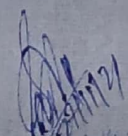
Submitted to

Maulana Abul Kalam Azad University of Technology
West Bengal

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

Academic Year: 2023- 2024




Prof. (Dr.) Sanku Kumar Samanta
M. Pharm
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal



DECLARATION

This is to certify that the Project entitled "A REVIEW OF DIABETIC WOUND AND ITS TREATMENT" 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. Yashu Nandan Dey.

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

Signature

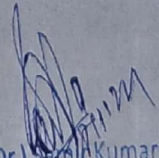
Name of Candidate:

Roll No:

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

CERTIFICATE

This is to certify that the Project entitled "A REVIEW OF DIABETIC WOUND AND ITS TREATMENT" by Sagnik De is 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.

Indu Mandan Dey

Signature of Guide, Dr

Name of Guide: *Dr Indu Mandan Dey*

Date: *03-06-24*

Place: *Durgapur*

[Signature]

PROF. (DR.) SAMIR KUMAR SAMANTA

(PRINCIPAL)

Date:

Place:

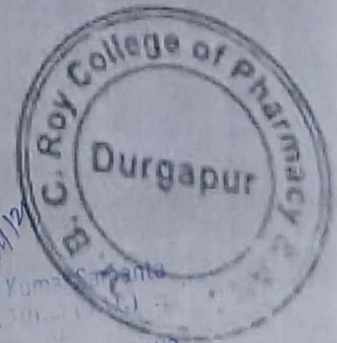
[Signature]

Signature

Name of External Examiner:

Date:

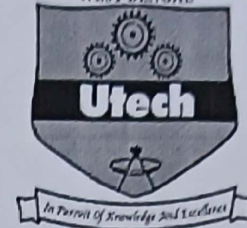
Place:



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



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A

Project Report on

Immunotherapy of Alzheimer's Diseases

&

Over view

Submitted by

Saikat Goswami

University Regn. No. –

201890201910094 of 2020-21

Roll No. -

18901920011

Under the guidance of

Atreyee Ganguly

Assistant Professor

In partial fulfilment of the Requirement for the Degree of

Bachelor of Pharmacy

Submitted to

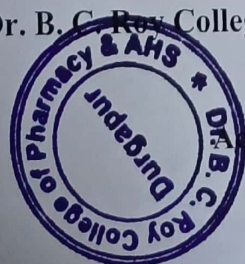
Maulana Abul Kalam Azad University of Technology

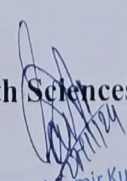
West Bengal

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

Durgapur 713206

Academic Year: 2020 – 2024




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



DECLARATION

I hereby declare that the Project entitled "**Immunotherapy of Alzheimer's Diseases & Over view**" 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 **Atreyee Ganguly**

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

Saikat Goswami

Signature

Name of Candidate: Saikat goswami

Roll No: 18901920011

Date: 03/06/24

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 "**Immunotherapy of Alzheimer's Diseases & Over view**" by **Saikat 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/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.

Ahijee Ganguly

Signature of Supervisor

Name of Supervisor: *Ahijee Ganguly*

Date: *03/06/24*

Place: *Durgapur*

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

(PRINCIPAL)

Date: *03/06/24*

Place: *Durgapur*

[Signature]
Signature of External Examiner

Date:

Place:

2 | Page



[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

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

Submitted by

Sampriti Mishra

University Registration Number – 201890201910089

of 2020-21

University Roll Number – 18901920016

Under the guidance of

Mrs. Surita Ghosh

Assistant professor 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: 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

I hereby declare that the Project entitled "Investigation of Novel Drug Target And Latest Update on Antihypertensive Therapy" 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 Assistant Professor **Mrs. 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.

Sampriti Mishra
Signature

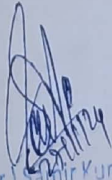
Name of Candidate: Sampriti Mishra

Roll No: 18901920016

Date: 03/06/24

Place: Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm. (D. J.U.)
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" by Sampriti Mishra 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
Signature of Supervisor

Name of Supervisor: Mrs. Surita Ghosh

Date: 03.06.2024

Place: Durgapur

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

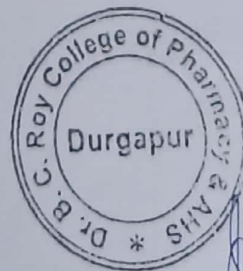
Date:

Place:

Samir Kr. Samanta
Signature of External Examiner

Date: 3/6/24

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



"Mechanism, Management and clinical Perspective of Diabetic Cataract "

Submitted by

SAMPRITI PRAMANICK

University Regn. No. – 211890201920008

Roll No. -18901921110

Under the guidance of

SAROJ SINGHMURA

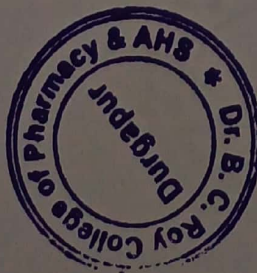
ASSISTANT PROFESSOR

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

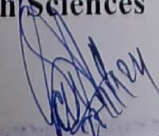
Submitted to

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

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



Academic Year: 2023 - 2024


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



DECLARATION

I hereby declare that the Project entitled "Mechanism, Management and clinical Perspective of Diabetic Cataract" 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 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.

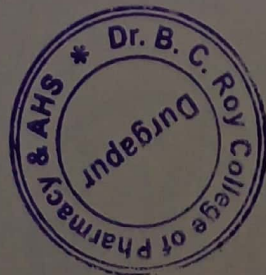
Sampriti Paramanick
Signature


Name of Candidate: Sampriti Paramanick

Roll No: 18001921110

Date: 3/6/2024

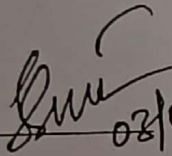
Place: Durgapur




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

CERTIFICATE

This is to certify that the Project entitled "MECHANISM, MANAGEMENT AND CLINICAL PERSPECTIVE OF DIABETIC CATARACT" by SAMPRITI PRAMANICK 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.

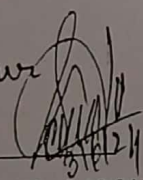

02/06/24

Signature of Supervisor

Name of Supervisor: Mr. Saroj Singhmura

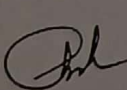
Date: 3/6/24

Place: Durgapur


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

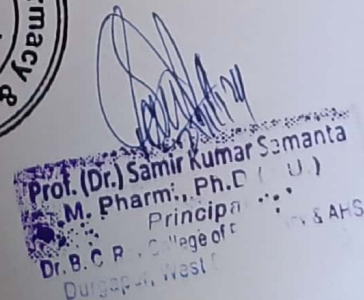
Date:

Place:


Signature of External Examiner

Date: 3/6/24

Place: Durgapur.





MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Report on

DNA MICROARRAY TECHNOLOGY

Submitted by

SANDIP RUHIDAS

University Regn. No. – 211890201920004(2021-2022)

Roll No. - 18901921115

Under the guidance of

Dr. Abhik Si

(Associate Professor)

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

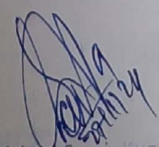
Submitted to

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

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

Academic Year: 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

I hereby declare that the Project entitled "DNA Microarray Technology" 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.

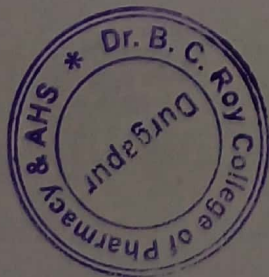
Sandip Ruhidas
Signature

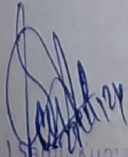
Name of Candidate: **Sandip Ruhidas**

Roll No: **18901921115**

Date: **03/06/2024**

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




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 "DNA Microarray Technology" by Sandip Ruhidas 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 Si

Date: 3/6/24

Place: BCRCP, DGA.

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

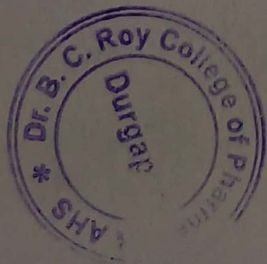
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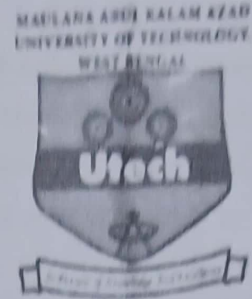
Signature of External Examiner

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-713149



A

Project Report On

**A REVIEW ON NOVEL APPROACHES OF
FLOATING DRUG DELIVERY SYSTEM**

Submitted by

SHANTANU BERA

University Regn. No. – 201890201910077

Roll No. – 18901920028

Under the guidance of

Mr. SNEHANSU BISWAS

Assistant Professor

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

Submitted to

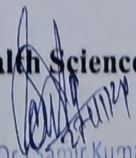
**Maulana Abul Kalam Azad University of Technology
West Bengal**

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. (I.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 Novel Approaches of Floating 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 Mr. SNEHANSU BISWAS.

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

Shantanu Bera

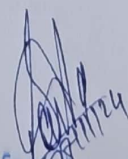
Name Of Candidate: SHANTANU BERA

Roll No: 18901920028

Date: 3/6/2024

Place: Durgapur




Prof. (Dr.) Sandeep 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 Novel Approaches of Floating Drug Delivery System" by SHANTANU BERA 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.

Biswas
03/06/2024

Signature of Supervisor

Name of Supervisor: MR. SNEHANSU BISWAS

Date: 03/06/2024

Place: Durgapur

[Signature]
03/06/24

PROF (DR.) SAMIR KUMAR SAMANTA

(PRINCIPAL)

Date:

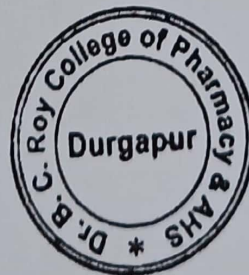
Place:

[Signature]

Signature of External Examiner

Date:

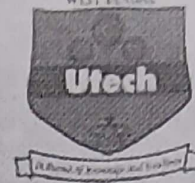
Place



[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



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A

Project Report on

Modified Polysaccharide Based Drug Delivery System for Inflammatory Bowel Disease Therapy

Submitted by

Saptarshi Bhattacharjee

University Regn. No. -201890201910030 of 2020-21

Roll No. -18901920075

Under the guidance of

Mr. Indrajit Chand

Designation

Assistant Professor

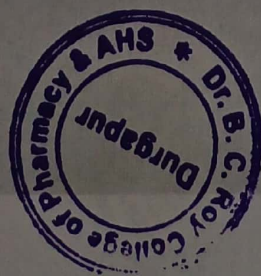
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to

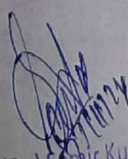
**Maulana Abul Kalam Azad University of Technology
West Bengal**

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

Academic Year: 2023 - 2024



1


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



DECLARATION

I hereby declare that the Project entitled "Modified Polysaccharide Based Drug Delivery System for Inflammatory Bowel Disease Therapy" 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, BCRCP

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

Saptarshi Bhattacharjee
Signature

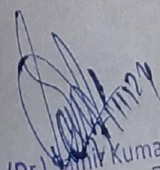
Name of Candidate: Saptarshi Bhattacharjee

Roll No: 18901920075

Date: 03/06/2024

Place: Durgapur




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 "Modified Polysaccharide Based Drug Delivery Systems for Inflammatory Bowel Disease Therapy" by Saptarshi Bhattacharjee 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) 03/06/24

Signature of Supervisor

Name of Supervisor: Indrajit Chand

Date: 03/06/24

Place: Durgapur

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

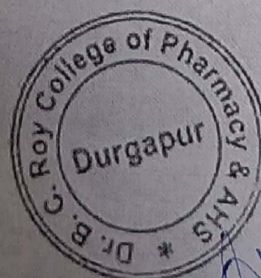
Date:

Place:

(Signature)
Signature of External Examiner

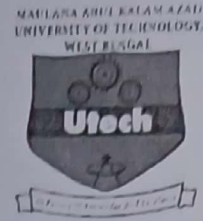
Date: 3/6/24

Place: Durgapur



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





A
Project Report on

HPLC TROUBLESHOOTING

Submitted by

SARBARTHA DAS

University Regn. No. - 201890201910055 of 2020-21
Roll No. - 18901920050

Under the guidance of
Dr. Manabendra Dhua
Assistant Professor, BCRC

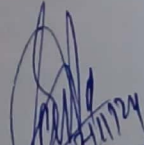
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

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



DECLARATION

I hereby declare that the Project entitled "HPLC Troubleshooting" 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**.

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

Sarbartha Das

Signature

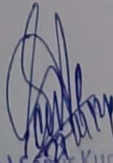
Name of Candidate: Sarbartha Das

Roll No. 18901920050

Date: 03/06/24

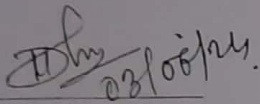
Place: Durgapur




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 "HPLC Troubleshooting" by Sarbartha 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/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. Manabendra Dhua

Date: 03/06/24

Place: Durgapur



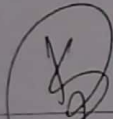
Signature of External Examiner

Date:

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

Place:

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



PROF. (DR.) SAMIR K.R. SAMANTA


(PRINCIPAL)

Date:

Place:

(External)




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 CURRENT APPROACHES ON NON-FLOATING DRUG DELIVERY SYSTEM

Submitted by

SATHI GHOSH

University Regn. No. – 201890201910095

Roll No. – 18901920010

Under the guidance of

Mr. SNEHANSU BISWAS

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: 2023– 2024



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



DECLARATION

I hereby declare that the Project entitled "A Review on Current Approaches on Non- Floating 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 bona fide work carried out by me under the guidance of Mr. SNEHANSU BISWAS.

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

Sathi Ghosh

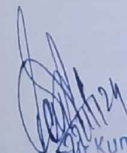
Name Of Candidate: Sathi Ghosh

Roll No: 18901920010

Date: 03/06/24

Place: Durgapur




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



CERTIFICATE

This is to certify that the Project entitled "A Review on Current Approaches on Non- Floating Drug Delivery System" by SATHI GHOSH 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.

Snehasu Biswas
03/06/2024

Signature of Supervisor

Name of Supervisor: **Mr. SNEHANSU BISWAS**

Date: 03/06/2024

Place: Durgapur

[Signature]

PROF (DR.) SAMIR KUMAR SAMANTA

(PRINCIPAL)

Date:

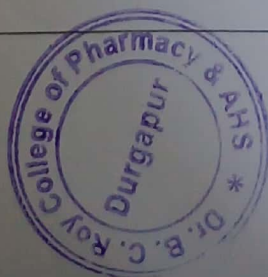
Place:

[Signature]

Signature of External Examiner

Date:

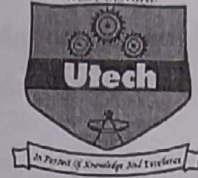
Place:



[Signature] 2
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

Radioimmunoassay

Submitted by

Saumyabrata Bhattacharya

University Regn. No. -201890201910020

Roll No. -18901920085

Under the guidance of

Dr. Amit Kumar Halder

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

Submitted to

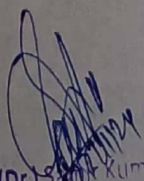
**Maulana Abul Kalam Azad University of Technology
West Bengal**

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

Durgapur 713206

Academic Year: 2023 - 2024




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



DECLARATION

I hereby declare that the Project entitled **Radioimmunoassay** 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. 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.

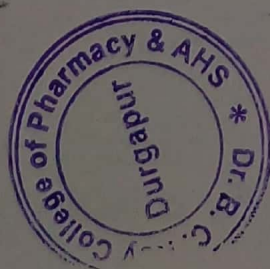
Saumyabrata Bhattacharya
Signature

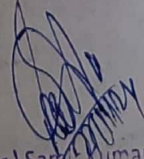
Name of Candidate: **Saumyabrata Bhattacharya**

RollNo: **18901920085**

Date: **03/06/2024**

Place: **Dr. B. C. Roy College of Pharmacy & A.H.S.**




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

CERTIFICATE

This is to certify that the Project entitled **Radioimmunoassay** by **Saumyabrata Bhattacharya** 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.

Amit Kumar Hazder

Signature of Supervisor

Name of Supervisor: DR. AMIT KUMAR HAZDER

Date: 03/06/2024

Place: Durgapur

Prof. (Dr.) Samir Kr. Samanta

(PRINCIPAL)

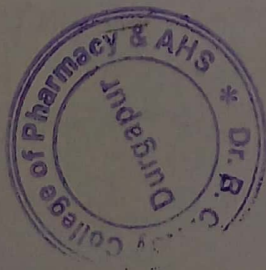
Date:

Place:

Signature of External Examiner

Date:

Place:



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



A
Project Report on

BIOLOGICAL ACTIVITIES OF INDOLE DERIVATIVES

Submitted by
SAYAN HATI

University Regn. No. -201890201910040

Roll No. -18901920065

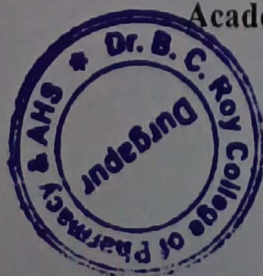
Under the guidance of
Dr. SUDIP KUMAR MANDAL
Asst. Professor

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



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



DECLARATION

I hereby declare that the Project entitled " **BIOLOGICAL ACTIVITIES OF INDOLE 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 **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.

Sayan Hati
Signature

Name of Candidate: **SAYAN HATI**

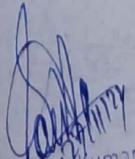
Roll No: **18901920065**

Date: **03/06/24**

Place **Durgapur**



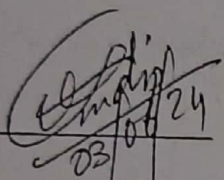
(1)


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



CERTIFICATE

This is to certify that the Project entitled " **BIOLOGICAL ACTIVITIES OF INDOLE DERIVATIVES** " by **SAYAN HATI** 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.

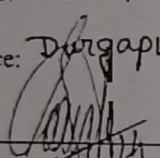


Signature of Supervisor

Name of Supervisor: *Sudip Kumar Mandal*

Date: *03/06/24*

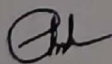
Place: *Durgapur*



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

Date:

Place:



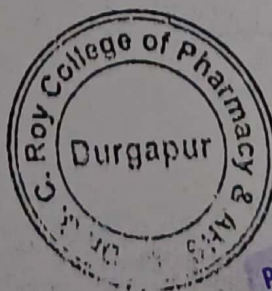
Signature of External Examiner

Date: *31/6/24*

Place: *Durgapur*



(II)



Prof. (Dr.) Samir Kumar Samanta
M. Pharm. Ph.D (J.U.)
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A Project Report on
STABILITY FACTORS OF EMULSION AND SUSPENSION

Submitted by

SAYAN KAR

University Regn. No. – 201890201910057 of 2020-21

Roll No. 18901920048

Under the guidance of

Mr. Saptarshi Dutta

Assistant Professor

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

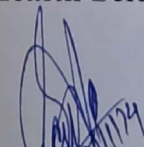
Submitted to

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

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

Academic Year: 2023-2024




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

DECLARATION

I hereby declare that the Project entitled “**STABILITY FACTORS OF EMULSION AND SUSPENSION**” 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. 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.

Sayan Kar
Signature

Name of Candidate: Sayan Kar


Roll No: 18901920048

Date: 03.03.2024

Place: Durgapur



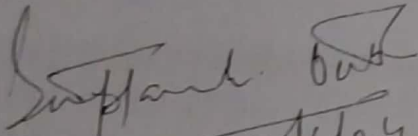
[I]


Prof. (Dr.) Saptarshi 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 "STABILITY FACTORS OF EMULSION AND SUSPENSION" by Sayan Kar 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 for assessment.



Signature of Supervisor

Name of Supervisor: M. Saptatshi Datta

Date:

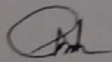
Place:



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

Date:

Place:




Signature of External Examiner

Date: 21/1/24

Place: Durgapur




Prof. (Dr.) Samir Kumer Samanta
M. Pharm., Ph.D. (J.U.)
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 pt883

REVIEW ON USE OF CASPASES FOR TARGETED DRUG DELIVERY

Submitted by

SAYAN NANDI

University Regn. No. -201890201910072 of 2020-2021

Roll No. -18901920033

Under the guidance of

DR. ABHIK SI

Associate Professor

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

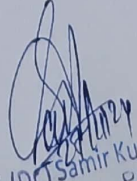
Submitted to

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

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

Academic Year: 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

I hereby declare that the Project entitled **REVIEW ON USE OF CASPASES FOR TARGATED DRUG DELIVARY** in partial fulfilment of the requirement for the award of Bachelor of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengai**, is an authentic record of bona fide work carried out by me under the guidance of **Mr. 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.

Sayan Nandi.

Signature

Name of Candidate: *Sayan Nandi.*

Roll No: *18901920033*

Date: *03.06.2024*

Place: *Durgapur.*



[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

CERTIFICATE

This is to certify that the Project entitled **REVIEW ON USE OF CASPASES FOR TARGETED DRUG DELIVERY** by **SAYAN NANDI** 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: **3/6/24.**

Place: **B.C.R.C.P., D.G.R.**

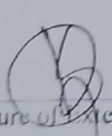


PROF. (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

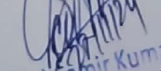
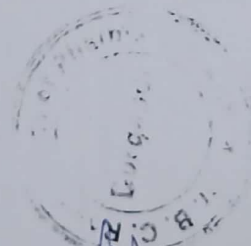
Place:



Signature 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



A
Project Report on

EFFECTS OF DIFFERENT CONCENTRATIONS OF MAGNESIUM STEARATE ON THE DISSOLUTION PROPERTY OF TABLETS

Submitted by

SHANKHASREE SEN

University Regn. No. -18901920099

Roll No. -2011018

Under the guidance of
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: 2023 - 2024



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

DECLARATION

I hereby declare that the Project entitled "EFFECTS OF DIFFERENT CONCENTRATIONS OF MAGNESSIUM STEARATE ON THE DISSOLUTION PROPERTY OF 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 **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.

Shankhasree Sen.

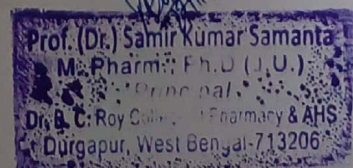
Signature

Name of the candidate: Shankhasree Sen

Roll No:18901920099

Date: 03/06/24

Place: Durgapur




CERTIFICATE

This is to certify that the Project entitled "EFFECTS OF DIFFERENT CONCENTRATION OF MAGNESSIUM STEARATE ON THE TABLET DISSOLUTION PROPERTY" by Shankhasree Sen 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

For. S. Chakrabarty . ?
Signature of Supervisor

Name of Supervisor:


Date:

Place: 

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

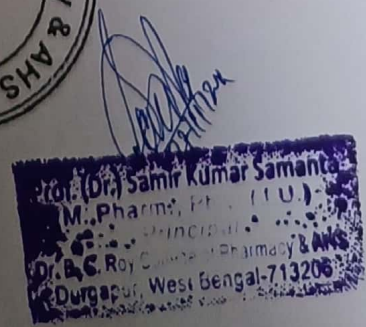
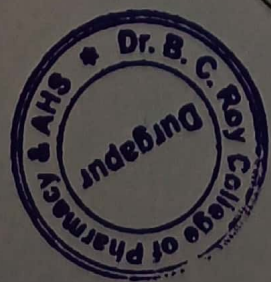
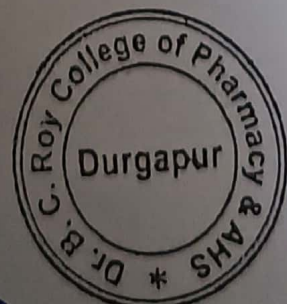
Date:

Place:


Signature of External Examiner

Date:

Place:





A
Project Report on

HPLC TROUBLESHOOTING

Submitted by

SHOAIB AKHTAR

University Regn. No. - 201890201910045 of 2020-21

Roll No. - 18901920060

Under the guidance of
Dr. Manabendra Dhua
Assistant Professor, BCRCP

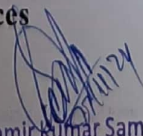
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

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: 2023 - 2024


Prof. (Dr.) Samir Kumar Samanta
M. Pharma, 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 "HPLC Troubleshooting" 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. Manabendra Dhua.

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

Shoaib Akhtar

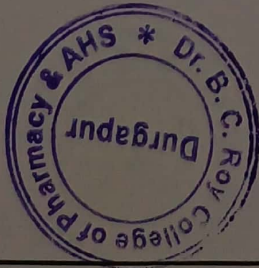
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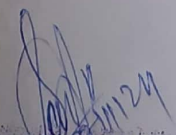
Name of Candidate: Shoaib Akhtar

Roll No: 18901920060

Date: 03.06.24

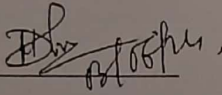
Place: Durgapur




Prof. (Dr.) Sanjit 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 "HPLC Troubleshooting" by Shoaib Akhtar 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.

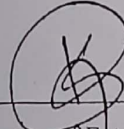


Signature of Supervisor

Name of Supervisor: Dr. Manabendra dhua

Date: 03.06.24

Place: Durgapur



Signature of External Examiner

Date:

Place:

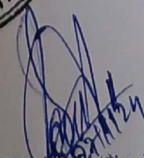
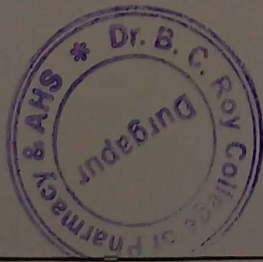
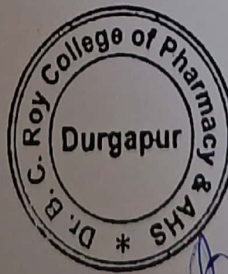


PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place:



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



A
Project Report on

NATURAL PRODUCTS IN TREATMENT OF ALCOHOLIC FATTY LIVER DISEASE

Submitted by

SHRABANI DAS

University Regn. No. – 201890201910027 of 2020-21
Roll No. - 18901920078

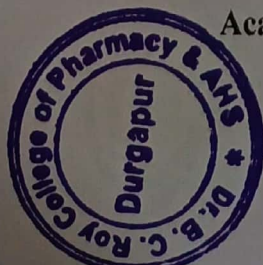
Under the guidance of
Mrs. Jayita Mondal
Designation
Assistant Professor

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: 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

I hereby declare that the Project entitled "Natural products in treatment of 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 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.

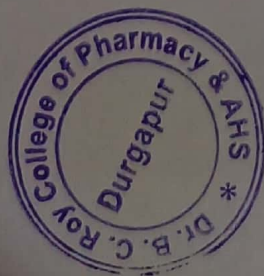
Shrabani Das
Signature

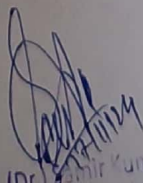
Name of Candidate: Shrabani Das

Roll No: 18901920078

Date: 03/06/2024

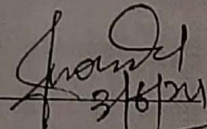
Place: Durgapur.




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 "Natural products in treatment of Alcoholic fatty liver disease" by Shrabani 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/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.

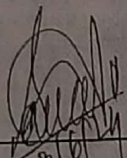


Signature of Supervisor

Name of Supervisor: Mrs. Jayita Mondal

Date:

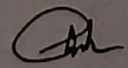
Place:



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

Date:

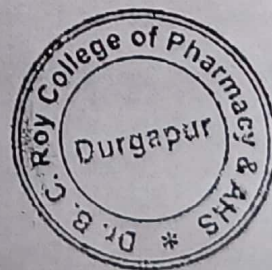
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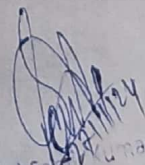


Signature of External Examiner

Date:

Place:





Prof. (Dr.) Samir Kumar Samanta
M. Pharm
Principal, Pharmacy & AHS
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

MELATONIN SUPPLEMENTS A NEW BOON FOR VARIOUS TREATMENT

Submitted by

SHYAMACHARAN BANERJEE

University Regn. No. – 201890201910084 of 2020-21

Roll No. - 18901920021

Under the guidance of

Mrs. Sushruta Chakraborty

Assistant Professor

(Department of Pharmacology)

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

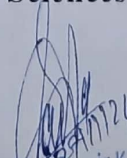
Submitted to

**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

I hereby declare that the Project entitled “**Melatonin Supplements a New Boon for Various Treatment**” 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. 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.

Shyamacharan Banerjee

Signature

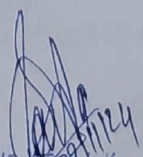
Name of Candidate: Shyamacharan Banerjee

Roll No: 18901920021

Date: 03.06.2024

Place: Durgapur

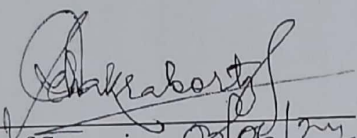



Prof. (Dr. S. K. Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



CERTIFICATE


This is to certify that the Project entitled “Melatonin Supplements a New Boon for Various Treatment” by Shyamacharan Banerjee 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

Name of Supervisor: Mrs. Sushurta Chakraborty

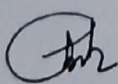
Date: 03.06.2024

Place: Durgapur


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

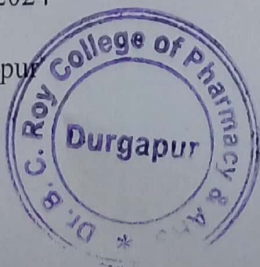
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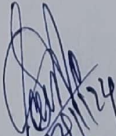
Place: Durgapur

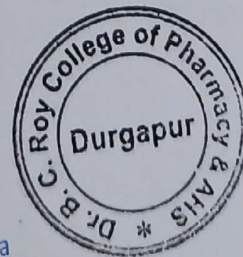

Signature of External Examiner

Date: 03.06.2024

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

**2D-QSAR analysis of Pyrimidinone amine derivatives
as ROCK2 inhibitors in the treatment of Psoriasis.**

Submitted by
Siddhanta Mishra
University Regn. No. -211890201920010
of
2021-22
Roll No. -18901921105

Under the guidance of
Soumya Mitra
Assistant Professor

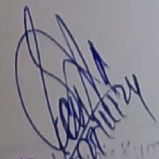
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

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

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

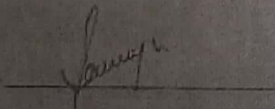


Academic Year: 2023 - 2024


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

CERTIFICATE

This is to certify that the Project entitled "2D-QSAR analysis of Pyrimidinone amine derivatives as ROCK2 inhibitors in the treatment of Psoriasis" by Siddhanta Mishra 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.

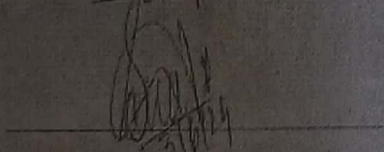


Signature of Supervisor

Name of Supervisor: SOUMYA MITRA

Date: 03/06/24

Place: DURGAPUR

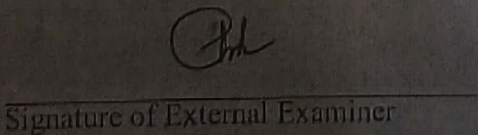


PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place:

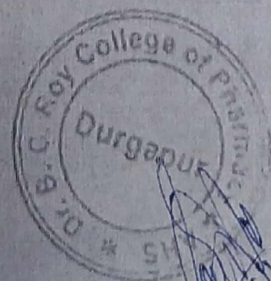
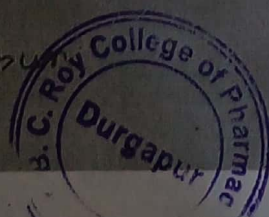


Signature of External Examiner

Date: 3/6/24

Place:

Durgapur



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

Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 726006

DECLARATION

I hereby declare that the Project entitled "2D-QSAR analysis of Pyrimidinone amine derivatives as ROCK2 inhibitors in the treatment of Psoriasis" 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.

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

Siddhanta Mishra

Signature

Name of Candidate: Siddhanta Mishra

Roll No: 18901921105

Date: 03/06/2024

Place: Durgapur



[Signature]
Prof. (Dr.) Soumya Mitra Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713201





A

Project Report on

**REVIEW OF CAFFEIC ACID AND IT'S
DERIVATIVES AS A POTENT ANTI-DIABETIC
AGENT.**

Submitted by

SINCHAN KUMAR ROY

University Regn. No. – 201890201910004 of 2020-21

Roll No. - 18901920101

Under the guidance of

Ms. Amrita Sarkar

Assistant Professor

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

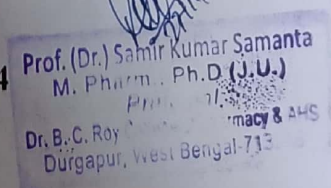
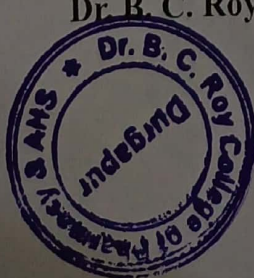
Submitted to

**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



DECLARATION

I hereby declare that the Project entitled "Review of Caffeic Acid and Its Derivatives as a Potent Anti-diabetic Agent" 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. Amrita Sarkar.

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

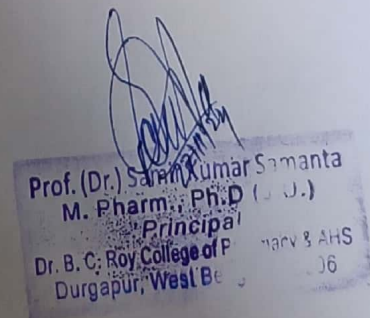
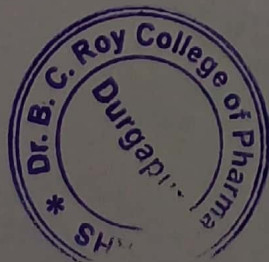
Sinchan Kumar Roy.

Name of Candidate: Sinchan Kumar Roy

Roll No: 18901920101

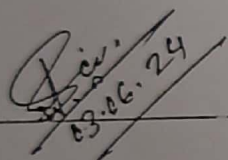
Date: 03.06.2024

Place: Durgapur



CERTIFICATE

This is to certify that the Project entitled "Review of Caffeic Acid and It's Derivatives as a Potent Anti-diabetic Agent." by Mr. Sinchan Kumar 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.


03.06.24

Ms. Amrita Sarkar
(Supervisor)

Date: 03.06.2024

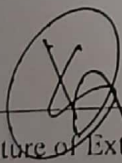
Place: Durgapur.



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

Date: 03.06.2024

Place: Durgapur.



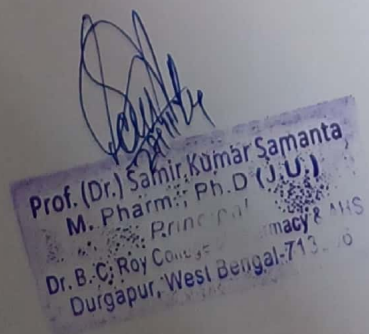
Signature of External Examiner

Date: 03.06.2024

Place: Durgapur.



(ii)





A COMPREHENSIVE OVERVIEW OF DIABETIC CATARACT

Submitted by

SK NOMRUDDIN

University Regn. No. -211890201920005 of 2021-22
Roll No. -18901921116

Under the guidance of
DR SAROJ SINGHMURA

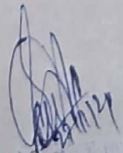
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

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.) Samita 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 COMPREHENSIVE OVERVIEW OF DIABETIC CATARACT" 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.

SK Nomruddin

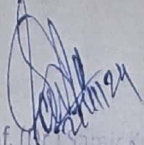
Signature

Name of Candidate: SK NOMRUDDIN

Roll No:

18901921116





Prof. (Dr.) Saroj K. Singhmura
M. Pharm., F. Princ
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 726106

Date:03/06/2024

Place:DURGAPUR ;;




Prof. (Dr.) Sankar Sarmanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy
Durgapur, West Bengal



CERTIFICATE

This is to certify that the Project entitled "A COMPREHENSIVE OVERVIEW OF DIABETIC CATARACT" by SK NOMRUDDIN 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.

[Handwritten Signature]
2/05/24

Signature of Supervisor

Name of Supervisor:

Date:

Place:

[Handwritten Signature]
2/5/24

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

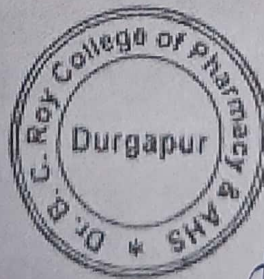
Place:

[Handwritten Signature]

Signature of External Examiner

Date: 31/4/24

Place: Durgapur.



[Handwritten Signature]
2/5/24
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal



A
Project Report
on
**Paracetamol and Its interaction with Serotonergic
system: A Short Review**

Submitted by
Sk Samim Hossain

University Regn. No. -201890201910022 of 2020-21
Roll No. -18901920083

Under the guidance of
Dr. Shyamshree Manna
PhD, M pharm of Pharmacology

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

I hereby declare that the Project entitled "Paracetamol and Its Interaction With Serotonergic System: A Short 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. 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.

SK Samim Hossain
Signature


Name of Candidate: SK Samim Hossain

Roll No: 18901920083

Date: 03/06/24

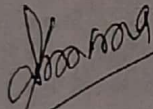
Place: Durgapur




2
Prof. (Dr) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy
Durgapur, West Bengal-7

Certificate

This is to certify that the Project entitled "Paracetamol and Its Interaction With Serotonergic System: A Short Review" by Sk Samim Hossain 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

Dr Shyamshree S S Manna

Date: 03/06/24

Place: Durgapur

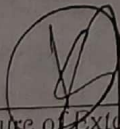


PROF (DR.) SAMIR KR. SAMANTA

PRINCIPAL

Date:

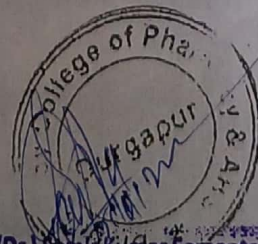
Place: Durgapur



Signature of External Examiner

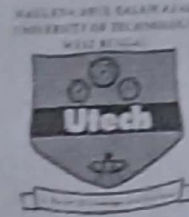
Date:

Place:



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

3



A
Project Report on
**Importance of Data Integrity in Pharmaceutical
Industry**

Submitted by
SOHAM KUNDU

University Regn. No. -201890201910055
Roll No. -18901920040

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: 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

DECLARATION

I hereby declare that the Project entitled "Importance of Data Integrity in Pharmaceutical Industry" 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. 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.

Soham Kundu
Signature

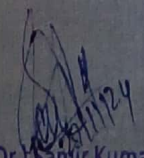
Name of Candidate: SOHAM KUNDU

Roll No: 18901920040

Date: 03/06/2024

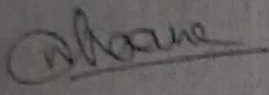
Place: DURGA PUR




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

CERTIFICATE

This is to certify that the Project entitled "Importance of Data Integrity in Pharmaceutical Industry" by Soham Kundu 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: Md. Waizul Haque

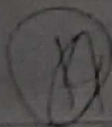
Date: 21.05.24

Place: Durgapur

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

Date:

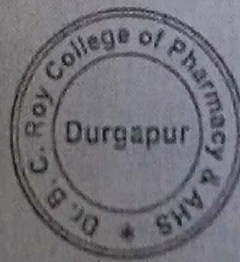
Place:




Signature of External Examiner

Date:

Place:




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (U.)
Principal
Dr. B. C. Roy
Pharmacy & AHS
Durgapur, West Bengal-71



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Reporton

THERAPEUTIC EFFICACY OF ALLICINE AND THEIR DERIVATIVES

Submitted by
**SOUBHAGYA
MUKHERJEE**

University Regn. No. -201890201910053

Roll No. -18901920052

Under the guidance of
Dr. SUDIP KUMAR MANDAL
Asst. 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: 2023 – 2024



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



DECLARATION

I hereby declare that the Project entitled "THERAPEUTIC EFFICACY OF ALLICINE AND THEIR DERIVATIVES" 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. 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.

Soubhagya Mukherjee

Signature


Name of Candidate: **Soubhagya Mukherjee**

Roll No: **18901920052**

Date: **03/06/24**

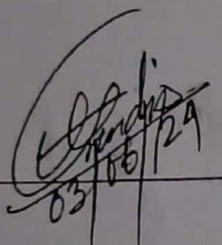
Place: **DURGAPUR**




Prof. (Dr.) Satish 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 "THERAPEUTIC EFFICACY OF ALLICINE AND THEIR DERIVATIVES" by SOUBHAGYA MUKHERJEE 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. Sudip Kumar Mandal

Date: 03/06/24

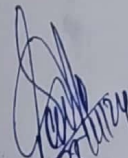
Place: Durgapur




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

Date: 03/06/24

Place: Durgapur



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

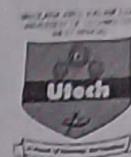


Signature of External Examiner

Date: 3/6/24

Place: Durgapur





A

Project Report on

NEW STRATEGIES FOR ANTIBACTERIAL DRUG DESIGNING

Submitted by

SOUGATA GHOSHAL

University Regn.No. -201890201910019

Roll No. – 18901920086

Under the guidance of

Mr. Sonjoy Konar

Assistant professor (Dept. of Pharmaceutical chemistry), BCRCP

In partial fulfillment of the Requirement for the Degree of

Bachelor of Pharmacy

Submitted to

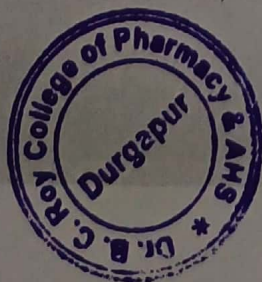
Maulana Abul Kalam Azad University of Technology

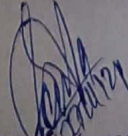
West Bengal

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

Durgapur- 713206

Academic year: - 2023-2024




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



DECLARATION

I hereby declare that the Project entitled "NEW STRATEGIES FOR ANTIBACTERIAL DRUG DESIGNING" 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. SONJOY KONAR.

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

Sougata Ghoshal
Signature

Name of Candidate: Sougata Ghoshal

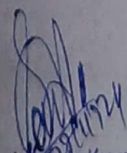
Roll No: 18901920086

Date: 03/06/24

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

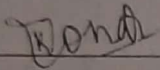
Page no-1




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

CERTIFICATE

This is to certify that the Project entitled "NEW STRATEGIES FOR ANTIBACTERIAL DRUG DESIGNING" by Sougata Ghoshal 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.

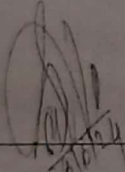


Signature of Supervisor

Name of Supervisor: Mr. Sonjoy Konar

Date: 03/06/2024

Place:

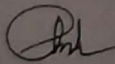


PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

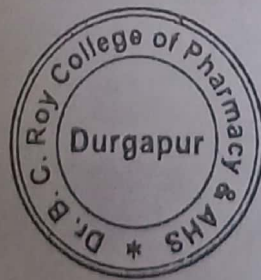
Place:



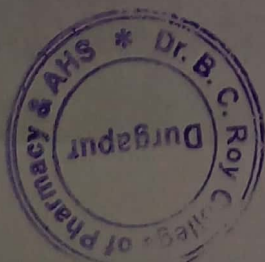
Signature of External Examiner

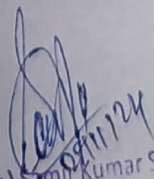
Date: 31/6/24

Place: Durgapur.



Page no-2




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



A
Project Report on

A Comprehensive Review of Dosage Forms: Types, Properties, and Applications in Drug Delivery

Submitted by

SOUMYADEEP GUHA

University Regn. No. - 201890201910008

Roll No. - 18901920097

Under the guidance of

PROF. (DR.) SANTANU CHAKRABORTY

M. Pharm., Ph.D., FIC

Professor and DIC of Pharmaceutics

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

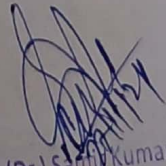
Submitted to

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

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

Academic Year: 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

I hereby declare that the Project entitled "A Comprehensive Review of Dosage Forms: Types, Properties, and Applications in Drug Delivery" 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.

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

Soumyadeep Guha.

Signature

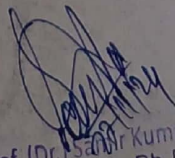
Name of Candidate: Soumyadeep Guha

Roll No: 18901920097

Date: 03.06.2024

Place: Durgapur




Prof. (Dr.) Santanu 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 Comprehensive Review of Dosage Forms: Types, Properties, and Applications in Drug Delivery" by Soumyadeep Guha 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.

S. Chakraborty - 23/06/24

Signature of Supervisor

Name of Supervisor: Prof. (Dr.) Santanu Chakraborty

Date:

Place:

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

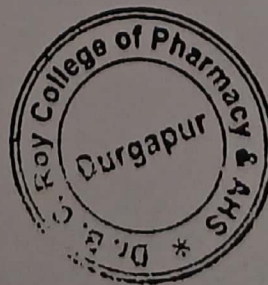
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Place:

Signature of External Examiner

Date:

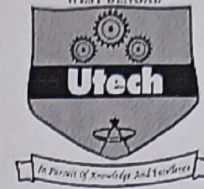
Place:



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-71



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL.



A

Project Report on

**TO EVALUATE THE EFFECT OF DIFFERENT
CONCENTRATION OF MAGNESIUM STEARATE ON IN-
PROCESS PARAMETERS AND DISSOLUTION OF
PARACETAMOL 500MG TABLETS.**

Submitted by

JISHA BARIK

University Regn. No. – 221892310004

Roll No. – 18921822002

Under the guidance of

MD. WAIZUL HAQUE ANSARI

Associate Professor

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Industrial 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

I hereby declare that the Project entitled "To evaluate the effect of different concentration of Magnesium stearate on in-process parameters and dissolution of Paracetamol 500mg tablets" in partial fulfillment of the requirement for the award of Master 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 **MD. WAIZUL HAQUE ANSARI**.

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

Jisha Barik

Signature

Name of Candidate: Jisha Barik

Roll No - 18921822002

Date - 05-06-2024

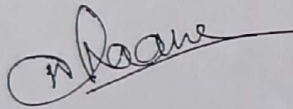
Place - Durgapur



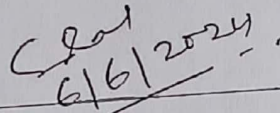

Prof. Dr. Anupam Samanta
B. Pharm., Ph.D. (Ph.D.)
Principal
U.P.C. Roy College of Pharmacy, Durgapur
Durgapur, West Bengal - 726002

CERTIFICATE

This is to certify that the Project entitled "To evaluate the effect of different concentration of Magnesium stearate on in-process parameters and dissolution of Paracetamol 500mg tablets" by Jisha Barik in partial fulfilment for the MASTER OF PHARMACY (INDUSTRIAL 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



Signature of the External Examiner

Name of Guide -

Md. Waizul Haque Ansari

Place - Durgapur

Date - 31.05.2024

Place - Durgapur

Date -



PROF. SAMIR KUMAR SAMANTA

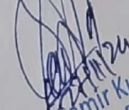
(PRINCIPAL)

Place - Durgapur

Date -

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



A Project Report on

RECENT ADVANCEMENTS ON TABLET COATING TECHNOLOGY

Submitted by

JYOTIRADITYA DAS

University Regn. No. – 201890201910002 of 2020-21

Roll No. - 18901920103

Under the guidance of

Prof. (Dr.) Santanu Chakraborty

M.Pharm., Ph.D., FIC

Professor

DIC, Division of Pharmaceutics

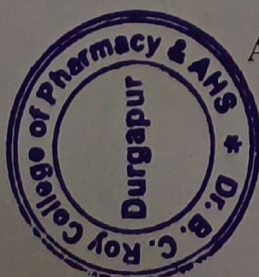
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

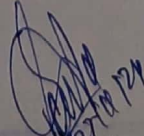
Submitted to

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

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

Academic Year: 2023 - 2024




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



DECLARATION

I hereby declare that the Project entitled "Recent Advancements on Tablet Coating Technology" 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.

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

Jyotiraditya Das

Signature

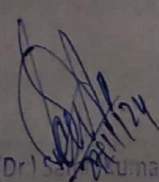
Name of Candidate: Jyotiraditya Das

Roll No: 18901920103

Date: 03/06/2024

Place: DURGAPUR




Prof. (Dr.) Santanu Chakraborty
M. Pharm., Ph.D. (J.U.)

Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 726006



CERTIFICATE

This is to certify that the Project entitled "Recent Advancements on Tablet Coating Technology" by Jyotiraditya Das in partial fulfilment for the BACHELOR OF PHARMACY under MAULANAABUL 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.

S. Chakraborty 03/06/24

Signature of Supervisor

Name of Supervisor: Prof. (Dr.) Santanu Chakraborty
Professor & DIC, Pharmaceutics

Date:

Place:

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

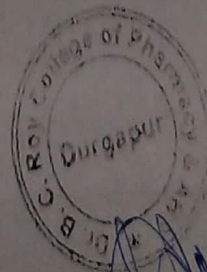
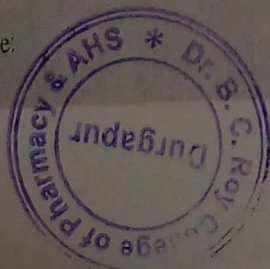
Date:

Place:

[Signature]
Signature of External Examiner

Date:

Place:



[Signature]
Prof. (Dr.) Samy Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713200



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A

Project Report on

PHARMACOLOGICAL ACTIVITY OF NEEM

Submitted by

KOUSHIK DAS

University Reg. No. – 201890201910099 of 2020-21

Roll No. - 18901920006

Under the guidance of

Mrs. Jayita Mondal

Assistant Professor

In partial fulfillment of the Requirement for the Degree of

Bachelor of Pharmacy

Submitted to

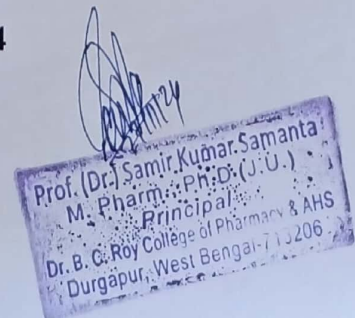
Maulana Abul Kalam Azad University of Technology

West Bengal

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

Durgapur 713206

Academic Year: 2023 – 2024



DECLARATION

I hereby declare that the Project entitled "PHARMACOLOGICAL ACTIVITY OF NEEM" 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. 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.

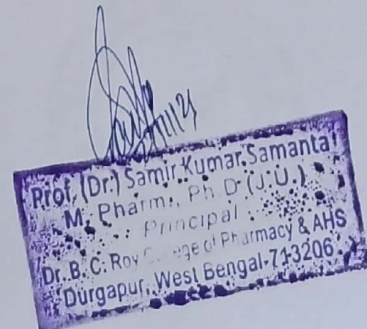
Koushik Das
Signature

Name of Candidate: Koushik Das

Roll No: 18901920006

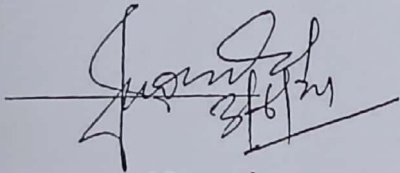
Date: 03.06.2024

Place: Durgapur



CERTIFICATE

This is to certify that the Project entitled "PHARMACOLOGICAL ACTIVITY OF NEEM" 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.

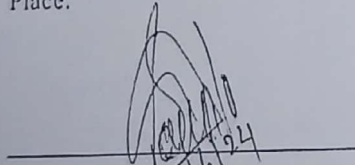


Signature of Supervisor

Name of Supervisor: Mrs. Jayita Mondal

Date:

Place:

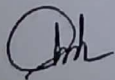


PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place:



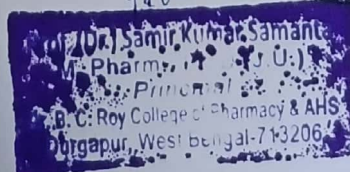
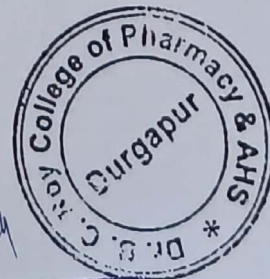
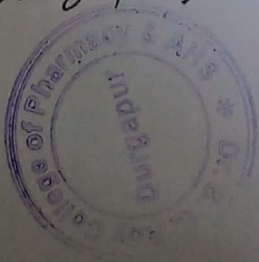
Signature of External Examiner

Date:

21/1/24

Place:

Durgapur



Page 1/2



*A Project Report on Exploring the Value Offered by
Incretins in Long Term Management of Diabetes*

Submitted by
MAHIMA CHOWDHURY

University Regn. No. – 201890201910090 of 2020-21
Roll No. - 18901920015

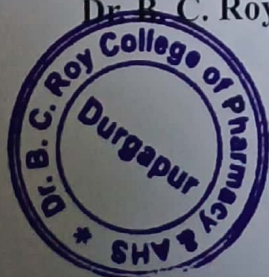
Under the guidance of: **Mr. Saroj Singhmura**
Designation:
Assistant Professor
Department of Pharmacology

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



DECLARATION

I hereby declare that the Project entitled "**Exploring the value offered by incretins in long term Management of Diabetes**" 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.

Mahima Chowdhury
Signature

Name of Candidate: MAHIMA CHOWDHURY

Roll No: 18901920015

Date: 03.06.2024

Place: Durgapur

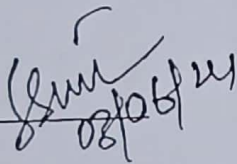


Saroj Singhmura
Prof. (Dr.) Saroj Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



CERTIFICATE


This is to certify that the Project entitled "Exploring the Value Offered by Incretins in Long Term Management of Diabetes" by MAHIMA CHOWDHURY 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: Mr. Saroj Singhmura

Date: 03.06.2024

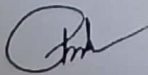
Place: Durgapur


PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place:

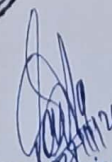


Signature of External Examiner

Date: 31/6/24

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-726109



A Project Report On

**THE EFFECTS OF OPIUM ON THE
CARDIOVASCULAR SYSTEM: A REVIEW OF
SIDE EFFECTS, USES, AND POTENTIAL
MECHANISMS.**

Submitted by

MD Safi

University Regn. No. – 201890201910015 of 2020-21

Roll No. – 18901920090

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

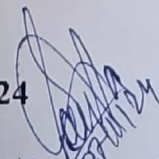
West Bengal

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

Durgapur 713206

Academic Year: 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

I hereby declare that the Project entitled "THE EFFECTS OF OPIUM ON THE CARDIOVASCULAR SYSTEM: A REVIEW OF SIDE EFFECTS, USES, AND POTENTIAL MECHANISMS" 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. 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.

Md Safi

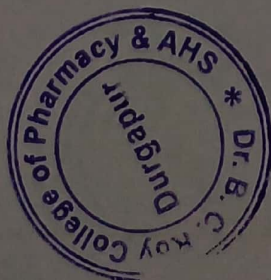
Signature


Name of Candidate: Md Safi

Roll No: 18901920090

Date: 03/06/24

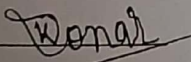
Place:




Prof. (Dr.) Sanjay 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 "The Effects Of Opium On The Cardiovascular System: A Review Of Side Effects, Uses, And Potential Mechanisms" by MD Safi 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.

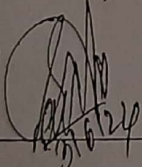


Signature of Supervisor

Name of Supervisor:

Date: 03/06/2024

Place:



PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

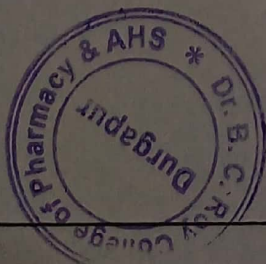
Place:




Signature of External Examiner

Date: 31/6/24

Place: Durgapur.




Prof. (Dr.) Samir Kumar Samanta
M. Pharm (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206 2



A Project Report on

DIURETICS

Submitted by

MD SAKIL HASAN

University Regn. No. -201890201910023 OF 2020-21

Roll No. -18901920082

Under the guidance of

MR. SHOBHAN BOSE

Assistant professor

(Department of pharmaceutical chemistry)

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



[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 "Diuretics" 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.

Md. Sakil Hasan
Signature


Name of Candidate: Md Sakil Hasan.

Roll No: 18901920082

Date: 03-06-2024

Place: Durgapur.

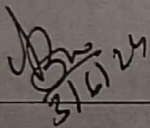



Prof. (Dr.) Samir Kumar Samanta
M. Pharm. Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



CERTIFICATE

This is to certify that the Project entitled "Diuretics" by Md Sakil 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.

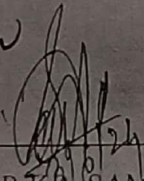

31/6/24

Signature of Supervisor

Name of Supervisor: Mr Shobhan Bose

Date: 31/6/24

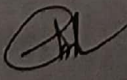
Place: Durgapur


PROF (DR.) SAMIR K.R. SAMANTA

(PRINCIPAL)

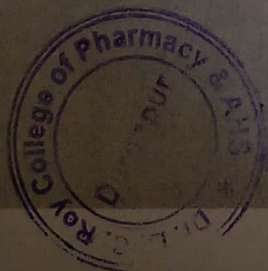
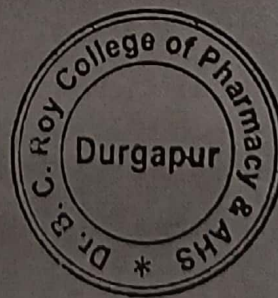
Date: 03/06/2024


Place: Durgapur


Signature of External Examiner

Date: 3/6/24

Place: Durgapur




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



A
Project Report on

IMPACT OF TELEPHARMACY ON THE HEALTH CARE SYSTEM

Submitted by

MD TOUHEED AHAMED

University Regn. No. – 201890201910103 of 2020-21

Roll No. – 18901920002

Under the guidance of
Mrs. Surita Ghosh
Assistant Professor of Pharmaceutics

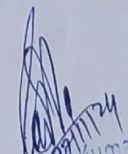
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

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: 2023 - 2024




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



DECLARATION

I hereby declare that the Project entitled "Impact of telepharmacy on the health care 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 Mrs. 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: Md. Touheed Ahamed

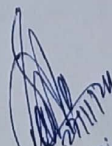
Name of Candidate: Md Touheed Ahamed

Roll No: 18901920002

Date: 03/06/2024

Place: Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm. (Pharm. U.U.)
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 726006

CERTIFICATE

This is to certify that the Project entitled "Impact of telepharmacy on the health care system" by Md Touheed Ahamed 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.

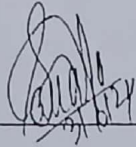
Surita Ghosh.

Signature of Supervisor

Name of Supervisor: Mrs SURITA GHOSH

Date: 03.06.2024

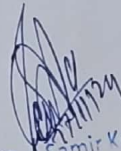
Place: Durgapur



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

Date:

Place:



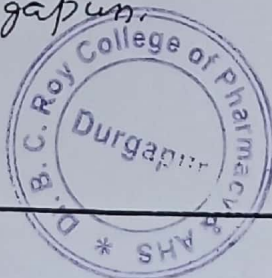
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (U.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



Signature of External Examiner

Date: 31/6/24

Place: Durgapur



II



A Project Report on

THERAPEUTIC APPROACHES FOR DAIBETES MELLITUS

Submitted by

MOHAN CHANDRA BARAL

University Regn. No. – 201890201910078 of 2020-21

Roll No. - 18901920027

Under the guidance of

Mrs. Amrita Sarkar

Assistant Professor

(Department of Pharmaceutical
chemistry)

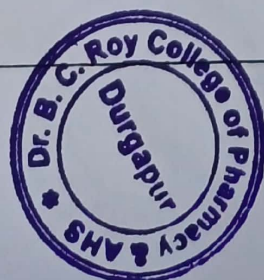
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

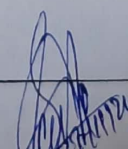
Submitted to

**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.) Samanta
M. Pharm
(J.U.)
Dr. B. C. Roy
Durgapur
West Bengal 713206

DECLARATION

I hereby declare that the Project entitled "Types and Treatment of Diabetes Mellitus" 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. Amrita Sarkar.

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

Mohan Chandra Baral

Signature

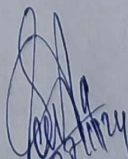
Name of Candidate: Mohan Chandra Baral

Roll No: 18901920027

Date: 03/06/24

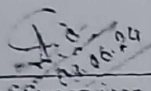
Place: Durgapur -




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (1994)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 726106

CERTIFICATE

This is to certify that the Project entitled "THERAPEUTIC APPROACHES FOR DAIBETES MELLITUS" by Mohan Chandra Baral 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: Mrs. Amrita Sarkar

Date:


Place:



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

Date:

Place:

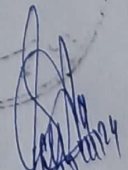


Signature of External Examiner

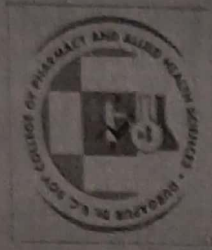
Date:

Place:




Prof. (Dr.) Samir Kr. Samanta
M. Pharm. ()

Dr. B. C. Roy College of Pharmacy
Durgapur, V



Current Scenario of Type 2 Diabetes Mellitus and Update on Anti-Diabetic Drugs

Submitted by-

NABANITA SEN

University Regn. No. -201890201910007 of 2020-21

Roll No. -18901920098

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy
Maulana Abul Kalam Azad University of Technology
West Bengal

Under the guidance of

DR. FALGUNI PATRA

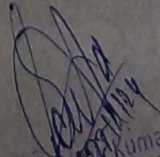
Associate Professor

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

Durgapur 713206

Academic Year: 2020 - 2024




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

DECLARATION

I hereby declare that the Project Current Scenario of Type 2 Diabetes Mellitus and Update on Anti-Diabetic Drugs 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. 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.

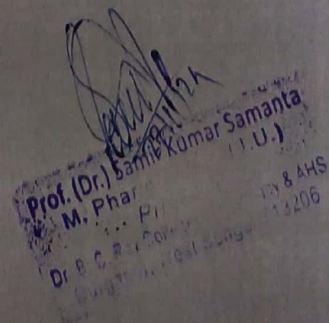
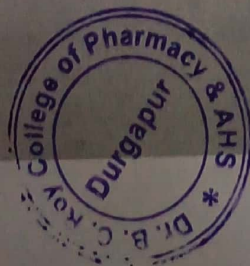
Signature : *Nabanita Sen*

Name of Candidate: NABANITA SEN

Roll No: 18901920098

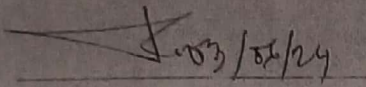
Date: 03/07/2024

Place: Dr. Meghnad Saha Sarani, Bidhannagar, Durgapur, West Bengal 713212



CERTIFICATE

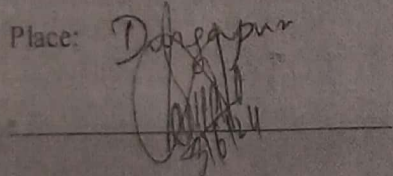
This is to certify that the Project entitled CURRENT SCENARIO OF TYPE 2 DIABETES MELLITUS AND UPDATE ON ANTI-DIABETIC DRUGS by NABANITA SEN in partial fulfillment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision 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: DR. FALGUNI PATRA

Date: 03/02/2024

Place: Durgapur


PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

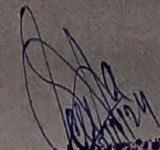
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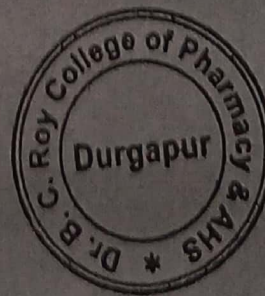
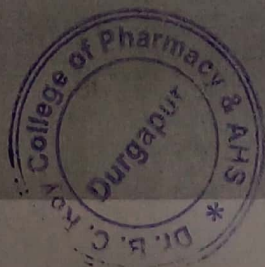
Place:

Signature of External Examiner

Date:

Place:


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





HEMORRHOIDS: CURRENT TREATMENTS AND FUTURE PROSPECTS

Submitted by

NEHA DAS

University Regn. No. – 201890201910067

Roll No. - 18901920038

Under the guidance of

DR. YADU NANDAN DEY

Associate Professor

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

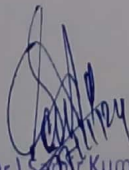
Submitted to

Maulana Abul Kalam Azad University of Technology
West Bengal

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

Academic Year: 2020 - 2024




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 "Hemorrhoids: Current Treatments And Future Prospects" 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. 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.

Neha Das
Signature


Name of Candidate: NEHA DAS

Roll No: 18901920038

Date: 03.06.24

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 "Hemorrhoids: Current Treatments And Future Prospects" by Neha 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.


Yadu Nandan Dey

Signature of Guide

Name of Guide: Dr. Yadu Nandan Dey

Date: 03-06-24


Place: Durgapur



PROF (DR.) SAMIR KUMAR SAMANTA
(PRINCIPAL)

Date:

Place:




Signature

Name of External Examiner:

Date:

Place:




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

iii | Page





A Project Report On
**“A REVIEW ON NOVEL ROUTE OF INSULIN
ADMINISTRATION FOR DIABETES
TREATMENT.”**

Submitted by

NUHIN SK

University Regn. No. – 201890201910101 of 2020-

2021

Roll No. – 189019200004

Under the guidance of

DR. FALGUNI PATRA

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: 2020–2024

151


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 NOVEL ROUTE OF INSULIN ADMINISTRATION FOR DIABETES TREATMENT." 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.

Nuhin SK

Name Of Candidate: Nuhin Sk


Roll No: 18901920004

Date: 03.06.24

Place: Durgapur.



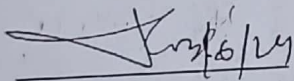
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Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (A.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 726006



CERTIFICATE

This is to certify that the Project entitled "A REVIEW ON NOVEL ROUTE OF INSULIN ADMINISTRATION FOR DIABETES TREATMENT." by NUHIN SK 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.

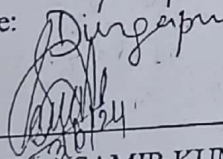


Signature of Supervisor

Name of Supervisor:

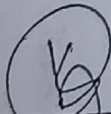
Date: 03/06/24

Place: Durgapur


PROF (DR.) SAMIR KUMAR SAMANTA
(PRINCIPAL)

Date:

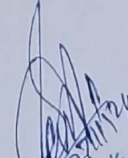
Place:


Signature of External Examiner

Date:

Place:




Prof. (Dr.) Samir Kumar Samanta
M. Pharm. (Ph.D. U.)
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 726006

[5]



A
Review Report on

“Marine Drugs Used in The Treatment of Cancer”

Submitted by

Poulami Bisuyi

University Regn. No. -211890201920011

Roll No. -18901921106

Under the guidance of
Mrs. Jayita Mondal
Assistant Professor

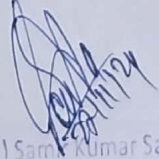
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

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: 2023 - 2024




Prof. (Dr.) Sam 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 "Marine Drugs Used in Treatment of 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 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.

Poulami Bisui
Signature


Name of Candidate: Poulami Bisui

Roll No: 18901921106

Date: 03/06/2024

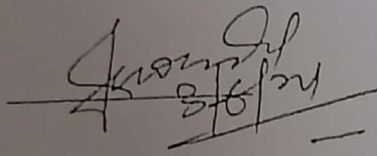
Place: Durgapur




Prof. (Dr.) Samanta 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 "Marine drugs used in treatment of cancer" by Poulami Bisuyi 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.

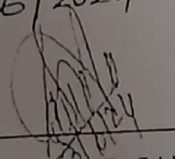

3/6/24

Signature of Supervisor

Name of Supervisor: *Jayita Mondal*

Date: 03/6/2024

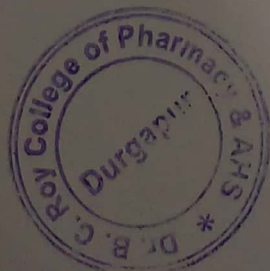
Place:



PROF (DR.) SAMIR K.R. SAMANTA
(PRINCIPAL)

Date:

Place:

Sm
3/6/24.




Sm
Prof. (Dr.) Samir Kumar Samanta
M. Pharm (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 713006



A
Project Report on

Exploring the Role of Nanoparticles: Size, Shape, Classification, Synthesis, and their Applications

Submitted by

POULAMI SINGHA

University Regn. No. – 201890201910091

Roll No. - 18901920014

Under the guidance of

PROF. (DR.) SANTANU CHAKRABORTY

M.Pharm., Ph.D., FIC

Professor and DIC of Pharmaceutics

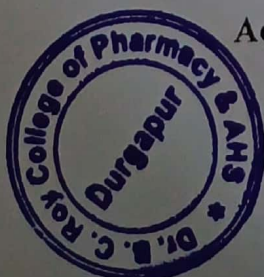
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

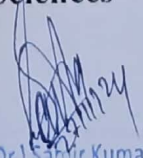
Submitted to

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

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

Academic Year: 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

I hereby declare that the Project entitled "Exploring the Role of Nanoparticles: Size, Shape, Classification, Synthesis, and their Applications Delivery" 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.

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

Poulami Singha
Signature

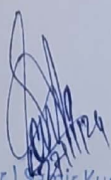
Name of Candidate: Poulami Singha

Roll No: 18901920014

Date: 03/06/2024

Place: Durgapur




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

CERTIFICATE

This is to certify that the Project entitled "Exploring the Role of Nanoparticles: Size, Shape, Classification, Synthesis, and their Applications" by Poulami 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.

S. Chakraborty . 03/06/24

Signature of Supervisor

Name of Supervisor: Prof. (Dr.) Santanu Chakraborty

Date:

Place:

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

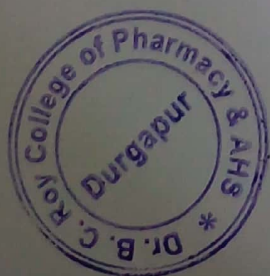
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Place:

Signature of External Examiner

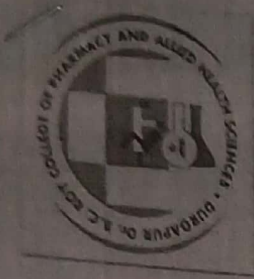
Date:

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

**EXPLORING TIRZEPATIDE: MECHANISMS OF
ACTIONS AND CLINICAL OUTCOMES IN
DIABETES**

Submitted by

Prabir Mondal

University Regn. No. – 211890201920007 of 2021-22

Roll No. - 18901921109

Under the guidance of

Atreyee Ganguly,

Assistant Professor, BCRCP

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

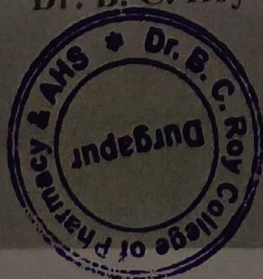
Submitted to

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

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

Durgapur 71320

Academic Year: 2023 – 2024



[Signature]
Prof. (Dr.) S. Kumar Samanta
M. Pharm. (J.U.)
Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur, West Bengal

DECLARATION

I hereby declare that the Project entitled "EXPLORING TIRZEPATIDE: MECHANISMS OF ACTIONS AND CLINICAL OUTCOMES IN DIABETES" 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 Atreyee Ganguly.

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

Prabir Mondal

Signature

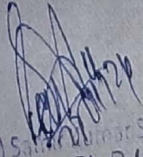
Name of Candidate: PRABIR MONDAL

Roll No: 18901921109

Date: 03/06/24

Place: Durgapur




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

CERTIFICATE

This is to certify that the Project entitled "EXPLORING TIRZEPATIDE: MECHANISMS OF ACTIONS AND CLINICAL OUTCOMES IN DIABETES" by Prabir 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.

Atreyee Ganguly

Signature of Supervisor

Name of Supervisor: Atreyee Ganguly

Date 03/06/24

Place Durgapur

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

Date

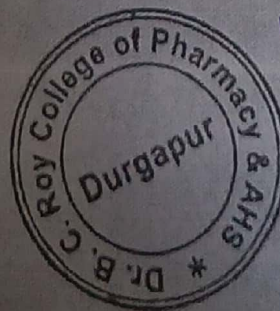
Place

Prof. (Dr.) Samir Kumar Samanta
M. Pharm (I.U.)
Dr. B. C. Roy
Durgapur, West Bengal

Signature of External Examiner

Date

Place





A Project Report on Literature Review

**“A CRITICAL REVIEW OF
ANALYTICAL AND
BIO-ANALYTICAL METHODS FOR THE ESTIMATION OF
ANTI-VIRAL DRUG REMDESIVIR”**

Submitted by

Mr. Pritam Jana

University Registration Number – 201890201910032 of 2020-21

Roll No. -18901920073

Under the guidance of

Mr. Rudranil Karmakar

Assistant Professor

In partial fulfilment of the Requirement for the Degree of

Bachelor of Pharmacy

Submitted to

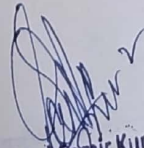
Maulana Abul Kalam Azad University of Technology, West Bengal

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 CRITICAL REVIEW OF ANALYTICAL AND BIO-ANALYTICAL METHODS FOR THE ESTIMATION OF ANTI-VIRAL DRUG REMDESIVIR" 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. Rudranil Karmakar**.

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: PRITAM JANA

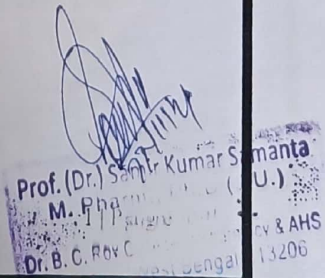
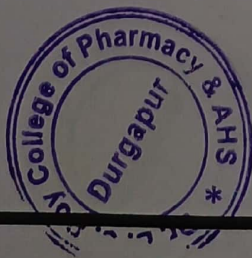
Roll No: 18901920073

Date: 03/06/2024

Place: Durgapur, West Bengal.

Pritam Jana / 03/06/24

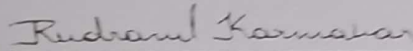
Signature



CERTIFICATE

This is to certify that the Project entitled "A CRITICAL REVIEW OF ANALYTICAL AND BIO-ANALYTICAL METHODS FOR THE ESTIMATION OF ANTI-VIRAL DRUG REMDESIVIR" by Pritam Jana 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.

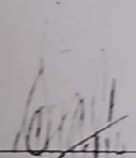
Name of Supervisor: Mr. Rudranil Karmakar


Signature of Supervisor

Date: 03/06/2024

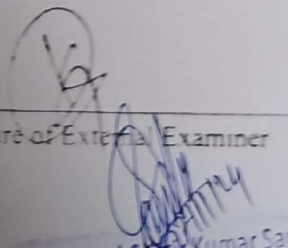
Place: Durgapur.

Date: 03/06/24

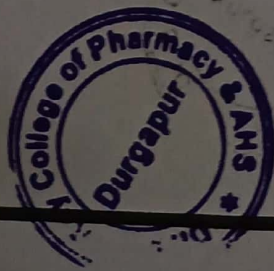

PROF. DR. SAMIR KR. SAMANTA
(PRINCIPAL)

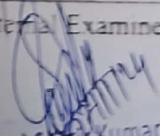
Place: Durgapur

Date: 03/06/24


Signature of External Examiner

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 - 713208



^
Project Report On

A Review on isoferulic acid as an alpha glucosidase inhibitor in diabetes mellitus

Submitted by

PRITAM MONDAL

University Regn. No. – 201890201910085

Roll No. – 18901920020

Under the guidance of

Ms. AMRITA SARKAR

Assistant Professor

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

Submitted to

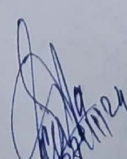
**Maulana Abul Kalam Azad University of Technology
West Bengal**

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

Durgapur 713206

Academic Year: 2023– 2024




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



DECLARATION

I hereby declare that the Project entitled "A review on isoferulic acid as an alpha glucosidase inhibitor in diabetes mellitus" 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. AMRITA SARKAR**.

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

Pritam Mondal

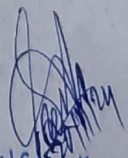
Name Of Candidate: Pritam Mondal

Roll No: 18901920020

Date: 03/06/24

Place: Durgapur

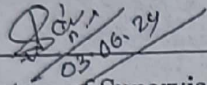



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph
Principal
Dr. B. C. Roy College of
Durgapur, West Be
HS
06



CERTIFICATE

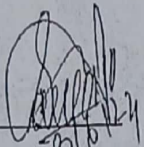
This is to certify that the Project entitled "A review on Isoferulic acid as an alpha glucosidase inhibitor in diabetes mellitus." by Pritam Mondal in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his 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. Amrita Sarkar

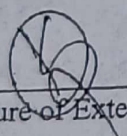
Date: 03/06/24

Place: Durgapur


PROF (DR.) SAMIR KUMAR SAMANTA
(PRINCIPAL)

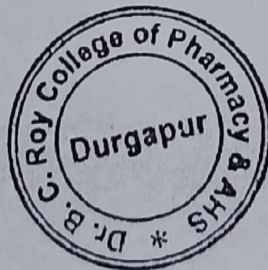
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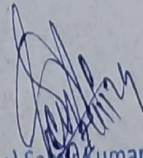
Place:


Signature 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-713209



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A PROJECT REPORT ON
**Polysaccharide based Scaffolds as Food Packaging
Materials**

Submitted by,

PRIYANKA JANA

University Regn. No - 201890201910001 of 2020-2021

University Roll No: 18901920104

Under the guidance of

Dr. Hriday Bera

Associate Professor

BCRCP, Durgapur

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

Submitted to

Maulana Abul Kalam Azad University of Technology

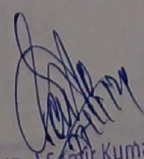
West Bengal

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



DECLARATION

I hereby declare that the Project entitled " Polysaccharide based Scaffolds as Food Packaging Materials" 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.

Priyanka Jana

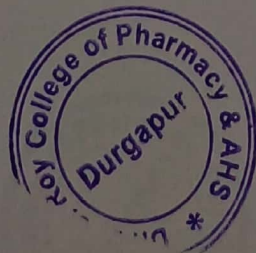
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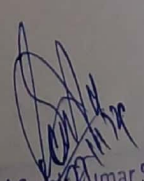
Name of Candidate: Priyanka Jana

Roll No: 18901920104

Date: 03/06/2024

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 "Polysaccharide based Scaffolds as Food Packaging Materials" by Priyanka Jana 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.



Signature of Supervisor

Name of Supervisor: Dr. Hriday Bera

Date: 03/06/24

Place: Durgapur



PROF (DR) SAMIR KR. SAMANTA
(PRINCIPAL)

Date:

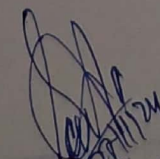
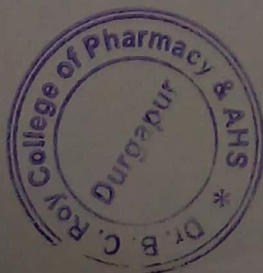
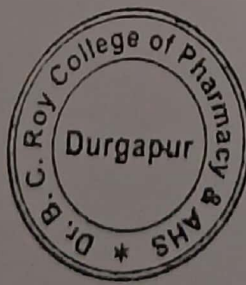
Place:



Signature of External Examiner

Date: 03/6/24

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

**APPROACHES MADE ON TRANSDERMAL
PATCHES INCOPORATING ANTIVIRAL DRUG
FOR TREATMENT OF VIRAL INFECTION.**

Submitted by

Ram Swarup Chattopadhyay

University Regn. No. – 201890201910104 of 2020-21

Roll No. – 18901920001

Under the guidance of

Mr. SNEHANSU BISWAS

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



[Signature]
Prof. (Dr. B. C. Roy College of Pharmacy and Allied Health Sciences, Durgapur)
M. T. ...
Dr. B. C. Roy College of Pharmacy and Allied Health Sciences, Durgapur 713206



DECLARATION

I hereby declare that the Project entitled "A review on approaches made on transdermal patches incorporating antiviral drug for treatment of viral infection" 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. SNEHANSU BISWAS.

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

Ram Swarup Chattopadhyay

Name Of Candidate: Ram Swarup Chattopadhyay

Roll No: 18901920001

Date: 03/06/24

Place: Durgapur



[Signature]
Prof. (Dr.) Kumar Samanta
M. Pharm. (U.)
Dr. B. C. C. U. AHS
Durgapur
03/06/24

CERTIFICATE

This is to certify that the Project entitled "A review on approaches made on Transdermal Patches incorporating antiviral drug for treatment of viral infection." by RAM SWARUP CHATTOPADHYAY 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.

Biswas
03/06/2024

Signature of Supervisor

Name of Supervisor: Mr. SNEHANSU BISWAS

Date: 03/06/2024

Place: Durgapur

[Signature]
21/06/24

PROF (DR.) SAMIR KUMAR SAMANTA

(PRINCIPAL)

Date:

Place:

[Signature]

Signature of External Examiner

Date:

Place



[Signature]
27/11/24
Prof. (Dr.) Samir Kumar Samanta
M. Pharm. (Hons.) (U.)
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 726106



A
Project Report on

**2D-QSAR analysis of Pyrimidinone amine derivatives
as ROCK2 inhibitors in the treatment of Psoriasis.**

Submitted by
Ranadeep Bose
University Regn. No. -201890201910100
of
2020-21
Roll No. -18901920005

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**



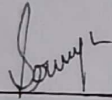
Academic Year: 2023 - 2024

Prof. (Dr.) Saikat Kumar Samanta
M. Pharm (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 of Pyrimidinone amine derivatives as ROCK2 inhibitors in the treatment of Psoriasis" by Ranadeep Bose 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.

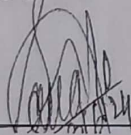


Signature of Supervisor

Name of Supervisor: Mr. Soumya Mitra

Date: 03.06.2024

Place: Durgapur

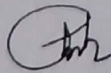


PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date: 03.06.2024

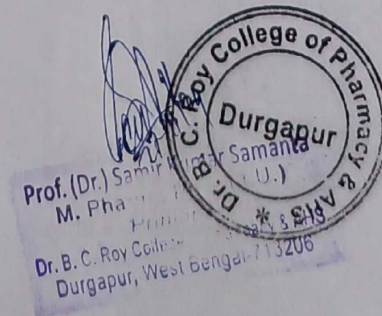
Place: Durgapur



Signature of External Examiner

Date: 03.06.2024

Place: Durgapur



DECLARATION

I hereby declare that the Project entitled “**2D-QSAR analysis of Pyrimidinone amine derivatives as ROCK2 inhibitors in the treatment of Psoriasis**” 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**.

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

Ranadeep Bose

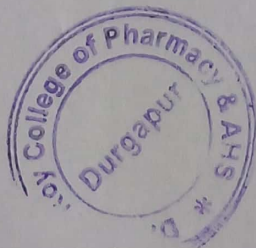
Signature

Name of Candidate: **Ranadeep Bose**

Roll No: **18901920061**

Date: 03.06.2024

Place: Durgapur



Soumya Mitra
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-7132





A
Project Report on
**Conveying the Potential of
Ozanimod and Next-
Generation Targeted
Therapies in the treatment
of IBD**

Submitted by

RIK KARAK

University Regn. No. – 201890201910024 of 2020-21

Roll No. - 18901920081

Under the guidance of
ATREYEE GANGULY

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: 2023 - 2024



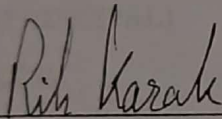
[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "**Conveying the potential of Ozanimod and next generation targeted therapies in treatment of IBD**" 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 **Atreyee Ganguly**.

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

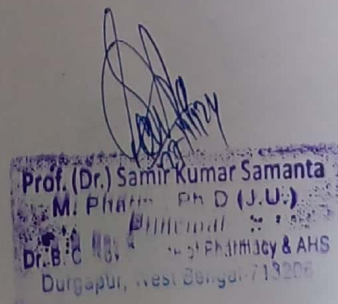

Signature

Name of Candidate: **Rik Karak**

Roll No: **18901920081**

Date: **03/06/2024**

Place: **Durgapur**



CERTIFICATE

This is to certify that the Project entitled "Conveying the potential of Ozanimod and next generation targeted therapies in treatment of IBD" by Rik Karak 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.

Atreyee Ganguly

Signature of Supervisor

Name of Supervisor: Atreyee Ganguly

Date: 03/06/2024

Place: Durgapur

[Signature]

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

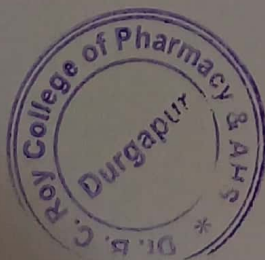
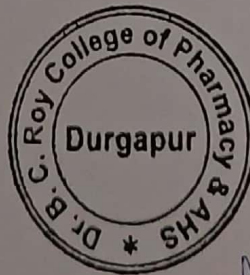
Date: 03/06/24

Place: Durgapur

[Signature]
Signature of External Examiner

Date: 03/06/24

Place: Durgapur



[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





A
Project Report on

An Overview of DNA Barcoding and Chromatography Fingerprints for Authentication of Botanicals present in Herbal Medicinal Products

Submitted by

Rishav Seth

University Regn. No. – 201890201910026

Roll No. - 18901920079

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: 2023 – 2024



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



DECLARATION

I hereby declare that the Project entitled "An Overview of DNA Barcoding and Chromatography Fingerprints for Authentication of Botanicals present in Herbal Medicinal Products" 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.

Rishav Seth

Signature

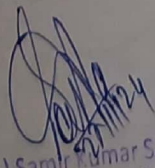
Name of the Candidate: Rishav Seth

Roll No: 18901920079

Date: 03/06/2024

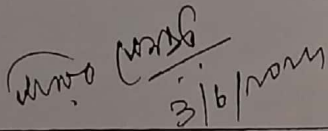
Place: Durgapur




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

CERTIFICATE

This is to certify that the Project entitled "An Overview of DNA Barcoding and Chromatography Fingerprints for Authentication of Botanicals present in Herbal Medicinal Products" by Rishav Seth 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.

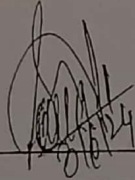

3/6/2024

Signature of Supervisor

Name of Supervisor: Mr. Sagar Sengupta

Date:

Place:



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

Date:

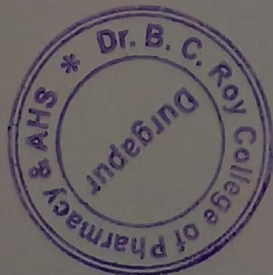
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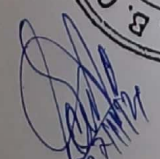


Signature of External Examiner

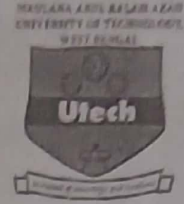
Date:

Place:




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

III



A

Project Report on

AI in the Pharmaceutical Industry: Innovations and Challenges

Submitted by

RITTIK PAUL

University Regn. No.-201890201910010 of 2020-2021

Roll No. -18901920095

Under the guidance of

Mr. Sonjoy Konar

Assistant Professor (Dept. of 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

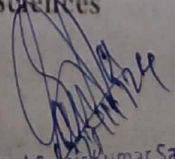
West Bengal

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

Durgapur 713206

Academic Year: 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

I hereby declare that the Project entitled AI In The Pharmaceutical Industry: Innovations and Challenges 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. Sonjoy Konar.

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

Rittik Paul

Signature


Name of Candidate: Rittik Paul

Roll No: 18901920095

Date 03/06/24

Place Durgapur




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 AI In The pharmaceutical Industry, Innovations and Challenges by Rittik 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/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.

Ronal
03/06/2024

Signature of Supervisor

Name of Supervisor: Mr. Sonjoy konar

Date:

Place:

[Signature]

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

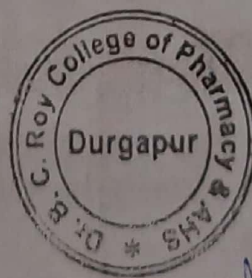
Place:

[Signature]

Signature of External Examiner

Date: 31/6/24

Place: Durgapur



[Signature]
Prof. (Dr.) Samir Kumar Samanta
M Pharm, Ph D (J.U.)
Dr. P. C. F., G.O.
Durgapur, West Bengal-713206



A
Project Report on

NATURAL PRODUCTS IN TREATMENT OF ALCOHOLIC FATTY LIVER DISEASE

Submitted by

RITWIK SAHOO

University Regn. No. – 201890201910060 of 2020-21
Roll No. - 18901920045

Under the guidance of
Mrs. Jayita Mondal
Assistant Professor

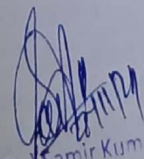
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

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: 2023 - 2024




Prof. (Dr.) Samir 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 "Natural products in treatment of 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 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.

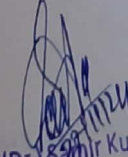
Ritwik Sahoo
Signature

Name of Candidate: Ritwik Sahoo

Roll No: 18901920045

Date: 03/06/2024

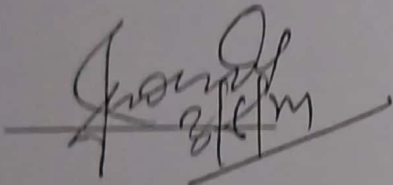
Place: Durgapur


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 "Natural products in treatment of Alcoholic fatty liver disease" by Ritwik Sahoo 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.

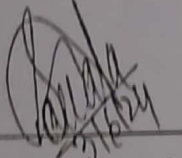


Signature of Supervisor

Name of Supervisor: Mrs. Jayita Mondal

Date:

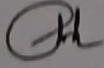
Place:



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

Date:

Place:



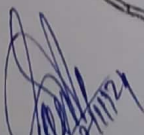
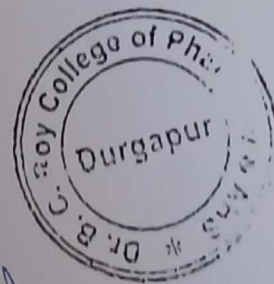
Signature of External Examiner

Date:

Place:

21/4/24

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
STABILITY FACTORS OF EMULSION AND SUSPENSION

Submitted by

RITWIM MONDAL

University Regn. No. – 201890201910083 of 202021

Roll No. 18901920022

Under the guidance of

Mr. Saptarshi Dutta

Assistant Professor

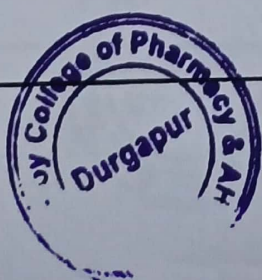
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy


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: 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

I hereby declare that the Project entitled "STABILITY FACTORS OF EMULSION AND SUSPENSION" 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. 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.

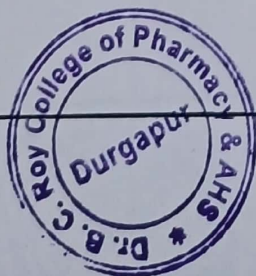
Ritwim Mondal
Signature

Name of Candidate: Ritwim Mondal

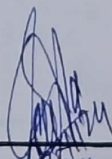
Roll No: 18901920022

Date: 03.06.24

Place: Durgapur,

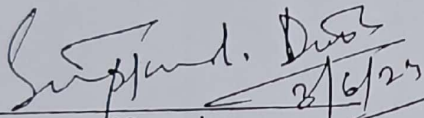


[I]


Prof. (Dr.) Saptarshi 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 "STABILITY FACTORS OF EMULSION AND SUSPENSION" by Ritvim 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 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 for assessment.


Signature of Supervisor

Name of Supervisor: Mr. Saptarshi Dutta


Date:

Place:


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

Date:

Place:



Signature of External Examiner

Date: 31/1/24

Place: Durgapur



[II]

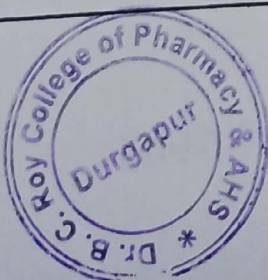

Prof. (Dr.) Samir Kumar Samanta

M. Pharm. Ph.D (J.U.)

Principal

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

Durgapur, West Bengal - 726106





A
Project Report on
**CLEAN ROOM IN PHARMACEUTICAL
PRODUCTION**

Submitted by

ANUPAM SINGHA ROY

University Regn. no. - 201890201910081 (2020-21)

Roll no. - 18901920024

Under the guidance of

Mr. Rudranil Karmakar

Assistant Professor

(Dr. B.C. Roy College Of Pharmacy and Allied Health Sciences)

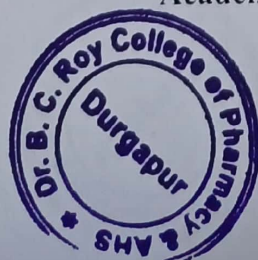
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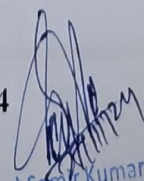
**MAULANA ABUL KALAM AZAD UNIVERSITY OF
TECHNOLOGY
WEST BENGAL**

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



Plagiarism Checker X - Report

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Overall Similarity

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Sources: 22

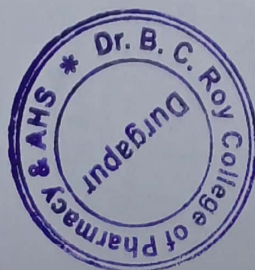
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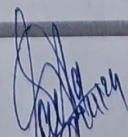
Verify Report:

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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 " **CLEAN ROOM IN PHARMACEUTICAL PRODUCTION** " by **Anupam Singha Roy** 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.

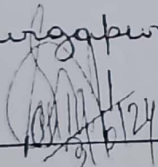


Signature of Supervisor

Name of Supervisor : Assistant Prof. Rudranil Karmakar

Date: 03-06-2024

Place: Durgapur




PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

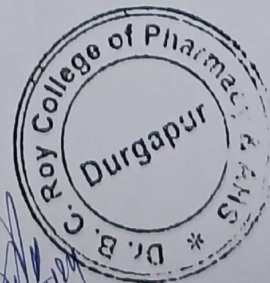
Place:



Signature of External Examiner

Date :

Place :



Prof. (Dr.) Samir Kumar Samanta
M. Pharm. (J.U.)

Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 726006



Λ

Project Report on
Pharmaceutical Waste Management

Submitted by

ANWESHA BANDYOPADHYAY

University Regn. No.- 201890201910062

Roll No. – 18901920043

Under the guidance of

Dr.Subhabrata Ray

Professor (Dept.of Pharmaceutics), BCRCP

In partial fulfilment of the Requirement for the

Degree of

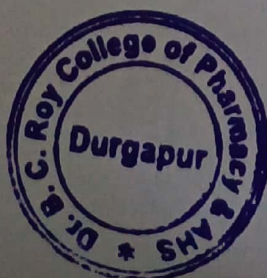
Bachelor of Pharmacy

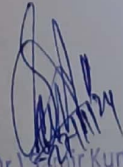
Submitted to

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

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

Academic Year: 2023– 2024




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



DECLARATION

I hereby declare that the Project entitled "Pharmaceutical Waste Management" in partial fulfillment 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. 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.

Anwesha Bandyopadhyay

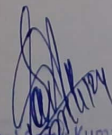
Name Of Candidate: Anwesha Bandyopadhyay

Roll No: 18901920043

Date: 03/06/2024

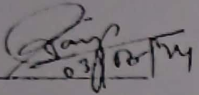
Place: Durgapur




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 "Pharmaceutical Waste Management" by ANWESHA BANDYOPADHYAY 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 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.

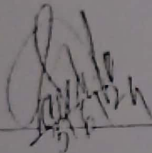


Signature of Supervisor

Name of Supervisor: DR. SUBHABRATARNY

Date:

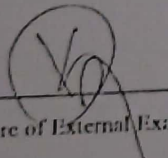
Place:



PROF (DR.) SAMIR KUMAR SAMANTA
(PRINCIPAL)

Date:

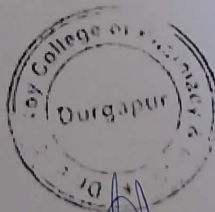
Place:



Signature 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





A

Project Report on
**Advancements in Solubility Enhancement Strategies for
Poorly Water Soluble Drugs: A Comprehensive Review**

Submitted by

Aparesh Bera

University Regn. No. – 201890201910011

Roll No. - 18901920094

Under the guidance of

Dr. Manami Dhibar

M. Pharm., Ph.D.

Assistant Professor

Department of Pharmaceutics

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

Submitted to

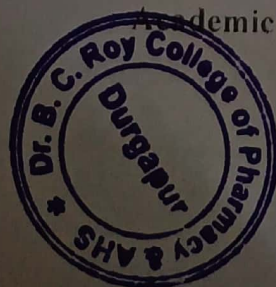
Maulana Abul Kalam Azad University of Technology


West Bengal

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

Durgapur 713206

Academic Year: 2023 – 2024




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

DECLARATION

I hereby declare that the Project entitled "Solubility Enhancement 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 **Dr. Manami Dhibar**

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

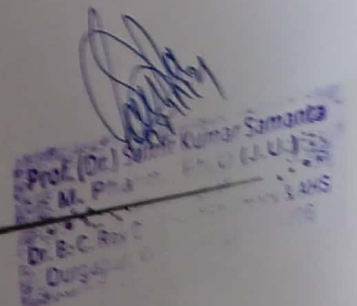
Aparesh Bera
Signature

Name of Candidate: Aparesh Bera

Roll No: 18901920094

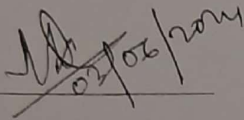
Date: 03.06.24

Place: Durgapur



CERTIFICATE

This is to certify that the Project entitled "Solubility Enhancement technique" by Aparesh Bera 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.

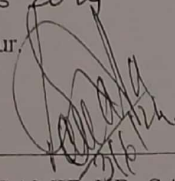

02/06/2024

Signature of Supervisor

Name of Supervisor: Dr. Manami Dhibar (M.Pharm., Ph.D., Assistant Professor)


Date: 03.06.2024

Place: Durgapur


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

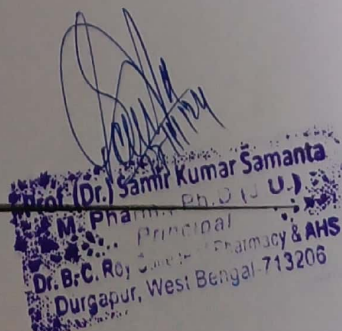
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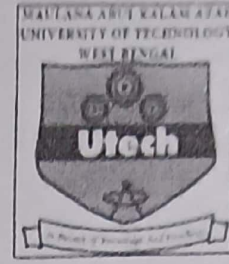
Place:


Signature of External Examiner

Date: 27/6/24

Place: Durgapur





A

Project Report on

**“POLYPEPTIDE BASED
HAEMOSTASIS
DRESSINGS”**

Submitted by

ARIJIT SIL

University Regn. No. – 201890201910034 of 2020-21

Roll No. -18901920071

Under the guidance of

Dr. Hriday Bera

Associate Professor

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

**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

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



DECLARATION

I hereby declare that the Project entitled "Polypeptide based haemostasis dressings" 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.

Arijit Sil

Signature

Name of Candidate: *ARIJIT SIL*

Roll No: *18901920071*

Date: *03.06.24*

Place: *Durgapur*



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

CERTIFICATE

This is to certify that the Project entitled "Polypeptide based haemostasis dressings" by Arijit Sil 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 DR. HRIDAY BERA

Name of Supervisor: HRIDAY BERA

Date: 03/06/2024

Place: Durgapur



PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place:



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



Signature of External Examiner

Date: 3/6/24

Place: Durgapur





A
Project Report on

A Review on The Treatment of Parkinson Disease

Submitted by

ARITRA NANDY

University Regn. No. – 201890201910070 of 2020-21

Roll No. -18901920035

Under the guidance of
Mrs. Surita Ghosh
Designation
Assistant Professor

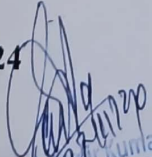
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

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: 2023 - 2024




Prof. (Dr.) Kuntal 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 The Treatment of Parkinson 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. 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.

Aritra Nandy

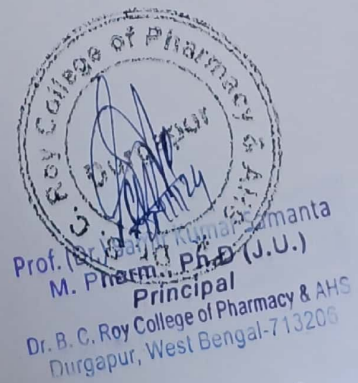
Signature

Name of Candidate: Aritra Nandy

Roll No: 1890192035

Date: 09/06/24

Place: Durgapur



CERTIFICATE

This is to certify that the Project entitled "A Review on The Treatment of Parkinson Disease" by Aritra Nandy 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.

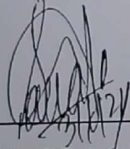
Sunita Ghosh.

Signature of Supervisor Mrs. SURITA GILTSIT

Name of Supervisor:

Date: 03.06.2024

Place: Durgapur



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

Date:

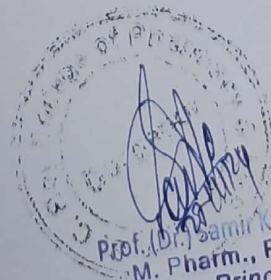
Place:



Signature of External Examiner

Date: 27/6/24

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
3



A Project Report on
PHARMACOPHORE MAPPING

Submitted by

ARKA GANGULY

University Regn. No. – 201890201910063 of 2020-21

Roll No. - 18901920042

Under the guidance of

Dr. Amit Kumar Halder

Assistant Professor

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

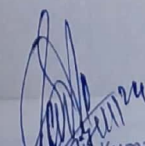
Submitted to

**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.) 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 "Study on Pharmacophore mapping" 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.

Arka Ganguly

Signature

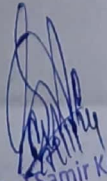
Name of Candidate: Arka Ganguly

Roll No: 18901920042

Date: 03/06/24

Place: Durgapur

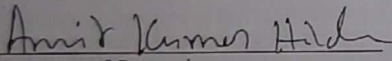



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713 006



CERTIFICATE

This is to certify that the Project entitled "Study on Pharmacophore Mapping" by Arka 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.

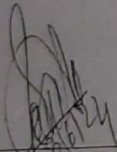


Signature of Supervisor

Name of Supervisor: Dr. Amit Kumar Halder

Date: 03/06/24

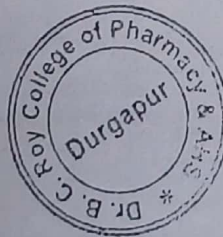
Place: Durgapur

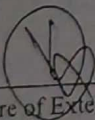


PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date: 03/06/24

Place: Durgapur

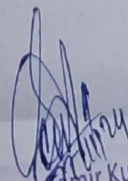




Signature of External Examiner

Date: 03/06/24




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-71



A Project Report on

DIURETICS

Submitted by

Arnab Chowdhury

University Regn. No. -201890201910058 OF 2020-21

Roll No. -18901920047

Under the guidance of

MR. SHOBHAN BOSE

Assistant professor

(Department of pharmaceutical chemistry)

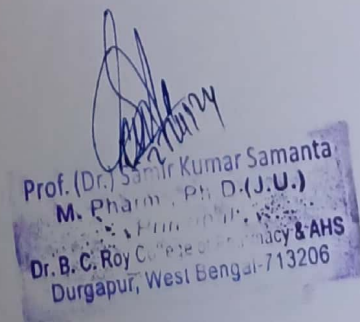
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

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



DECLARATION

I hereby declare that the Project entitled "Diuretics" 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.

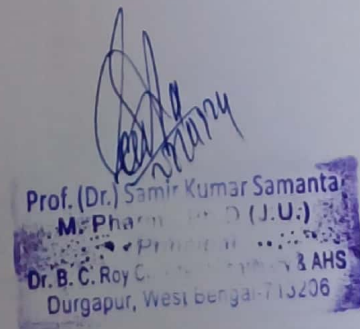
Amab Chowdhury
Signature

Name of Candidate: Amab Chowdhury.

Roll No: 18901920047

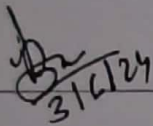
Date: 3rd June 2024

Place: Durgapur



CERTIFICATE

This is to certify that the Project entitled "Diuretics" by **Arnab Chowdhury** 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.

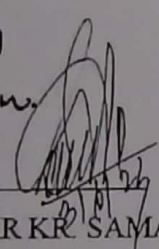

3/6/24

Signature of Supervisor

Name of Supervisor: Mr Shobhan Bose

Date: 3/6/24

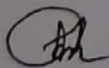
Place: Durgapur



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

Date:

Place:

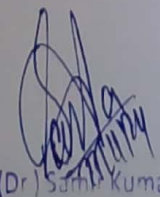


Signature of External Examiner

Date: 3/6/24

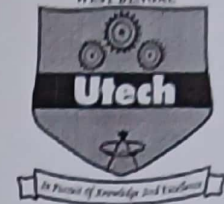
Place: Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm. (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

STUDY ON CONSUMER BUYING BEHAVIOUR ON PRESCRIPTION & NON-PRESCRIPTION DRUGS

Submitted by

ARPAN KAR

University Regn. No. – 201890201910049 of 2020-21

Roll No. - 18901920056

Under the guidance of

Dr. Parthasarathi Panda

Assistant Professor

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

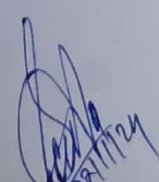
Submitted to

**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

I hereby declare that the Project entitled **Study on Consumer Buying Behaviour on Prescription & Non-Prescription Drugs** 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. 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

Arpan Kar
Signature

Name of Candidate Arpan Kar

Roll No 18901920056

Date 02/06/2024

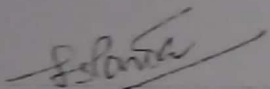
Place Durgapur



Prof. (Dr.) Srinikumar Samanta
M. Pharm. (J.U.)
Dr. B. C. Roy College of Pharmacy, AHS
Durgapur, West Bengal, 726106


CERTIFICATE

This is to certify that the Project entitled "Study on Consumer Buying Behaviour on Prescription & Non-Prescription Drugs" by Arpan Kar 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 Parthasarathi Panda

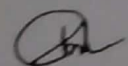
Date 03/06/2024

Place Durgapur


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

Date

Place

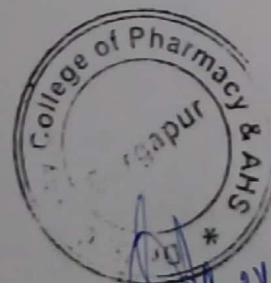

Signature of External Examiner


Date 31/6/24

Place Durgapur



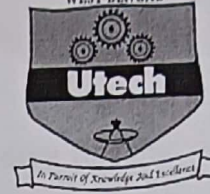
II




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713209



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Report on
**Application of newer drug therapy for Type 2
Diabetes Mellitus over the conventional therapy.**

Submitted by

ARPAN NANDI

*University Regn. No. – 211890201920006 of 2021-22
Roll No. -18901921117*

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: 2023 - 2024



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



DECLARATION

I hereby declare that the Project entitled "**Application of newer drug therapy for type 2 diabetes mellitus over the conventional therapy.**" 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.

Arpan Nandi

Signature


Name of Candidate: ARPAN NANDI

Roll No: 18901921117

Date: 08/06/24

Place: Durgapur




Prof. (Dr.) Sanjib Kumar Samanta
M. Pharm (U.O.)
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 726103



CERTIFICATE

This is to certify that the Project entitled "Application of newer drug therapy for type 2 diabetes mellitus over the conventional therapy" by Arpan Nandi 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.

Ismail Mondal

Signature of Supervisor

Name of Supervisor: Mr. Ismail Mondal

Date: 03/06/24

Place: Durgapur

Prof. (Dr.) Samir Kr. Samanta

(PRINCIPAL)

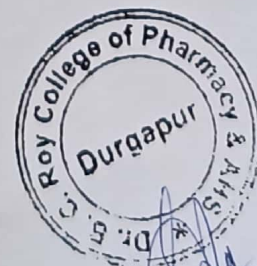
Date:

Place:

Samir
Signature of External Examiner

Date: 21/6/24

Place: Durgapur.



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



A

Project Report

on

PARACETAMOL BEYOND ANALGESIC: ROLE OF ENDOCANNABINOIDS

Submitted by-
ATANU JANA

University Regn. No. – 211890201920013

Roll No. - 18901921108

Under the guidance of
Dr. Shyamshree S S Manna
(Professor of Pharmacology)

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

I hereby declare that, the Project entitled "**Paracetamol Beyond Analgesic: Role of Endocannabinoids**" 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. 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.

Atanu Jana

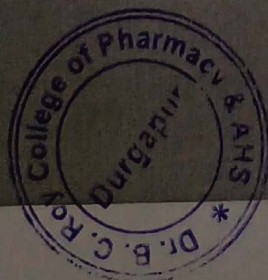
Signature

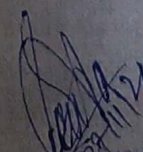
Atanu Jana

Roll No: 18901921108

Date:

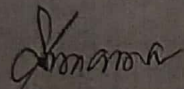
Place: Durgapur




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

Certificate

This is to certify that, the Project entitled "**Paracetamol Beyond Analgesic: Role of Endocannabinoids**" by **Atanu Jana** 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 for assessment.

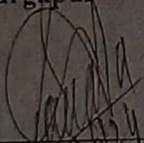


Signature of Supervisor

Dr. Shyamshree S S Manna

Date: 03/06/21

Place: Durgapur

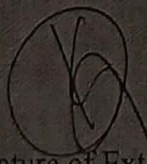


PROF (Dr.) SAMIR KR. SAMANTA

PRINCIPAL

Date:

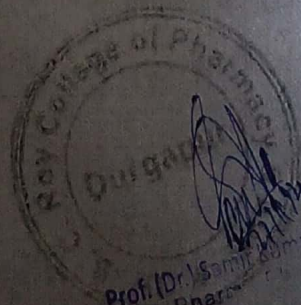
Place: Durgapur



Signature of External Examiner

Date:

Place:



Prof. (Dr.) Samir Kumar Samanta
M. Pharm (Ph.D.) (I.U.)

Dr. E. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal



A

Report on Project

DEVELOPMENT AND EVALUATION OF POLYHERBAL CREAM

Submitted by

AYUSH SEN

University Regn. No.: - 201890201910025 of 2020-21

Roll No. - 18901920080

Under the guidance of
Mr. Waizul Haque
(ASSOCIATE PROFESSOR)

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

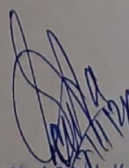
Submitted to

Maulana Abul Kalam Azad University of Technology
West Bengal

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

Academic Year: 2023 - 2024




Prof. (Dr.) Sannir 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 "DEVELOPMENT AND EVALUATION OF POLYHERBAL CREAM" 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. 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.

Ayush Sen
Signature

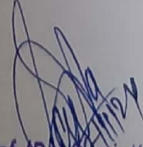
Name of Candidate: AYUSH SEN

Roll No: 18901920080

Date: 03/06/24

Place: Durgapur




Prof. (Dr.) Anir 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 "DEVELOPMENT AND EVALUATION OF POLYHERBAL CREAM" by AYUSH SEN 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.

For. S. Chakrabarty

Signature of Supervisor

Name of Supervisor: MR. WAIZUL HAQUE

Date:

Place:

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

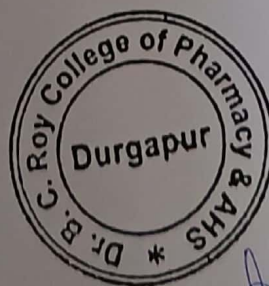
Date:

Place:

Signature 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



A

Project Report On

A Review on nasopulmonary drug and equipments used for drug delivery

Submitted by

BAPI KONAI

University Regn. No. – 201890201910028

Roll No. – 18901920077

Under the guidance of

Mr. SNEHANSU BISWAS

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: 2023– 2024



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

I hereby declare that the Project entitled "A Review on nasopulmonary drug and equipments used for 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 bonafide work carried out by me under the guidance of Mr. SNEHANSU BISWAS.

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

Bapi Konai

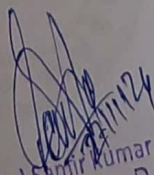
Name Of Candidate: Bapi konai

Roll No: 18901920077

Date: 03/06/2024

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 nasopulmonary drug and equipments used for drug delivery" by BAPI KONAI 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.

Biswas
03/06/2024

Signature of Supervisor

Name of Supervisor: *SNEHANJU BISWAS*

Date: *03/06/2024*

Place: *Durgapur*

[Signature]

PROF (DR.) SAMIR KUMAR SAMANTA

(PRINCIPAL)

Date:

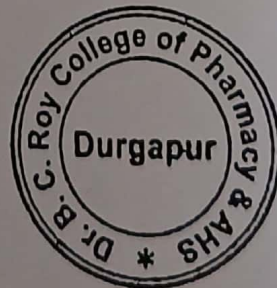
Place:

[Signature]

Signature of External Examiner

Date:

Place:



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





A Project Report on

**UNVEILING THE NEXUS: PEPTIDYL-tRNA
HYDROLASE AND MULTIDRUG RESISTANCE IN
BACTERIAL PATHOGENS**

Submitted by

BASTAV MAZUMDAR

University Regn. No. – 201890201910079 of 2020-21

Roll No. - 18901920026

Under the guidance of

Mr. SHOBHAN BOSE

Assistant Professor

(Department of Pharmaceutical Chemistry)

In partial fulfilment of the Requirement for the Degree of

Bachelor of Pharmacy

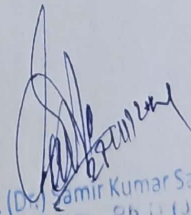
Submitted to

**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

I hereby declare that the Project entitled "Unveiling the nexus: Peptidyl-tRNA Hydrolase and Multidrug Resistance in bacterial pathogens" 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. 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.

Bastav Mazumdar

Signature

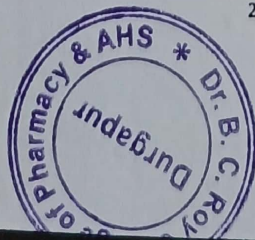
Name of Candidate: Bastav Mazumdar.

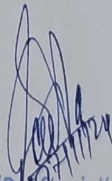
Roll No: 18901920026

Date: 03/06/2024

Place: Durgapur.


2




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 " **Unveiling the nexus: Peptidyl-IRNA Hydrolase and Multidrug Resistance in bacterial pathogens**" by **Bastav Mazumdar** 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.

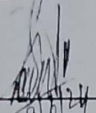


Signature of Supervisor

Name of Supervisor: Mr. Shobhan Bose

Date: 3/6/24


Place: Durgapur



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

Date:

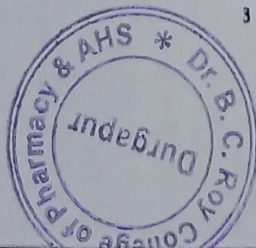
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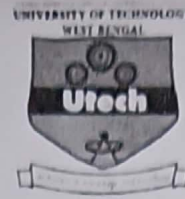
Signature of External Examiner

Date: 3/6/24

Place: Durgapur




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



A
Project Reporton

MICROENCAPSULATION METHODOLOGY

Submitted by
Bibekananda Bhui

University Regn. No. – 201890201910014
Roll No. -18901920091

Under the guidance of
DR.MANAMI DHIBAR

Designation
ASSISTANCE PROFESSOR (PHARMACEUTICS)

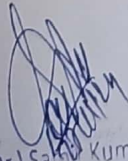
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

Submitted to
MaulanaAbulKalam Azad University of Technology
West Bengal

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

Academic Year: 2023 - 2024




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



DECLARATION

I hereby declare that the Project entitled "**Microencapsulation Methodology**" 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. Manami Dhibar**.

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

Bibekananda Bhuin

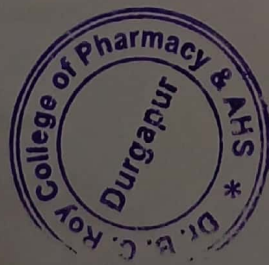
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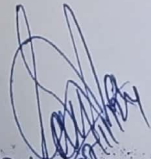
Name of Candidate: Bibekananda Bhuin

Roll No: 18901920091

Date: 03.06.24

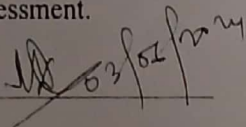
Place Durgapur, 713206




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 "Microencapsulation Methodology" by **Bibekananda Bhuin** 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.

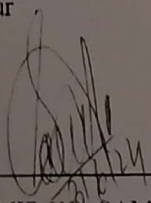


Signature of Supervisor

Name of Supervisor: Dr. Manami Dhibar (M.Pharm., Ph.D., Assistant Professor)

Date: 03.06.2024

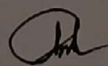
Place: Durgapur



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

Date.....

Place.....




Signature of External Examiner

Date..... 31/6/24

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

Market Analysis on Novel Drug Delivery System

Submitted by

BIDHAKAR RAY

University Regn. No. - 201890201910048 of 2020-21

Roll No. - 18901920057

Under the guidance of

Mrs. RITUPARNA CHAKI GHOSH

Assistant Professor (dept. Pharmaceutics)

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

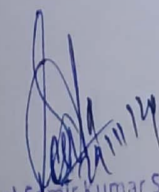
Submitted to

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

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

Academic Year: 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

I hereby declare that the Project entitled "**Market Analysis on Novel 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 **Assistant Prof. Rituparna Chaki Ghosh**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any **Maulana Abul Kalam Azad University of Technology**.

Bidhakar Ray
Signature

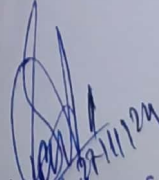
Name of Candidate: Bidhakar Ray

Roll no: 18901920057

Date: 03/06/2024

Place: Durgapur.




Prof. (Dr.) Sankar 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 "Market Analysis on Novel Drug Delivery System" by Bidhakar 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.

[Handwritten Signature]
3/6/24

Signature of Supervisor

Name of Supervisor:-

Date:

Place:

[Handwritten Signature]
3/6/24

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

Date:

Place:

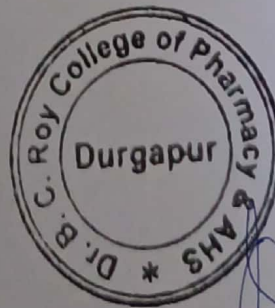
[Handwritten Signature]

Signature of External Examiner

Date: 3/6/24

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



A
Project Report on

REVIEW OF COUMARIC ACID AND IT'S DERIVATIVES AS A POTENT ANTI-DIABETIC AGENT

Submitted by

Bikram Das

University Regn. No. -201890201910029 of 2020-21

Roll No. - 18901920076

Under the guidance of

Ms. Amrita Sarkar

Assistant Professor

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

Submitted to

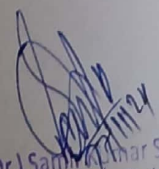
**Maulana Abul Kalam Azad University of Technology
West Bengal**

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

Academic Year: 2023 – 2024

1




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



DECLARATION

I hereby declare that the Project entitled "Review of Caffeic Acid and It's Derivatives as a Potent Anti-diabetic Agent" 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. Amrita Sarkar.

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

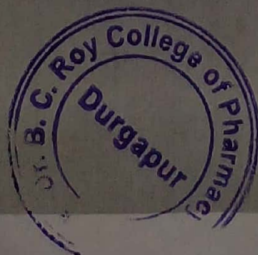
Bikram Das

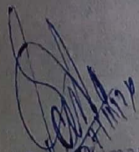
Name of Candidate: Bikram Das

Roll No: 18901920076

Date: 03.06.24

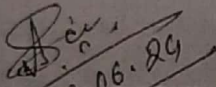
Place: Durgapur




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

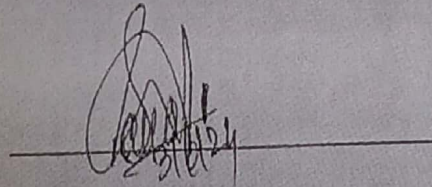
CERTIFICATE

This is to certify that the Project entitled "Review of Coumaric Acid and It's Derivatives as a Potent Anti-diabetic Agent." by Mr. Bikram 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/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.


03.06.24

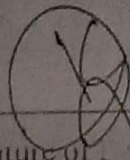
Ms. Amrita Sarkar
(Supervisor)

Date: 03.06.24
Place: Durgapur



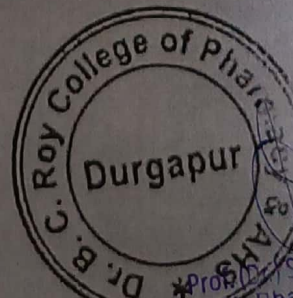
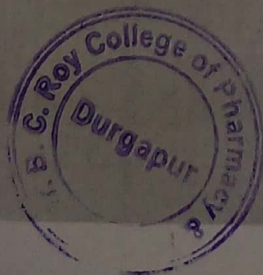
(Prof.) Dr. Samir Kumar Samanta
(Principal)

Date: 03.06.24
Place: Durgapur



Signature of the Controller of Examination

Date: 03.06.24
Place: Durgapur



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



A Project Report on

A REVIEW ON THE IMPACT OF THE FIRST LINE DRUG ON THE TREATMENT OF TUBERCULOSIS

Submitted by

BILASH PATRA

University Regn. No. - 201890201910086 of 2020-21

Roll No. - 18901920019

Under the guidance of
Mrs. Surita Ghosh
Assistant Professor

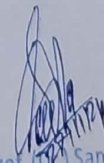
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

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

DECLARATION

I hereby declare that the Project entitled "A REVIEW ON THE IMPACT OF THE FIRST LINE DRUG ON THE TREATMENT OF TUBERCULOSIS" 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. 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.

Bilash Patra

Signature

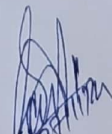
Name of Candidate: Bilash Patra

Roll No: 18901920019

Date: 03.06.24

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 THE IMPACT OF THE FIRST LINE DRUG IN THE TREATMENT OF TUBERCULOSIS" by Bilash 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 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 for assessment.

Surita Ghosh.

Signature of Supervisor

Name of Supervisor: Mrs. Surita Ghosh

Date: 03.06.2024

Place: Durgapur

PROF (DR.) SAMIR KR SAMANTA
(PRINCIPAL)

Date:

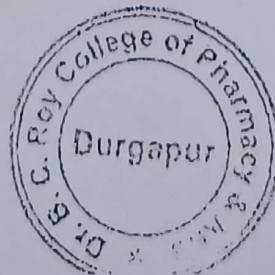
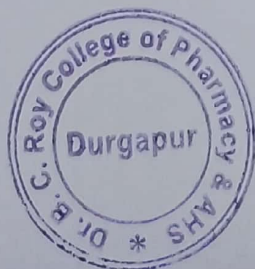
Place:

Signature of External Examiner

Date: 3/6/24

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

ROLE OF VITAMIN D3 AS NEUROPROTECTIVE AGENT

Submitted by

BITHIKA BANERJEE

University Regn. No.- 201890201910076

Roll No. – 18901920029

Under the guidance of

Mrs. Sushruta Chakraborty

Assistant Professor (Dept. of Pharmacology), BCRCP

In partial fulfilment of the Requirement for the

Degree of

Bachelor of Pharmacy

Submitted to

Maulana Abul Kalam Azad University of Technology

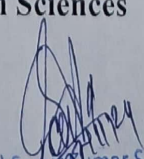
West Bengal

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

Durgapur 713206

Academic Year: 2023–2024




Prof. (Dr.) Saran 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 "ROLE OF VITAMIN D3 AS NEUROPROTECTIVE AGENT" 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. 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.

Bithika Banerjee

Signature

Name of Candidate: Bithika Banerjee

Roll No: 18901920029

Date: 03/06/24

Place: Durgapur.



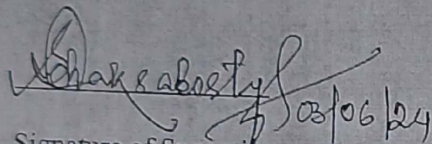
(1)

[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (I.U.)
Principal
Dr. B. C. Roy College of Pharmacy
Durgapur, West Bengal-713000



CERTIFICATE

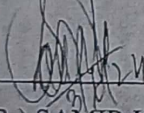
This is to certify that the Project entitled "ROLE OF VITAMIN D3 AS NEUROPROTECTIVE AGENT" by Bithika Banerjee in partial fulfilment for the BACHELOR OF PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. 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: Mrs. Sushruta Chakraborty

Date: 03/06/24

Place: Durgapur



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

Date:

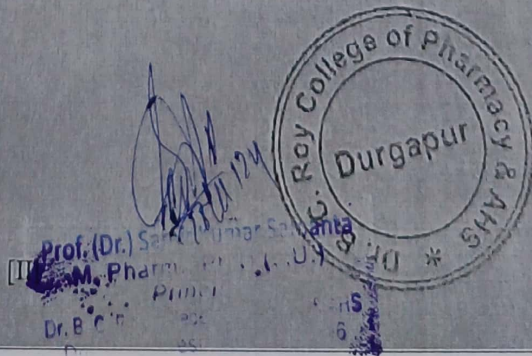
Place:



Signature of External Examiner

Date: 8/6/24

Place: Durgapur





**NATURAL REMEDIES FOR THE MANAGEMENT OF THE
DIABETES**

Submitted by-

BUBAI MOHISH

University Regn. No. -211890201920003 of 2021-22

Roll No. -18901921114

In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy
Maulana Abul Kalam Azad University of Technology
West Bengal

Under the guidance of

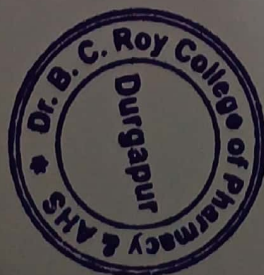
DR. FALGUNI PATRA

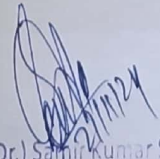
Associate Professor

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

Durgapur 713206

Academic Year: 2020 - 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

I hereby declare that the Project entitled "Natural Remedies For The Management Of Diabetes" 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. Falguni Parra.

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

Bubai Mohish.
Signature

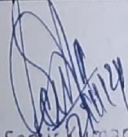
Name of Candidate: Bubai Mohish

Roll No: 18901921114

Date:

Place:

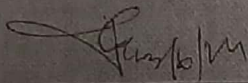
1 | Page


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



CERTIFICATE

This is to certify that the Project entitled "Natural Remedies For The Management Of Diabetes" by Bubai Mohish 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.

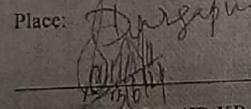


Signature of Supervisor

Name of Supervisor: Dr. Falguni Patra

Date: 03/02/2024

Place: Durgapur

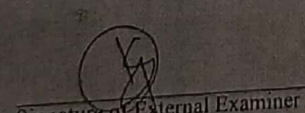


PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

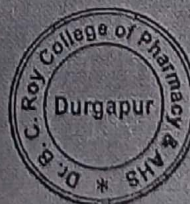
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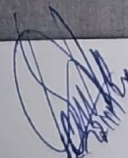
Signature of External Examiner

Date:

Place:



2 | Page



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
**RECENT ADVANCEMENT OF DRUGS USED IN
THE TREATMENT OF HYPERTENSION**

Submitted by
Debjyoti Dey

University Regn. No. – 211890201920009 of 2021-22

Roll No. - 18901921111

Under the guidance of
Mr. Sagar Sengupta
Associate Professor

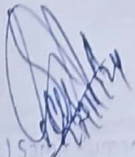
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

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.) S. Samanta
M. Pharm., (I.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal 713206



DECLARATION

I hereby declare that the Project entitled "RECENT ADVANCEMENT OF DRUGS USED IN THE TREATMENT OF HYPERTENSION" 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.

Debjyoti Dey.

Signature

Name of Candidate: Debjyoti Dey

Roll No: 18901921111

Date: 03/06/2024



[Signature]
Prof. (Dr.) Samanta
M. Pharm. (P.U.)
Pharmacist
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal 713008



CERTIFICATE

This is to certify that the Project entitled "RECENT ADVANCEMENT OF DRUGS USED IN THE TREATMENT OF HYPERTENSION" by Debjyoti 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/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.

[Handwritten Signature]

Signature of Supervisor

Name of Supervisor: Mr. Sagar Sengupta

Date: 03.06.2024

Place: Durgapur

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

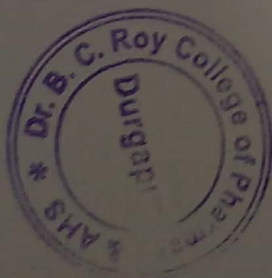
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Place: Durgapur

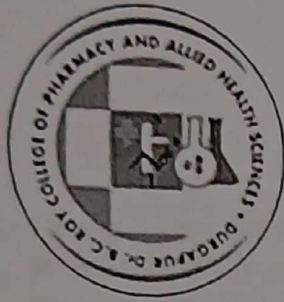
[Handwritten Signature]
Signature of External Examiner

Date: 03.06.2024

Place: Durgapur



[Handwritten Signature]
Prof. (Dr.) Samir Samanta
M. Pharm. (U.)
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal, India



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A Project Report on
STABILITY FACTORS OF EMULSION AND SUSPENSION

Submitted by
Dibendu Sannigrahi

University Regn. No. – 201890201910096 of 202021

Roll No. 18901920009

Under the guidance of
Mr. Saptarshi Dutta

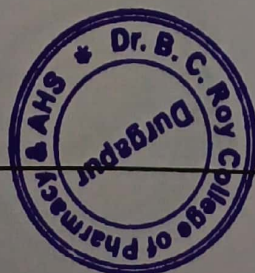
Assistant Professor

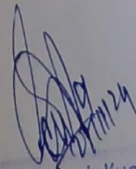
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

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: 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

I hereby declare that the Project entitled "STABILITY FACTORS OF EMULSION AND SUSPENSION" 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. 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.

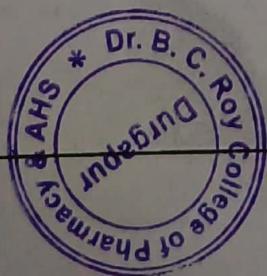
Dibendu Sannigrahi
Signature

Name of Candidate: Dibendu Sannigrahi

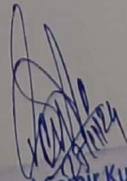
Roll No: 18901920009

Date: 03/06/24

Place: DURGAPUR

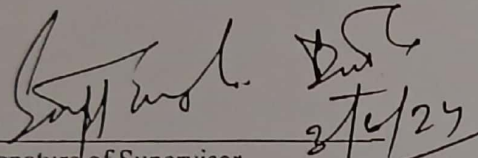


[1]


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

CERTIFICATE


This is to certify that the Project entitled "STABILITY FACTORS OF EMULSION AND SUSPENSION" by Dibendu Sannighari 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 has 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. Saptarshi Dutta


Date:

Place:


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

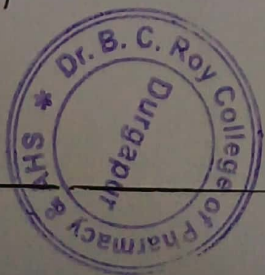
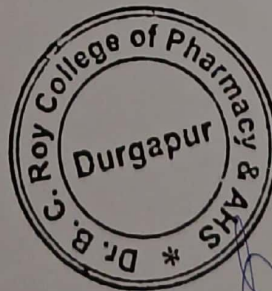
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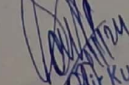

Signature of External Examiner

Date: 3/6/24

Place: Durgapur -



[II]


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
**METALLIC ALLIES: EXPLORING ANTIMICROBIAL
RESISTANCE METAL COMPLEXES**

Submitted by
Indranil Kundu
University Regn. No. -201890201910061
Roll No. -18901920044

Under the guidance of
Dr. Sagarika Deepthy Tallapragada

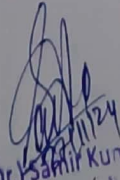
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

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



DECLARATION

I hereby declare that the Project **Metallic Allies: Exploring Antimicrobial Resistance Metal Complexes** 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**

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

Indranil Kundu / 03/06/2024

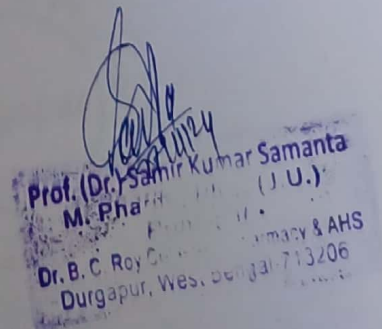
Signature

Name of Candidate: Indranil Kundu

Roll No: 18901920044

Date: 03/06/2024

Place: Dr. Meghnad Saha Sarani, Bidhannagar, Durgapur, West Bengal, 713212



CERTIFICATE

This is to certify that the Project entitled **Metallic Allies: Exploring Antimicrobial Resistance Metal Complexes** by **Indranil Kundu** 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.


Dr. T. Sagarika Deepthy 03/06/24.

Signature of Supervisor

Name of Supervisor:

Date:


Place:



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

Date:

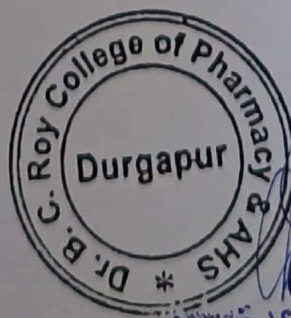
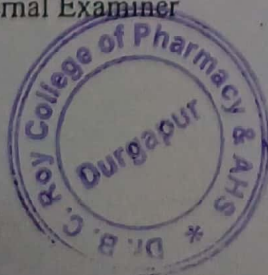
Place:




Signature of External Examiner

Date:

Place:




Prof. (Dr.) Samir Kumar Samanta
M. Pharm. (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 713002



A

Project Report on
**ERGONOMIC Risk Assessment by Posture Analysis Using
RULA In Pharmacy Stores To Evaluate The Relation
Between Work-Related Stress & Musculo-Skeletal Disorders**

Submitted by

JEET BANERJEE

University Regn. No. -201890201910046 of 2020-2021

Roll No. -18901920059

Under the guidance of

MR. RUDRANIL KARMAKAR

ASSISTANT PROFESSOR, BCRCP

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

Submitted to Mr. Rudranil Karmakar


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

DECLARATION

I hereby declare that the Project entitled "Ergonomic risk assessment using RULA performed in different Pharmacy stores to evaluate the relation between Work related stress and MSD" 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. Rudranil Karmakar

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

Jeet Banerjee

Signature

Name of Candidate: Jeet Banerjee

Roll No: 18901920059

Date: 03.06.2024

Place: Durgapur



Samir Kumar Samanta
Prof. (Dr.) Samir Kumar Samanta
M. Pharm. Ph.D. (I.U.)
Dr. B. C. Roy College of Pharmacy and A.H.S
Durgapur, West Bengal - 726006

CERTIFICATE

This is to certify that the Project entitled "Ergonomic risk assessment using RULA performed in different Pharmacy stores to evaluate the relation between Work related stress and MSD" by Jeet Banerjee 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.

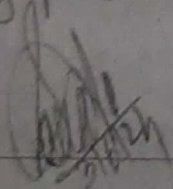
Rudranil Karmakar

Signature of Supervisor

Name of Supervisor: Mr. Rudranil Karmakar

Date: 03/06/2024

Place: Durgapur

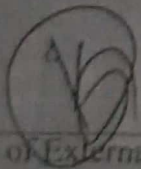


PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

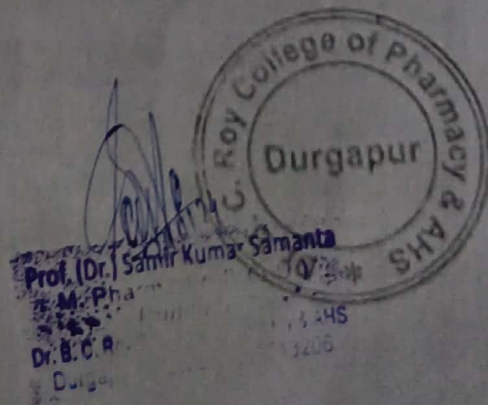
Place:



Signature of External Examiner

Date:

Place:





A
Project Report on
**METALLIC ALLIES: EXPLORING ANTIMICROBIAL
RESISTANCE METAL COMPLEXES**

Submitted by
Abhishek Chowdhury
University Regn. No. -201890201910087
Roll No. -18901920018

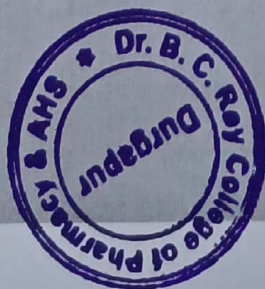
Under the guidance of
Dr. Sagarika Deepthy Tallapragada

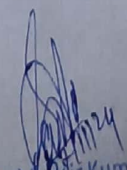
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

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

DECLARATION

I hereby declare that the Project **Metallie Allies: Exploring Antimicrobial Resistance Metal Complexes** 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

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

Abhishek chowdhury 03/06/2024
Signature

Name of Candidate: Abhishek Chowdhury

Roll No:18901920018

Date:03/06/2024

Place: Dr. Meghnad Saha Sarani, Bidhannagar, Durgapur, West Bengal, 713212



Prof. (Dr.) Sagarika Deepthy Tallapragada
M. Pharm. (Pharmaceutics)

Dr. Sagarika Deepthy Tallapragada
Durgapur, West Bengal, 713206

CERTIFICATE

This is to certify that the Project entitled **Metallic Allies: Exploring Antimicrobial Resistance Metal Complexes** by **Abhishek Chowdhury** 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.

Dr. T. Sagarika Deepthy
03/06/24

Signature of Supervisor

Name of Supervisor:

Date:

Place:

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

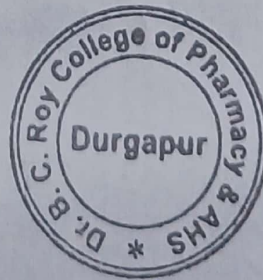
Date:

Place:

Signature of External Examiner

Date:

Place:



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

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





MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



^

Project Report on
**NATURAL PRODUCT- DERIVED DRUGS FOR THE TREATMENT OF
INFLAMMATORY BOWEL DISEASES (IBD)**

Submitted by

Abhishek Malik

University Regn. No. –

201890201910047 of 2020-21

Roll No. -18901920058

Under the guidance of

Atreyee Ganguly

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: 2020 – 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

I hereby declare that the Project entitled "NATURAL PRODUCT- DERIVED DRUGS FOR THE TREATMENT OF INFLAMMATORY BOWEL DISEASES (IBD)" 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 **Atreyee Ganguly**

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

Abhishek Malik

Signature

Name of Candidate: Abhishek Malik

Roll No: 18901920058

Date: 03/06/24

Place: Durgapur



Samir Kumar Samanta
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 "NATURAL PRODUCT- DERIVED DRUGS FOR THE TREATMENT OF INFLAMMATORY BOWEL DISEASES (IBD)" by Abhishek Malik 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.

Atreyee Ganguly

Signature of Supervisor

Name of Supervisor: Atreyee Ganguly

Date: 03/06/2024

Place:

[Signature]

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

Date:

Place:

[Signature]

Signature of External Examiner

Date:

Place:



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



A
Project Report on

Pathophysiology and therapeutic approach of inflammatory bowel disease

Submitted by

AGNITH MAITY

University Regn. No. -201890201910073 OF 2020-2021

Roll No. -18901920032

Under the guidance of
Mr. Indrajit Chand.

Designation

Assistant professor

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

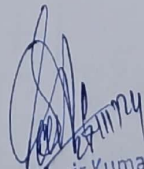
Submitted to

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

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

Academic Year: 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

I hereby declare that the Project entitled "Pathophysiology and therapeutic approach of inflammatory bowel 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. 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.

Signature Agnith Maity

Name of Candidate: Agnith Maity

Roll No: 18901920032

Date: 03.06.2024

Place: Durgapur.



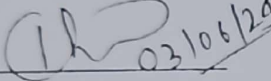
2

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 "Pathophysiology and therapeutic approach of inflammatory bowel disease" by Agnith Maity 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.

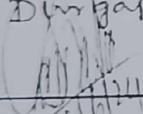

03/06/24

Signature of Supervisor

Name of Supervisor: Mr. Indrajit Chand.

Date: 03/06/24

Place: Durgapur



PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place:




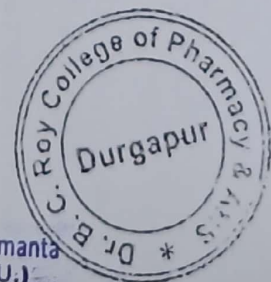
Signature of External Examiner

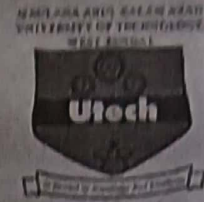
Date: 3/6/24

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

Implication of Nitric Oxide in the Pharmacological Actions of Paracetamol

Submitted by

AJITESH PATRA

University Regn. No. - 201890201910003

Roll No. - 18901920102

Under the guidance of

Dr. SHYAMSHREE S SMANNA

Professor (Pharmacology)

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: 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 "Implication of Nitric Oxide in the Pharmacological Actions of Paracetamol" 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 SManna. The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

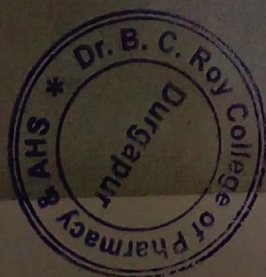
Ajitesh Patra
Signature

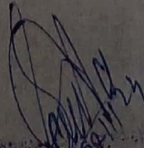
Name of Candidate: Ajitesh Patra

Roll No: 18901920102

Date: 3/06/24

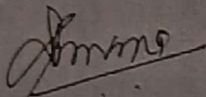
Place: Durgapur




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

Certificate

This is to certify that the Project entitled "Implication of Nitric Oxide in the Pharmacological Actions of Paracetamol" by Ajitesh 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/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.

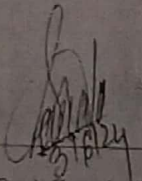


Signature of Supervisor

Dr. Shyamshree S SManna

Date: 3/06/24

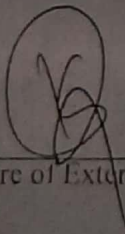
Place: DURGAPUR



Prof. (Dr.) Samir Kr. Samanta
PRINCIPAL

Date:

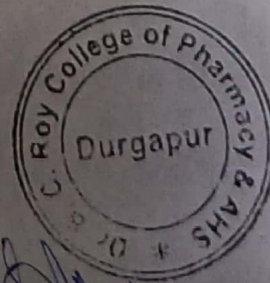
Place: DURGAPUR



Signature of External Examiner

Date:

Place: DURGAPUR



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



A
Review Report on

ZEBRA FISH AS A MODEL IN DRUG DISCOVERY

Submitted by

AMRITA SINGHA

University Regn. No. – 201890201910035 of 2020-21

Roll No. - 18901920070

Under the guidance of

SHOBHAN BOSE

Assistant Professor, BCRCP, Durgapur

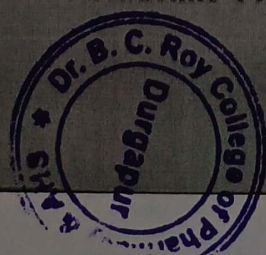
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

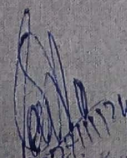
Submitted to

**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. (U.U.)
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal



DECLARATION

I hereby declare that the Review Report entitled "Zebra Fish as a Model in Drug Discovery" 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. Shobhan Bose (Assistant Professor, BCRC, Durgapur)

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

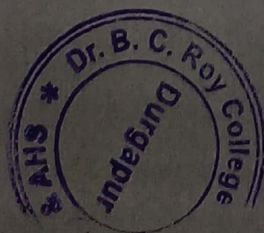
Amrita Singha
Signature

Name of Candidate: Amrita Singha

Roll No: 18901920070

Date: 31/05/2024

Place: Durgapur



[Signature]
Prof. (Dr.) Subir Kumar Samanta
M. Pharm. (U.)

Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713200



CERTIFICATE

This is to certify that the Review Report entitled "Zebra Fish as a Model in Drug Discovery" by Amrita 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.

A.S.
31/5/2024

Signature of Supervisor

Name of Supervisor: Mr. Shobhan Bose

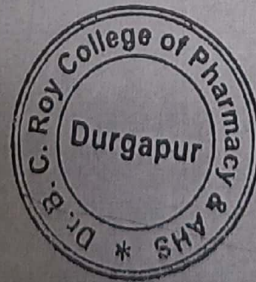
Date: 31/5/2024

Place: Durgapur

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

Date: 31/5/2024

Place: Durgapur



[Signature]
Signature of External Examiner

Date: 31/6/24

Place: Durgapur



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



A Project Report on

**TO DESIGN SOME NOVEL ACTINONIN
DERIVATIVES AS HSPDF AND HCT INHIBITORS
BY STRATEGIC AMALGAMATION OF LIGAND
AND STRUCTURE-BASED DRUG DESIGN**

Submitted by

ANIK MUKHOPADHYAY

University Regn. No. – 201890201910018 of 2020-21

Roll No. – 18901920087

Under the guidance of

Dr. Souvik Basak

Associate 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: 2023 - 2024




Prof. (Dr.) Sanir 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 "To design some novel Actinonin derivatives as HsPDF and HCT inhibitors by strategic amalgamation of ligand and structure-based drug design" 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.

Anik Mukhopadhyay

Signature

Name of Candidate: ANIK MUKHOPADHYAY

Roll No: 18901920087

Date: 03/06/24

Place: Durgapur



[Signature]
Prof. (Dr.) Souvik 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 "To design some novel Actinonin derivatives as HsPDF and HCT inhibitors by strategic amalgamation of ligand and structure-based drug design" by Anik Mukhopadhyay 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.

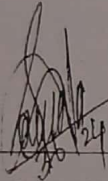
Sonali Basu
21/6/24

Signature of Supervisor

Name of Supervisor:

Date:

Place:



PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

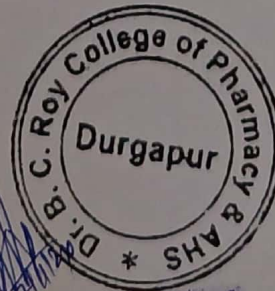
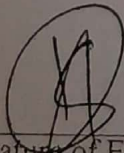
Date:

Place:

Signature of External Examiner

Date:

Place:



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

**TO DESIGN SOME NOVEL ACTINONIN
DERIVATIVES AS HSPDF AND HCT INHIBITORS
BY STRATEGIC AMALGAMATION OF LIGAND
AND STRUCTURE-BASED DRUG DESIGN**

Submitted by

ANIKET OJHA

University Regn. No. – 201890201910093 of 2020-21

Roll No. – 18901920012

Under the guidance of

Dr. Souvik Basak

Associate 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: 2023 - 2024



Prof. (Dr.) Samir Kumar Samanta
M. Pharm.
Pri
Dr. B. C. Roy Col
Durgapur, V
713206



DECLARATION

I hereby declare that the Project entitled "To design some novel Actinonin derivatives as HsPDF and HCT inhibitors by strategic amalgamation of ligand and structure-based drug design" 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.

Aniket Gha

Signature

Name of Candidate: *Aniket Gha*

Roll No: *18901925012*

Date: *03.06.2024*

Place: *Durgapur*



[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., (Ph.D.)
Prin. & AHS
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 726105

CERTIFICATE

This is to certify that the Project entitled "To design some novel Actinonin derivatives as HsPDF and HCT inhibitors by strategic amalgamation of ligand and structure-based drug design" by Aniket Ojha 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.


Soumit Banerjee
3/6/24

Signature of Supervisor

Name of Supervisor:

Date:

Place:



PROF (DR) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

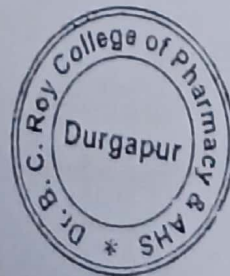
Place:

Soumit Banerjee
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:





MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A

Project report on

NATURAL PRODUCTS AS ANTI- INFLAMMATORY AGENTS

Submitted by

ANIRBAN DAN

University Roll. No. – 18901920036

University Regn. No. - 201890201910069

Under the guidelines of

Dr. SUDIP KUMAR MANDAL

Assistant Professor

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

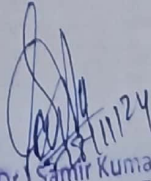
Submitted to

**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.)
Dr. B. C. Roy
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "NATURAL PRODUCTS AS ANTI-INFLAMMATORY AGENTS" 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.

Anirban Dan

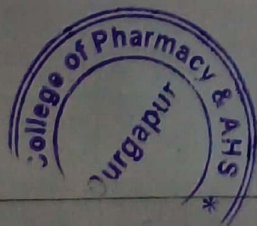
Signature

Name of Candidate: Anirban Dan

Roll No: 18901920036

Date: 03/06/2024

Place: Durgapur

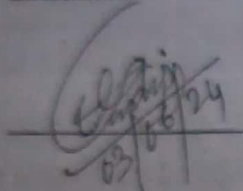


[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm. Ph.D (J.U.)
Faculty of Pharmacy & AHS
Durgapur, West Bengal-713206



CERTIFICATE

This is to certify that the Project entitled "NATURAL PRODUCTS AS ANTI-INFLAMMATORY AGENTS" by Anirban Dan 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.

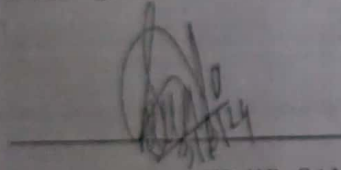


Signature of Supervisor

Name of Supervisor: DR. SUDIP KUMAR MANDAL

Date: 03/06/2024

Place: DURGAPUR



PROF. (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:


Place:



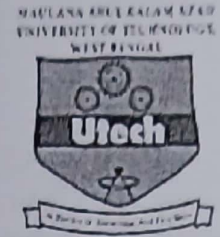
Date: 31/6/24

Place: Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm. (J.U.)

Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 73206



A Project Report
ON
**IN SILICO SCREENING OF DIFFERENT
COUMARIN DERIVATIVES AS ANTI-LUNGS
CANCER AGENT**

Submitted by

ANKAN MUKHERJEE

University Regn. No. -201890201910066 of 2020-21

Roll No. - 18901920039

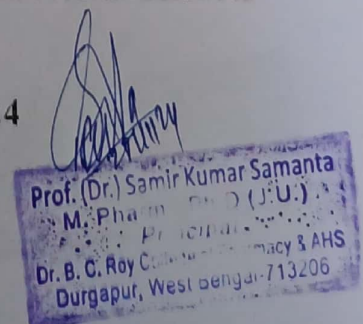
Under the guidance of
Mr. Ismail Mondal
Assistant Professor

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: 2023 – 2024



DECLARATION

I hereby declare that the Project entitled "*In Silico Screening of Coumarin Derivatives as Anti-lungs Cancer Agent*" 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.

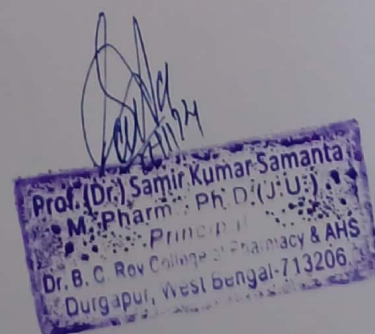
Ankan Mukherjee
Signature

Name of Candidate: Ankan Mukherjee

Roll No: 18901920039

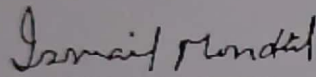
Date: 03/06/24

Place: Durgapur



CERTIFICATE

This is to certify that the Project entitled "*In Silico Screening of Different Coumarin Derivatives as Anti-lungs Cancer Agent*" by Ankan Mukherjee 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: Mr. Ismail Mondal

Date: 03/06/24

Place: Durgapur



Signature of External Examiner

Date: 3/6/24

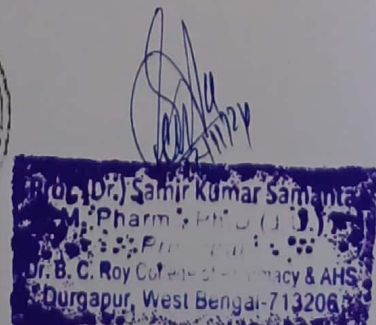
Place: Durgapur



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

Date: 3/6/24

Place: Durgapur





MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Report on

**Design and Molecular Docking of some
Derivatives of Natural Products as α -synuclein
Protein Fibrillation Inhibitor**

ANKITA DEY

ROLL NO-18901920031

REG NO-201890201910074

PRITAM DE

ROLL NO- 18901920100

REG NO- 201890201910005

SAYAK MONDAL

ROLL- 18901921112

REG NO-211890201920001

ROHAN MONDAL

ROLL NO- 18901920067

REG NO- 201890201910038

Under the guidance of

Mrs. Puja Mishra

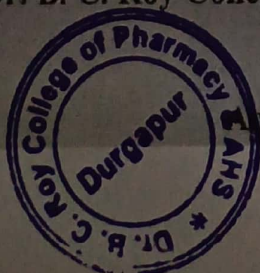
Assistant Professor

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

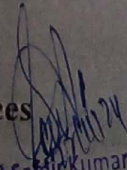
Submitted to

**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

We hereby declare that the Project entitled "Design and Molecular docking of some derivatives of natural products as α -Synuclein Protein Fibrillation inhibitor" 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 us 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.

Pribam De
Signature

Name of Candidate: Pribam De

Roll No.: 18901920100

Date: 03.06.2024

Place: Durgapur

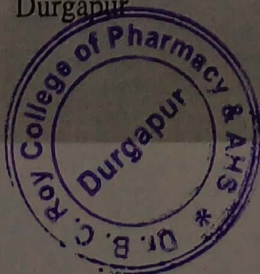
Signature Sayak Mondal

Name of Candidate: Sayak Mondal

Roll No.: 18901924112

Date: 03.06.2024

Place: Durgapur



Signature Ankita Dey

Name of Candidate: Ankita Dey

Roll No.- 18901920031

Date: 03.06.2024

Place: Durgapur

Signature Rohan Mondal

Name of Candidate: Rohan Mondal

Roll No.: 18901920067

Date: 03.06.2024

Place: Durgapur

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D. (J.U.)
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713201



CERTIFICATE

This is to certify that the Project entitled "Design and Molecular docking of some derivatives of natural products as α -Synuclein Protein Fibrillation inhibitor" by Name of the student Ankita Dey, Pritam De, Sayak Mondal, Rohan 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.

Pooja Mishra
3/6/24

SIGNATURE OF SUPERVISOR

Name of Supervisor: *Pooja Mishra*

Date: *03.06.2024*

Place: *Durgapur*

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

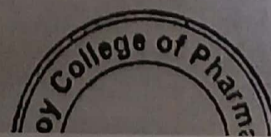
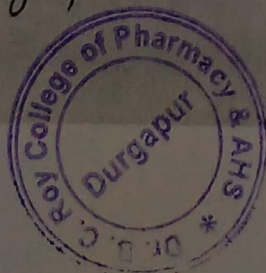
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Place:

SIGNATURE OF EXTERNAL EXAMINER

Date: *3/6/24*

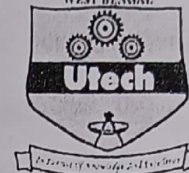
Place: *Durgapur.*



[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



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A

Project Report on

**Design and Molecular Docking of some
Derivatives of Natural Products as α -synuclein
Protein Fibrillation Inhibitor**

ANKITA DEY

ROLL NO-18901920031

REG NO-201890201910074

PRITAM DE

ROLL NO- 18901920100

REG NO- 201890201910005

SAYAK MONDAL

ROLL- 18901921112

REG NO-211890201920001

ROHAN MONDAL

ROLL NO- 18901920067

REG NO- 201890201910038

Under the guidance of

Mrs. Puja Mishra

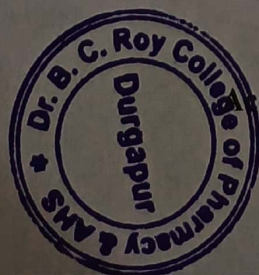
Assistant Professor

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

We hereby declare that the Project entitled "Design and Molecular docking of some derivatives of natural products as α -Synuclein Protein Fibrillation inhibitor" 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 us 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.

Priyam De
Signature

Name of Candidate: Priyam De

Roll No.: 18901920100

Date: 03.06.2024

Place: Durgapur

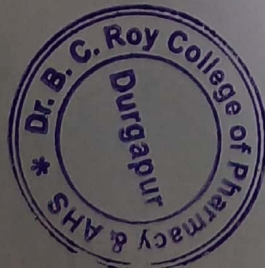
Signature Sayak Mondal

Name of Candidate: Sayak Mondal

Roll No.: 18901921112

Date: 03.06.2024

Place: Durgapur



Signature Ankita Dey

Name of Candidate: Ankita Dey

RollNo.- 18901920031

Date: 03.06.2024

Place: Durgapur

Signature Rohan Mondal

Name of Candidate: Rohan Mondal

Roll No.: 18901920067

Date: 03.06.2024

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 "Design and Molecular docking of some derivatives of natural products as α -Synuclein Protein Fibrillation inhibitor" by Name of the student Ankita Dey , Pritam De, Sayak Mondal, Rohan 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.

Dr. S. K. Samanta
03/06/24

SIGNATURE OF SUPERVISOR

Name of Supervisor: PUJA MISHRA

Date: 03.06.2024

Place: Durgapur

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

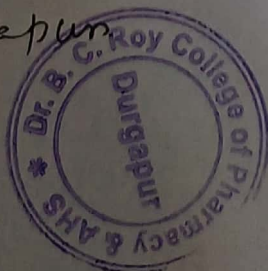
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Place:

SIGNATURE OF EXTERNAL EXAMINER

Date: 3/6/24

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-713205



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL.



A
Project Report on

**Design and Molecular Docking of some
Derivatives of Natural Products as α -synuclein
Protein Fibrillation Inhibitor**

ANKITA DEY

ROLL NO-18901920031

REG NO-201890201910074

PRITAM DE

ROLL NO- 18901920100

REG NO- 201890201910005

SAYAK MONDAL

ROLL- 18901921112

REG NO-211890201920001

ROHAN MONDAL

ROLL NO- 18901920067

REG NO- 201890201910038

Under the guidance of

Mrs. Puja Mishra

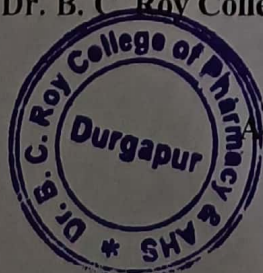
Assistant Professor

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

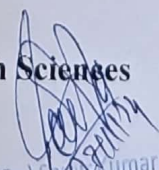
Submitted to

**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.) Sumit 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 "Design and Molecular docking of some derivatives of natural products as α -Synuclein Protein Fibrillation inhibitor" 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 us 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.

Bribam De
Signature

Name of Candidate: Bribam De

Roll No.: 18901920100

Date: 03.06.2024

Place: Durgapur

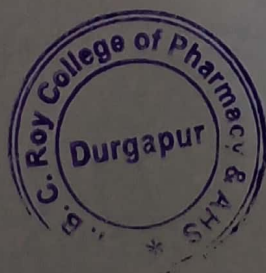
Signature Sayak Mondal

Name of Candidate: Sayak Mondal

Roll No.: 18901921112

Date: 03.06.2024

Place: Durgapur



Signature Ankita Dey

Name of Candidate: Ankita Dey

RollNo.- 18901920031

Date: 03.06.2024

Place: Durgapur

Signature Rohan Mondal

Name of Candidate: Rohan Mondal

Roll No.: 18901920067

Date: 03.06.2024

Place: Durgapur

[Signature]
Prof. (Dr.) Sanjay Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 713203

CERTIFICATE

This is to certify that the Project entitled "Design and Molecular docking of some derivatives of natural products as α -Synuclein Protein Fibrillation inhibitor" by Name of the student Ankita Dey , Pritam De, Sayak Mondal, Rohan 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.

Principle
03/06/24

SIGNATURE OF SUPERVISOR

Name of Supervisor: *PUJA MISHRA*

Date: *03.06.2024*

Place: *Durgapur*

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

Date:

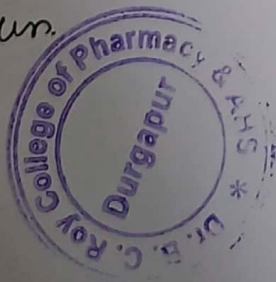
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SIGNATURE OF EXTERNAL EXAMINER

Date: *3/6/24*

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 - 713201



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Report on

**Design and Molecular Docking of some
Derivatives of Natural Products as α -synuclein
Protein Fibrillation Inhibitor**

ANKITA DEY

ROLL NO-18901920031

REG NO-201890201910074

PRITAM DE

ROLL NO- 18901920100

REG NO- 201890201910005

SAYAK MONDAL

ROLL- 18901921112

REG NO-211890201920001

ROHAN MONDAL

ROLL NO- 18901920067

REG NO- 201890201910038

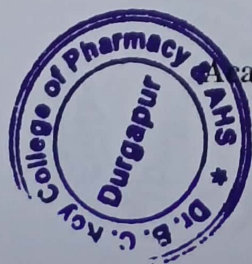
Under the guidance of
Mrs. Puja Mishra
Assistant Professor

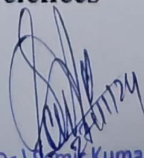
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

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. (U.)
Principal
Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur, West Bengal

DECLARATION

We hereby declare that the Project entitled "Design and Molecular docking of some derivatives of natural products as α -Synuclein Protein Fibrillation inhibitor" 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 us 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.

Sayak Mondal
Signature

Name of Candidate: Sayak Mondal

Roll No.: 18901921112

Date: 03.06.2024

Place: Durgapur

Ankita Dey
Signature

Name of Candidate: Ankita Dey

Roll No.- 18901920031

Date: 03.06.2024

Place: Durgapur

Britam De
Signature

Name of Candidate: Britam De

Roll No.: 18901920100

Date: 03.06.2024

Place: Durgapur

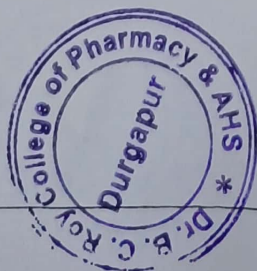
Rohan Mondal
Signature

Name of Candidate: Rohan Mondal

Roll No.: 18901920067

Date: 03.06.2024

Place: Durgapur



Prof. (Dr.) Sandip Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713200

CERTIFICATE

This is to certify that the Project entitled "Design and Molecular docking of some derivatives of natural products as α -Synuclein Protein Fibrillation inhibitor" by Name of the student Ankita Dey , Pritam De, Sayak Mondal, Rohan 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.

Dr. Puspa
03/06/24

SIGNATURE OF SUPERVISOR

Name of Supervisor: *PUJA MISHRA*

Date: *03.06.2024*

Place: *Durgapur*

[Signature]

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

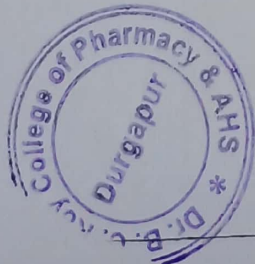
Date:

Place:

SIGNATURE OF EXTERNAL EXAMINER

Date: *3/6/24*

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



(ii)



A
Project Report on

Market Analysis on Novel Drug Delivery System

Submitted by

ANOMITA DAS

University Regn. No. - 201890201910075 of 2020-21

Roll No. - 18901920030

Under the guidance of

Mrs. RITUPARNA CHAKI GHOSH

Assistant Professor (dept. Pharmaceutics)

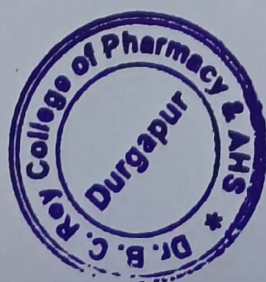
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

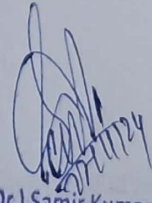
Submitted to

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

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

Academic Year: 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

I hereby declare that the Project entitled "Market Analysis on Novel 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 Assistant Prof. Rituparna Chaki Ghosh.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any Maulana Abul Kalam Azad University of Technology .

Anomita Das

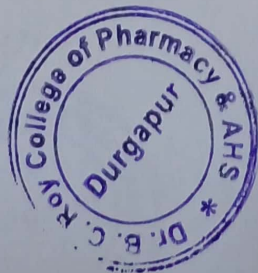
Signature

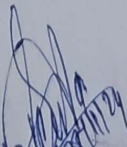
Name of Candidate: Anomita Das

Roll no: 18901920030

Date: 3/6/24

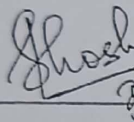
Place: Durgapur.




Prof. (Dr.) Sandip 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 "Market Analysis on Novel Drug Delivery System" by Anomita 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/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.

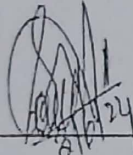

5/6/24

Signature of Supervisor

Name of Supervisor:- Assistant prof. Rituparna Chaki Ghosh

Date:

Place:


5/6/24

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date:

Place:

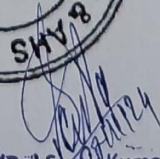


Signature of External Examiner

Date: 31/6/24

Place: Durgapur.

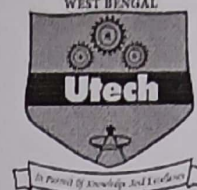



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206





MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Report on
**METALLIC ALLIES: EXPLORING ANTIMICROBIAL
RESISTANCE METAL COMPLEXES**

Submitted by

Antara Gupta

University Regn. No. -201890201910036

Roll No. -18901920069

Under the guidance of

Dr. Sagarika Deepthy Tallapragada

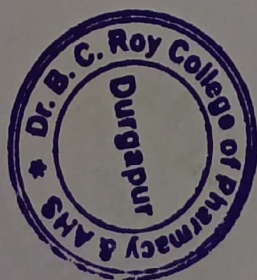
In partial fulfilment of the Requirement for the Degree of
Bachelor of Pharmacy

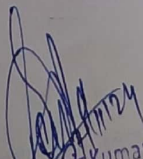
Submitted to

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



DECLARATION

I hereby declare that the Project **Metallic Allies: Exploring Antimicrobial Resistance Metal Complexes** 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**

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

Antara Gupta / 03.06.2024

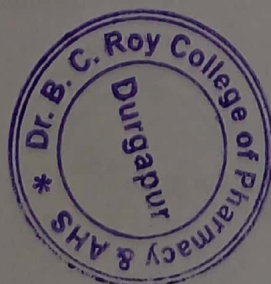
Signature

Name of Candidate: Antara Gupta

Roll No:18901920069

Date:03/06/2024

Place: Dr. Meghnad Saha Sarani, Bidhannagar, Durgapur, West Bengal,713212



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



CERTIFICATE

This is to certify that the Project entitled **Metallic Allies: Exploring Antimicrobial Resistance Metal Complexes** by **Antara Gupta** 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.

Dr. T. Sagarika Deepthi
03.06.24.

Signature of Supervisor

Name of Supervisor:

Date:

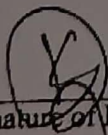
Place:



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

Date:

Place:

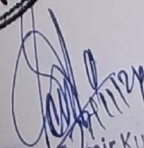


Signature of External Examiner

Date:

Place:




Prof. (Dr.) Samir Kumar Samanta
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