



Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2009 No. 25 of 2009) Koni, Bilaspur – 495009 (C.G.)

Department: Department of Pharmacy				
Academic Year: 2023_24				
S.No. Programme Code Name of the Programme				
01	205	B.Pharm		

Following students have carried out their Project work/ Internship/ Field Project/Industrial Training for the academic session 2022-23

S.No.	Roll number	Name	Page number
1	20006001	Aakash Verma	1-3
2	20006003	Abhinav Anand	4-6
3	20006004	Aditi Mishra	7-8
4	20006006	Akanksha Kaushik	9-11
5	20006007	Akash Chandra	12-14
6	20006008	Aman Ratre	15-17
7	20006009	Aniket kumar barman	18-20
8	20006010	Animesh mishra	21-23
9	20006011	Ashutosh deota	24-26
10	20006012	Bhumika sahu	27-29
11	20006013	Bunty bhardwaj	30-32
12	20006014	Chandreshwar lodha	33-35
13	20006015	Chetan kumar	36-38
14	20006016	Daulat ram chandra	39-41
15	20006017	Dimpal rathi	42-44
16	20006018	G divya murthy	45-47
17	20006019	Gaurav kumar	48-50
18	20006022	Jagjeet Kishor sonant	117-119
19	20006023	Jitesh pradhan	51-53
20	20006024	Khageshwar sahu	54-56
21	20006025	Krishna kumar	57-59

गुरू घासीदास विश्वविद्यालय (केन्रीय विश्वविद्यालय अधिनयम 2009 क्र. 25 के अंतर्गत स्थापित केन्रीय विश्वविद्यालय) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2009 No. 25 of 2009)

Koni, Bilaspur - 495009 (C.G.)

22	20006026	Maikala muskan rao	60-62
23	20006028	Megha acharya	63-65
24	20006029	Monika kumari	66-68
25	20006030	Ms. Monika rajput	69-71
26	20006031	Moumita paul	72-74
27	20006032	Mukesh k kumawat	75-77
28	20006033	Naveen kusharo	78-80
29	20006036	Nikhil kumar lahre	81-83
30	20006037	Om kumar mishra	84-86
31	20006038	Poshan prasad sahu	87-89
32	20006039	Pragya tiwari	90-92
33	20006040	Pratibha nair	93-95
34	20006041	Pratikshya panda	96-98
35	20006042	Priyesh ekka	99-101
36	20006044	Rahul gopal	102-104
37	20006045	Rahul kumar sahu	105-107
38	20006046	Rajendra kumar	108-110
39	20006047	Rajesh kumar gupta	111-113
40	20006051	Ritika agrawal	114-116
41	20006052	Rupal anand	117-119
42	20006053	Rupesh kumar miri	120-122
43	20006054	Sakshi kashyap	123-125
44	20006055	Shalini singh parmar	126-128
46	20006056	Sharad mishra	129-131
47	20006057	Sheikh hamid rza	132-134
49	19008824	Laxminarayan sahu	117-119
50	19008859	Shubham kumar jaiswal	135-137
51	20006059	Shilpi chakraborty	63-65
52	20006060	Ms. Shreya mishra	138-140
1	!	!	+

गुरु घासीदास विश्वविद्यालय (केन्रीय विश्वविद्यालय अधिनयम 2009 क्र. 25 के अंतर्गत स्थापित केन्रीय विश्वविद्यालय) कोनी, बिलासपुर - 495009 (छ.ग.)



Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2009 No. 25 of 2009)

Koni, Bilaspur - 495009 (C.G.)

53	20006062	Shubhanshu shukla	141-143
54	20006065	Sujit kumar mahato	144-145
55	20006066	Supurna panda	146-148
56	20006068	Tikeshwar	149-151
57	20006070	Vaishnavi Sharma	152-154
58	20006071	Vinay kumar	155-157
59	20006072	Vinay kumar bhoi	158-160
60	20006073	Vivek kumar manker	161-163
61	20006075	Yogita shukla	164-166
62	20006076	Abrar maqsood	167-169
63	2000601	Shrijan kr. pandey	170-172
64	18006014	Ganesh kumar	173-175
65	19006628	Jemin kujur	176-178
66	19008815	Ekta rathore	179-181
67	19008858	Simone mukharjee	182-184
68	19008862	Sanjana jaiswal	185-187
69	21081077	Rahima mallick	188-190
70		Aditya shukla	191-193
71		Danish ahmad khan	194-196
72		Manilal	197-199
73		Neelesh kulmitra	200-202
74		Raginee ratre	203-205
75		Rakhi lal	206-208
76		Siddhant singh	209-211
77		Somi sahu	212-214
78		Vivek painkra	215-217

A PROJECT WORK

ON

Flavonoids as an Anti-Cancer Agent

Submitted for

Partial fulfilment of the requirement for the Award of BACHELOR OF PHARMACY



Having Tokky

DEPARTMENT OF PHARMACY
GURU GHASIDAS VISHWAVIDYALAYA
(A CENTRAL UNIVERSITY)

SESSION-2023-24

SUPERVISED BY
PROF. V.D. RANGARI
DEPARTMENT OF PHARMACY
GGV, BILASPUR (C.G.)

3

SUBMITTED BY

AAKASH VERMA

B. PHARM. 8TH SEM.

ROLL NO. – 20006001

ENROLL. NO. – GGV/20/06001



DEPARTMENT OF PHARMACY

GURU GHASIDAS UNIVERSITY, BILASPUR, C.G.

(A central university, Established by the Central University Act -2009 no.25 of 2009)

Tel.No.-07752-260027, Fax no-07752- 260148

FORWARDING CERTIFICATE

This is to certify that Aakash Verma s/o. Suresh Verma is a student of b. Pharmacy final year (8th semester) in Department of pharmacy has submitted his project work Flavonoids as an Anticancer Agent for the project work with his truly and honestly observed inference during his project work. He was completed his project work under the supervision of Prof. V.D. Rangari.

I recommended the project report to be forwarded to the respective examiners for evaluation.

PROF. BHARTI AHIRWAR

Head of The Department

Department of Pharmacy,

Guru Ghasidas Vishwavidyalaya,

Koni, Bilaspur, C.G.

INDEX

S. N.	Contents	Page no
1	Introduction of flavonoids	8
2	Chemistry and classification of flavonoids	9
3	Roles of flavonoids in various bioactivities	16
4	Anticancer activity of flavonoids	17
5	Flavonoids having anti cancer properties	23
6	Conclusion	42
		43
7	References	

TMENT O

GURI

RMACY,

A, BILASPUR (C.G.)

(A Central University Established by the Central University Act, 2009 - No. 25 of 2009)



A Project Report

Hamiltonisy

on

Generic Drug Concept and it's future in India

Submitted for

Partial fulfilment of the requirement for the Award of the Degree of BACHELOR OF PHARMACY.

Session: 2023 - 24

SUPERVISED BY

Prof. ALPANA RAM

(M. Pharm, Ph.D.)

Professor

SUBMITTED BY

ABHINAV ANAND

B. Pharm. - 8th semester

Roll No.- 20006003

Enroll. No.- GGV/20/06003



DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)

(A Central University, Established by the Central University Act, 2009 - No. 25 of 2009)

Tel. No. - 07752-260027, Fax No. - 07752-260148

FORWARDING CERTIFICATE

This is to certify that ABHINAV ANAND S/O MANOJ KUMAR TIWARI is a student of B. Pharm.-8th semester of this institute has submitted his Project Report entitled Generic Drug Concept and it's future in India for the partial fulfilment of the requirement for the Degree of Bachelor of Pharmacy under the supervision of Prof. ALPANA RAM (Professor) during the academic session 2023-24.

I hereby recommend the Project Report to be forwarded to the respective examiner for further evaluation.

Forwarded By-

DR. BHARTI AHIRWAR

Head of Department
Department of Pharmacy

GGV, Bilaspur (C.G.)

<u>INDEX</u>

- CV-	NAME	PAGE NO.
CHAPTER NO.	CHAPTER'S NAME	
01	INTRODUCTION	01 – 03
U1	INTRODUCTION	
	TO PRODUCT	04 – 08
02	GENERIC DRUG PRODUCT DEVELOPMENT	
	APPROVAL PROCESS OF	09 – 11
03	GENERIC DRUG	
	GENERIC AND INNOVATOR DRUG	12 – 14
04	PRODUCTS	
	INDIAN SCENARIO OF GENERIC DRUG	15 – 23
05	PRODUT AND IT'S FUTURE	
	PAGGISSION	24 - 26
06	CONCLUS ON AND DISCUSSION	
		27 - 28
07	REFERENCES	

A

PROJECT REPORT

ON

DESIGNING AND ADMET STUDY OF NEWER CHLOROQUINE ANALOGUES AS ANTI-MALARIAL AGENTS

Submitted in Partial fulfillment of the requirement for the Award of the degree of **Bachelor of Pharmacy**



Session 2023-24

DR. YOTESH POUN ILEA

SUPERVISED BY

Dr. Sanmati Kumar Jain

(Professor)

SUBMITTED BY

Aditi Mishra

B. PHARM (8th Semester)

Roll No - 20006004

Enrollment No. - GGV/20/06021

DEPARTMENT OF PHARMACY,
GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)



DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDAYALAYA, BILASPUR, C.G. (A Central University, Established by the Central University Act 2009no.25 of 2009)

Tell. No. - 07752-260027, Fax No. - 07752-260148

Tell. No. - 07752-260027, Fax no-07752- 260148

ACKNOWLEDGEMENT

I would like to take this opportunity to voice and record my gratefulness and express my special thanks of gratitude to my supervision **Dr. Sanmati Kumar Jain** (Professor) Department of Pharmacy under whose guidance this project has been brought to completion.

I would also to extend my gratitude **Dr. Bharti Ahirwar (HOD)**, Department of Pharmacy Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.) for her kind permission to carry out on the present study.

Secondly, I would like to thank my parents and friends who help me in finalizing this project within the limited time period.

Lastly, I would like to thank all my supporters who have motivated me with enthusiasm to fulfill this project.

Aditi Mishra

(B. Pharm. 8th semester)

Roll No. - 20006004

Enrollment No. - GGV/20/0601

A

PROJECT WORK

ON

PHARMACEUTICAL COMPANY OF DABUR INDIA LIMITED

Submitted For

PARTIAL FULFILLMENT OF THE REQUIREMENT FOR

BACHELOR OF PHARMACY



Hamilton my

\$ESSION: 2023-24

SUPERVISED BY

Dr. S.H. Bodakhe

M.Pharm, Ph.D Professor SUBMITTED BY

Akanksha Kaushik

B.Pharm VIII Sem. Roll No. 20006006

Department of Pharmacy

Guru Ghasidas University, Bilaspur (C.G.

(A Central University Established By The Central University Act, 2009 No.25 of 2009)

DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)

(A Central University Established By The Central Universities Act, 2009 No. 25 of 2009)

FORWARDING CERTIFICATE

This is to certify that Akanksha kaushik D/O Mr. Haridayal Kaushik is a student of B.Pharm VIII Semester, of this Institute submitted her Project Work Report entitled "Pharmaceutical Company of Dabur India Limited" in the supervision of Dr. S.H. Bodakhe, Professor, during academic session 2023-24.

I recommended the Project Work Report to be forwarded to the respective examiner for further evaluation.

Prof. BHARTI AHIRWAR

RWARDED BY

(Head of Department)

DEPARTMENT OF PHARMACY
GGV BILASPUR (C.G.)

Index

Sr.No.	Contents	Page No.
1	Introduction of Dabur	1-2
2	History of Dabur	2-4
3	Vision o	5
4	Missions	5
5	Objectives	5-6
6	Overview of a company	6-7
7	Board of directors of Dabur India Limited	7-8
8	Whole time directors	7
9	Significance of the study	7
10	Scope of the study	8
11	Product line of Dabur	8-10
12	Life cycle of Dabur Amla hair oil	11-12
13	Problem faced by the company	12-13
14	Finding and Analysis	13-15
15	Pestle Analysis	15-17
16	Marketing strategy	17-20
17	Sales promotion and sales promotion tools of Dabur	20
18	Location Of Operations, offices, factories, manufacturing units, awards and achievements, suggestions	20-21
19	Awards and Achievements	22
20	Suggestions	22-23
21	Conclusions	23
22	Reference	24

A PROJECT WORK ON

"IN SILICO TOXICITY STUDY ON DRUGS USED FOR HEAD & NECK CANCER"

Submitted for

Partial fulfilment of the requirement for the award of Bachelor of Pharmacy



Hamilottos hy

DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDYALAYA BILASPUR, CHHATTISGARH

(A CENTRAL UNIVERSITY)

SESSION- (2023-24)

SUPERVISED BY

2222222222222222222

PROF (DR) K.P. NAMDEO

(PHARMACEUTICAL CHEMISTRY)

SUBMITTED BY

AKASH CHANDRA

B. PHARM (8TH SEM)

ROLL NUMBER - 20006007

ENROLLMENT .NO- GGV/20/06035





DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR, C.G

(A central university, Established by the Central University Act -2009 no.25 of 2009)

Tel.No.-07752-260027, Fax no-07752- 260148

FORWARDING CERTIFICATE

This is to certify that Akash Chandra, S/O. Naba Kumar Chandra is a student of B. pharmacy final year (7th semester) in Department of pharmacy has Submitted his project work entitled "In Silico Toxicity Study on Drugs Used for Head & Neck Cancer" for the project with his truly and honestly observed inference during his project work. He was completed his project work under the supervision of PROF (DR) K.P. NAMDEO (Professor of Pharmaceutical Chemistry).

I hereby forwarded his project work for pharmacy practice during the academic session 2023-24.

PROF.(DR) BHARTI AHIRWAR

(H.O.D.)



CONTENTS

- > INTRODUCTION
- > SYMPTOMS

V

V

D

10

2

9

1

v

0

9

3

2

2

3

0

1

0

3

3

3

3

3

3

)

3

•

)

3

3

- > RISK FACTORS
- > IMPORTANCE OF TOXICITY STUDY
- > TYPES OF TOXICITY STUDIES
- > ADMET PROFILE OF FEW ANTI-CANCER DRUG

(ALL DRUGS ARE FDA APPROVED)

- 1) BLEOMYCIN SULFATE
- 2) CETUXIMAB
- 3) DOCETAXEL
- 4) HYDROXYUREA
- 5) PEMBROLIZUMAB
- 6) METHOTREXATE SODIUM
- 7) NIVOLUMAB
- 8) TORIPALIMAB-TPZI
- 9) CARBOPLATCIN-TAXOL
- > CONCLUSION
- > REFERENCES



A PROJECT WORK ON

RESEARCH GUIDELINES FOR EVOLUTING THE SAFETY AND EFFICACY OF HERBAL MEDICINE

Submitted for

Partial fulfilment of the requirement for the Award of Bachelor of Pharmacy



Hamilo 105/24

DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA (A CENTRAL UNIVERSITY)

SESSION-2023-24

SUPERVISED BY

DR. DILIPKUMAR PAL PROFESSOR, PHARMACEUTICAL CHEMISTRY DEPARTMENT OF PHARMCY, GGV (A CENTRAL UNIVERSITY) KONI, BILASPUR, (C.G.) 495.009

SUBMITTED BY

AMAN RATRE
B. PHARM 8TH SEMESTER
ROLL NO. – 20006008
ENROLLMENT NO. - GGV/20/06010



DEPARTMENT OF PHARMACY GURU GHASIDAS UNIVERSITY, BILASPUR, C.G.

(A central university, Established by the Central University Act -2009 no.25 of 2009)

Tel.No.-07752-260027, Fax no-07752- 260148

FORWARDING CERTIFICATE

This is to certify that AMAN RATRE S/O. SHYAMLAL, is a student of B. Pharmacy final year (8th semester) in Department of Pharmacy has Submitted his project work entitled "RESEARCH GUIDELINES FOR EVOLUTING THE SAFETY AND EFFICACY OF HERBAL MEDICINE" for the project work with his truly and honestly observed inference during his project work. He has completed his project work under the supervision of PROF. DILIPKUMAR PAL (Professor of Pharmaceutical Chemistry).

I hereby forward his project work for the academic session 2023-24.

PROF, BHARTI AHIRWAR
HEAD OF DEPARTMENT
DEPARTMENT OF PHARMACY
GURU GHASIDAS VISHWAVIDYALAYA
(A CENTRAL UNIVERSITY)
KONI, BILASPUR, (C.G.) 495009

INDEX

SN	CONTENT	PAGE NO
01	INTRODUCTION	2-3
02	OBJECTIVE	3
03	GOALS	3-4
04	GUIDELINES	4-8
05	GENERAL CONSIDERATIONS IN HERBAL MEDICINE RESEARCH	8-13
06	REGULATORY REQUIREMENT	13-14
07	RESPONSIBILITIES OF INVESTIGATOR	14-15
08	ADMINISTRATION	15
09	CLINICAL RESEARCH OF HERBAL DRUGS	15-19
10	OBSERVATION & EXAMINATION	19-21
11	ADVANTAGES OF RESEARCH GUIDELINE	21-22
12	FUTURE ADVANCE IN SAFETY & EFFICACY IN HERBAL DRUGS	22-23
13	CONCLUSION	23-24
14	REFERENCES	24-26

A

Project Report

on

"Status of Over The Counter (OTC) drugs in Indian online pharmacies"

Submitted in Partial fulfilment of the requirement of the Award of the degree

Bachelor of pharmacy



Hamilton Fry

Session 2023-24

Submitted by

Aniket Kumar Barman
B. Pharm (8th Semester)
Roll No: 20006009

Enrollment No.-GGV/20/06011

Supervised by

Dr. Ravishankar Pandey (Professor) Department of Pharmacy, Guru Ghasidas Vishwavidyalaya

DEPARTMENT OF PHARMACY,
GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)



DEPARTMENT OF PHARMACY

GURU GHASIDAS UNIVERSITY, BILASPUR, C.G.

(A Central University, Established by the Central University Act 2009 no.25 of 2009)

Tell. No. - 07752-260027, Fax No. - 07752-260148

FORWARDING CERTIFICATE

This is to certify that Aniket Kumar Barman S/O Narayan Prasad Barman is a student of B. Pharmacy Final Year (8th semester) in Department of Pharmacy has submitted his project work entitled "Status of Over The Counter (OTC) drugs in Indian online pharmacies "for the project report in pharmacy with his truly and honestly observed inference during his project work. He has completed his project work under the supervision of Dr. Ravishankar Pandey (Professor) Department of Pharmacy.

I hereby forwarded his project work for pharmacy practice during the academic session 2023-24.

Forwarded by

Dr. Bharti Ahirwar

(Professor and Head of Department)

	INDEX	
C N	D. CONTENTS	PAGE NO.
1	INTRODUCTION	01
2	USE OF OTC MEDICINE	02
3	STATUS OF MEDICINE	02
4	BENEFITS OF USING OTC MEDICINE	03
5	ADVERSE EFFECTS	03
6	OPTIMIZING USE OF OTC MEDICINE	03
7	REASONS FOR SELF MEDICATION	
8	CHOOSING AND USING OTC DRUGS	05
9	SIDE EFFECTS	05
		460
10	OTC DRUGS ADDICTION	06
11	OTC INTAKE UNDER SUPERVISION	07
12	NECESSARY CRITERIA	07
13	ADVANTAGE OF OTC MEDICINES	08
14	LIST OF OTC DRUGS	09
15	SURVEYS CONDUCTES IN ONLINE	15
	MEDICINE STORE	THE RESERVE LINE CATE
16	CONCLUSION	18
17	REFERENCES	19

A PROJECT WORK ON

"Formulation Development Of Roll-on Balm For Pain Management"

Submitted for

Partial Fulfilment of the requirements for the Award of Degree of Bachelor of Pharmacy



Hamiltotry

SESSION-2023-24

SUPERVISED BY

Dr. Dinesh K. Mishra Prof. (M.Pharm, PhD)

SUBMITTED BY

Animesh Mishra
B.PHARM(8th SEM)
Roll no.- 20006010

Enrollment no.- GGV/20/06012

DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDYALAYA BILASPUR, C.G. (A CENTRAL UNIVERSITY)



DEPARTMENT OF PHARMACY

GURU GHASIDAS UNIVERSITY, BILASPUR, C.G.

(A central university, Established by the Central University Act -2009 no.25 of 2009)

Tel.No.-07752-260027, Fax no-07752- 260148

FORWARDING CERTIFICATE

This is to certify that Animesh Mishra S/O Ravi Shankar Mishra is a student of B. pharmacy final year (8th semester) in Department of pharmacy has submitted his project work entitled "Formulation Development Of Roll-on Balm For Pain Management" for the pharmacy practice with his truly and honestly observed inference during his project work. He has completed his project work under the supervision of Dr. Dinesh K. Mishra.

I hereby forward his project work for pharmacy practice during the academic session 2023-24.

FORWARDED BY:-

Dr. Bharti Ahirwar (HEAD OF THE DEPARTMENT)

CONTENT

- INTRODUCTION
- TYPES OF ROLL-ON
- PAIN RELIEVING ROLL-ON AVAILABLE IN THE MARKET
- MECHANISM OF ACTION
- COMPOSITION AND ITS USES
- CHEMICAL STRUCTURE OF COMPOUNDS
- FORMULATION AND DEVELOPMENT
- EVALUATION
- OBSERVATION AND RESULT
- STANDARD VERSUS EXPERIMENTAL
- ROLL OF PHARMACEUTICAL REGULATORY SCIENCE ON ROLL-ON BALM

the result of early. Here have been also being calables stood about a great his good for

and the transfer of the property of the property of the state of the s

- CONCLUSION
- REFERENCE

the condition of the property of the condition of the con

A PROJECT REPORT ON

CHEMISTRY OF OXAZOLES

Submitted in Partial fulfilment of the requirement for the Award of the degree of Bachelor of Pharmacy



Homistory

Session 2023-24

SUBMITTED BY

Ashutosh Deota

B. PHARM (8th Semester)

Roll No - 20006011

Enrollment No. - GGV/20/06013

SUPERVISED BY

DR. JAGADISH SINGH

(Professor)

Department of Pharmacy,

Guru Ghasidas Vishwavidyalaya

DEPARTMENT OF PHARMACY,
GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)



DEPARTMENT OF PHARMACY

GURU GHASIDAS UNIVERSITY, BILASPUR, C.G.

(A Central University, Established by the Central University Act 2009 no.25 of 2009)

Tell. No. - 07752-260027, Fax No. - 07752-260148

FORWARDING CERTIFICATE

This is to certify that Ashutosh Deota S/o Mr. Premshankar Deota is a student of B. Pharmacy Final Year (8th semester) at Department of Pharmacy has submitted his Project Work entitled "CHEMISTRY OF OXAZOLE" for the Pharmacy Practice with his truly and honestly observed inference during his Project Work. He was completed his Project

Work under the supervision Pharmaceutical Chemistry).

of DR. JAGADISH SINGH (Professor, Division of

I hereby forwarded his Project Work for Pharmacy Practice during the Academic Session 2023-24.

Forwarded by

Dr. Bharti Ahirwar

(Professor and Head of Department)

Department of Pharmacy

Index

Sr.No.	Contents	Page No.
1	Introduction	
2	History	1-2
3	Medicinal compound	2-3
4	Properties of oxazoles	3-12
5	Properties of substituted oxazoles	12-14
6	Synthesis of oxazoles	14-19
7	Medicinal use of oxazoles	19-20
8	Application	21
9	Marketed product	22-23
10	conclusion	24
11	References	25

A PROJECT REPORT ON

"Pharmaceutical Packaging"

Submitted For

Partial fulfillment of the requirement for the award of degree Bachelor of Pharmacy.



Hamile 108/24

SESSION 2023-24

SUPERVISED BY

Dr. SHEKHAR VERMA

M Pharm., Ph.D

Professor

SUBMITTED BY

BHUMIKA SAHU

B.Pharm-VIII Sem

Roll no.-20006012

Department of Pharmacy

GURU GHASIDAS VISHWAVIDYALAYA BILAPUR

(C.G.)

(A Central University Established By The Central University Act 2009 No-25 of 2009)



DEPARTMENTOF PHARMACY

GURUGHASIDASVISHWAVIDYALAYA, BILASPUR(C.G.)

(A Central university established by the Central Universities Act, 2009 no.25 of 2009)

FORWARDING CERTIFICATE

This is to certify that BHUMIKA SAHU D/o Mr. KHAGPATI SAHU is a student of B. Pharm VIII Semester, of this Institute has submitted her Project Report entitled "Pharmaceutical Packaging" in the supervision of Dr. SHEKHAR VERMA during academic session 2023 -24.

I recommended the Project Report to be forwarded to the respective examiner for further evaluation.

FORWARDED BY Dr. BHARTI AHIRWAR

PROFESSOR (HEAD OF DEPARTMENT) DEPARTMENT OF PHARMACY

INDEX

S.N.	CONTENT	PAGE NO.
1	Introduction	1-2
2	Function of Pharmaceutical Packaging	3-4
3	Types of Packaging	5-7
4	Types of material used for Packaging	8-24
5	Criteria for the Selection of package type and package material	25-26
6	Measures for Improving Sustainability in Packaging	27-28
7	Future of Pharmaceutical Packaging	28-30
8	Qualification And Quality Control of Pharmaceutical Packaging Components	30-32
9	Pharmacopeial Guidelines of Pharmaceutical Packaging	32-33
10	Testing for Evaluation of Packaging Materials	33-36
11	Top Companies in the India Pharmaceutical Packaging Industry	36-37
12	Conclusion	38
13	References	39-40

A PROJECT WORK ON

"MARKETING AND RESEARCH ASPECTS OF SUN PHARMA"

Session 2023-2024



Hamite Try

Supervised By:
DR. Sunil K. Jain
(Associate Professor)

0

Submitted By:

BUNTY BHARADWAJ B.Pharm VIII Sem. Roll: 20006013

Enrollment No: GGV/20/06015

Department Of Pharmacy Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)



2

3

DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR(C.G.) (A central University established by the Central University Act 2009 No. 25 of 2009)

Tel.:07752-260027 (O); 98271-50112 (R), fax; 07752-260148

FORWARDING CERTIFICATE

This is to certify that Bunty Bharadwaj s/o Mr. Gajendra Bharadwaj, a student of B. Pharm. 8th semester in the Department of Pharmacy, Guru Ghasidas Vishwavidyalaya, Bilaspur has submitted his project work entitled "MARKETING AND RESEARCH ASPECTS OF SUN PHARMA"

for the partial fulfilment of the requirement for the degree of bachelor of pharmacy. He has submitted his project work under the supervision of Dr. Sunil K. Jain.

I here by forwarding his report for the award of the degree of B. Pharmacy during the academic session 2023-2024.

PROF. BHARTI AHIRWAR

HEAD OF DEPARTMENT DEPARTMENT OF PHARMACY

GURU GHASIDAS UNIVERSITY

KONI BILASPUR, C.G.

INDEX

	CONTENT	PAGE NO
01	INTRODUCTION	01
02	HISTORY OF SUN PHARMA	01-02
03	MEDICINE CATEGORY	02-03
04	MISSION, VISION & VALUES	04-05
05	BOARD OF DIRECTORS & LEADERSHIP TEAM	05-09
06	MANUFACTURING FACILITIES & CAPABILITIES	09-12
07	MARKETING STRATEGY OF SUN PHARMA	13-15
08	STRONG INTELLECTUAL PROPERTY	15
09	TECHNOLOGY, R&D AND QUALITY MANAGEMENT SYSTEMS	15-19
10	AWARDS	19
11	LIST OF MEDICINE BY SUN PHARMA	19-38
12	KEY MILESTONES	38-39
13	CONCLUSION	39
14	REFERENCES	40

A PROJECT ON RESEARCH GUIDELINES FOR EVALUATING THE SAFETY AND EFFICACY OF HERBAL MEDICINES

Bachelor of Pharmacy For Session 2023-24

(Submitted for the Fulfillment of requirements for Bachelor of Pharmacy)



Hamiloston

Department of pharmacy school of Natural Resources

Guru Ghasidas Vishwavidyalaya Bilaspur (C.G.)

Under The Supervision Of Dr. Neeli Rose Beck (M.Pharm, Ph.D)

Prepared by
CHANDRESHWER LODHA
Roll No--20006014
Class B. Pharm 8th Sem.

DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)

(A Central university established by the Central Universities Act, 2009 no. 25 of 2009)

FORWARDING CERTIFICATE

This is to certify that CHANDRESHWER LODHA 5/0 JAMNU SINGH LODHA is a student of B.Pharm . VIII Semester , of this Institute has submitted his Project work Report entitled "RESEARCH GUIDELINES FOR EVALUATING THE SAFETY AND EFFICACY OF HERBAL MEDICINES" under the supervision of Dr NEELI ROSE BECK, Associate Professor ,Pharmacognosy, during academic session 2023-24.

I recommended the Project work Report to be forwarded to the respective examiner for further evaluation.

FORWARDED BY

PROFESSOR BHARTI AHIRWAR
HEAD OF DEPARTMENT
DEPARTMENT OF PHARMACY
GGV BILASPUR (C.G.)

1

INDEX

SN	CONTENT	PAGE NO
01	INTRODUCTION	2-3
02	OBJECTIVE	3
03	GOALS	3-4
04	GUIDELINES	4-8
05	GENERAL CONSIDERATIONS IN HERBAL MEDICINE RESEARCH	8-13
06	REGULATORY REQUIREMENT	13-14
07	RESPONSIBILITIES OF INVESTIGATOR	14-15
08	ADMINISTRATION	15
09	CLINICAL RESEARCH OF HERBAL DRUGS	15-19
10	OBSERVATION & EXAMINATION	19-21
11	ADVANTAGES OF RESEARCH GUIDELINE	21-22
12	FUTURE ADVANCE IN SAFETY & EFFICACY IN HERBAL DRUGS	22-23
13	CONCLUSION	23-24
4	REFERENCES	24-26

- all per procedurations or the forest and experience construction of the construction

등이 들어갔다. 1일 👸 이것, 👔 다시 이름 🖟 살인 아름 살이면 하나 나 나를 모르는 것이 어느 없는 사람들이 되었다.

tella a un acceptanta un proposito politico di publicio del teles del teles del teles del teles dell'estato del

The accurate the regarding and particles and provide the second of the s

afrond of the profession is the following that and one court outside one will be could

there appear boarding to all quality and walls a to blanc purphic

and with the common of the second of the sec

A

PROJECT REPORT

ON

" PHAMACEUTICAL REGULATORY AUTHORITIES AND AGENCIES"

Submitted For

Partial fulfillment of the Requirement for the Award of

BACHELOR OF PHARMACY



Hamiltostry

Session 2023-24

SUPERVISED BY

Dr.S. K. LANJHIYANA

M.Pharm.PhD

Associate professor

SUBMITTED BY

Chetan Kumar

B. Pharm VIII Sem.

Roll no. 20006015

1



DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDYALAYA , BILASPUR (C.G.)

(A Central university established by the Central Universities Act , 2009 no. 25 of 2009)

FORWARDING CERTIFICATE

This is to certify that CHETAN KUMAR S/O Mr.RAMASHANKAR SAHU is a student of B.Pharm. VIII Semester, of this Institute has submitted his Project Report entitled "Pharmaceutical Regulatory Authorities and Agencies" under the supervision of Dr.S.K. Lanjhiyana during academic session 2023-24

I recommended the Project Report to be forwarded to the respective examiner for further evaluation.

FORWARDED BY

S.N	II.	IDEX	P.N
(i)	INTRODUCTION CON	NTENTS	1-4
(ii)	REGULATORIS AUTHORIT	IES OF COUNTRY	1-27
1.	REGULATORIES AUTHORI	TIES OF INDIA	4-12
2.	REGULATORIES AUTHORI	TIES OF USA	12-15
3.	REGULATORIES AUTHORI	TIES OF EUROPIAN UNION	16-20
4.	REGULATORIES AUTHORI		20-23
5.	RUGULATORIES AUTHORI		23-25
6.	REGULATORIES AUTHORI		25-27
7.	FUTURE PROSPECTIVE		27-28
8.	CONCLUSION		28
9.	REFERENCES		28-30

Charles and the second

To it was the State of the second and the second an

A

PROJECT REPORT

ON

"AN OVERVIEW OF DRUG DISCOVERY AND DEVELOPMENT:
ROLE OF CLINICAL TRIALS"

Submitted For

Partial fulfillment of the Requirement for the award of BACHELOR OF PHARMACY



Hamiltony

Session 2023-24

SUPERVISED BY

Dr.K.P. MEENA

M.Pharm., Ph.D

Associate Professor

SUBMITTED BY
DAULAT RAM CHANDRA
B. Pharm. VIII Sem.
Roll No. 20006016



GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)

(A Central university established by the Central Universities Act, 2009 no. 25 of 2009)

FORWARDING CERTIFICATE

CHANDRA is a student of B.Pharm. VIII Semester, of this Institute has submitted his Project work Report entitled "AN OVERVIEW OF DRUG DISCOVERY AND DEVELOPMENT: ROLE OF CLINICAL TRIALS" under the supervision of Dr. K.P.MEENA, Associate Professor during academic session 2023 -24

I recommended the Project work Report to be forwarded to the respective examiner for further evaluation.

FORWARDED BY

DR. BHARTI AHIRWAR

PROFESSOR

HEAD OF DEPARTMENT

DEPARTMENT OF PHARMACY

GGV BILASPUR (C.G.)

S No.	CONTENTS	PAGE NO.
1	Introduction	1-2
2	Stages of drug discovery	3 - 8
3	Clinical trials	9 -10
4	Clinical trials protocols	10 - 11
5	Phases of clinical trials	12 – 15
	a) Phase 0	
	b) Phase 1	
	c) Phase 2	
	d) Phase 3	
6	Concept of blinding	16 - 17
7	FDA review on NDA	18
8	Phase 4 post marketing	19
	clinical trials	
9.	Conclusion	20
10	References	21

A

PROJECT WORK

ON

Review of Pharmaceutical HIMALAYA WELLNESS - India's
Booming Herbal Healthcare Company

Submitted For

PARTIAL FULFILLMENT OF THE REQUIREMENT FOR
BACHELOR OF PHARMACY



1 Shuil of 18 has

SESSION: 2023-24

SUPERVISED BY

Dr. YOGESH VAISHNAV

M.Pharm, Ph.D Associate Professor SUBMITTED BY

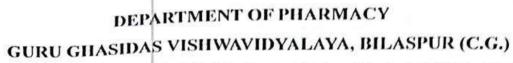
DIMPAL RATHI

B.Pharm VIII Sem. Roll No. 20006017

Department of Pharmacy

Guru Ghasidas University, Bilaspur (C.G.)

(A Central University Established By The Central University Act, 2009 No.25 of 2009)



(A Central University Established By The Central Universities Act, 2009 No. 25 of 2009)

FORWARDING CERTIFICATE

This is to certify that Dimpal Rathi D/O Dhanraj Rathi is a student of B.Pharm VIII Semester, of this Institute submitted her Project Work Report entitled "Review of Pharmaceutical HIMALAYA WELLNESS - India's Booming Iterbal Healthcare Company" in the supervision of Dr. YOGESII VAISHNAV Associate Professor, Pharmaceutical Chemistry during academic session 2023-24.

I recommended the Project Work Report to be forwarded to the respective examiner for further evaluation.

FORWARDED BY

Prof. BHARTI AHIRWAR

(Head of Department)

DEPARTMENT OF PHARMACY

GGV BILASPUR (C.G.)

S. No.	Content	Page No.
1.	Introduction	1-2
2.	History of Himalaya	2-3
3.	Company Profile	3-6
4.	Mission	6
5.	Objectives of the study	6
6.	Brand identify	6
7.	Product Profile	6-8
8.	Operations	9
9.	Production	0.00
10.	Quality Assurance	9-11
11.	Research Methodology	11-13
12.	Growth of the Company	13-14
13.	Revenue of Himalaya as per FY-2016	15-17
14.	Key Growth Drivers of the Study	17
0.000.00		17-18
15.	Awards and Recognition	10
16.	Global Market	18
17.	Marketed Products of Himalaya	18
18.	Competitors	18-19
19.	Future Prospective of the Company	19-20
20.	Swot Analysis of the Himalaya Drug Company	20
21.	Overview Overview	20-21
22.	Pestel Analysis of Himalaya Herbals	21
23,	Suggetions Himalaya Herbals	21-22
24.	Conclusion	22-23
25.	References	23
	- 17.01011003	24.26

٨

PROJECT WORK

On

ICH GUIDELINES FOR PHARMACOVIGILANCE

Submitted For

Project Work

BACHELOR OF PHARMACY

Session - 2023-24



Hamilatos pr

Guided By:

Dr. Manoj Kumar

M. Pharm, PhD

Submitted By:

G Divya Murthy

B. Pharm VIII Sem

Roll No.- 20006018

Department of Pharmacy

Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)



Date:

DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)

(A Central university established by the Central Universities Act, 2009 no. 25 of 2009)

FORWARDING CERTIFICATE

This is to certify that G Divya Murthy D/O Mr. G Lakshmi Narayan Murthy is a student of B.Pharm VIII Semester of this department has submitted her Project Work Report entitled "ICH Guidelines for Pharmacovigilance" under the supervision of Dr. Manoj Kumar during academic session 2023 - 24.

I recommended the Project Work Report to be forwarded to the respective examiner for further evaluation.

Forwarded By

Prof. Bharti Ahirwar

(Head of department)

Department of Pharmacy

Index Page S. No. Contents No. INTRODUCTION ON PHARMACOVIGILANCE 1-2 1. 1 1.1 Objectives of Pharmacovigilance 1-2 1.2 Need of Pharmacovigilance 2 1.3 History of Pharmacovigilance 2-5 INTRODUCTION ON ICH 2. 3-4 2.1 Organization o ICH 4 2.2 Funding Members of ICH 4 2.3 Need of Harmonization 4 2.4 Objectives of ICH 5 2.5 Goals of ICH 5 2.6 ICH Guidelines (QSEM) 5-6 ICH GUIDELINES ON PHARMACOVIGILANCE 3. DEFINITIONS AND TERMINOLOGIES ASSOCIATED WITH CLINICAL 6-8 4. SAFETY 4.1 Standards for Expedited Reporting 7-8 4.2 Purpose of Expedited Reporting 8-10 INDIVIDUAL CASE \$TUDY REPORT (ICSR) 9 5. 5.1 Data Elements and Contents 9-10 10 5.2 Sources of ICSR 5.3 Submission of ICSR 11-12 PERIODIC SAFETY UPDATE REPORT (PSUR) 11 6. 11 6.1 Purpose of PSUR 11 6.2 Objective of PSUR 11-12 6.3 History of PSUR 12 6.4 Preparation of PSUR 12-14 6.5 Regulatory Guidelines POST APPROVAL EXPEDITED REPORTING 13-14 7.1 Good Case Mana rement Practices 15-20 7. PHARMACOVIGILANCE PLANNING 15 8.1 Scope of Pharmacovigilance Planning 15-20 8. 20-21 DEVELOPMENT SAFETY UPDATE REPORT (DSUR) 8.2 Classification 20-21 21 9. 9.1 Objective of DSUR 21 9.2 Scope of DSUR 21-23 9.3 Relation of DSUR to PSUR GOOD CLINICAL PRACTICES IN PHARMACOVIGILANCE 22 10. 22-23 10.1 Objectives 23 10.2 Principles of ICH-GCP 24 CONCLUSION 11. REFERENCES 12.

A

PROJECT REPORT ON

"ROLE OF CLINICAL TRIALS IN DRUG DEVELOPMENT IN PHARMACEUTICAL INDUSTRY"

Submitted for

Partial fulfilment of the Requirement for the Award of

Bachelor of Pharmacy



Hamil Stoolsy

2023-2024

SUPERVISED BY

DR. PRADEEP KUMAR SAMAL

M. PHARM, PHD

ASSISTANT PROFESSOR

SUBMITTED BY

GAURAV KUMAR

B. PHARM (8TH SEM)

ROLL NO. 20006019

ENROLL NO. GGV/20/06023

DEPARTMENT

OF

PHARMACY

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)



DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G)

(A Central University Established by the Central Universities Act, 2009 No. 25 of 2009)

FORWARDING CERTIFICATE

This is to certify that GAURAV KUMAR S/o VIRESH KUMAR a student of B. Pharm VIII Semester of this department has submitted his Practise School Report entitled "ROLE OF CLINICAL TRIALS IN DRUG DEVELOPMENT IN PHARMACEUTICAL INDUSTRY" in the supervision of DR. PRADEEP KUMAR SAMAL, ASSISTANT PROFESSOR during academic session 2023-24.

I recommended the Practice School to the respective examiner for evaluation.

DATE

3

3

9

FORWARDED BY
Dr. BHARATI AHIRWAR
HEAD OF DEPARTMENT
PHARMACY,
GGV, BILASPUR (C.G.)

S No.	CONTENTS	PAGE NO.
1	Introduction	1-2
2	Stages of drug discovery	3 - 8
3	Clinical trials	9 -10
4	Clinical trials protocols	10 - 11
5	Phases of clinical trials	12 – 15
	a) Phase 0	
	b) Phase 1	
	c) Phase 2	
	d) Phase 3	
6	Concept of blinding	16 - 17
7	FDA review on NDA	18
8	Phase 4 post marketing	19
	clinical trials	
9	Conclusion	20
10	References	21

A

PROJECT REPORT

ON

"PHARMACOVIGILANCE IN INDIA: PRESPECTIVES AND PROSPECTS"

Submitted For

Fulfilment Of The Requirement For The Degree Of

BACHELOR OF PHARMACY



Hamile Tostry

SESSION: 2023-24

SUPERVISED BY

DR. SHIVANI RAI PALIWAL

M. Pharm., PhD, Post Doc. Assistant Professor Department of Pharmacy GGU, Bilaspur (C.G.)

SUBMITTED BY

JITESH PRADHAN

B. Pharm VIII SEM Enroll No. – GGV/20/06029 Roll No. - 20006023

DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDAYALA, BILASPUR (C.G.)



DEPARTMENT OF PHARMACY GURU GHASIDAS UNIVERSITY, BILASPUR (C.G.)

(A Central University, Established Under the Central University, Ordinance, Na 3. Of 2009)

Tel: +91-7752-260027 (0): +91-8827989653 (Mob): Fax: +91-7752-260148

FORWARDING CERTIFICATE

This is to certify that Jitesh Pradhan S/O. Jagdish Pradhan student of B. Pharm VIII Sem in Department of Pharmacy has submitted his project work entitled "PHARMACOVIGILANCE IN INDIA: PRESPECTIVES AND PROSPECTS" with his truly and honesty observed inference during his project work. He has completed his project work under the supervision of Dr. Shivani Rai Paliwal (Assistant Professor). His work is original, satisfactory and is not submitted anywhere else for the award of any degree.

I recommended the Project Report to be forwarded to the respective examiners for evaluation.

PORWARDED BY

PROF. BHARTI AHIRWAR

Head of Department
Department of Pharmacy
GGV, Bilaspur (C. G.)

S.No.	Contents	Page No.
1.	Introduction	1-2
2.	Terms related to Pharmacovigilance	2
3.	History and Development of Pharmacovigilance	2-3
4.	Role of Pharmacovigilance	3
5.	Pharmacovigilance of herbal medicines	4
6.	Adverse drug reaction (ADR)	4-5
7.	Pharmacovigilance methods	5-6
8.	Pharmacovigilance: reporting and functioning	6-9
9.	Clinical trials in India	9-11
10.	Agencies involved for clinical research regulation in India	11-12
11.	Pharmacovigilance in India	12-13
12.	Pharmacovigilance programme of India	13-17
13.	Current scenario of pharmacovigilance	17-18
14.	The outcome and impact of current system	18-19
15.	Future prospective of pharmacovigilance in India	19-20
16.	Artificial intelligence in pharmacovigilance	20-22
17.	Conclusion	22
18.	References	23

A PROJECT WORK

ON

"NEW DRUG DISCOVERY AND DEVELOPMENT PROCESS"

Submitted for

Fulfilment of the requirement for the award of Bachelor of Pharmacy



Hamilton

DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA (A CENTRAL UNIVERSITY)

SESSION-2023-24

SUPERVISED BY
DR. VIVEKANANDA MANDAL
ASSISTANT PROFESSOR
DEPARTMENT OF PHARMACY
GGV, BILASPUR (C.G.)

SUBMITTED BY
KHAGESHWAR SAHU
B. PHARM. 8TH SEM.
ROLL NO. – 20006024
ENROLL. NO. – GGV/20/06030



DEPARTMENT OF PHARMACY GURU GHASIDAS UNIVERSITY, BILASPUR, C.G

(A central university, Established by the Central University Act -2009 no.25 of 2009)

Tel.No.-07752-260027, Fax no-07752- 260148

FORWARDING CERTIFICATE

This is to certify that KHAGESHWAR SAHU S/O. RAMLAL SAHU is a student of B. pharmacy final year (8th semester) in Department of pharmacy has submitted his project work entitled "NEW DRUG DISCOVERY AND DEVELOPMENT PROCESS" with his truly and honestly observed inference during his project work. He was completed his project work under the supervision of DR. VIVEKANANDA MANDAL (Assistant Professor).

I hereby forwarded his project work for pharmacy practice during the academic session 2023-24.

HOD

DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA KONI BILASPUR ,C.G.

CONTENT

S.No	Topic	Page No
1	Introduction.	1
2	Stages of Drug Discovery and Development process.	1-6
3	Pre-clinical Studies.	7-11
4	Clinical Research.	12-17
5	New Drug Application.	18-19
6.	Regulatory Authorities and Agencies.	20-26
7	Refrences.	27

A Project Work on

Toxicity of Cosmetics

Submitted in Partial fulfilment of the requirement of the Award of the degree

Bachelor of pharmacy



Hamils 10 My

Session 2023-24

Submitted by

Krishna Kumar

B. Pharm (8th Semester)

Roll No: 20006025

Enrollment No.-GGV/20/06031

Supervised by

Dr. Partha Pratim Roy

(Asstt.Professor)

Department of Pharmacy,

Guru Ghasidas Vishwavidyalaya

DEPARTMENT OF PHARMACY,
GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)



DEPARTMENT OF PHARMACY

GURU GHASIDAS UNIVERSITY, BILASPUR, C.G.

(A Central University, Established by the Central University Act 2009

Tell. No. - 07752-260027, Fax No. - 07752-260148

FORWARDING CERTIFICATE

This is to certify that Krishna Kumar S/O Ashok Kumar is a student of B. Pharmacy Final Year (8th semester) in Department of Pharmacy has submitted his project work entitled "Toxicity of Cosmetics" with his truly and honestly observed inference during his project work. He has completed his project work under the supervision of Dr. Partha Pratim Roy (Asstt.Professor, Division of Pharmaceutical Chemistry) Department of Pharmacy.

I hereby forwarded his project work for pharmacy practice during the academic session 2023-24.

Forwarded by

Dr. Bharti Ahirwar (Professor and Head of Department)

			PAGE NO.
S.NO.		CONTENTS	
01		Introduction	1
02		History	1-2
03		Classification	2-5
	The State of the S	Toxicity	5-16
04			16-21
05	Purpose of Guid	elines for Risk Assessment of Cosmetic Product	21-24
06		Guidelines	
07	with the profit	Conclusions	25
, 11		References	26-29
08	ingo Carlostic a	A STATE OF THE PARTY OF THE STATE OF THE STA	724 5
	The Prince of the Paris		

DEPARTMENT OF PHARMACY,

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)

(A Central University Established by the Central University Act, 2009 - No. 25 of 2009)



A Project Report

Hamiltony

on

An Overview of Sickle Cell Anemia, Prescribed Drugs and the Associated Adverse Drug Reactions

Submitted for

Partial fulfilment of the requirement for the Award of the Degree of BACHELOR OF PHARMACY.

Session: 2023 - 24

SUPERVISED BY

DR. K. KESAVAN

(M. Pharm, Ph.D.)

Assistant Professor

SUBMITTED BY

MAIKALA MUSKAN RAO

B. Pharm. - 8th semester

Roll No.- 20006026

Enroll. No.- GGV/20/06032



DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)

(A Central University, Established by the Central University Act, 2009 - No. 25 of 2009)

Tel. No. - 07752-260027, Fax No. - 07752-260148

FORWARDING CERTIFICATE

This is to certify that MAIKALA MUSKAN RAO D/O M.V. NAGSAI is a student of B. Pharm.-8th semester of this institute has submitted her Project Report entitled An Overview of Sickle Cell Anemia, Prescribed Drugs and the Associated Adverse Drug Reactions for the partial fulfilment of the requirement for the Degree of Bachelor of Pharmacy under the supervision of DR. K. KESAVAN (Assistant Professor) during the academic session 2023-24.

I hereby recommend the Project Report to be forwarded to the respective examiner for further evaluation.

Forwarded By

DR. BHARTI AHIRWAR

Head of Department

Department of Pharmacy

GGV, Bilaspur (C.G.)

S NO.	TOPIC	PAGE NO.
1.	INTRODUCTION	01 – 02
2.	HISTORY	03
3.	ETIOLOGY	04
4.	EPIDEMIOLOGY	05 – 06
5.	PATHOPHYSIOLOGY	07 – 08
6.	SIGNS AND SYMPTOMS	09 – 11
7.	DIAGNOSIS	12
8.	SICKLE CELL DISEASE IN CHHATTISGARH	13
9.	MANAGEMENT OF SICKLE CELL ANEMIA	14 – 15
10.	PHARMACOVIGILANCE	16 – 17
11.	MEDICATIONS FOR SICKLE CELL ANEMIA	18 – 21
12.	ADRS ASSOCIATED WITH THE PRESCRIBED DRUGS	22
13.	CONCLUSION	27
14.	REFERENCES	28 – 29

A PROJECT REPORT ON

IN-Sílico Drug Discovery and Pharmaceutical Marketing

Submitted for

Partial fulfilment of the requirement for the Award of
BACHELOR OF PHARMACY



Hamil Story

Session-2023-24

SUPERVISED BY

Dr. Nishant Sudhir Jain Asst. Professor (M.Pharm, PhD) Pharmacology

SUBMITTED BY

1. MEGHA ACHARYA
B. PHARM. (8th sem)
ROLL No – 20006028
Enr. No. GGV/20/06034

2. SHILPI CHAKRABORTY B. PHARM. (8th sem) ROLL No – 20006059 Enr. No. GGV/20/06067

DEPARTMENT OF PHARMACY,

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)



DEPARTMENT OF PHARMACY

GURU GHASIDAS UNIVERSITY, BILASPUR C.G.

(A central university, Established by the Central University Act -2009 no.25 of 2009)
Tel.No.-07752-260027, Fax no-07752- 260148

FORWARDING CERTIFICATE

This is to certify that MS. MEGHA ACHARYA D/o SHARAD ACHARYA and MS. SHILPI CHAKRABORTY D/o RAVINDRA KUMAR CHAKRABORTY student of B. Pharm. 8th Semester, Department of Pharmacy has submitted their project entitled "In-Silico Drug Discovery and Pharmaceutical Marketing" for the partial fulfilment of the requirement for the Degree of Bachelor of Pharmacy. They have completed their project under the supervision of Dr. Nishant Sudhir Jain (Asst. Prof.). Their work is original, satisfactory and is not submitted anywhere else for the award of any degree.

the state of the s

Dr. BHARTI AHIRWAR HOD

In Silico drug discovery		
1.	Abbreviations and introduction	1-2
2.	Terminology	2-3
3.	How to design a drug?	3
4.	Stages of drug discovery	4
5.	Approaches of drug discovery	5-9
6.	Factors affecting drug discovery	9-10
7.	Siginificance of In silico drug discovery process	10
8.	Bioinformatics in computer added drug designing	10-15
9.	Pharmacovigilance in drug discovery	16-17
10.	Conclusion	18

e-marketing of pharmaceuticals		
1.	Introduction	19
2.	Pharmaceutical marketing	19-20
3.	Traditional pharmaceutical marketing	20-23
4.	Digitalized pharmaceutical marketing in 21st century	24-26
5.	e-selling & e-marketing	26-27
6.	Current scenario & challenges	27-29
7.	Strategies that can be implemented	29-30
8.	Digital platforms for pharma marketing	31-36
9.	Application	37-38
10.	Advantages & disadvantages	38-40
11.	Conclusion	41
12.	References	42-45

DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)

(A Central university established by the Central University Act, 2009 NO.25 of 2009)

A PROJECT REPORT

ON

HEPATOPROTECTIVE AGENT

Submitted For

Fulfilment of the Requirement for the Degree of

Bachelor of Pharmacy

Session: 2023-24



SUPERVISED BY

Dr. Akhlesh K Jain M. Pharma, Ph-D Asstt. Professor

SUBMITTED BY

Monika Kumari

B. Pharm VIII Sem Enroll No. – GGV/20/06036 Roll No. - 20006029



DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)

(A Central University, Established Under the Central University, Ordinance, Na 3. Of 2009)
Tel: +91-7752-260027 (0): +91-8827989653 (Mob): Fax: +91-7752-260148

FORWARDING CERTIFICATE

This is to certify that Miss Monika Kumari D/o. Mr. Ashok Kumar Sahu student of B. Pharm VIII Sem in Department of Pharmacy has submitted her project work entitled "HEPATOPROTECTIVE AGENT" with her truly and honesty observed inference during her project work. She has completed her project work under the supervision of Dr.Akhlesh K Jain(Assistant Professor).

I hereby forward her project work during the academic session 2023-24.

FORWARDED BY

Dr. Bharti Ahirwar

(HOD)

Department of Pharmacy GGV, Bilaspur (C. G.)

S.	Contents	Page No.
No.		
1.	Introduction	6-8
2.	Natural product used in hepatoprotective agent	8-20
3.	Hepatoprotective model for animal study	21
4.	Hepatotoxic agent	21-23
5.	Hepatotoxicity	23-24
6.	factor of hepatotoxicity Risk	25-26
7.	Discussion	26-27
8.	conclusion	28
9.	Reference	29-32

A

PROJECT REPORT

ON

"FORMULATION DEVELOPMENT FOR AIR FRESHENER"

SUBMITTED FOR

PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE AWARD OF DEGREE

BACHELOR OF PHARMACY



SESSION: 2023-24

SUPERVISED BY:

PROF. MAHAVIR H GHANTE

[ASSISTANT PROFESSOR]

SUBMITTED BY:

MS. MONIKA RAJPUT

B.PHARM 8TH SEM

ROLL NO- 20006030

ENROLL NO- GGV/20/06037

DEPARTMENT OF PHARMACY
GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G)

(A Central University, Established by the Central University Act-2009 no- 25 of 2009)



DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR, C.G.

(A Central University, Established by the Central University Act -2009 no.25 of 2009)

Tel.No.-07752-260027, Fax no-07752- 260148

FORWARDING CERTIFICATE

This is to certify that MONIKA FAJPUT D/O DALLA SINGH RAJPUT is a student of B.Pharmacy Final Year (8th semester) in Department of pharmacy, Guru Ghasidas Vishwavidyalaya, Bilaspur has submitted her project work entitled "Formulation Development For Air Freshener" with her truly and honestly observed inference during her project work. She has completed her project work under the supervision of PROF. MAHAVIR H GHANTE.

I hereby forward this project.

FORWARDED BY:-

PROF.BHARTI AHIRWAR

(HEAD OF THE DEPARTMENT)

INDEX

S.NO.	Emory 's as p'or	CONTENT	PAGE NO.
1	INTRODUCTION	The second of the second	1-2
2	TYPES OF AIR FRESI	INER	2-7
3	ADVANTAGES AND	DISADVANTAGES	9-10
4	AIR FRESHNER AVA	ILABLE IN MARKET	10-11
5	MARKET SIZE	and the Company of the State of the Company of the	12
6	COMPOSITION AND		13-16
7	FORMULATION AND	DEVELOPMENT	17
8	EVALUATION PARA	METERS	18
9	OBSERVATION AND	RESULT	19
10	CONCLUSION		19

and the second of the second o

generally by the mineral content of the content of

The second control of the second of the seco

The property of the property o

March, pending the below that state of the extremental

a wilder the property and a bright device on the fire of

A

PROJECT REPORT

ON

"GALAXOSMITHKLINE: A Leading Pharmaceutical Company-It's Profile and Information of leading Products"

Submitted for

Partial fulfilment of the Requirement for the Award of

Bachelor of Pharmacy



Hamiltony

2023-2024

SUPERVISED BY DR. ACHAL MISHRA

ASST. PROFESSOR

1

1

SUBMITTED BY

MOUMITA PAUL

B.PHARM(VIII SEM)

ROLL NO. 20006031

<u>DEPARTMENT OF PHARMACY</u> GURU GHASIDAS VISHWAVIDYALA, BILASPUR(C.G.)

DEPARTMENT OF PHARMACY, GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR(C.G.)

Tel. No. 07752-260027; Fax No. 07752-260148

FORWARDING CERTIFICATE

3

3

1

This is to certify that MOUMITA PAUL D/O SUJIT KUMAR PAUL is a student of B. Pharmacy Final year (VIII sem.), in Department of Pharmacy, Guru Ghasidas Vishwavidyalaya Bilaspur has completed her Project Work on "GALAXOSMITHKLINE: A Leading Pharmaceutical Company- It's Profile and Information of leading Products" under guidance of DR. ACHAL MISHRA during academic session 2023-2024.

I recommended the Project Report to be forwarded to the respective examiners for evaluation.

PROF. DR. BHARTI AHIRWAR

Head of the Department

Department of Pharmacy

Guru Ghasidas Vishwavidyalaya, Bilaspur

Head

Department of Pharmacy
Cusu Ghasidas Vishwavidyalaya
(A Central University)
Pilaspur (C.G.)

Abstract

D

This abstract encapsulates the comprehensive landscape of GlaxoSmithKline (GSK), highlighting its historical trajectory, robust performance in the healthcare industry, diverse portfolio of healthcare products, global market presence, leading product Advair/Seretide, and the strategic framework underpinning its success. Since its inception through the merger of Glaxo Wellcome and SmithKline Beecham in 2000, GSK has emerged as a stalwart in the pharmaceutical realm, showcasing resilience and adaptability in fluctuating market conditions. With a rich legacy of innovation, GSK's portfolio encompasses pharmaceuticals, vaccines, and consumer healthcare, addressing a spectrum of therapeutic needs. Its strategic alliances and collaborations have solidified its market presence, both in developed and emerging markets. Notably, Advair/Seretide stands as a flagship product, attributed to GSK's unwavering commitment to innovation, rigorous clinical trials, and targeted marketing strategies. This abstract underscores GSK's multifaceted approach to sustaining competitiveness and meeting evolving healthcare demands.

DEPARTMENT OF PHARMACY GURU GHASIDAS UNIVERSITY, BILASPUR (C.G.)

(A Central university established by the Central University Act, 2009 NO.25 of 2009)

A PROJECT REPORT

ON

"HERBAL NUTRACEUTICALS"

Submitted For

Partial Fulfilment of The Requirement for The Degree Of

Bachelor of Pharmacy

Session: 2023-24



Hamil fortry

SUPERVISED BY

Dr. SHEKHAR VERMA Professor (M. Pharm, Ph.D)

SUBMITTED BY

MUKESH K. KUMAWAT
B. Pharm VIII Sem
Enroll No. – GGV/20/06039
Roll No. – 20006032



DEPARTMENT OF PHARMACY GURU GHASIDAS UNIVERSITY, BILASPUR (C.G.)

(A Central University, Established Under the Central University, Ordinance, Na 3. Of 2009) Tel: +91-7752-260027 (0): +91-8827989653 (Mob): Fax: +91-7752-260148

FORWARDING CERTIFICATE

This is to certify that Mr. Mukesh Kumar Kumawat, S/o. Mr. Birdhi Lal Kumawat, student of B. Pharm VIII Sem in Department of Pharmacy has submitted his project work entitled "HERBAL NUTRACEUTICALS" for the project with his truly and honesty observed inference during his project work. He has completed his project work under the supervision of Dr. SHEKHAR VERMA (Professor). His work is original, satisfactory and is not submitted anywhere else for the award of any degree.

I hereby forward his project work for the practice school during the academic session 2023-24.

FORWARDED BY

Dr. Bharti Ahirwar

Head of Department

Department of Pharmacy

GGV, Bilaspur (C. G.)

Department of Pharmacy
Guru Ghasidas Vishwavidyalaya
(A Central University)

oliaspur (O.C.)

INDEX

S.No.	Contents	Page No.
1.	INTRODUCTION	1-2
2.	SOURCE OF HERBAL NUTRACEUTICALS	3-23
3.	HERBAL NUTRACEUTICAL USED IN VARIOUS DISEASE	24-30
4.	NEGATIVE IMPACT OF HERBAL NUTRACEUTICAL	31-33
5.	MARKET TRENDS	34-39
6.	CONCLUSION	40
7.	REFERENCES	41

3

3

3

)

)

)

A PROJECT WORK

ON

"NEW DRUG DISCOVERY AND DEVELOPMENT PROCESS"

Submitted for

fulfilment of the requirement for the Award of Bachelor of Pharmacy



1/ Solle Jung /

DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA (A CENTRAL UNIVERSITY)

SESSION-2023-24

SUPERVISED BY
DR. ACHALMISHRA
ASSISTANT PROFESSOR
DEPARTMENT OF PHARMACY
GGV, BILASPUR (C.G.)

SUBMITTED BY
NAVEEN KUSHARO
B. PHARM. 8TH SEM.
ROLL NO. – 20006033
ENROLL. NO. – GGV/20/06040



DEPARTMENT OF PHARMACY

GURU GHASIDAS UNIVERSITY, BILASPUR, C.G.

(A central university, Established by the Central University Act -2009 no.25 of 2009)

Tel.No.-07752-260027, Fax no-07752- 260148

FORWARDING CERTIFICATE

This is to certify that NAVEEN KUSHARO S/O. SURESH KUMAR KUSHARO is a student of B. pharmacy final year (8th semester) in Department of pharmacy has submitted his project work entitled "NEW DRUG DISCOVERY AND DEVELOPMENT PROCESS" with his truly and honestly observed inference during his project work. He was completed his project work under the supervision of DR. ACHAL MISHRA (Assistant Professor).

I hereby forwarded his project work for pharmacy practice during the academic session 2023-24

HOD

PROF. BHARTI AHIRWAR DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA KONI BILASPUR, C.G.

Head
Department of Pharmacy
Ghasidas Vishwavidyalaya
(A Gentral University)

NEW DRUG DISCOVERY AND DEVELOPMENT PROCESS

ABSTRACT

Drug discovery is the process aimed at identifying therapeutically useful compounds for the cure and treatment of disease. This process includes candidate identification, synthesis, characterization, validation, optimization, screening, and testing of therapeutic efficacy. Once these studies demonstrate the compound's importance, the drug development process begins prior to clinical trials. The drug development process must go through several stages to produce a drug that is safe, effective and meets all regulatory requirements. A common theme of our articles is that the process is so lengthy, complex and expensive that many biological targets need to be considered for any new drug that will ultimately be approved for clinical use. New research tools may need to be evaluated to explore new targets. The journey from initial discovery to marketed drug is a long and arduous task. From discovery to approved drug takes about 12 to 15 years and requires an investment of about \$1 billion. On average, one million molecules are screened, but he only one will be investigated in late-stage clinical trials and ultimately delivered to patients. This article provides a brief overview of the processes involved in drug discovery and development.

Keywords: Clinical Trials, Lead optimization, New Drug Application, Preclinical research.

A PROJECT WORK ON

"REGULATORY GUIDELINES & STUDY FOR MONOCLONAL ANTIBIODIES"

Submitted for

Partial fulfillment of the requirement for the Award of Bachelor of Pharmacy



DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA (A CENTRAL UNIVERSITY)

SESSION - 2023-24

SUPERVISED BY

DR. SUMATHI POLEBOINA ASSISTANT PROFESSOR DEPARTMENT OF PHARMCY, GGV KONI, BILASPUR, (C.G.)

SUBMITTED BY

NIKHIL KUMAR LAHRE
B. PHARM 8TH SEMESTER
ROLL NO. – 20006036
ENROLLMENT NO. - GGV/20/06043



DEPARTMENT OF PHARMACY GURU GHASIDAS UNIVERSITY, BILASPUR, C.G.

(A central university, Established by the Central University Act -2009 no.25 of 2009)

Tel.No.-07752-260027, Fax no-07752- 260148

CERTIFICATE

This is to certify that NIKHIL KUMAR LAHRE, S/O. SANI KUMAR LAHRE is a student of B. Pharmacy final year (8th semester) in Department of Pharmacy has Submitted his project work entitled "REGULATORY GUIDELINES & STUDY FOR MONOCLONAL ANTIBIODIES" for the project work with his truly and honestly observed inference during his project work. He has completed his project work under my supervision.

I hereby forwarded his project work for project work of the academic session 2023-24.

SUPERVISED BY

DR. SUMATHI POLEBOINA ASSISTANT PROFESSOR DEPARTMENT OF PHARMACY ,GGV, KONI BILASPUR, (C.G.)

Head

Department of Pharmacy
Guru Ghasidas Vishwavidyalaya
(A Central University)
Bilaspur (C.G.)

INDEX

SR. NO.	NAME OF THE CONTENT	PAGE NO.
1.	INTRODUCTION	1-3
2.	TYPES	4-5
3.	MONOCLONAL ANTIBIODIES PRODUCTION	6-7
4.	EXAMPLE	8-10
5.	THERAPUTIC APPLICATION	11-17
6,	REGULATORY GUIDELINES FOR MONOCLONAL ANTIBIODIES: • USFDA • EUROPEAN UNION • WHO • CANADA • INDIA	18-27
7.	REGULATORY GUIDELINES FOR OTHER COUNTRIES	28
8.	REFERENCES	29-30

A

PROJECT

ON

"Quality Control of Herbal Products Used as Anti-inflammatory Agent"

Submitted for

Partial fulltime of the requirement for the award of degree of

BACHELOR OF PHARMACY

Session 2023-2024



Hamilton My

Supervised by:

Dr. Meenakshi Jaiswal

(Assistant Professor)

GGV Bilaspur (C.G.)

Submitted by:

Om kumar Mishra

B.Pharma. 8th Sem.

Roll No.: 20006037

Enrolment No.: GGV/20/06044



Department Of Pharmacy

Guru Ghasidas Vishwavidyalaya, Bilaspur(C.G.)

(A central University Established by the Central University Act 2009 No. 25 of 2009)

Tel.:07752-260027 (O); 98271-50112 (R), fax; 07752-260148

FORWARDING CERTIFICATE

This is to certify that Om kumar Mishra S/O Mr. Indeshwar prasad Mishra is a student of B. Pharm. 8th semester in Department of Pharmacy, Guru Ghasidas Vishwavidyalaya, Bilaspur has submitted his project entitled "Quality Control of Herbal Products Used as Anti-inflammatory Agent" for the partial fulfilment of the requirement for the Degree of Bachelor of Pharmacy. He has submitted his project under the supervision of Dr. Meenakshi Jaiswal (Assistant Professor). His work is Original, Satisfactory and is not submitted anywhere else for the award of any degree.

I here recommended forwarding his project for the Final-Year project work in B. Pharmacy during the academic session 2023-2024.

HOD Head

Department of Pharmacy
Turu Ghasidas Vishwavidyałaya
(A Central University)
Bilszour (C.G.)

INDEX

CONTENTS	PAGE NO.
Introduction	01
Methods of quality control	02
Organoleptic methods	02
Microscopic methods	03-05
Chemical methods	05-06
Analytical methods	06-07
Physical methods	07-09
Biological methods	10-17
Conclusion	17
References	18-20

A PROJECT WORK ON

"ADVERSE DRUG REACTION REPORTING"

Submitted for

Partial fulfilment of the requirement for the Award of Bachelor of Pharmacy



Hamil 1/08/24

DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA (A CENTRAL UNIVERSITY)

SESSION - 2023-24

SUPERVISED BY

DR. DILIPKUMAR PAL
PROFESSOR PHARMACEUTICAL CHEMISTRY
DEPARTMENT OF PHARMCY, GGV
(A CENTRAL UNIVERSITY)
KONI, BILASPUR, (C.G.)

SUBMITTED BY

POSHAN PRASAD SAHU
B. PHARM 8TH SEMESTER
ROLL NO. – 20006038
ENROLLMENT NO. - GGV/20/06045



DEPARTMENT OF PHARMACY GURU GHASIDAS UNIVERSITY, BILASPUR, C.G.

A central university, Established by the Central University Act -2009 no.25 of 2009)

Tel.No.-07752-260027, Fax no-07752- 260148

FORWARDING CERTIFICATE

This is to certify that POSHAN PRASAD SAHU, S/O. RAMJI SAHU is a student of B. Pharmacy final year (8th semester) in Department of Pharmacy has Submitted his project work entitled "ADVERSE DRUG REACTION REPORTING" for the Project Workwith his truly and honestly observed inference during his project work. He has completed his project work under the supervision of PROF. DILIPKUMARPAL (Professor of Pharmaceutical Chemistry).

I hereby forward his project work for the academic session 2023-24.

PROF. BHARTI AHIRWAR
HEAD OF DEPARTMENT
DEPARTMENT OF PHARMACY
GURU GHASIDAS VISHWAVIDYALAYA
(A CENTRAL UNIVERSITY)
KONI BILASPUR, (C.G.) 495009

Department of Pharmacy
Suru Ghasidas Vishwavidyalaya
(A Central University)
Bilaspur (C.G.)

INDEX

SR. NO.	NAME OF THE CONTENT	PAGE NO.	
1,	INTRODUCTION	1	
2.	BACKGROUND AND HISTORY OF ADR	1-3	
3.	 CLASSIFICATION OF ADR Types Mechanism of ADR Factors affecting ADR Prevention of ADR Management of ADR 	3-10	
4.	ADR REPORTING FORM	10-13	
5.	PHARMACOVIGILANCE • Need of pharmacovigilance • Importance of pharmacovigilance • Aims of pharmacovigilance • Process of pharmacovigilance	13-15	
6.	SURVEY SAMPLING QUESTIONS	16-19	
7	REFERENCES	20	

A

Project Report on

"Preparation of Survey report on selling of Over the Counter (OTC) drugs on online pharmacies & finding whether they require prescription or not."

FOR THE AWARD OF

BACHELOR OF PHARMACY

Session 2023-2024



Hamile Tostry

Supervised By:

Dr. Ravi Shankar Pandey

(M.Pharm, PhD)

Professor

Submitted By:

PRAGYA TIWARI

B. pharm 8th semester Roll No.- 20006039

FORWARDING CERTIFICATE

This is to certify that PRAGYA TIWARI has carried out this project work in the Department of Pharmacy, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur (C.G.) on the topic "Preparation of Survey report on selling of Over the Counter (OTC) drugs on online pharmacies & finding whether they require prescription or not."

This project is submitted for the partial fulfillment of requirements for the degree of Bachelor of Pharmacy. She has submitted her project under the supervision of Dr. RAVI SHANKAR PANDEY (Professor). Her work is satisfactory and is not submitted anywhere else for the award of any degree.

I wish every success in her life.

Date:

23

20

2

2

3

3

-

-

23

ووددوووووو

FORWARDED BY: Head

Dr. Mrs. Bharti Abirwarent of Pharmacy Professor Ghasidas Vishwavidyalaya

And Head of Department (C.G.)

Department Of Pharmacy,

Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

INDEX

- Introduction of Drugs.
- Types of Medication.
- Drug: Its Use & Abuse.
- What happens to brain when a person takes drugs?
- Can drug addiction be cured or prevented?
- Introduction to Prescription Drugs.
- Introduction to OTC Drugs.
- Role of Online pharmacy in today's era.
- Advantages & Disadvantages of online pharmacy.
- Market of Online pharmacy in India.
- Tabular data presenting the survey report done on Over the Counter drugs at three online pharmacies that are Apollo 247, Tata 1mg, Netmeds.
- Conclusion.
- · References.

A PROJECT WORK ON

"Formulation Development Of Roll-on Balm For Pain Management"

Submitted for

Partial Fulfilment of the requirements for the Award of Degree of Bachelor of Pharmacy



Monn 21102/201

SESSION- 2023-24

SUPERVISED BU

Dr. Dinesh K. Mishra

Prof. (M.Pharm, PhD)

SUBMITTED BY

Pratibha Nair

B.PHARM(8th SEM)

Roll no.- 20006040

Enrollment no.- GGV/20/06047

DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDYALAYA BILASPUR, C.G.

(A CENTRAL UNIVERSITY)



DEPARTMENT OF PHARMACY

GURU GHASIDAS UNIVERSITY, BILASPUR, C.G.

(A central university, Established by the Central University Act -2009 no.25 of 2009)

Tel.No.-07752-260027, Fax no-07752- 260148

FORWARDING CERTIFICATE

This is to certify that **Pratibha Nair** D/o Rajesh Kumar is a student of B. pharmacy final year (8th semester) in Department of pharmacy has submitted her project work entitled "Formulation Development Of Roll-on Balm For Pain Management" for the pharmacy practice with her truly and honestly observed inference during her project work. She has completed her project work under the supervision of **Dr. Dinesh K. Mishra**.

I hereby forward her project work for pharmacy practice during the academic session 2023-24.

JORNIARDED BY:-

Dr. Bharti Ahirwar

(HEAD OF THE DEPARTMENT)

Head
Department of Pharmacy
Guru Ghasidas Vishwavidyelaya
(A Central University)
Bilaspur (C.C.)

2

CONTENT

- INTRODUCTION
- TYPES OF ROLL-ON
- PAIN RELIEVING ROLL-ON AVAILABLE IN THE MARKET
- COMPOSITION AND ITS USES
- CHEMICAL STRUCTURE OF COMPOUNDS
- MOLECULAR DOCKING OF ACTIVE INGREDIENTS
- FORMULATION AND DEVELOPMENT
- EVALUATION
- OBSERVATION AND RESULT
- STANDARD VERSUS EXPERIMENTAL
- CONCLUSION
- REFERENCE

A

PROJECT REPORT

ON

"Chemistry and Medicinal Importance of Imidazole"

Submitted for

Partial fulfilment of the requirement for the Award of the degree

Bachelor of Pharmacy



Hamiloto Ton

Session-2023-24

SUBMITTED BY-

PRATIKSHYA PANDA

ROLL NO.-20006041

B. PHARM (8TH semester)

Enrollment' No.-GGV/20/06048

SUPERVISED BY-

Dr. JAGADISH SINGH

Professor

Division of Pharmaceutical chemistry

Department of Pharmacy

DEPARTMENT OF PHARMACY,

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)



DEPARTMENT OF PHARMACY GURU GHASIDAS UNIVERSITY, BILASPUR, C.G.

(A central university, Established by the Central vishwavidyalaya Act -2009 no.25 of 2009)

Tel.No.-07752-260027, Fax no-07752-260148

FOR WARDING CERTIFICATE

This is to certify that PRATIKSHY A PANDA. D/O. PRAKASH KUMAR PANDA is a student of B. pharmacy final year (8th semester) at the Department of Pharmacy has Submitted her project work entitled "Chemistry and Medicinal Importance of Imidazole" for the Pharmacy Practice with her truly and honestly observed inference during her project work. She has completed her project work under the supervision of Dr. JAGADISH SINGH (Professor, Division of Pharmaceutical Chemistry).

I hereby forwarded her project work for the Pharmacy Practice during the Academic Session 2023-24.

Forwarded by-

Dr. Bharti Ahirwar

Head of the Department

Department of Pharmacy Head

Department of Pharmacy
Buru Ghasidas Vishwavidyalaya
(A Central University)
Bilaspur (C.G.)

Sr No.	CONTENTS
1)	Introduction of Imidazole
2)	Brief review on imidazole
3)	History of Imidazole
4)	Physical properties of Imidazole
5)	Chemical properties of Imidazole (a)Halogenation (b)Nitration (c)Sulphonation
6)	Medicinal Importance of Imidazole (a)Imidazole as Anthelmintics (b)Imidazole as Anti-inflammatory agents (c)Imidazole as Anti-fungal agents (d)Imidazole as Anti-cancer agents (e)Imidazole as Anti-viral agents (f)Imidazole as Anti-depressant agents
7)	General methods of preparation
8)	Future direction of Imidazole
9)	Mechanism of action
(0)	Conclusion

[6]

A PROJECT REPORT ON

"Understanding Cancer: Mechanisms, Drug Resistance, and Therapeutic

Strategies Targeting CDKs"

Submitted for

Fulfilment of the Requirement for the Award of
Bachelor of Pharmacy



Hamiltostry

2023-2024

SUPERVISED BY

DR. HARISH RAJAK

ASSOCIATE PROFESSOR

SUBMITTED BY

PRIYESH EKKA

B.PHARM (8th SEM)

Roll No. 20006042

ENROLL.NO. GGV/20/06049

DEPARTMENT OF PHARMACY
GURU GHASIDAS VISHWAVIDYALA, BILASPUR (C.G.)

DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)

Tel. No. 07752-260027; Fax No. 07752-260148

FORWARDING CERTIFICATE

This is to certify that Priyesh Ekka S/O Ajit Kumar Ekka is a student of B. Pharmacy Final year (8th sem.), in Department of Pharmacy, Guru Ghasidas Vishwavidyalaya, Bilaspur has completed his Project Work on "Understanding Cancer: Mechanisms, Drug Resistance, and Therapeutic Strategies Targeting CDKs" under guidance of Dr. Harish Rajak (Associate professor) during academic session 2023-2024.

I recommended the project report to be forwarded to the respective examiners for further evaluation.

FORWARDED BY

PROF. BHARTI AHIRWAR

Head of the Department

Department of Pharmacy

GGV (C.G.)

INDEX

s.no	CONTENTS	PAGE NO.
01	Introduction	1
02	Cause of cancer and types	2-3
03	Sign and symptoms and diagnosis	4-8
04	Types of cancer treatment	8-9
07	Drug resistance in cancer	9-12
08	Cyclin dependant kinases	13-17
09	CIDK mechanism	18-19
10	CDKS in cancer cells	19-20
11	CDK classification	20-27
12	Drugs in market	28-31
13	Literature review	32-33
14	Conclusion	33
15	References	34-35

A PROJECT ON APPLICATION OF VARIOUS CHROMATOGRAPHIC TECHNIQUES IN STANDARDIZATION OF HERBAL PRODUCTS

Bachelor of Pharmacy

For Session 2023-24

(Submitted for the Fulfillment of requirements for Bachelor of Pharmacy)



Hamilotory

Department of Pharmacy
School of Natural Resource
Guru Ghasidas Vishwavidyalaya Bilaspur (C.G.)

Supervisior
Dr. Neeli Rose Beck
(M.Pharm, Ph.D)

Prepared by Rahul Gopal Roll No--20006044 Class B. Pharm 8th Sem.

DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDYALAYA BILASPUR (C.G.)

(A central university established under central universities act 2009 no. 25 of 2009) telephone no. - 07752-260027 and Fax no.-07752-260148

FORWARDING CERTIFICATE

This is to certify that Mr.Rahul Gopal S/o of Shri Kamlesh Gopal is a student of B.Pharm. 8th semester in the Department of Pharmacy, Guru Ghasidas Vishwavidyalaya, Bilaspur has submitted his project report entitled "Application of various chromatographic techniques in standardization of herbal products" for the fulfillment of requirement for Bachelor of Pharmacy. He has submitted his project under the supervision of Dr. Neeli Rose Beck (Associate Professor). His work is original, satisfactory, and not submitted anywhere else).

This is certifying that the above statement made by the candidate is to correct to the best of my knowledge.

I recommended the project Report to be forwarded to the respective examiner for further evaluation during the academic session 2023-2024.

Date:

Place: Bilaspur

Forwarder By

Prof. Bharti Ahirwar (Head of Department)

Department of Pharmacy

Guru Ghasidas Vishwavidyalaya

Head

Dopartment of Pharmacy
Gurn Ghasidas Vishwavidyalaya
(A Contral University)
Bilaspur (C.G.)

CONTENTS

SR.NO.	TOPIC	PAGE NO.
1	INTRODUCTION	1
2	HERBAL DRUG STANDARDIZATION	1 - 2
3	HISTORY	2-4
4	TERMS	4 - 7
5	TYPES OF CHROMATOGRAPHY	7-9
6	COLUMN CHROMATOGRAPHY	9 - 16
7	THIN LAYER CHROMATOGRAPHY	16 - 24
8	HPTLC	25 - 26
9	HPLC	27 - 28
10	GAS CHROMATOGRAPHY	29 - 30
11	CONCLUSION	30
12	REFERENÇES	31

PROJECT REPORT

"Research guidelines for evaluating the safety and efficacy of herbal medicines: An overview "

Submitted For

Partial fulfillment of the Requirement for the Award of BACHELOR OF PHARMACY



Hamilotostry

Session 2023-24

SUPERVISED BY

Dr.S. K LANJHIYANA

M.Pharm.PhD

Associate professor

SUBMITTED BY

Rahul Kumar Sahu

B. Pharm VIII Sem.

Roll no. 20006045



DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDYALAYA , BILASPUR (C.G.)

(A Central university established by the Central Universities Act , 2009 no. 25 of 2009)

FORWARDING CERTIFICATE

This is to certify that RAHUL KUMAR SAHU S/O Mr.OMPRAKASH SAHU is a student of B.Pharm. VIII Semester, of this Institute has submitted his Project Report entitled "Research guidelines for evaluating the safety and efficacy of herbal medicines: An overview" under the supervision of Dr.S.K. Lanjhiyana during academic session 2023 -24

I recommended the Project Report to be forwarded to the respective examiner for further evaluation.

FORWARDED BY

HEAD OF DEPARTMENT

Head

Department of Pharmacy
Ouru Ghasidas Vishwavidyalaya
(A Central University)
Bilaspur (C.G.)

INDEX

S.NO.		CONTENTS	PAGE NO.
01	lint	roduction	1 - 2
02	Objective		2 -3
03		Goals	3 - 4
04	General consi	derations in herbal medicine research	4 - 7
05	Res	earch studies	8
06	Clinical resear	ch of herbal drug	9 - 13
07	Nor	- clinical studies	14 - 15
08	Using	g the guidelines	15
	Guidelines for preparation	quality specifications of plant material and	16 - 17
10	Guidelines for	toxicity investigation of herbal medicines	17
11		for pharmacodynamics and general cal studies of herbal medicines	18 - 19
<u>12</u>	1 To	research guideline of evaluation of safety herbal medicine	19
13		Conclusion	20
14	epieles-4	References	21 - 22

A

PROJECT REPORT

ON

"AN OVERVIEW OF DRUG DISCOVERY AND DEVELOPMENT: ROLE OF NON-CLINICAL TRIALS"

Submitted For

Fulfilmen Of The Requirement For The Degree Of

EACHELOR OF PHARMACY



Hamilottor 34

SESSION: 2023-24

SUPERVISED BY

DR. K. P. MEENA

M. Pharm., PhD.
Associate Professor
Department of Pharmacy
GGU, Bilaspur (C.G.)

SUBMITTED BY

RAJENDRA KUMAR

B. Pharm VIII SEM Enroll No. – GGV/20/06053 Roll No. - 20006046

DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDAYALA, BILASPUR (C.G.)



DEPARTMENT OF PHARMACY GURU GHASIDAS UNIVERSITY, BILASPUR (C.G.) Central University Establish

(A Central University, Established Under the Central University, Ordinance, Na 3. Of 2009)

Tel: +91-7752-260027 (0): +91-8827989653 (Mob): Fax: +91-7752-260148

FORWARDING CERTIFICATE

This is to certify that RAJEND RA KUMAR S/O. MR. VIJAY KUMAR student of B. Pharm VIII Sem in Department of Pharmacy has submitted his project work entitled "AN OVERVIEW OF DRUG DISCOVERY AND DEVELOPMENT: ROLE OF NON-CLINICAL TRIALS" with his truly and honesty observed inference during his project work. He has completed his project work under the supervision of Dr. K. P. MEENA (Associate Professor). His work is original, satisfactory and is not submitted anywhere else for the award of any degree.

I recommended the Project Report to be forwarded to the respective examiners for evaluation.

FORWARDED BY

PROF. BHARTI AHIRWAR

Head of Department
Department of Pharmacy
GGV, Bilaspur (C. G.)

Head

Department of Pharmacy
Guru Ghasidas Vishwavidyalaya
(A Central University)
Bilaspur (C.G.)

INDEX

S. No.	Contents	Page No.
1.	Introduction	1-2
2.	Pharmaceutical drug development	3
3.	Non-clinical drug development	3
4.	Goals and objectives	4
5.	Non-clinical regulatory guidelines	5
6.	Types of non-clinical study	5-9
7.	Non-clinical outcomes	9
8.	Non-clinical development in CTD modules	10
9.	Investigational New Drug (IND)	10-12
10.	New Drug Application (NDA)	12-13
11.	Abbreviated New Drug Application (ANDA)	13-14
12.	Investigational of Medicinal Products Dossier (IMPD)	14-16
13.	Investigator's brochure	17-20
14.	Conclusion	20
15.	References	21

25 15 1 144

en and all will be partied to

.

LINE TO SEE A SECURITION OF

PROJECT WORK

REPORT ON

Review of Pharma ceutical HIMALAYA WELLNESS - India's
Booming Herbal Healthcare Company

Submitted For

FULFILMENT OF THE REQUIREMENT FOR

BACHELOR OF PHARMACY



Hamilotos my

SESSION: 2023-24

SUPERVISED BY

Dr. YOGESH VAISH

W

M.Pharm, Ph.D Associate Professor SUBMITTED BY

RAJESH KUMAR GUPTA

B.Pharm VIII Sem. Roll No. 20006047

Department of Pharmacy

Guru Ghasidas University, Bilaspur (C.G.

(A Central University Established By The Central University Act, 2009 No.25 of 2009)

DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)

(A Central University Established By The Central Universities Act, 2009 No. 25 of 2009)

FORWARDING CERTIFICATE

This is to certify that Rajesh Kumar Gupta S/O Vishnu Gupta is a student of B.Pharm VIII Semester, of this Institute submitted his Project Work Report entitled "Review of Pharmaceutical HIMALAYA WELLNESS - India's Booming Herbal Healthcare Company" in the supervision of Dr. YOGESH VAISHNAV Associate Professor, Pharmaceutical Chemistry

during academic session 2023-24.

I recommended the project work Report to be forwarded to the respective examiner for further evaluation.

DR. BHARTI AHIRWAR

(Head of Department)

DEPARTMENT OF PHARMACY

GGV BILASPUR (C.G.)

Department of Pharmacy

Ghasidas Vishwavidyalaya

(A Central University)

Glaspur (C.G.)

<u>INDEX</u>

S. No.	Content	Page No.
1.	Introduction	1-2
2.	History of Himalaya	2-3
3.	Company Profile	3-6
4.	Mission	6
5.	Objectives of the study	6
6.	Brand identify	6
7.	Product Profile	6-8
8.	Operations	9
9.	Production	9-11
10.	Quality Assurance	11-13
11.	Research Methodology	13-14
12.	Growth of the Company	15-17
13.	Revenue of Himalaya as per FY-201	6 17
14.	Key Growth Drivers of the Study	17-18
15.	Awards and Recognition	18
16.	Global Market	18
17.	Marketed Products of Himalaya	18-19
18.	Competitors	19-20
19.	Future Prospective of the Company	20
20.	Swot Analy. 3 of the Himalaya Drug	Company 20-21
21.	Overview	21
22.	Pestel Analysis of Himalaya Herbals	21-22
23.	Suggestions	22-23
24.	Conclusion	23
25.	References	24-26

A

PROJECT

ON

"ROLE OF GABAPENTINOIDS AND ITS CHALLENGES IN THE TREATMENT OF NEUROPATHIC PAIN"

Submitted for

Partial fulltime of the requirement for the award of degree of

BACHELOR OF PHARMACY

Session 2023-2024



Hamilator M

Supervised by:

Dr. Meenakshi Jaiswal

(Assistant Professor)

GGV Bilaspur (C.G.)

Submitted by:

Ritika Agrawal

B.Pharma. 8rd Sem.

Roll No.: 20006051

Enrollment No.: GGV/20/06058

Department of Pharmacy, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)



Department Of Pharmacy

Guru Ghasidas Vishwavidyalaya, Bilaspur(C.G.)

(A central University Established by the Central University Act 2009 No. 25 of 2009)

Tel.:07752-260027 (O); 98271-50112 (R), fax; 07752-260148

FORWARDING CERTIFICATE

This is to certify that Ritika Agrawal D/O Mr. Sanjay Agrawal is a student of B. Pharm. 8th semester in Department of Pharmacy, Guru Ghasidas Vishwavidyalaya, Bilaspur has submitted her synopsis entitled "Role of Gabapentinoids and its Challenges in the Treatment of Neuropathic Pain" for the partial fulfilment of the requirement for the Degree of Bachelor of Pharmacy). She has submitted her project work under the supervision of Dr. Meenakshi Jaiswal (Assistant Professor). Her work is Original, Satisfactory and is not submitted anywhere else for the award of any degree.

I here recommended forwarding her project work for the Last-Year project work in B. Pharmacy during the academic session 2023-2024.

1

HOD

Department of Pharmacy

Burn Ghasidas Vishwavldyalaya

(A Central University)

Bilaspur (C.G.)

CONTENTS

S. No.	Content	Page No.
1	INTRODUCTION TO NEUROPATHIC PAIN	1-2
2	PATHOPHYSIOLOGICAL MECHANISMS OF NP	3
3	DRUG TARGETS IN NEUROPATHIC PAIN	4
4	CURRENT PHARMACOTHERAPIES IN NEUROPATHIC PAIN	5
5	INTRODUCTION OF GABAPENTINOIDS	6
6	DEVELOPMENT OF GABAPENTIN AND PREGABALIN	7
7	CHEMISTRY OF GABAPENTINOIDS	8-10
8	MECHANISM OF ACTION OF GABAPENTINOIDS	11
9	PHARMACOKINETICS PROPERTIES OF GABAPENTINOIDS	12-13
10	COMPARISON OF GABAPENTIN AND PREGABALIN	14
11	APPLICATIONS OF GABAPENTINOIDS	15-21
12	ADVERSE EFFECTS OF GABAPENTINOIDS	22-23
13	GABAPENTINOID TOXICITY	24
14	RISK WITH ABUSE OF GABAPENTINOIDS	25
15	WITHDRAWAL FROM GABAPENTINOIDS	26
16	MISUSE	27
17	HARM MINIMISATION	28
		29
18	CONCLUSION	17550
19	REFERENCES	30-33

"QUALITY CONTROL OF SOME HERBAL COSMETIC PRERATIONS"

Submitted for

Partial fulfillment of the requirement for the Award of

Bachelor of Pharmacy



Hamilo 105/24

DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDYALAYA

(A CENTRAL UNIVERSITY)

SESSION - 2023-24

SUPERVISED BY

DR.ARJUN PATRA ASSISTANT PROFESSOR SUBMITTED BY

RUPAL ANANT (20006052) LAXMINARAYAN SAHU (19008824) JAGJEET KISHOR SONANT (20006022)



DEPARTMENT OF PHARMACY

GURU GHASIDAS UNIVERSITY, BILASPUR, C.G.

(A central university, Established by the Central University Act -2009 no.25 of 2009)

Tel.No.-07752-260027, Fax no-07752- 260148

FORWARDING CERTIFICATE

This is to certify that RUPAL ANANT, LAXMINARAYAN SAHU and JAGJEET KISHOR SONANT are student of B. Pharmacy final year (8th semester) in Department of Pharmacy has Submitted their project work entitled "QUALITY CONTROL OF SOME HERBAL COSMETIC PREPARATIONS" for the Project work with truly and honestly observed inference during their project work. They have completed their project work under the supervision of DR. ARJUN PATRA. I hereby forwarded the project work during the academic session 2023-24.

HEAD OF DEPARTMENT DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA KONI BILASPUR, (C.G.) 495009

INDEX

TOPICS	PAGE. NO
INTRODUCTION	01-02
DEFINITION OF COSMETICS	02
HERBAL COSMETICS AND ITS CLASSIFICATIONS	03-05
QUALITY CONTROL PARAMETRE OF SOAP	05-09
QUALITY CONTROL PARAMETERS OF LIPSTICK	09-11
QUALITY CONTROL PARAMETERS OF SHAVING MEDIA	12-13
QUALITY CONTROL PARAMETERS OF SHAMPOOS	13-15
QUALITY CONTROL PARAMETERS OF EYE MAKEUP	15-18
QUALITY CONTROLPARAMETERS OF CREAM	18-20
QUALITY CONTROL PARAMETERS OF BLEACHES	20-22
QUALITY CONTROL PARAMETERS OF TOOTHPASTE	22-25
QUALITY CONTROL PARAMETERS OF POWDER AND PERFUMES	25-31
BIBLIOGRAPHY	32
	INTRODUCTION DEFINITION OF COSMETICS HERBAL COSMETICS AND ITS CLASSIFICATIONS QUALITY CONTROL PARAMETER OF SOAP QUALITY CONTROL PARAMETERS OF LIPSTICK QUALITY CONTROL PARAMETERS OF SHAVING MEDIA QUALITY CONTROL PARAMETERS OF SHAVING MEDIA QUALITY CONTROL PARAMETERS OF EYE MAKEUP QUALITY CONTROL PARAMETERS OF CREAM QUALITY CONTROL PARAMETERS OF BLEACHES QUALITY CONTROL PARAMETERS OF BLEACHES QUALITY CONTROL PARAMETERS OF DOUBLE AND PERFUMES

A PROJECT WORK ON

"ICH GUIDELINES FOR QUALITY CONTROL OF HERBAL DRUGS"

Submitted for

Partial fulfilment of the requirement for the Award of Bachelor of Pharmacy



Hamilton Ary

GURU GHASIDAS VISHWAVĮDYALAYA (A CENTRAL UNIVERSITY)

SESSION - 2023-24

SUPERVISED BY

DR. SHIVANI RAI PALIWAL M PHARM., PHD, POST DOC. ASSISTANT PROFESSOR DEPARTMENT OF PHARMACY GGU. KONI, BILASPUR, (C.G.)

SUBMITTED BY

RUPESH KUMAR MIRI B. PHARM 8TH SEMESTER ROLL NO. – 20006053 ENROLLMENT NO.- GGV/20/06060



DEPARTMENT OF PHARMACY

GURU GHASIDAS UNIVERSITY, BILASPUR, C.G.

(A central university, Established by the Central University Act -2009 no.25 of 2009)

Tel.No.-07752-260027, Fax no-07752- 260148

FORWARDING CERTIFICATE

This is to certify that RUPESH KUMAR MIRI, S/O KHEDURAM MIRI. is a student of B. Pharmacy final year (8th semester) in Department of Pharmacy has Submitted his project work entitled "ICH GUIDELINES FOR QUALITY CONTROL OF HERBAL DRUGS" for the Project work with his truly and honestly observed inference during his project work. He has completed his project work under the supervision DR. SHIVANI RAI PALIWAL.

I hereby forwarded his project work for pharmacy practice during the academic session 2023-24.

PROF. BHARTI AHIRWAR
HEAD OF DEPARTMENT
DEPARTMENT OF PHARMACY
GURU GHASIDAS VISHWAVIDYALAYA
KONI BILASPUR, (C.G.) 495009

Department of Pharmacy

11 Ghasidas Vishwavidyalaya
(A Central University)

Ellassur (C.C.)

INDEX

S.N	TOPIC
1.	Introduction
2.	Purpose of ICH
3.	History of ICH
4.	The need to harmonise
5.	Initiation of ICH
6.	The evolution of ICH
7.	ICH organisation structure
8.	ICH parties
9.	Non ICH members
10.	ICH structure
11.	Categories of ICH
12.	Conclusion
13.	References

A PROJECT WORK ON

"AN INSIGHT INTO SOME COMMERCIALLY IMPORTANT ESSENTIAL OILS"

Submitted for

fulfillment of the requirement for the Award of

Bachelor of Pharmacy



Hamilton M

DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDYALAYA

(A CENTRAL UNIVERSITY)

SESSION - 2023-24

SUPERVISED BY:

Dr. VIVEKANANDA MANDAL

Assistant Professor
DEPARTMENT OF PHARMCY, GGV
KONI, BILASPUR, (C.G.)

SUBMITTED BY:

SAKSHI KASHYAP

B. PHARM 8TH SEMESTER ROLL NO. – 20006054 ENROLLMENT NO- GGV/20/06061



DEPARTMENT OF PHARMACY

GURU GHASIDAS UNIVERSITY, BILASPUR, C.G.

(A central university, Established by the Central University Act -2009 no.25 of 2009)

Tel.No.-07752-260027, Fax no-07752- 260148

FORWARDING CERTIFICATE

This is to certify that Miss SAKSHI KASHYAP D/O Mr. MANSURI RAM KASHYAP, a student of B. Pharm VIII semester in Department of Pharmacy has submitted her project work entitled "AN INSIGHT INTO SOME COMMERCIALLY IMPORTANT ESSENTIAL OILS" for the Project work with her truly and honestly observed inference during her project work. She has completed his project work under the supervision of Dr. VIVEKA NANDA MANDAL (Assistant Professor).

I hereby forwarded her project work for pharmacy practice during the academic session 2023-24.

HEAD OF DEPARTMENT

DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDYALAYA

KONI BILASPUR, (C.G.) 495009

Head

Department of Pharmacy
Juru Ghasidas Vishwavidyalaya
(A Central University)

CONTENT

Sr no.	Topic	Page
1	Introduction	1
2	History	1-3
3	Essential oil market analysis	3-4
4	Lavender essential oil	5-10
5	Peppermint essential oil	11-15
6	Rosemary essential oil	16-20
7	Tea tree essential oil	21-24
8	Bibliography	25

A Project Work on

Recent Policy in Tuberculosis Management By India

Submitted in Partial fulfilment of the requirement of the Award of the degree

Bachelor of pharmacy



Session 2023-24

Submitted by

-

Shaili Singh Parmar
B. Pharm (8th Semester)
Roll No: 20006055
Enrollment No.-GGV/20/06063

Supervised by

Dr. Partha Pratim Roy
(Asstt.Professor)
Department of Pharmacy,
Guru Ghasidas Vishwavidyalaya

DEPARTMENT OF PHARMACY,
GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)



DEPARTMENT OF PHARMACY

GURU GHASIDAS UNIVERSITY, BILASPUR, C.G.

(A Central University, Established by the Central University Act 2009 no.25 of 2009)

Tell. No. - 07752-260027, Fax No. - 07752-260148

FORWARDING CERTIFICATE

This is to certify that Shaili Singh Parmar D/O Shailendra Singh Parmar is a student of B. Pharmacy Final Year (8th semester) in Department of Pharmacy has submitted her project work entitled "Recent Policy in Tuberculosis Management By India" for the project report in pharmacy with her truly and honestly observed inference during her project work. She has completed her project work under the supervision of Dr. Partha Pratim Roy (Asstt.Professor, Division of Pharmaceutical Chemistry) Department of Pharmacy.

I hereby forwarded her project work for pharmacy practice during the academic session 2023-24.

Dr. Bharti Ahirwar

(Professor and Head of Department)

Head

Department of Pharmacy
Guru Ghasidas Vishwavidyalaya
(A Central University)
Bilaspur (C.G.)

Index

S.No.	Topic	Page No.
1.	Introduction	1
2.	History	2-3
3.	Tuberculosis	3-14
4.	Policies and Programme	15-23
5.	Conclusion	24
6.	References	25-26

DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)

(A Central university established by the Central University Act, 2009 NO.25 of 2009)

A PROJECT WORK ON

DRUG DISCOVERY AND DEVELOPMENT PROCESS

Submitted For

Fulfilment of the Requirement for the Degree of

Bachelor of Pharmacy

SESSION: 2023-24



Hamilfortzy

SUPERVISED BY

Dr. K. Kesavan M. Pharm, Ph.D Asstt. Professor

13

3

3

3

0

9

SUBMITTED BY

Sharad Mishra

B. Pharm VIII Sem Enroll No. GGV/20/06064 Roll No. - 20006056



DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)

(A Central University, Established Under the Central University, Ordinance, Na 3. Of 2009) Tel: +91-7752-260027 (0): +91-8827989653 (Mob): Fax: +91-7752-260148

FORWARDING CERTIFICATE

This is to certify that SHARAD MISHRA S/o. JAYPRAKASH MISHRA, student of B. Pharm VIII Sem in Department of Pharmacy has submitted his project work entitled "DRUG DISCOVERY AND DEVELOPMENT PROCESS" with his truly and honesty observed inference during his project work. He has completed his project work under the supervision of Dr. K. Kesavan (Assistant Professor). His work is original, satisfactory and is not submitted anywhere else for the award of any degree.

I hereby forward his project work for the academic session 2023-24.

FORWARDED BY

Dr. Bharti Ahirwar

(HOD)

Department of Pharmacy GGV, Bilaspur (C. G.) Head

Department of Pharmacy Buru Ghasidas Vishwavidyalaya (A Central University) Bilaspur (C.G.)

CONTENT

S.No	Topic	Page No
1	Introduction	1
2	Stages of Drug Discovery and Development process 2.1 Target identification 2.2 Target validation 2.3 Lead identification 2.4 Lead optimization 2.5 Product characterization 2.6 Formulation & development 2.7 Pre clinical research 2.8 Investigational New Drug 2.9 Clinical trials 2.10 New Drug Application & Approval	1-6
3	Regulatory Authorities and Agencies 3.1 Introduction 3.2 Drug regulatory agencies in India 3.3 Drug regulatory agencies in US 3.4 Drug regulatory agencies in Europe 3.5 Drug regulatory agencies in Japan	20-26
4	References	27

13

PROJECT REPORT ON

"VACCINE PHARMACOVIGILANCE"

Submitted For

Project work Examination 2023-24
BACHELOR OF PHARMACY



Hamistor Fry

Session 2023-24

SUPERVISED BY-

Dr. Sanjay Bharti

M. Pharm. PhD

Assistant professor

SUBMITTED BYSheikh Hamid Rza
B. Pharm. VIII Sem.
Rollno. 20006057



DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)

(A Central university established by the Central Universities Act, 2009 no. 25 of 2009)

FORWARDING CERTIFICATE

This is to certify that SHEIKH HAMID RZA S/O SHEIKH AURANGZEB is a student of B. Pharm. VIII Semester, of this Institute has submitted his Project Work Report entitled "Vaccine Pharmacovigilance" in the supervision of Dr. Sanjay Bharti during academic session 2023 -24.

I recommended the Project work Report to be forwarded to the respective examiner for further evaluation.

FORWARDED BY HEAD OF DEPARTMENT Head

Department of Pharmacy
Guru Ghasidas Vishwavidyelaya
(A Contral University)
Bilaspur (C.G.)

INDEX

s.no.	CONTENT	PAGE NO.
01	Introduction	01
02	History	02-03
03	Pharmacovigilance programme of India (PVPI)	03-07
04	Causes of failure implementation of PVPI:	07-08
05	Pharmacovigilance reporting methods	08- 10
06	Vaccine	10-11
07	Classification of vaccine	11-14
	Vaccine Pharmacovigilance	14-18
08	Conclusion	18-19
09	References	19-21
10		

Department of Pharmacy

Guru Ghasidas Vishwavidyalaya, Bilaspur

(A Central University established by the Central Universities Act 2009 No. 25 of 2009)

A Project Report

On

Harnessing Nature Through the Digitization of Traditional Knowledge

Submitted for

Partial Fulfilment of The Requirement for The Degree Of

Bachelor Of Pharmacy

Session 2023-24



Hamil of or bry

Supervised By

Dr. Vivekananda Mandal

Assistant Professor

Department of Pharmacy

GGV Bilaspur C. G

Submitted By

Shubham Kumar Jaiswal

B. Pharm VIII Sem

Enroll No. GGV19/6355

Roll No 19008859



DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)

A Central University, Established Under the Central University, Ordinance, Na 3. Of 2009) Tel: +91-7752-260027 (0): +91-8827989653 (Mob): Fax: +91-7752-260148

FORWARDING CERTIFICATE

This attests to the fact that Mr. Shubham Kumar Jaiswal, S/o, Mr. Sundar Kumar Jaiswal, an 8th semester B. Pharm student in the pharmacy department, turned in his project, " Harnessing Nature Through the Digitization of Traditional Knowledge," with sincere and honest observations made throughout the process. He completed his project work under Dr. Vivekananda Mandal's supervision (Assistant Professor). His work is satisfactory, and unique, and hasn't been submitted anywhere else for consideration for a degree.

I here recommended forwarding his project for the award of the degree of B. Pharmacy during the academic year 2023-2024.

Forwarded By

- Head

Department of Pharmacy Guru Ghasidas Vishwavidyalayer (A Central University) Bilaspur (C.G.)

Content

1	Introduction:	07
2	About the Website:	08
3	Home Tab:	08
4	Chatbot:	09
5	Classification Tab:	11
6	Alphabetical Classification:	12
7	Morphological Classification:	13
8	Codes	14
9	Further Enhancements for "Herbal Haven"	23
10	Reference	25

DEPARTALL F OF PHARMACY,

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)

(A Central University established by the Central Universities Act 2009 No. 25 of 2009 BILASPUR (C.G)

495009 INDIA

A

PROJECT ON

THE REVIEW ON COVID - 19 AND ITS VACCINES

Submitted for the partial fulfillment of the requirement for

The Award of Degree of

BACHELOR OF PHARMACY

SESSION 2023-2024



SUPERVISED BY

Dr. AKHLESH KUMAR JAIN ASSISTANT PROFESSOR Dept. Of Pharmacy, GGU

SUBMITTED BY

MS. SHREYA MISHRA
B. Pharm VIII Semester
Roll No: 20006060

Hamitfortry

Enroll No: GGV/20/06068

DEPARTMENT OF PHARMACY,



GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR 495009 (C.G.)

A Central University Established by the Central University Act-2009 No-25 of 2009 Tel.No.07752-260027; FaxNo.07752-260148.

FORWARDING CERTIFICATE

This is to certify that MS. SHREYA MISHRA B. Pharm VIII semester of Department of Pharmacy Guru Ghasidas Vishwavidyalaya Bilaspur, has submitted her project work entitled "THE REVIEW ON COVID – 19 AND ITS VACCINES" for the partial fulfillment of the requirement for the award of degree of Bachelor of Pharmacy. She has submitted her synopsis under the supervision of DR. AKHILESH KUMAR JAIN.

I here recommended forwarding her project for the award of the degree of B.Pharmacy during the academic session 2023 -2024.

Date-

Place-

FORWARDED BY

DR. BHARTI AHIRWAR

Professor

(Head of Department)

DEPARTMENT OF PHARMACY

Head

Department of Pharmacy
Guru Ghasidas Vishwavidyalaya
(A Central University)
Bilaspur (C.G.)

CONTEXT

- 1. INTRODUCTION
- 2. ETYMOLOGY
- 3. HISTORY
- 4. MICROBIOLOGY
 - **4.1 STRUCTURE**
- 5. CORONAVIRUS DISEASE 2019 (COVID-19)
 - **5.1 NOMENCLATURE**
 - 5.2 SYMPTOMS AND SIGNS
 - 5.3 COMPLICATIONS
 - 5.4 CAUSE
 - 5.5 TRANSMISSION
 - 5.6 VIROLOGY
 - 5.7 SARS-CoV-2 VARIANTS
- 6. <u>VACCINES FOR COVID 19</u>
 - 6.1MESSENGER RNA (mRNA)
 - 6.1.1 Effectiveness Of mRNA Vaccines
 - 6.1.2 Research Studies
 - 6.2 VECTOR VACCINE
 - 6.2.1 Viral Vector Vaccine Effectiveness
 - 6.3 PROTEIN SUBL VIT VACCINE
 - 6.3.1 Protein Subunit Vaccine Effectiveness
 - 6.4 WHOLE VIRUS VACCINES
 - 6.4.1 Whole Virus Vaccine Effectiveness
- 7. VACCINES DEVELOPED IN INDIA
 - 7.1 COVISHIELD
 - 7.1.1 Pharmacology
 - 7.2 COVAXIN
 - 7.3 SPUTNIK V
- 8. COVID-19 VACCINATION IN INDIA
- 9. REFERENCES

A PROJECT WORK ON ESSENTIAL OILS FOR INTERNAL ADMINISTRATION

Submitted for

Partial fulfilment of the requirement for the Award of Bachelor of Pharmacy

SUPERVISED BY

3

3

3

PROF. V.D. RANGARI Department of Pharmacy, GGV, BILASPUR, C.G.

SUBMITTED BY

SHUBHANSHU SHUKLA
B. PHARM 8TH SEMESTER
ROLL NO – 20006062
EN. NO- GGV/20/06070



DEPARTMENT OF PHARMACY
GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR, C.G.

SESSION-2023-24



30

>>)

>>

3

3

DEPARTMENT OF PHARMACY

GURU GHASIDAS UNIVERSITY, BILASPUR, C.G.

A central university, Established by the Central University Act -2009 no.25 of 2009)

Tel.No.-07752-260027, Fax no-07752- 260148

FORWARDING CERTIFICATE

This is to certify that Shubhanshu Shukla s/o. Ramesh Shukla is a student of B. Pharmacy final year (8th semester) in Department of pharmacy has submitted his project work Essential Oils for Internal Administration for the project work with his truly and honestly observed inference during his project work. He was completed his project work under the supervision of Prof. V.D. Rangari

I recommended the project report to be forwarded to the respective examiners for evaluation.

PROF. BHARTI AHIRWAR

Head of The Department

Department of Pharmacy,

GGV Koni Bilaspur

Department of Pharmacy
Guru Ghasidas Vishwavidyalaya
(A Central University)
Bilaspur (C.G.)

INDEX

S.no.	Topic	Page no.
1	Introduction	7
2	Occurrence of essential oils	
3	Chemistry of essential oils 10	
4 Essential oils for internal administration Anise oil, Peppermint oil, Tea tree oil, Artemisia arborescens, Bitter fennel fruit oil, Rosemary oil, Lavender oil, Cinnamon oil, Eucalyptus oil, Neroli oil, Basil oil, Dill oil, Cajuput oil, Clove oil, Garden thyme, Nutmeg oil.		14
5	References	27

A

Project Work

Report On

"Facing the Silent Killer: Cervical Cancer Insights"

Submitted For

Project Work Examination

BACHELOR OF PHARMACY

Session - 2023-24



Harit Stocky

Guided By:

Dr. S.H. Bodakhe

M. Pharm, PhD

Professor

Department Of Pharmacy

Guru Ghasidas University, Bilaspur

Submitted By:

Sujit Kumar Mahato

B. Pharm VIII Sem

Roll No.: 20006065

Enrollment No-GGV/20/06073

Department of Pharmacy Guru Ghasidas Vishwavidayalaya, Bilaspur (C.G.)



DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR(C.G.

(A Central university established by the Central Universities Act, 2009 no. 25 of 2009)

FORWARDING CERTIFICATE

This is to certify that Sujit Kumar Mahato is a student of B.Pharm VIII Semester of this Department has submitted his Project Work Report entitled "FACING THE SILENT KILLER: CERVICAL CANCER INSIGHTS" under the supervision of Dr. S.H. Bodakhe during academic session 2023 - 24.

I recommend the Project Work Report to be forwarded to the respective examiner for further evaluation.

Forwarded By:

Date:

Dr. Bharti Ahirwar (Head of Department) Department of Pharmacy Guru Ghasidas Vishwavidayala

Bilaspur (G.G.)

Department of Pharmacy

Juru Ghasidas Vishwavidyalaya

(A Central University)

Bilaspur (C.G.)

A PROJECT WORK ON

"SURVEY OF THYROID DISEASE"

Submitted for

Partial fulfilment of the requirement for the Award of

Bachelor of pharmacy



Session -2023-24

Howit Story

SUPERVISED BY-

PROF.(DR.) K.P. NAMDEO

PHARMACEUTICAL, CHEMISTRY

SUBMITTED BY-

SUPURNA PANDA

B. PHARMACY (FINAL YEAR)

ROLL NO.-20006066

ENROLLMENT NO. -GGV/20/06074

DEPARTMENT OF PHARMACY,
GURU GHASIDASH VISHWAVIDYALAYA, BILASPUR (C.G.)



DEPARTMENT OF PHARMACY

GURU GHASIDAS UNIVERSITY, BILASPUR, C.G.

(A central university, Established by the Central University Act -2009 no.25 of 2009)

Tel.No.-07752-260027, Fax no-07752- 260148

FORWARDING CERTIFICATE

This is to certify that SUPURNA PANDA, D/O. Suresh Kumar panda is a student of B. pharmacy final year (8th semester) in Department of pharmacy has Submitted his project work entitled "SURVEY OF THYROID DISEASE" for the pharmacy practice with his truly and honestly observed inference during his project work. She was completed his project work under the supervision of DR.K.P. NAMDEO (Associate professor of pharmaceutical Chemistry).

I hereby forwarded his project work for pharmacy practice during the academic session 2023-24.

Dr. Bharti Ahirwar

서류원(D.)

Department of Pharmacy Buru Ghasidas Vishwavidyalaya (A Central University)

Bilaspur (C.G.)

CONTENTS

- 1 INTRODUCTION OF THYROID DISEASE
- 2 THYROID DISORDERS TYPES: -
 - Hypothyroidism
 - Hyperthyroidism
- 3 THYROID HORMONES
- 4 ACTION OF THYROID HORMONES
- 5 THYROID TESTES
 - TSH TEST
 - T3 TEST
 - T4 TEST
 - THYROID ANTIBODY TEST
- 6 METHOD OF SURVEY (PATIENTS COUNCELLING)
- 7 PATIENTS SURVEY (6 PATIENT INCLUDED)
 - PATIENTS DETAILS (NAME, AGE, HEIGHT, WEIGHT)
 - DATA OF TEST REPORT (TSH, T3, T4 LEVELS)
 - PATIENT COUNCELLING (REASON OF DESEASE, SYMTOMS, FAMILIY HISTORY, MEDICAL HISTORY, PRESCRIPTION REPORT, ANY SIDE EFFECT OF MEDICINE, PREACAUTION AND ENVIRONMENRTAL CONDITION AROUND A PATIENTS ASK)
- 8 CONCLUSION
- 9 REFERENCES

A PROJECT WORK ON

"PHARMACOVIGILANCE PROGRAMME OF INDIA"

Submitted for

Partial fulfilment of the requirement for the Award of Bachelor of Pharmacy



Harito 1105/24

DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA (A CENTRAL UNIVERSITY)

SESSION - 2023-24

SUPERVISED BY

DR. DILIPKUMAR PAL
PROFESSOR, PHARMACEUTICAL CHEMISTRY
DEPARTMENT OF PHARMCY, GGV
(A CENTRAL UNIVERSITY)
KONI, BILASPUR, (C.G.) 495009

SUBMITTED BY

TIKESHWAR

B. PHARM 8th SEMESTER

ROLL NO. – 20006068

ENROLLMENT NO. - GGV/20/06077



DEPARTMENT OF PHARMACY GURU GHASIDAS UNIVERSITY, BILASPUR, C.G.

(A central university, Established by the Central University Act -2009 no.25 of 2009) Tel.No.-07752-260027, Fax no-07752- 260148

FORWARDING CERTIFICATE

This is to certify that TIKESHWAR, S/O. MOTI RAM, is a student of B. Pharmacy final year (8th semester) in Department of Pharmacy has Submitted his project work entitled "PHARMACOVIGILANCE PROGRAMME OF INDIA" for the project work with his truly and honestly observed inference during his project work. He has completed his project work under the supervision of PROF. DILIPKUMAR PAL (Professor of Pharmaceutical Chemistry).

I hereby forward his project work during the academic session 2023-24.

PROF. BHARTI AHIRWAR

HEAD OF DEPARTMENT
DEPARTMENT OF PHARMACY
GURU GHASIDAS VISHWAVIDYALAYA
(A CENTRAL UNIVERSITY)
KONI, BILASPUR, (C.G.) 495009

Head

Department of Pharmacy
Guru Ghasidas Vishwavidyalaya
(A Central University)
Bliaspur (C.G.)

CONTENTS

Sr.No.	Topic	Page No.
1	Introduction	1-2
2	Pharmacovigilance Programme of India	2-3
3	Implantation of PvPI	3-4
4	Causes of failure of implementation of pharmacovigilance in India	4-5
5	Core committees at NCC-PvPI	5-6
6	Pharmacovigilance method	7-12
7	Descriptive studies	12
8	PvPI Communication Channels	12-13
9	E-mail IDs and functions of different divisions of PvPI	14
10	ADR Reporting	14-16
11	Channels for reporting AE/ADR	16-24
12	AMCs: The Backbone of PvPI	24-25
13	Quality Management System in PvPI	25
14	Signal Detection	26
15	Skill Development Programme	26-27
16	Promotion, Communication & Resource Materials	27-28
17	PvPI Directory	28
18	PvPI in News and Media	28-29
19	Future aspects of pharmacovigilance in India	29-30
20	Conclusion	30
21	References	30-31

A PROJECT WORK ON

"A STUDY OF PROSPECTIVE ADVERSE EFFECT OF DRUGS AND VACCINES ASSOCIATED WITH THE TREATMENT OF COVID-19"

Submitted for

Partial fulfilment of the requirement for the Award of Bachelor of Pharmacy



GURU GHASIDAS VISHWAVIDYALAYA
(A CENTRAL UNIVERSITY)

SESSION - 2023-24

SUPERVISED BY:-

DR. SUMATHI POLEBOINA
ASSISTANT PROFESSOR, PHARMACOLOGY
& TOXICOLOGY.
DEPARTMENT OF PHARMCY, GGV
(A CENTRAL UNIVERSITY)
KONI, BILASPUR, (C.G.) 495009

SUBMITTED BY:-

VAISHNAVI SHARMA
B. PHARM 8th SEMESTER
ROLL NO. – 20006070
ENROLLMENT NO.- GGV/20/06079



DEPARTMENT OF PHARMACY GURU GHASIDAS UNIVERSITY, BILASPUR, C.G.

(A central university, Established by the Central University Act -2009 no.25 of 2009)
Tel.No.-07752-260027, Fax no-07752- 260148

FORWARDING CERTIFICATE

This is to certify that VAISHNAVI SHARMA, D/O. OM PRAKASH SHARMA, is a student of B. Pharmacy final year (8th semester) in Department of Pharmacy has Submitted her project work entitled "A STUDY OF PROSPECTIVE ADVERSE EFFECT OF DRUGS AND VACCINES ASSOCIATED WITH THE TREATMENT OF COVID-19" for the project work with her truly and honestly observed inference during her project work. She has completed her project work under the supervision of DR. SUMATHI POLEBOINA (ASSISTANT PROFESSOR OF PHARMACOLOGY & TOXICOLOGY).

I hereby forwarded her project work for project work during the academic session 2023-24.

PROF. BHARTI AHIRWAR
HEAD OF DEPARTMENT
DEPARTMENT OF PHARMACY
GURU GHASIDAS VISHWAVIDYALAYA
(A CENTRAL UNIVERSITY)
KONI, BILASPUR, (C.G.) 495009

Head

Department of Pharmacy
Juru Ghasidas Vishwavidyalaya
(A Central University)
Bilaepur (C.G.)

INDEX

	73
	7
1.INTRODUCTION	,
2.LITERATURE REVIEW	5
3.CONTENTS	10
3.2 CORONAVIRUS EVOLUTION	10
3.3 VIRUS	14
3.4 DEATH	14
3.5 PATHOPHYSIOLOGY	
4.MEDICINES USED FOR THE TREATMENT OF COVID-19 ASSOCIATED WITH THEIR ADVERSE EFFECTS	10
4.1 ANTIVIRAL DRUGS	19
4.1.1 DARUNAVIR	19
4.1.2 OSELTAMIVIR	20
4.2 ANTIBACTERIAL DRUG	21
4.2.1 AZITHROMYCIN	21
4.3 ANTIMALARIAL DRUGS	22
4.3.1 HYDROXYCHLOROQUINE	22
4.4 IMMUNOMODULATORS	23
4.4.1. ANAKINRA	23
4.4.1 THALIDOMIDE	24
4.5 ANGIOTENSIN 2 RECEPTOR BLOCKER	25
4.5.1 LOSARTAN	25
4.6 CORTICOSTEROIDS	26
4,7 ANTIHELMENTIC	27
4.7.1 IVERMICTIN	27
4.7.2 NITAZOXANIDE	28
4.8 ANTICOAGULANT	29
4.8.1 HEPARIN	29
4.9 H2 BLOCKER	31
4.9.1 FAMOTIDINE	31
4.10 ANTIPROTOZOAL	33
	33
4.10.1 EMETIN	34
5.VACCINES	
5.1 Comienaty Vaccine-Pfizer-BioNTech	34
5.2 mRNA-1273 Vaccine-Moderna	35
5.3 Inactivated Virus Vaccines	

A PROJECT WORK ON

"Formulation and Evaluation of Herbal Face Pack"

Submitted for

Partial Fulfilment of the requirements for the Award of Degree of



Bachelor of Pharmacy

SESSION- 2023-24

Hamilton 124

SUPERVISED BY

222222

Dr. Dinesh K. Mishra

Prof. (M.Pharm, PhD)

SUBMITTED BY

Vinay Kumar

B.PHARM(8thSEM)

Roll no.-20006071

Enrollment no.-GGV/20/06080

DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDYALAYA BILASPUR, C.G.

(A CENTRAL UNIVERSITY)



v

DEPARTMENT OF PHARMACY

GURU GHASIDAS UNIVERSITY, BILASPUR, C.G

(A central university, Established by the Central University Act -2009 no.25 of 2009)

Tel.No.-07752-260027, Fax no-07752- 260148

FORWARDING CERTIFICATE

This is to certify that Vinay Kumar S/O Likhan Sinha is a student of B. pharmacy final year (8th semester) in Department of pharmacy has submitted his project work entitled "Formulation and Evaluation of Herbal Face Pack" for the pharmacy practice with his truly and honestly observed inference during his project work. He has completed his project work under the supervision of Dr. Dinesh K. Mishra.

I hereby forward his project work for pharmacy practice during the academic session 2023-24.

Dr. Bharti Ahirwar

(HEAD OF THE DEPARTMENT)

CONTENT

- INTRODUCTION
- MATERIALS AND METHODS
- METHOD OF PREPARATION
- BENEFIT
- IDEAL PROPERTIES
- PRECAUTIONS
- METHOD OF EVALUATION
- RESULT AND DISCUSSION
- CONCLUSION
- REFERENCES

A PROJECT REPORT ON

CHEMISTRY AND PHARMACOLOGICAL ACTIVITY OF PYRAZOLE

Submitted for Partial fulfilment of the requirement for the Award of the degree of Bachelor of Pharmacy



Session 2023-24

Hamilottos 24

SUBMITTED BY

Vinay Kumar Bhoi

B. PHARM (8th Semester)

Roll No - 20006072

Enrollment No. - GGV/20/06081

SUPERVISED BY

DR. JAGADISH SINGH

(Professor)

Department of Pharmacy,

Guru Ghasidas Vishwavidyalaya

DEPARTMENT OF PHARMACY,

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)



DEPARTMENT OF PHARMACY

GURU GHASIDAS UNIVERSITY, BILASPUR, C.G.

(A Central University, Established by the Central University Act 2009 no.25 of 2009)

Tell. No. - 07752-260027, Fax No. - 07752-260148

FORWARDING CERTIFICATE

This is to certify that Vinay Kumar Bhoi S/O Hemant Bhoi is a student of B. Pharmacy Final Year (8th semester) at the Department of Pharmacy has submitted his Project Work entitled "CHEMISTRY AND PHARMACOLOGICAL ACTIVITY OF PYRAZOLE" with his truly and honestly observed inference during his Project Work. He has completed his Project Work under the supervision of Dr. JAGADISH SINGH (Professor, Division of Pharmaceutical Chemistry).

I hereby forwarded his Project Work for the Pharmacy Practice during the Academic Session 2023-24.

Forwarded by

Dr. Bharti Ahirwar

(Professor and Head of Department)

Department of Pharmacy

Head

Department of Pharmacy
Guru Ghasidas Vishwavidyalaya
(A Central University)
Bilaspur (C.G.)

S.No	Content	Page no.
01	Introduction	01
02	History	02
03	Pyrazole	. 04
04	Physical Properties	05
05	Synthesis Methods	07
06	Chemical Properties	11
07	Chemical Reactions	13
08	Medicinal Application of Pyrazole	20
09	Marketed Product of Pyrazole	25
10	Conclusion	26
11	References	27

A

Project Report

On

Combating Cancer: Unveiling Mechanisms of Multi-Drug Resistance and Exploring the Therapeutic Potential of JAK/STAT Inhibition

Submitted for

Partial fulfilment of the Requirement for the Award of

Bachelor of Pharmacy



Hamilator my

2023-2024

SUPERVISED BY

DR. HARISH RAJAK

ASSOCIATE PROFESSOR

SUBMITTED BY

VIVEK KUMAR MANKER

B.PHARM (8TH SEM)

ROLL NO. 20006073

ENROLL NO. GGV/20/06082

DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDYALAYA , BILASPUR (C.G)



DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G)

(A Central University established by the Central University Act , 2009 no.25 of 2009)

FORWARDING CERTIFICATE

This is to certify that VIVEK KUMAR MANKER S/O TILAK RAM MANKER is a student of B. Pharm VIII Semester, of this Institute has submitted his Project work Report entitled "Combating Cancer: Unveiling Mechanisms of Multi-Drug Resistance and Exploring the Therapeutic Potential of JAK/STAT Inhibition" under the supervision of DR. HARISH RAJAK ASSOCIATE PROFESSOR during academic session 2023-24.

I recommended the project work report forwarded to the respective examiner for evaluation.

FORWARDED BY

(DR. BHARATI AHIRWAR)

HEADead

Department of Pharmacy

Guru Ghasidas Vishwavidyalaya

(A Central University)

Dilaspur (C.G.)

INDEX

1. Introduction	1
2. Types of cancer	
3. Symptoms	
4. Worldwide status	
5. JAK-STAT:	
introduction	4
6. Importance of jak stat	5-9
7. JAK STAT signalling	
pathway	10
8. Role of JAK STAT in	
cancer	11
9. Stat protein in cancer	12
10. STAT1 as a Tumour Suppressor	13
11.STAT3 as an Oncogene	14
12. STATs in Tumour Cell Proliferation	14
13. STAT Proteins in Tumour Angiogenesis	
14. STAT Proteins in Tumour Metastasis	
15. Interaction between STAT5 and STAT3	
16. STATs and Epigenetic Modulation of Cancer	
17. Drugs in market	
18. Literature review	
19. Conclusion	
20.Refrences	22

DEPARTMENT OF PHARMACY GURU GHASIDAS UNIVERSITY , BILASPUR (C.G)

(A Central University Established By The Central university Act, 2009 No.25 of 2009)

A

PROJECT WORK

ON

"A STUDY ON MONITORING OF ADVERSE DRUG REACTION ASSOCIATE WITH ANTI- HYPERTENSIVE DRUGS"

SUBMITED FOR PARTIAL FULFILMENT OF THE REQUIREMENT FOR

BACHELOR OF PHARMACY

SESSION: 2023-24



I formit of local

SUPERVISED BY Dr.NEELI ROSE BECK

M.Pharm., Ph.D

Associate Professor

SUBMITTED BY

YOGITA SHUKLA

B. Pharm. VIII Sem.

Roll No. 20006075



DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA , BILASPUR (C.G.)

(A Central university established by the Central Universities Act, 2009 no. 25 of 2009)

FORWARDING CERTIFICATE

This is to certify that YOGITA SHUKLA D/O YOGESH SHUKLA is a student of B.Pharm . VIII Semester , of this Institute has submitted her Project Work " A STUDY ON MONITORING OF ADVERSE DRUG REACTION ASSOCIATE WITH ANTI-HYPERTENSIVE DRUGS" in the supervision of Dr NEELI ROSE BECK Associate Professor ,pharmacognosy during academic session 2023. recommended the Project Work.

To be forwarded to the respective examiner for further evaluation .

FORWARDED B

Prof. BHARTI AHIRWAR

HEAD OF DEPARTMENT

DEPARTMENT OF PHARMACY

GGV, Bilaspur (c.g)

Head

Department of Pharmacy Guru Ghasidas Vishwavidyalaya (A Central University)

Bilaspur (C.G.)

INDEX

CONTENT	PAGE NO.
1. A Study On Monitoring O Adverse Reaction Associate	of 01-04
With Anti-Hypertensive Dru	g 01
1.1 Introduction	02
1.2 Pathophysiology of Hypertensive Drug	03
1.3 Adverse Reaction 1.4 Prevention &	04
Etiopathogenesis	
2. Classification Of Synthetic	04-06
Anti-Hypertension Drug	
2.1 Adverse Drug Reaction of anti-hypertensive drug in tabular form	06
3. Classification Of Natural	07-10
Anti-Hypertensive Drug	07
3.1 Rauwolfia serpentina	08
3.2 Veratrum viride	10
3.3 Hibiscus sabdariffa	
Computational Model for e Prediction Of Adverse	11-12
fect	
To Monitor The Adverse ug Reaction Caused By ti-Hypertensive Medicine escribe In a University	13-17
ching Hospital (Case dy)	
5.1 Method 5.2 Statical data report in tabular form	13

PROJECT REPORT ON

"Drug Discovery and Development Process: An Overview"

Submitted For

Project work Examination 2023-24

BACHELOR OF PHARMACY



Hamilton

Session 2023-24

SUPERVISED BYDr. S.K. Lanjhiyana
M.Pharm. PhD
Associate professor

SUBMITTED BY-Abrar Maqsood B.Pharm VIII Sem. Rollno. 20006076



DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)

(A Central University established by the Central Universities Act, 2009 no. 25 of 2009)

FORWARDING CERTIFICATE

This is to certify that ABRAR MAQSOOD S/O MR. MAQSOOD ALAM is a student of B. Pharm. VIII Semester, of this Institute has submitted his Project Work Report entitled "Drug Discovery and Development Process: An Overview" in the supervision of Dr. S.K. Lanjhiyana during academic session 2023 -24.

I recommended the Project work Report to be forwarded to the respective examiner for further evaluation.

FORWARDED BY
HEAD OF DEPARTMENT
Head

Department of Pharmacy
Surn Ghasidas Vishwavidyalaya
(A Central University)
(3)1939ur (C.G.)

INDEX

S. No.	CONTEXT	
1) 1/20	CONTEXT	PAGE No.
01	Introduction	01
02	Stages of Drug Development	01-06
03	Investigational New Drug Application	06-09
04		09-12
And I make	Role of Regulatory Authorities	
05	Clinical Trails	12-18
partition .		
06	Toxicity Study	18-20
07	Investigational Brochure	20-21
08	New Drug Application	21-22
)9	Bioequivalence studies	22-24
0	References	24-27

Guru Ghasidas Vishwavidyalaya

A PROJECT REPORT ON

"BioEnzymes"

Saboritted For

Final semester project submission 2023-24

B. PHARMACY



Harrit Jostsy

Guided By-

Dr. Mahavir H. Ghante

M.pharm, Ph.D

Associate Professor, Department of pharmacy

Submitted By-

Shrijan Kr. Pandey

Roll no-2000601

Enroll. No- GGV/20/06069

SESSION-2023-24

Department Of Pharmacy

GURU GHASIDAS VISHWAVIDYALAYA

BILASPUR (C.G.)

(A Central university established by the Central Universities Act, 2009 no. 25 of 2009)



Forwarding Certificate

This is to certify that Mr. Shrijan Kr. Pandey S/O MR. Durga P.d. Pandey is a student of B.Pharm.VIII Semester, of this Institute has submitted his Practice School Report entitled "Bioenzymes" under the supervision of Dr. Mahavir H. Ghante during academic session 2023-24.

I recommended the Practice School Report to be forwarded to the respective examiner for further evaluation.

)

)

)

Forwarded By-

Dr. Bharti Ahirwar

HOD & Professor Dept. Of Pharmacy, GGV

Department of Pharmacy

(A Central University)

Table of contents

S.NO.	CONTENTS	Pg.nc
l.	Introduction	1
II.	Bioenzymes	3
m.	Marketed Products and market insights	7
IV.	Types of enzyme used and puspose	9
V.	Preparation method	13
VI.	Evaluation test	17
VII.	Observations- Evaluation test	19
VIII.	Usage Guidelines	23
IX.	Applications	24
X.	Limitations	25
XI.	Result and conclusion	26
XII.	Scope, opportunity and future challenges	26
XIII.	References	27

A PROJECT WORK ON

"QUALITY CONTROLE ROLE OF PHARMACEUTICAL INDUSTRY"

Submitted for

Partial fulfilment of the requirement for the Award of Bachelor of Pharmacy



Hamil frost my

DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA (A CENTRAL UNIVERSITY)

SESSION - 2023-24

SUPERVISED BY

DR. K P MEENA ASSOCIATE PROFESSOR DEPARTMENT OF PHARMACY GGU. KONI, BILASPUR, (C.G.) SUBMITTED BY

GANESH KUMAR
B. PHARM 8TH SEMESTER
ROLL NO. – 18006014
ENROLLMENT NO.- GGV/18/6235



DEPARTMENT OF PHARMACY

GURU GHASIDAS UNIVERSITY, BILASPUR, C.G.

(A central university, Established by the Central University Act -2009 no.25 of 2009)

Tel.No.-07752-260027, Fax no-07752- 260148

FORWARDING CERTIFICATE

This is to certify that GANESH KUMAR, S/O RAMKHILAWAN KHUNTE. is a student of B. Pharmacy final year (8th semester) in Department of Pharmacy has Submitted his project work entitled "QUALITY CONTROLE ROLE OF PHARMACEUTICAL INDUSTRY" for the Project work with his truly and honestly observed inference during his project work. He has completed his project work under the supervision DR. K P MEENA

I hereby forwarded his project work for pharmacy practice during the academic session 2023-24.

PROF. BHARTI AHIRWAR
HEAD OF DEPARTMENT
DEPARTMENT OF PHARMACY
GURU GHASIDAS VISHWAVIDYALAYA
KONI BILASPUR, (C.G.) 495009

INDEX

S.N	TOPIC
1.	PUBLIC HELTH SAFETY
2.	PHARMACEUTICAL SAFETY
3.	PHARMACEUTICAL GUIDELINE FOR QUALITY CONTROLE
4.	HERBAL DRUG PRODUCTION
5.	ANALYSIS OF LABORATORY TEST
6.	CALIBRATION
7.	GOOD MANUFACTURE PRACTICE
8.	MEDICINE PRODUCTIONS
9.	PHARMACEUTICAL PRODUCTS

DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C. G.)

(A Central university established by the Central University Act, 2009 NO.25 of 2009)

A PROJECT

ON

CLINICAL TRIAL

Submitted For

Fulfilment of the Requirement for the Degree of

Bachelor of Pharmacy

Session: 2023-24



Hamilatory

SUPERVISED BY

Dr. K. Kesavan M. Pharm , Ph.D Asstt. Professor

SUBMITTED BY

Jemin Kujur
B. Pharm VIII Sem
Enroll No. – GGV/19/6268
Roll No. - 19006628



DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)

(A Central University, Established Under the Central University, Ordinance, Na 3. Of 2009)
Tel: +91-7752-260027 (0): +91-8827989653 (Mob): Fax: +91-7752-260148

FORWARDING CERTIFICATE

This is to certify that Miss Jemin Kujur D/o. Mr. B.J.Kujur, student of B. Pharm VIII Sem in Department of Pharmacy has submitted her project work entitled "CLINICAL TRIAL" for the project work with her truly and honesty observed inference during her project work. She has completed her project work under the supervision of Dr. K. Kesavan (Assistant Professor). Her work is original, satisfactory and is not submitted anywhere else for the award of any degree.

I hereby forward her project work for the academic session 2023-24.

FORWARDED BY

Dr. Bharti Ahirwar

(HOD)

Department of Pharmacy GGV, Bilaspur (C. G.)

Head

Department of Pharmacy
Guru Ghasidas Vishwavidyałaya
(A Central University)
Bilaspur (C.G.)

-3

S.	Contents	Page No.
No.		5/2
1.	Introduction	1-2
2.	Types of clinical trial	2-4
3.	Phases of clinical trial	4-9
4.	Development of clinical trial protocols	9-14
5.	Institutional review board	14-18
6.	GCP obligations of investigators, sponosers, and monitors	18-28
7.	Pharmacovigilance-safety monitoring in clinical trials	28-30
8.	Conclusion	30-31
9.	References	32-33

PROJECT

The state of the s

"ARTIFICIAL INTELLIGENCE IN DRUG DISCOVERY AND DEVELOPMENT"

Submitted for

Partial fulltime of the requirement for the award of degree of

BACHELOR OF PHARMACY

Session 2023-2024



Maril Mindly

Supervised by:

Dr. Meenakshi Jaiswal

(Assistant Professor)

GGV Bilaspur (C.G.)

Submitted by:

Ekta Rathore

B.Pharm. 8rd Sem.

Roll No.: 19008815

Enrolment No.: GGV/19/6256

Department of Pharmacy, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)



Department Of Pharmacy

Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

(A central I riversity Listablished by the Central University Act 2009 No. 25 of 2009)

Tel.:07752-260027 (O); 98271-50112 (R), fax; 07752-260148

FORWARDING CERTIFICATE

This is to certify that Ekta Rathore D/O Mr. Narendra Kumar Rathore is a student of B. Pharm. 8th semester in Department of Pharmacy, Guru Ghasidas Vishwavidyalaya, Bilaspur has submitted her project report entitled "Artificial Intelligence in drug discovery and development" for the partial fulfilment of the requirement for the Degree of Bachelor of Pharmacy. She has submitted her project report under the supervision of Dr. Meenakshi Jaiswal (Assistant Professor). Her work is Original, Satisfactory and is not submitted anywhere else for the award of

I here recommended forwarding her project report for the final-Year project work in B. Pharmacy during the academic session 2023-2024.

HHOD

Department of Pharmacy
Guru Ghasidas Vishwavidyalaya
(A Central University)

Bilaspur (C.G.)

<u>INDEX</u>

CONTENT	PAGE NO.
Introduction to AI	1
Classification of AI	2-3
AI in pharmaceutical industries	4-6
Drug discovery and development process	7-8
AI in drug development process	9-10
Applications of AI in drug development process	11-13
Current uses of AI in drug development	14
Problem faced with AI drug development	15
Ethical issues related to AI in drug development	16
References	17-19

A PROJECT REPORT

"CLINICAL TRIALS"

Submitted for
Partial Fulfilment of the Requirement for the Award of
Bachelor of Pharmacy



Harril Hospan

DEPARTMENT OF PHARMACY,

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)

Session: 2023-24

SUPERVISED BY-

DR. SHIVANI RAI PALIWAL

M. Pharm., PhD, Post Doc.

Assistant Professor

Department Of Pharmacy

SUBMITTED BY-

SIMONE MUKHERJEE

B. Pharm (Final Year)

Roll No-19008858

Enrollment No-GGV/19/6356



DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR, C.G.

(A Central University, Established by the Central University Act -2009 no.25 of 2009)

Tel.No.-07752-260027, Fax no-07752- 260148

FORWARDING CERTIFICATE

This is to certify that Miss Simone Mukherjee is a student of B. Pharm final year (8th Semester) in Department of Pharmacy has submitted her project work entitled "Clinical Trials" for the pharmacy practice with her truly and honestly observed inference during her project work. She has completed her project work under the supervision of Dr. Shivani Rai Paliwal (Assistant professor).

I hereby forwarded her project work for pharmacy practice during the academic session 2023-24.

Forwarded by:

PROF. BHARTI AHIRWAR

Head of Department

Department of Pharmacy

GGV, Bilaspur (C. G.)

Head

Department of Pharmacy
Guru Ghasidas Vishwavidyalaya
(A Central University)
Bilaspur (C.G.)

Company of the State of State
10
10
10
)-11
2-13 1 1 1 1 1 1 1 1 1
3-16
7-19
)-21
1-24
5

A

Project Report

on

"INVERSE DOCKING IN VIRTUAL SCREENING"

Submitted in Partial fulfilment of the requirement of the Award of the degree

Bachelor of pharmacy



Session 2023-24

Supervised by

Sanjana Jaiswal
B. Pharm (8th Semester)
Roll No: 19008862
Enrollment No.-GGV/19/6342

Submitted by

Dr. Partha Pratim Roy (Asstt. Professor) Department of Pharmacy, Guru Ghasidas Vishwavidyalaya

DEPARTMENT OF PHARMACY,
GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)



DEPARTMENT OF PHARMACY GURU GHASIDAS UNIVERSITY, BILASPUR, C.G.

(A Central University, Established by the Central University Act 2009 no.25 of 2009)

Tell. No. - 07752-260027, Fax No. - 07752-260148

FORWARDING CERTIFICATE

This is to certify that Sanjana Jaiswal D/O Ashwani Kumar Jaiswal is a student of B. Pharmacy Final Year (8th semester) in Department of Pharmacy has submitted her project work entitled "Inverse Docking In Virtual Screening" for the project report in pharmacy with her truly and honestly observed inference during her project work. She has completed her project work under the supervision of Dr. Partha Pratim Roy (Asstt. Professor) Department of Pharmacy.

I hereby forwarded her project work for pharmacy practice during the academic session 2023-24.

Forwarded by

Professor and Head of Department of Pharmacy

(Professor and Head of Department of Pharmacy

Guru Ghasidas

(A Central University)

Bilaspur (C.G.)

S.NO.	CONTENTS	PAGE NO.
1	INTRODUCTION	01
2	VIRTUAL SCREENING	02
3	DOCKING	03
4	INVERSE DOCKING IN VIRTUAL SCREENING	04-09
5	APPLICATIONS	10-14
6	BENCHMARK DATASETS	15
7	CONCLUSION AND FUTURE WORK	16
8	REFERENCES	17-18

A

PROJECT REPORT

"PHARMACOVIGILANCE STUDY"

BACHELOR OF PHARMACY



DEPARTMENT OF PHARMACY

GURU GHASIDAS VISHWAVIDYALAYA

BILASPUR, C.G

(A CENTRAL UNIVERSITY)

SESSION: 2023-2024

SUPERVISED BY

DR.PRADEEP KUMAR SAMAL

ASSISTANT PROFESSOR(PHARMACOLOGY)

SUBMITTED BY

RAHIMA MALLICK

B.PHARM(8th sem)

ROLL NO-21081077

GGV/21/06002

FORWARDING CERTIFICATE

This is to certify that Rahima Mallick D/O is a student of B Pharmacy final year (8th semester) of this department has completed his Project work in the title of "PHARMACOVIGILANCE STUDY" in the supervision of Dr. PradeepKumar Samal Assistant professor (Pharmacology) during academic session 2023-2024.

I recommended the project report to be forwarded to the respective examiner for evaluation purpose.

PROF.BHARTI AHIRWAR

(Head of the department)

Department of Pharmacy

Gum Ghasidas Vishwavidyalaya

(A Central University)

Gilaspur (C.G.)

Serial no.	Topic		Page no.
1.	Introduction		01-03
2	History		04-06
3.	Pharmacovigilance r	needs and	07-10
4.	Pharmacovigilance n	nethods	10-14
5.	Signal detection in p		14-18
6.	PVPI(pharmacovigil india)		18-22
7.	Scope in pharmacovi	gilance	22
8.	Roles and responsibility pharmacovigilance		23
1	Carrier opportunity	in the section of the	23-25
	pharmacovigilance		4 4 9 = =
10.	Conclusions		27
11.	References	maniferation of the second	28-29

A PROJECT REPORT ON

"IMPORTANCE OF FLAVONOIDS IN DAILY LIFE"

Submitted for

Fulfilment of the Requirement for the Award of

Bachelor of Pharmacy



2023-2024

Hamil for 18/24

SUPERVISED BY

PROF. BHARTI AHIRWAR

DEPT. OF PHARMACY

SUBMITTED BY

ADITYA SHUKLA

B.PHARM (FINAL YEAR)

DEPARTMENT OF PHARMACY
GURU GHASIDAS VISHWAVIDYALA, BILASPUR (C.G.)

DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)

Tel. No. 07752-260027; Fax No. 07752-260148

FORWARDING CERTIFICATE

This is to certify that Aditya Shukla S/O Yogesh Shukla is a student of B. Pharmacy Final year (8th sem.), in Department of Pharmacy, Guru Ghasidas Vishwavidyalaya, Bilaspur has completed his Project Work on "Importance of Flavonoids in Daily Life" under guidance of Prof. Bharti Ahirwar, during academic session 2023-2024.

I recommended the project report to be forwarded to the respective examiners for further evaluation.

PROF. BHARTI AHIRWAR

Head of the Department

Department of Pharmacy

Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

S.NO	CONTENTS	PAGE NO.
01	Introduction	1-2
02	Classification	3-11
03	Effects of Flavonoids in Human Health	11-22
04	Conclusion	23
07	References	24-26

A PROJECT REPORT ON

" ICH GUIDELINES FOR PHARMACOVIGILANCE"

SUBMITTED FOR PROJECT REPORT

BACHELOR OF PHARMACY

Session - 2023-24



Hamilotos Try

GUIDED BY

Dr. Manoj Kumar M.Pharm, PhD SUBMITTED BY

Danish Ahmad Khan B.Pharm VIII Sem

Department of Pharmacy

Guru Ghasidas Vishwavidyalaya, Bilaspur(C.G.)

(A Central university established by the Central Universities Act, 2009 no of .2009)



DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR(C.G.)

(A Central university established by the Central Universities Act, 2009 no of .2009)

FORWARDING CERTIFICATE

This is to certify that Danish Ahmad Khan S/O-Ghulam Nabi Khan is a student of B.Pharm final Semester of this department has submitted his Project Work Report entitled "ICH Guidelines for Pharmacovigilance" under the supervision of Dr. Manoj Kumar during academic session 2023 - 24.

I recommended the Project Work Report to be forwarded to the respective examiner for further evaluation.

FORWARDED BY

Dr. Bharti Ahirwar (Head of Department) Department of Pharmacy

Head
Department of Pharmacy
Guru Ghasidas Vishwavidyalaya
(A Central University)
Dilaspur (C.G.)

S. No.	content	Page No.
1.	Introduction to pharmacovigilance	1-3
2.	Overview to ICH Guidelines for Pharmacovigilance	3-5
3.	Expedited reporting	5-6
4.	Individual Case Safety Reporting (ICSR)	6-10
5.	Periodic Safety Update Reporting (PSUR)	10-13
6.	Post approval expedited reporting	13-16
7.	Pharmacovigilance planning	16-20
8.	Good Clinical Practice in Pharmacovigilance	20-24
9.	Responsibility of IRB and IRC Committes	25-26
10.	Conclusion	26
11.	References	27

OMICS IN PRECISION MEDICINES GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR. CHHATTISGARH

(A Central University)

Practice school work

in

DEPARTMENT OF PHARMACY

(School Of Natural Resources)



Session 2023-24

Hamiltostry

By

MANILAL

B. Pharm 8th Semester

Under the supervision

DR. ANJAY KUMAR BHARTI

Assistant Professor

Department Of Pharmacy

GURU GHASIDAS VISHWAVIDYALAYA

(A Central University Established by The Central University Act 2009)
Bilaspur-495009, Chhattisgarh



(Session 2023-24)

FORWARDING-CERTIFICATE

This is to certify that Manilal s/o has submitted his Practise School Report entitled "Omics in Precision Medicines" in the supervision of Dr. Sanjay Kumar Bharti Assistant Professor, during academic session 2023-24.

I recommended the Practice School to the respective examiner for evaluation.

Forwarded By

DR. BHARATI AHIRWAR

(Head of Department)

Department Of Pharmacy

GGV, Bilaspur (C.G)

GURU GHASIDAS VISHWAVIDYALAYA

(A Central University Established by The Central University Act 2009)
Bilaspur-495009, Chhattisgarh

S.no.	Content	Page no
1	Introduction	01
2	Omics technology	04
3	Omics and biomarkers	16
4	Perspective, challenges in translation	20
5	Paradigm shift in IEM investigation	22
6	Conclusion	23
7	References	24

GURU GHASIDAS VISHWAVIDYALAYA

(A Central University Established by The Central University Act 2009)
Bilaspur-495009, Chhattisgarh

A PROJECT REPORT ON

"Health Benefits of Dietary Fibres in Medicinal Plants"

Submitted for

Partial fulfilment of the Requirement for the Award of

Bachelor of Pharmacy



Hamiston

2023-2024

SUPERVISED BY

>

77777

77777

PROF. BHARTI AHIRWAR

DEPT. OF PHARMACY

SUBMITTED BY

NEELESH KULMITRA

B. PHARM (FINAL YEAR)

DEPARTMENT OF PHARMACY
GURU GHASIDAS VISHWAVIDYALA, BILASPUR (C.G.)

DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR(C.G.)

Tel. No. 07752-260027; Fax No. 07752-260148

FORWARDING CERTIFICATE

This is to certify that Neelesh Kumar Kulmitra S/O Sanat Kumar is a student of B. Pharmacy Final year (8th sem.), in Department of Pharmacy, Guru Ghasidas Vishwavidyalaya Bilaspur has completed his Project Work on "Health Benefits of Dietary Fibres in Medicinal Plants" under guidance of Prof. Bharti Ahirwar, during academic session 2023-2024.

I recommended the project work to be forwarded to the respective examiners for further evaluation.

Prof. Bharti Ahirwar

222222222222222

Head of the Department

Department of Pharmacy

Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)

Head

Department of Pharmacy
Guru Ghasidas Vishwavidyalaya
(A Central University)

N

S.NO.	CONTENTS	PAGE NO.
01	Introduction	1
02	Classification of dietary fibre	2
03	Physicochemical properties of dietary fibre	5
04	Method analysis of dietary fibre	7
05	Therapeutic function of dietary fibre	7
06	Benefits of dietary fibre	8
07	Source of dietary fibre	9
08	Conclusion	21
09	References	23

"MARKETING AND RESEARCH ASPECTS OF SUN PHARMA"

A Project report submitted

In partial fulfillment of the requirements for the award of degree of

BACHELOR OF PHARMACY

Submitted by

Raginee Ratre

Enrollment No: GGV/20/06050

Hamilto 124

Under the Supervision of

Dr. Sunil K. Jain

(Associate Professor)



DEPARTMENT OF PHARMACY, GURU GHASIDAS VISHWAVIDYALAYA
BILASPUR (CG) – 495009, INDIA



DEPARTMENT OF PHARMACY GURU GHASIDAS UNIVERSITY, BILASPUR, C.G.

(A central university, Established by the Central University Act -2009 no.25 of 2009)

Tel.No.-07752-260027, Fax no-07752- 260148

FORWARDING CERTIFICATE

This is to certify that Miss Raginee Ratre, D/O Mr. Krishna Ratre student of B. Pharm (VIIIth Sem.) in Department of Pharmacy, has submitted her project work entitled "Marketing and research aspects of Sun Pharma" for the Project report. She has completed her Project work under the supervision of Dr. Sunil K. Jain (Associate Professor). The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree or diploma.

I hereby forward her project work for the Project report during the academic session 2023-24.

HOD, Department of Pharmacy,

GGV, Bilaspur (CG), India

Head

Department of Pharmacy
Guru Ghasidas Vishwavidyelaya
(A Central University)
Bilaspur (C.G.)

	CONTENT	PAGE NO
01	INTRODUCTION	01
02	HISTORY OF SUN PHARMA	01-04
03	MEDICINE CATEGORY	04-05
04	MISSION, VISION & VALUES	05-08
05	BOARD OF DIRECTORS & LEADERSHIP TEAM	08-13
06	MANUFACTURING FACILITIES & CAPABILITIES	13-17
07	MARKETING STRATEGY OF SUN PHARMA	18-20
08	STRONG INTELLECTUAL PROPERTY	20-21
09	TECHNOLOGY, R&D AND QUALITY MANAGEMENT SYSTEMS	21-26
10	AWARDS	26-27
11	LIST OF MEDICINE BY SUN PHARMA	27-38
12	KEY MILESTONES	38-39
13	CONCLUSION	39
14	REFERENCES	40

PROJECT REPORT

"ICH GUIEDELINES FOR PHRMACOVIGILANCE"

SUBMITTED FOR PROJECT REPORT

BACHELOR OF PHARMACY

Session - 2023-24



Manifestory

GUIDED BY Dr. Manoj Kumar M.Pharm, PhD SUBMITTED BY Rakhi Lal B.Pharm VIII Sem

Department of Pharmacy

Guru Ghasidas Vishwavidyalaya, Bilaspur(C.G.)

(A Central university established by the Central Universities Act, 2009no of .2009)



DEPARTMENT OF PHARMACY GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR(C.G.)

(A Central university established by the Central Universities Act, 2009no of .2009)

FORWARDING CERTIFICATE

This is to certify that Rakhi Lal S/O Mr. Ramnath is a student of B.Pharm final Semester of this department has submitted his Project Work Report entitled "ICH Guidelines for Pharmacovigilance" under the supervision of Dr. Manoj Kumar during academic session 2023 - 24.

I recommended the Project Work Report to be forwarded to the respective examiner for further evaluation.

FORWARDED BY

Dr. Bharti Ahirwar (Head of Department) Department of Pharmacy

Head

Department of Pharmacy
Sirru Ghasidas Vishwavidyalay

(A Central University)

Rilaspur (C.G.)

Date:

R.NO.	IV II	CONTENTS	PAGE NO
1.	INTRODUCTION		1-7
i i	Need for Harmo	onisation	3
	Objectives of IC		3-4
	Organisation of	ICH	4-5
	ICH Members		5-7
2.	EXPEDITED REPORT		7
3.		SAFETY REPORTS (ICSR)	7-9
4.		JPDATE REPORTS (PSUR)	9-12
5.	POST-APPROVAL EX	KPEDITED REPORTING	14-15
	Unsolicited Sou	rce	14-15
	Solicited Source		15
6.	PHARMACOVIGILA		15-20
7.	GOOD CLINICAL PR PHARMACOVIGILAT	20-23	
8.	PARTICIPANTS OF C	OP IN CLINICAL TRIALS	24
9.	RESPONSIBILITIES (F IRB AND IEC COMMITTEES	24-25
10.	CONCLUSION		1,000,000,000,000
11.	REFERENCES	THE STATE OF THE S	25
			26

of the start of region was not the so were an against their perference and the first hand.

all the sense of the sense of the contributions

A

Practice school project report on

National Regulatory authority of India - CDSCO

For the award of BACHELOR OF PHARMACY session 2023 – 2024



Hamilet 24

Supervised by:

Dr Alpana Ram M.pharm, Phd professor Submitted by:

Siddhant Singh

B - Pharm 8th semester

Department of pharmacy
Guru Ghasidas Vishwavidyalaya

FORWARDING CERTIFICATE

This is to certify that SIDDHANT SINGH BANAFER has carried out this project work in the Department of Pharmacy, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur (C.G.) on the topic "A project report on National regulatory authority of India - CDSCO ". This project is submitted for the partial fulfillment of requirements for the degree of Bachelor of Pharmacy. He has submitted her project under the supervision of Dr. Alpana ram (Professor). His work is satisfactory and is not submitted anywhere else for the award of any degree.

I wish every success in his life.

Date:

FORWARDED BY:

Head of Department Head

Department Of Pharmacy

Guru Ghasidas Vishwavidyalaya

G.G.V. Bilaspur (C.G.)

CONTENTS

		001	
			Pg. No.
CHAPTER	1- Int	roduction	(1-4)
	1.1- 1.2-	Description Different CDSCO offices in India	
CHAPTER	2-Fur	ntions of CDSCO	(5-9)
	2.1-	Approval of new drugs	
	2.2 -	Clinical trails	
	2.3 -	Schedules	
	2.4 -	About import and registration	
CHAPTER	3 -Act	s and rules by CDSCO	(10-43)
		The Drugs and Cosmetics act 1940	
	3.2 -	The Drug rules 1945	
	3.3 -	The new drugs and clinical trails rules	2019
CHAPTER-	4 Conc	elusion	(44)
CHAPTER-	5 Refe	rences	(45)

A

PROJECT REPORT

ON

"IN-SILICO DESIGN AND ADMET STUDY OF NEWER REPAGLINIDE

ANALOGUES AS ANTI-DIABETIC AGENTS"

Submitted for Partial fulfilment of the requirement for the Award of the degree of

Bachelor of Pharmacy



Haril Hot 124

Session: 2023-24

SUPERVISED BY Dr. Sanmati Kumar Jain (Professor) SUBMITTED BY Somi Sahu

B. PHARM (8th Semester)

DEPARTMENT OF PHARMACY,
GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G.)

(A Central University established by the Central Universities Act 2009 No. 25 of 2009)



DEPARTMENT OF PHARMACY

GURU GHASIDAS UNIVERSITY, BILASPUR, (C.G.)

(A Central University, Katabilished by the Central Environtity Act 2009 as 25 of 2009) Tell. No. - (17752-244)27, Fax No. - (17752-24)148

FORWARDING CERTIFICATE

This is to certify that Ms. Somi Sahu D/O Shri T.L. Sahu is a student of B. Pharm.(8th semester) Department of Pharmacy has submitted her Project Work entitled "IN-SILICO DESIGN AND ADMET STUDY OF NEWER REPAGLINIDE ANALOGUES AS ANTI-DIABETIC AGENT\$" for the Project with her truly and honestly observed inference during the work. She was completed her Project Work under the supervision of Dr. Sanmati Kumar Jain (Professor), Division of Pharmaceutical Chemistry.

I hereby forward her Project Work for Partial fulfilment of the requirement for the Award of the degree of B. Pharm, during the academic session 2023-24.

Forwarded by

Ilr. Bharti Ahirwar

(Professor & Head of Department)

Department of Pharmacy uru Ghasidas Vizhwavidyalaya (A Central University) Ellaspur (C.G.)

	IND	INDEX				
S.No.	CONTENT	PAGE NO.				
1	Introduction	01				
2	Types Of Diabetes	03				
3	Causes Of Diabetes	04				
4	Symptoms	. 05				
5	Complications	05				
6	Treatment And Management	06				
7	Designing And ADMET Study of I Using Bioisosteric Approach	Repaglinide Analogues 07				
3	Conclusion	45				
)	References	. 46				

"MARKETING AND RESEARCH ASPECTS OF SUN PHARMA"

A Project report submitted

In partial fulfillment of the requirements for the award of degree of

BACHELOR OF PHARMACY

Submitted by

Vivek Painkra

Enrollment No: GGV/20/06050

Under the Supervision of

Dr. Sunil K. Jain

(Associate Professor)



DEPARTMENT OF PHARMACY, GURU GHASIDAS VISHWAVIDYALAYA BILASPUR (CG) – 495009, INDIA



DEPARTMENT OF PHARMACY GURU GHASIDAS UNIVERSITY, BILASPUR, C.G.

(A central university, Established by the Central University Act -2009 no.25 of 2009)

Tel.No.-07752-260027, Fax no-07752- 260148

FORWARDING CERTIFICATE

This is to certify that Mr. Vivek Painkra, D/O Mr. Pankaj Painkra of B. Pharm (WIIth Sem.) in Department of Pharmacy, has submitted her project work entitled "Marketing and research aspects of Sun Pharma" for the Project report. She has completed her Project work under the supervision of Dr. Sunil K. Jain (Associate Professor). The contents of this report, in full or in parts, have not been submitted to any other Institution or University for the award of any degree or diploma.

I hereby forward her project work for the Project report during the academic session 2023-24.

Forwarded by Dr. Bharti Ahirwar

Professor

Head Of Department

Department of Pharmacy

	CONTENT	PAGE NO
01	INTRODUCTION	02
02	HISTORY OF SUN PHARMA	02-04
03	MEDICINE CATEGORY	04-05
04	MISSION, VISION & VALUES	05-08
05	BOARD OF DIRECTORS & LEADERSHIP TEAM	08-13
06	MANUFACTURING FACILITIES & CAPABILITIES	13-17
07	MARKETING STRATEGY OF SUN PHARMA	18-20
08	STRONG INTELLECTUAL PROPERTY	20-21
09	TECHNOLOGY, R&D AND QUALITY MANAGEMENT SYSTEMS	21-26
10	AWARDS	26-27
11	LIST OF MEDICINE BY SUN PHARMA	27-38
12	KEY MILESTONES	38-39
13	CONCLUSION	39
14	REFERENCES	40

Semester VIII

Course code	Name of the course	Internal Assessment				End Semester Exams		Total		
		Continuous Sessional Exams		Total	Marks	Duration	Marks			
		Mode	Marks	Duration	า บเลา	Marks	Duration	Maiks		
BP801T	Biostatistics and Research Methodology – Theory	10	15	1 Hr	25	75	3 Hrs	100		
BP802T	Social and Preventive Pharmacy – Theory	10	15	1 Hr	25	75	3 Hrs	100		
BP803ET	Pharmaceutical Marketing – Theory	10 + 10 = 20								
BP804ET	Pharmaceutical Regulatory Science – Theory									
BP805ET	Pharmacovigilance – Theory			1+1=	25 + 25 =	75 + 75	3+3=6	100 +		
BP806ET	Quality Control and Standardization of Herbals – Theory									
BP807ET	Computer Aided Drug Design – Theory		= 20	30	2 Hrs	50	= 150	Hrs	100 = 200	
BP808ET	Cell and Molecular Biology – Theory									
BP809ET	Cosmetic Science – Theory									
BP810ET	Experimental Pharmacology – Theory									
BP811ET	Advanced Instrumentation Techniques – Theory									
BP812PW	Project Work	-	-	-	-	150	4 Hrs	15 ₀		

·					i .		
Total	40	60	4 Hrs	100	450	16 Hrs	550