



स्व० श्री मदन मोहन उपाध्याय स्वतंत्रता संग्राम सेनानी
राजकीय स्नातकोत्तर महाविद्यालय द्वाराहाट (अल्मोड़ा), उत्तराखंड -263653
Government Post Graduate College Dwarahat (Almora)
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**SEMESTER IV Paper V
(Elective Paper Organic chemistry)**

Page 34 of 48

1. Subject Code : CHPG40O(a) Course Title: M.Sc.
2. Subject Area : Organic Synthesis-4
3. Course Hour Lecture : L 48 T:10 P:60
4. Exam Time Theory:3 hours Practical : 8 hours
5. Relative weightage Theory: 80 Practical :20
6. Credits :
7. Pre requisite : Knowledge of oxidation, redaxation and properties of C-C bonds.
8. Objective of Course : Students should have the knowledge of
 - Oxidation and reduction process.
 - Organo metallic regents and ring synthesis.
 - C-C Disconnection one and two group.
 - Metallocenes

**SEMESTER IV Paper VI
(Elective Paper Organic chemistry)**

1. Subject Code : CHPG40O(b) Course Title: M.Sc.
2. Subject Area : Chemistry of Natural Products and Heterocyclic Compounds-4
3. Course Hour Lecture : L 48 T:10 P:60
4. Exam Time Theory:3 hours Practical : 8 hours
5. Relative weightage Theory: 80 Practical :20
6. Credits :
7. Pre requisite : Knowledge of organic compounds present in natural products
8. Objective of Course : Students should have the knowledge of
 - Classification, nomenclature of Alkaloids, terpenoids and steroids
 - Occurrence and general aspects of Pigments/ porphyrins and PGE2
 - Heterocyclics three and four membered rings.
 - Spectroscopic techniques for elucidation of natural products

PROJECT WORK

In the IV Semester the candidate shall have to do a Project. The topic of the project shall be allotted to him/her by the Project Supervisor. The submission of the project shall be mandatory for each candidate and he/she will have to submit the project/dissertation not later than the date of his/her practical examination.



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List of Research Dissertation in M.Sc IV Semester

S.No	ROLL No.	NAME	TOPIC	Supervisor Name
1	2114310002	Ankit Kumar	Rutien growth, characterization and application of transition metal based oxide nanoparticles	Dr. Prakash Chandra
2	2114310003	Rahul Kohli	Rutien synthesis, characterization and application of metal hexacyanoferrates nanoparticles	Dr. Prakash Chandra
3	2114310001	Neeraj Singh	An updated synthesis, characterization and application of some transition metal hexacyanoferrates nanoparticles	Dr. Prakash Chandra
4	2114310004	Bhanupriya Negi	Current Knowledge about phytochemistry biological activity of <i>Mentha spicata</i>	Dr. Darshan S. Kamboj
5	2114310005	Priya Upadhyay	Terpenoid composition of <i>Laurus nobilis</i>	Dr. Darshan S. Kamboj
6	2114310006	Sandhya Sail	<i>Zanthoxylum armatum</i> concise view phytochemistry biological importance further apportunities in India	Dr. Darshan S. Kamboj

External Examiner

Prof. G.C. Shah
(HOD)
Department of Chemistry
SSJ Campus Almora



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**RUTIIEN SYNTHESIS, CHARACTERIZATION AND
APPLICATION OF METAL HEXACYANOFERRATES
NANOPARTICLES**



A Dissertation
Submitted to
Govt. P.G. College Dwarahat, Almora
(Uttarakhand)
Session-2023- 2024

Submitted by
RAHUL KOHLI
M.Sc. (IV Sem.) Student
Roll Number- 2214310003
(Enrolment No-SSJUPS2214310003)
Govt. P.G. College Dwarahat, Almora

Supervised by
DR. PRAKASH CHANDRA
Assistant Professor
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**RUTIIEN GROWTH, CHARACTERIZATION AND
APPLICATION OF TRANSITION METAL BASED OXIDE
NANOPARTICLES**



**Dissertation
Submitted to
Govt. P.G. College Dwarahat, Almora
(Uttarakhand)
Session-2023- 2024**

Submitted by

ANKIT KUMAR
M.Sc. (IV Sem.) Student
Roll Number- 2214310002
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Zanthoxylem armatum : CONCISE VIEW ON
PHYTOCHEMISTRY, BIOLOGICAL IMPORTANCE
AND FURTHER OPPORTUNITIES IN INDIA

A DISSERTATION

SUBMITTED TO THE DEPARTMENT OF CHEMISTRY



**GOVERNMENT POST GRADUATE COLLEGE
DWARAHAT**



SOBAN SINGH JEENA UNIVERSITY ALMORA

IN PARTIAL FULFILMENT OF THE REQUIREMENTS

FOR THE DEGREE OF MASTERS IN SCIENCES

IN CHEMISTRY - 2024

SUPERVISED BY

DR. DARSHAN SINGH
ASSISTANT PROFESSOR & HEAD
GOVERNMENT POST GRADUATE
COLLEGE, DWARAHAT

SUBMITTED BY

SANDHYA SHAIL
MASTER'S STUDENT
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CURRENT KNOWLEDGE ABOUT PHYTO CHEMISTRY AND
BIOLOGICAL ACTIVITIES OF *Mentha spicata*

A DISSERTATION

SUBMITTED TO THE DEPARTMENT OF CHEMISTRY



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