

### **1.3.3 Percentage of students undertaking project work/field work/internship**

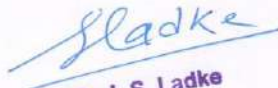
**1.3.3 Percentage of students undertaking project work/field work/internship (Data for the latest completed academic year 2023-2024)**

Program name	Program code	List of students undertaking project work/field work/internship	Link to the relevant document
B.Sc. Botany Zoology Chemistry Physics Mathematics Microbiology Computer Science	-	<ol style="list-style-type: none"> <li>1. Andraskar Ritika D.</li> <li>2. Bhoskar Krutika B.</li> <li>3. Bodhale Aniket M.</li> <li>4. Bosewar Divya V.</li> <li>5. Chaudhari Nitika G.</li> <li>6. Chopkar Vaishnavi R.</li> <li>7. Darve Shravani V.</li> <li>8. Das Riya R.</li> <li>9. Dhoke Sakshi V.</li> <li>10. Durge Mansi S.</li> <li>11. Gajbhar Bharti N.</li> <li>12. Gaurkar Devyani P.</li> <li>13. Gaykwad Arpita S.</li> <li>14. Helwate Pragati S.</li> <li>15. Kadukar Madhavi B.</li> <li>16. Karmenge Shrutik A.</li> <li>17. Kumar Shaloni A.</li> <li>18. Maggidwar Shraddha R.</li> <li>19. Mandhare Anjali S.</li> <li>20. Manusmare Parikshit W.</li> <li>21. Marapelli Yamini K.</li> <li>22. Nagose Dhanshree G.</li> <li>23. Nagpure Mayur V.</li> <li>24. Nandurkar Achal S.</li> <li>25. Nehare Kartik A.</li> <li>26. Pathan Gudiya Jalil K.</li> <li>27. Pathan K. Ahemad K.</li> <li>28. Pathan Nilofar L.</li> <li>29. Ragamwar Sapna B.</li> <li>30. Ram Amrita R.</li> <li>31. Rode Shreyas P.</li> <li>32. Ruyarkar Achal V.</li> <li>33. Sharma Shrasti U.</li> <li>34. Sharma Vidhi A.</li> <li>35. Sheikh Saniya H.</li> <li>36. Singh Sandip S.</li> <li>37. Tandulkar Vaishnavi B.</li> <li>38. Tekam Pranali K.</li> <li>39. Thengane Shruti S.</li> <li>40. Upase Kanchan M.</li> <li>41. Vidhate Sonam D.</li> <li>42. Wabhikar Prachi D.</li> <li>43. Warhade Yash S.</li> <li>44. Zade Chaitali R.</li> </ol>	

M.Sc. Botany Sem II (NEP)	-	1. Rutika A. Fulmali 2. Sharad M. Kolhe 3. Vishal V. Dewalkar 4. Tushar S. Dhande 5. Shradha B. Lonbale 6. Ganesh S. Khiratkar	7.
M.Sc. Botany Sem IV(CBCS)	-	1. Divya D. Pazare 2. Kalyani A. Nandapur 3. Komal S. Bodhe 4. Sakshi R. Bandurkar 5. Farhan Y. Sheikh	6.
M.Sc. Zoology Sem II(NEP)	-	1. Mayuri Raut 2. Prachi Haste 3. Pratiksha Bandurkar 4. Pranita Burande 5. Shubham Zade 6. Namrata Lengure 7. Pragati Meshram 8. Pratham Patrange	9.
M.Sc. Zoology Sem IV (CBCS)	-	1. Kalyani Donge 2. Sunal Patrange 3. Nutan Korde 4. Mayur Gaurkar 5. Ashwini Madavi 6. Vidya Kamble 7. Pooja Nibrad 8. Sneha Ramteke 9. Shurtika Kumre	10.
M.Sc. Chemistry Sem IV (CBCS)	-	1. Parikshita C. Kakde 2. Pratiksha H. Zade 3. Pratiksha S. Chamatkar 4. Nikita P. Kamatkar 5. Surbhi k. Bora	6.
M.Sc. Physics Sem II (NEP)		1. Ms. Mayuri D. Bodhe 2. Ms. Pallavi S. Kale 3. Ms. Akansha P. Gatlewar 4. Mr. Atif S. Sheikh	9.

		5. Ms. Rajashree S. Dixit 6. Ms. Punam K. Ambekar 7. Ms. Nikita V. Jambhulkar 8. Ms. Gitika K. Durge	
M.Sc. Physics Sem IV (CBCS)	-	1. Ms. Pallavi D. Turankar	2.
B.A. History	-	1. Balki Vaishali P. 2. Battalwar Shankar R. 3. Borkute Pratham K. 4. Danao Pornima N. 5. Deshmukh Rupesh B. 6. Fale Nikhil E. 7. Gedam Sakshi P. 8. Gowardipe Karishma S. 9. Kadam Vishal M. 10. Kamatwar Yash R. 11. Meshram Yogita N. 12. Nakshine Dushala R. 13. Pidurkar Yogeshri B. 14. Raut Arti D. 15. Sonwane Roshan P.	16.
B.A. Geography	-	1. Balki Vaishali P. 2. Battalwar Shankar R. 3. Borkute Pratham K. 4. Danao Pornima N. 5. Deshmukh Rupesh B. 6. Fale Nikhil E. 7. Gedam Sakshi P. 8. Gowardipe Karishma S. 9. Kadam Vishal M. 10. Kamatwar Yash R. 11. Meshram Yogita N. 12. Nakshine Dushala R. 13. Pidurkar Yogeshri B.	16.

		14. Raut Arti D. 15. Sonwane Roshan P.	
B.A. Sociology	-	1. Balki Vaishali P. 2. Battalwar Shankar R. 3. Borkute Pratham K. 4. Danao Pornima N. 5. Deshmukh Rupesh B. 6. Fale Nikhil E. 7. Gedam Sakshi P. 8. Gowardipe Karishma S. 9. Kadam Vishal M. 10. Kamatwar Yash R. 11. Meshram Yogita N. 12. Nakshine Dushala R. 13. Pidurkar Yogeshri B. 14. Raut Arti D. 15. Sonwane Roshan P.	16.

  
**Dr. L.S. Ladke**  
PRINCIPAL  
N.S. Science & Arts College  
Bhadrawati, Dist-Chandrapur

## Field Visit – Zoology

प्रति,

भा. प्रभवाथि सर,  
निकंकेश्वर शिंदे विद्यालय व कला महाविद्यालय,  
भद्रावली: जि.-चंद्रपुर.

विषय - "राष्ट्रीय कव्यजीव सप्ताह" निमित्त पक्षी निरीक्षणाकरीता  
जाव्याची परवानगी मिळव्यावेल.

महोदय

उपरोक्त विषयाच्या अंतर्भागे आपणास मिळेली आहे  
की दिनांक 01 ऑक्टोबर 2023 ते 06 ऑक्टोबर 2023 हा सप्ताह  
"राष्ट्रीय कव्यजीव सप्ताह" म्हणून साजरा करण्यात येतो. व्यापार  
प्रतिष्ठा विषयाच्या भाग-1 च्या विद्यार्थ्यांना आपल्या  
महाविद्यालयाच्या परिसरात पक्षी निरीक्षण कार्यक्रमाचे आयोजन  
केले आहे वरी आपण पक्षी निरीक्षणाला जाव्याची परवानगी  
पत्राल याली हे विनंती.

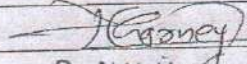
दिनांक - 06 ऑक्टोबर 2023

वेळ - सकाळी 9.00 वाजता.

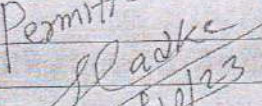
धन्यवाद.

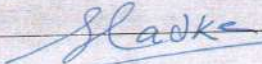
19.05 ऑक्टोबर 2023

भद्रावली.

  
Dr. N.V. Hatke  
Head

Department of Zoology  
Nikantree-Shinde Science & Arts  
College, Bhadrawati, Dist-Chandrapur

Permitted  
  
5/10/23

  
Dr. L.S. Ladke  
PRINCIPAL

N.S. Science & Arts College  
Bhadrawati, Dist-Chandrapur

Function - Wildlife week

Date - 06 October 2023

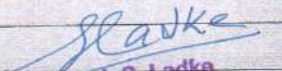
Place - Premises of college

Class - BSC I SEM - I

Subject - Zoology.

### Attendance sheet

1) Gayatri . Sanjay . Shinde	Gayatri Shinde
2) Bhumi . Ajay . Behere	Bhumi
3) Dnyaneshwar . S . Paut	<del>S.P.</del>
4) Madhavi . S . Sodhane	Madhavi
5) Sankisa . S . Hiwale	Sankisa
6) Sejal . S . Koyalwar	Sejal
7) Gayatri . A . Parshive	Gayatri P.
8) Jsha . V . Ingole	J.V. Ingole
9) Dipali . P . Rajurkar	Rajurkar
10) Achal . P . Teltembade	Achal
12) Aishwarya . V . Tilpe	Tilpe
13) Sakshi . G . Chaudhari	S.G. Chaudhari
14) Rutuja . P . Jelang	Rutuja
15) Varshnavi . V . Wankar	Varshnavi
16) Arpit . D . Banik	Arpit
17) Pranay . S . Aggabutarwar	Pranay
18) Gowrav . R . Zode	Gowrav
19) Janmi . S . Mashankar	Janmi
20) Minakshi . K . Badhale	M.K. Badhale
21) Priyanka . V . Bundhe	Priyanka
22) Kritika . S . Yezekar	Kritika
23) Harshada . R . Bandurkar	Harshada
24) - Sapna . K . Nagpure	S.K. Nagpure

  
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- 25) Neharika . S. Kulkarni
- 26) Yashaswi . N. Shirsone
- 27) Anandi . Y. Deshmukh

Harmey  
Yashu.  
Anandi.

Harmey  
Dr. N.V. Harmey 05/10/2023  
Head  
Department of Zoology  
Nilkanthrao Shinde Science & Arts  
College Bhadrawati, Dist-Chandrapur

Ladke  
Dr. L.S. Ladke  
PRINCIPAL  
N.S. Science & Arts College  
Bhadrawati, Dist. Chandrapur



निळकंठराव शिंदे विज्ञान व कला महाविद्यालय, भद्रावती जिल्हा चंद्रपूर  
वन्यजीव सप्ताह  
दि. 6 ऑक्टोबर 2023  
अहवाल

निळकंठराव शिंदे विज्ञान व कला महाविद्यालयातील प्राणीशास्त्र विभागातर्फे वन्यजीव सप्ताह पक्षी निरीक्षणाद्वारे साजरा करण्यात आला. सदर पक्षी निरीक्षणाचा कार्यक्रम भद्रावती शिक्षण संस्था भद्रावती चे अध्यक्ष डॉक्टर विवेक शिंदे यांच्या संकल्पनेतून आयोजन करण्यात आले.

वन्यजीव सप्ताह निमित्त महाविद्यालयातील बी एस सी प्राणीशास्त्र विभागाच्या सर्व विद्यार्थ्यांना भद्रावती शहराबाहेरील मल्हारा तलाव परिसरात नेऊन त्या ठिकाणी प्राणीशास्त्र विभागाचे प्रमुख प्रा डॉ. नरेंद्र हरणे यांनी सर्व विद्यार्थ्यांना वन्यजीव सप्ताहाची मूळ संकल्पना तसेच पक्षी निरीक्षणाद्वारे हिवाळ्यामुळे स्थलांतरित होणाऱ्या पक्षाविषयीची सविस्तर माहिती दिली तसेच त्यांची होत असलेली शिकार रोखण्याकरिता कोणत्या उपाययोजना कराव्यात व त्यासाठी विद्यार्थ्यांनी सुद्धा प्रयत्न करणे गरजेचे आहे असे आपले मत व्यक्त केले.

तसेच प्राध्यापक डॉ शशिकांत शिन्डे यांनी मल्हारा तलावाची सखोल माहिती दिली त्यात त्यांनी तलावातील सर्व जीव जंतू तसेच पाण्यातील अन्न साखळी कशी काम करते यावर विद्यार्थ्यांना सखोल मार्गदर्शन केले तसेच चंद्रपूर जिल्ह्यातून नामशेष झालेल्या माळढोक पक्षी व सारस पक्षी याबद्दल चिंता व्यक्त केली. याप्रसंगी वैष्णवी वानखेडे, गायत्री शिंदे, ऐश्वर्या झिलपे, ऋतुजा तेलंग, अर्पित बानिक, प्रणय आगबतनवार व आनंदी देशमुख या विद्यार्थ्यांनी आपले मनोगत व्यक्त केले.

या प्रसंगी विद्यार्थ्यांनी मल्हारा तलाव परिसरातील पक्षी निरीक्षणामध्ये एकूण 40 प्रकारचे विविध पक्षी आढळले व त्यांची सूची तयार करण्यात आली.

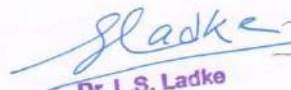
तसेच याप्रसंगी महाविद्यालयाचे प्राचार्य डॉ. एल एस लडके यांनी वन्यजीव सप्ताह निमित्त नामशेष होत चाललेल्या वन्य पशु-पक्षी बाबत जागृती निर्माण करणे हा त्यामागील हेतू आहे तसेच सर्व विद्यार्थ्यांना वन्यजीव संवर्धन करणे ही काळाची गरज आहे कारण वन्यजीवाखेरीज मानव पृथ्वीवर राहू शकत नाही याबद्दल विद्यार्थ्यांना सखोल मार्गदर्शन केले.


या कार्यक्रमाचे सूत्रसंचालन व आभार प्रदर्शन प्राणीशास्त्र विभाग प्रमुख प्राध्यापक डॉक्टर नरेंद्र हरणे यांनी केले.

हा कार्यक्रम यशस्वी करण्याकरिता गौरव झोडे, लक्ष्मी मशारकर, माधवी बोधाने, गायत्री पारशिवे व प्रियंका बुंदे यांनी अथक परिश्रम घेतले. या कार्यक्रमाला बीएससी प्राणीशास्त्र विषयाचे सर्व विद्यार्थी मोठ्या संख्येने उपस्थित होते.

दि. 13/10/2023.  
भद्रावती

Red.  
12-10-23

  
Dr. L.S. Ladke  
PRINCIPAL  
N.S. Science & Arts College  
Bhadrawati, Dist.-Chandrapur

  
प्रा. डॉ. नरेंद्र हेरुपा  
Dr. N.V. Harney  
Head  
Department of Zoology  
N.S. Science & Arts  
College, Bhadrawati, Dist.-Chandrapur

## Field Visit – Physics

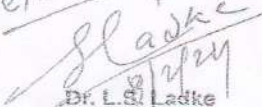
माल - आवाज  
 निरंजनराव जिंदे विद्यालय व  
 कर्मचारी महाविद्यालय, चंद्रपूर  
 वेळ - औद्योगिक व्युत्पत्तीकरण परवानगी मिळवण्याचा  
 महोदय,  
 सविनय विनंती आपणाने आहे की, आम्ही  
 आपला महाविद्यालयमार्फत विद्यार्थ्यांनी औद्योगिक  
 सहल 1. RAQ-1 upcycling, Chandrapur ।  
 (कलारशाळ जवळ) 2. JP Associates and  
 Laboratories, Padoli, Chandrapur याठिकाणी  
 Waste Management study आणि Soil Testing  
 and Water Testing study करिताने वेळ आहोत.  
 या सहलमध्ये 50 विद्यार्थी व 05 प्राध्यापक व  
 प्राध्यापिका सहभागी आहेत. त्यांची यादी सोपव  
 जोडलेली आहे. तरी आम्हाला दि. 10/02/2024  
 शनिवारला सकाळी 8.30 वाजता औद्योगिक सहल  
 लेण्याची परवानगी द्यावी ही विनंती.

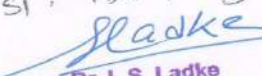
दि. 08/02/2024

आपले विश्वासू

सहपत्र - विद्यार्थ्यांची यादी

- 1) डॉ. रवी श्रवणी धोरे - ~~Shole~~
- 2) डॉ. गजेन्द्र कोदरे - ~~Shole~~
- 3) डॉ. रमण शीरामे - ~~Shole~~
- 4) डॉ. कुलादिप मोठे - ~~Shole~~
- 5) डॉ. किरण जुमडे - ~~Shole~~

Permitted to go  
 for industrial  
 visit  
  
 Dr. L.S. Ladke  
 PRINCIPAL  
 N.S. Science & Arts College

  
 Dr. L.S. Ladke  
 PRINCIPAL  
 N.S. Science & Arts College  
 Chandrapur, Dist. Chandrapur

NILKANTHRAO SHINDE SCIENCE AND ARTS COLLEGE, BHADRAWATI  
DIST- CHANDRAPUR

INDUSTRIAL VISIT STUDENT LIST

Date:- 10 Feb.2024

Sr. No	Name of Students	Class
1	Sweta Pullarwar	B.Sc I
2	Pooja Biswas	B.Sc I
3	Palak Chjunarkar	B.Sc I
4	Pranjali Moon	B.Sc I
5	Mayuri Balpane	B.Sc I
6	Nikita Bipte	B.Sc I
7	Palak Nagre	B.Sc I
8	Palk Baghade	B.Sc I
9	Sima Tanti	B.Sc I
10	TrithiDandapat	B.Sc I
11	Anjali Pal	B.Sc I
12	Shivani Khandare	B.Sc I
13	Komal Kulmethe	B.Sc I
14	Tejal Awasarmol	B.Sc I
15	Prajakta Shedmake	B.Sc I
16	Prathmesh Wadhai	B.Sc I
17	Gayatri Shinde	B.Sc I
18	Anandi Deshmukh	B.Sc I
19	Divya Pimpalkar	B.Sc II
20	Anushri Zurmure	B.Sc II
21	Komal Jamgapalli	B.Sc II
22	Suraj Jiwtode	B.Sc II
23	Mansi Matte	B.Sc II
24	BumikaBabade	B.Sc II
25	Namrata Lanjewar	B.Sc II
26	Prathmesh Wadhai	B.Sc II
27	Madhavi Kadukar	B.Sc III
28	Chaitali Zade	B.Sc III
29	Yamini Marapelli	B.Sc III
30	Aachal Nandurkar	B.Sc III
31	Dhanashree Nagose	B.Sc III
32	Vaishnavi Choplar	B.Sc III
33	Amrita Ram	B.Sc III
34	Sakshi Dhoke	B.Sc III
35	Pragati Helwate	B.Sc III
36	ShrashtiSharma	B.Sc III
37	Pranali Khatake	M.Sc I
38	Deepali Bainwar	M.Sc I



**Dr. L.S. Ladke**

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N.S. Science & Arts College  
Bhadrawati, Dist.-Chandrapur

39	Samiksha Swan	M.Sc I
40	Kiran Busari	M.Sc I
41	Hitkshi Thengane	M.Sc I
42	Priya Ambilkar	M.Sc I
43	Achal Jidgilwar	M.Sc I
44	Parikshita Kakde	M.Sc II
45	Pratiksha Zade	M.Sc II
46	Surbhi Bora	M.Sc II
47	Nikita Kamatkar	M.Sc II
48	Pratiksha Chamtkar	M.Sc II
49	Nayana K. Bhopale	B.Sc. I
50	Rutuja P. Talang	B.Sc. I

*Ladke*  
8/11/21

**Dr. L.S. Ladke**  
PRINCIPAL  
N.S. Science & Arts College  
Bhadrawati, Dist-Chandrapur

*Ladke*  
**Dr. L.S. Ladke**  
PRINCIPAL  
N.S. Science & Arts College  
Bhadrawati, Dist-Chandrapur

## Field Visit – Chemistry

मंत्र - अविनाशं  
 विद्यया कुरुते विद्याया च  
 कर्म मर्यादितमालम्ब्य प्रज्ञायते

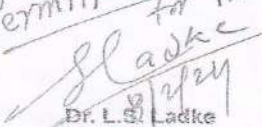
तेषाम् - औद्योगिक संरक्षणीकरण परवानगी मिळण्याचा  
 महोदय,  
 सविनय निवेदी आपला आहे की, आम्ही  
 आपला महाविद्यालयमार्फत विद्यार्थ्यांची औद्योगिक  
 सहल 1. RAQ-I Upcycling, Chandrapur.  
 (बल्लारशाह जवळ) 2. JP Associates वर  
 Laboratories, Pardi, Chandrapur याठिकाणी  
 Waste Management study आणि Soil Testing  
 वर Water Testing study करिताना नेत आहोत.  
 या सहलमध्ये 50 विद्यार्थी व 05 प्राध्यापक व  
 प्राध्यापिका सहभागी आहेत. त्यांची यादी सोबत  
 जोडलेली आहे. तरी आम्हाला दि. 10/02/2024  
 शनिवारला सकाळी 8.30 वाजता औद्योगिक सहल  
 नेण्याची परवानगी द्यावी ही विनंती.

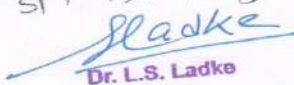
दि. 08/02/2024

आपले विश्वासू

सहस्र - विद्यार्थ्यांची यादी

- 1) डॉ. रौ. अण्णा धोरे - Shole
- 2) डॉ. गजेन्द्र वेदरे - Shole
- 3) प्रा. सचिन श्रीरामे - Shole
- 4) प्रा. कुलदिव मोरोडे - Shole
- 5) डॉ. निरजा जुमडे - Shole

Permitted to go  
 for industrial  
 visit  
  
 Dr. L.S. Ladke  
 PRINCIPAL  
 N.S. Science & Arts College

  
 Dr. L.S. Ladke  
 PRINCIPAL  
 N.S. Science & Arts College  
 Chandrapur, Dist.-Chandrapur

मान. प्रचारक  
 निरुद्धराय शिंदे विज्ञान व  
 कला महाविद्यालय, चंद्रपूर  
 य - औद्योगिक बदली कार्डिंग परवानगी मिळवण्याबाबत

रुप, सविनय निवेदन मागण्याचे आहे की, आम्ही  
 आपल्या महाविद्यालयमार्फत विद्यार्थ्यांशी औद्योगिक  
 सहल 1. RAQ-I upcycling, Chandrapur.  
 (बल्लारशार जवळ) 2. JP Associates and  
 Laboratories, Padoli, Chandrapur याद्वारे  
 Waste Management study आणि Soil Testing  
 and Water Testing study करेला गेला आहे व  
 या सहलीमध्ये 50 विद्यार्थ्यां व 05 प्राध्यापक व  
 प्राध्यापिका संलग्नी आहेत. त्यांची यादी सोबत  
 जोडलेली आहे. तरी आम्हाला दि. 10/02/2024  
 शनिवारला सकाळी 8.30 वाजता औद्योगिक सहल  
 नेण्याची परवानगी द्यावी ही विनंती.

दि. 08/02/2024

आपले विश्वासू

सहस्र - विद्यार्थ्यांची यादी

- 1) डॉ. सौ. अश्ली धोरे - Ashle
- 2) डॉ. गजेन्द्र वेदरे - Vedre
- 3) श्री. रमिल श्रीरामे - Ramile
- 4) श्री. अणुद्विप गोडके - Anudwip
- 5) डॉ. किरण गुमडे - Kirane

Permitted to go  
 for industrial visit  
 10/2/2024

Dr. L.S. Ladke  
 PRINCIPAL  
 N.S. Science & Arts College

Ladke  
 Dr. L.S. Ladke  
 PRINCIPAL  
 N.S. Science & Arts College  
 Ehadrawati, Dist. Chandrapur

NILKANTHRAO SHINDE SCIENCE AND ARTS COLLEGE, BHADRAWATI  
DIST- CHANDRAPUR

INDUSTRIAL VISIT STUDENT LIST


Date:- 10 Feb.2024

Sr. No	Name of Students	Class	Mobile no	Sign.
1	Sweta Pullarwar	B.Sc I	9637007103	Sweta P
2	Pooja Biswas	B.Sc I	9122253419	Pooja
3	Palak Chunarkar	B.Sc I	8081791105	Palak
4	Pranjali Moon	B.Sc I	9325365195	Pranjali
5	Mayuri Balpane	B.Sc I	7709827660	Mayuri
6	Nikita Bipte	B.Sc I	9763553419	Nikita
7	Palak Nagre	B.Sc I	7447881767	Palak
8	Palk Baghade	B.Sc I	8483032618	Palk
9	Sima Tanti	B.Sc I	7499777063	Sima
10	TrithiDandapat	B.Sc I	9307301847	Trithi
11	Anjali Pal	B.Sc I	7350749019	Anjali
12	Shivani Khandare	B.Sc I	9921156497	Shivani
13	Komal Kulmethe	B.Sc I	7507082817	Komal
14	Tejal Awasarmol	B.Sc I	9270300389	Tejal
15	Prajakta Shedmake	B.Sc I	7083687606	Prajakta
16	Prathmesh Wadhai	B.Sc I	8080849322	Prathmesh
17	Gayatri Shinde	B.Sc I	9096449337	Gayatri
18	Anandi Deshmukh	B.Sc I	7499711323	Anandi
19	Divya Pimpalkar	B.Sc II	9284959129	Divya
20	Anushri Zurmure	B.Sc II	8459879745	Anushri
21	Komal Jamgapalli	B.Sc II	9237203328	Komal
22	Suraj Jiwtode	B.Sc II	9657752216	Suraj
23	Mansi Matte	B.Sc II	8767594268	Mansi
24	Bumika Babade	B.Sc II	8767924364	Bumika
25	Namrata Lanjewar	B.Sc III	8308631116	Namrata
26	Prathmesh Wadhai	B.Sc III	8080849322	Prathmesh
27	Madhavi Kadukar	B.Sc III	8806978291	Madhavi
28	Chaitali Zade	B.Sc III	808093872	Chaitali
29	Yamini Marapelli	B.Sc III	8483037774	Yamini
30	Aachal Nandurkar	B.Sc III	9356298816	Aachal
31	Dhanashree Nagose	B.Sc III	8788971779	D.Nagose
32	Vaishnavi Choplar	B.Sc III	9075856407	V.R.Chopkara
X 33	Amrita Ram	B.Sc III		
X 34	Sakshi Dhoke	B.Sc III		
X 35	Pragati Helwate	M.Sc I		
X 36	Shrashi Sharma	M.Sc I		
X 37	Pranali Khatake	M.Sc I		
38	Deepali Bainwar	M.Sc I	8421218220	D.S.Bainwar

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✓ 39	Samiksha Swan	M.Sc I	8208808322	S.A.S. (M)
✓ 40	Kiran Busari	M.Sc I	1776095212	(P. Bhusari)
✓ 41	Hittkshi Thengane	M.Sc I	9322818829	P. Thengane
✓ 42	Priya Ambilkar	M.Sc II	1218976684	(P. Ambilkar)
✓ 43	Achal Jidgilwar	M.Sc II	3356790608	Jidgilwar
✓ 44	Parikshita Kakde	M.Sc II	7620378408	(P. Kakde)
✓ 45	Pratiksha Zade	M.Sc II	8600463415	P. H. Zade
✓ 46	Surbhi Bora	M.Sc II	7198171000	S. Bora
✓ 47	Nikita Kamatkar	M.Sc II	7022021376	N. Kamatkar
✓ 48	Pratiksha Chantkar	M.Sc II	8625971899	P. S. Chantkar
49	M. P. K. Bhargava	B.Sc. I	8625013577	M. P. K. Bhargava
50	Rutuja P. Talang	B.Sc. I	8764509904	R. Talang
SI)	Tejashwini R. Ambilkar	B.Sc. II	8766798273	(P. Ambilkar)

  
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 Bhadravati, Dist.-Chandrapur



GONDWANA UNIVERSITY, GADCHIROLI  
COURSE AND EXAMINATION SCHEME WITH CHOICE BASED CREDIT SYSTEM (CBCS)

FACULTY OF HUMANITIES

**SUBJECT: GEOGRAPHY**

SEM	AREA	UNIQUE SUBJECT CODE	PAPERS	EXAMINATION SCHEME							CREDIT PER SEMESTER		
				MAXIMUM MARKS				MINIMUM MARKS					
				ESE/UE	IE/CE	CA / UA I, III, V / II, IV, VI	P*	TOTAL	ESE + IE 24 + 6 = 30	P			TOTAL
I	CORE COURSE	UAGEOT1 UAGEOP1	INTRODUCTION TO GEOGRAPHY PRACTICAL 1*	60	15	25		100	30	10	40	04	
II	CORE COURSE	UAGEOT2 UAGEOP2	CLIMATOLOGY PRACTICAL 2*	60	15	25		100	30	10	40	04	
III	CORE COURSE	UAGEOT3 UAGEOP3	GEOMORPHOLOGY PRACTICAL 3*	60	15	25		100	30	10	40	04	
IV	CORE COURSE	UAGEOT4 UAGEOP4	GEOMORPHOLOGY AND OCEANOGRAPHY PRACTICAL 4*	60	15	25		100	30	10	40	04	
V	DSE ANY ONE FROM THREE	UAGEOT5	GEOGRAPHY OF MAHARASHTRA PRACTICAL 5 PROJECT 01	60	15	25	PROJECT	150	30	10	20	60	06
		UAGEOP5 UAGEPR1	OR BIO-GEOGRAPHY PRACTICAL 05 PROJECT 02				50						
		OR UAGEOT5 UAGEOP5 UAGEPR3	OR GEOGRAPHY OF TOURISM PRACTICAL 05 PROJECT 03										
VI	DSE ANY ONE FROM 3	UAGEOT6	GEOGRAPHY OF INDIA PRACTICAL 06 FIELD WORK REPORT OR	60	15	25	FIELD WORK REPORT	150	30	10	20	60	06
		UAGEOP6 UAGFWR1	OR CULTURAL GEOGRAPHY PRACTICAL 06 FIELD WORK REPORT				50						
		OR UAGEHT6 UAGEOP6 UAGFWR1	OR GEOGRAPHY OF HEALTH PRACTICAL 06 FIELD WORK REPORT										
<b>TOTAL</b>				360	90	150	100	700	180	60	40	280	28

ESE: EXAMINATION SEMESTER END, CA: COLLEGE ASSESSMENT, UA: UNIVERSITY ASSESSMENT,

PROJECT 01: ANALYSIS OF GEOGRAPHIC FEATURES WITH GOOGLE EARTH, REMOTE SENSING & GPS Etc.

PROJECT 02: PREPARATION OF MAP OF AGRICULTURE FIELD, RIVERBED, CANAL Etc. WITH THE HELP OF SURVEYING INSTRUMENTS

PROJECT03: LOCAL GEO- ENVIRONMENTAL ISSUES.

  
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## B.A. GEOGRAPHY

### Semester wise Distribution of Marks

GONDWANA UNIVERSITY GADCHIROLI  
CHOICE BASED CREDIT SYSTEM SEMESTER PATTERN SYLLABUS  
B.A. GEOGRAPHY

#### PATTERN OF EXAMINATION (ALL SEMESTER)

##### Theory:

One theory paper of 60 marks each and of three hours duration will be conducted at the end of each semester.

##### Practicals:

- 1) One Practical examination of 25 marks and of four hours duration of each semester will be conducted at the end of the same semester.
- 2) Practical examinations of all semesters will be conducted by internal and External examiners appointed by the University.

##### Internal Assessment:

- 1) Head of the department will carry out internal assessment of the students on the basis of evaluation report from the concerned teacher/ teachers, under the supervision of the principal of the college and will be done at the end of each semester.
- 2) Distribution of 15 marks of internal assessment is as under –

i)	Class Attendance	05 marks
ii)	Home Assignment & Seminar	05 marks
iii)	Visit to a Geo. Places	05 marks

#### Rules and Regulation

1. There will be four periods per week for theory papers.
2. The batch of Practical class should not be exceeding 16 students.
3. There will be two periods per batch per week for practical's.
4. The minimum passing marks of Theory paper is 24 and internal Assessment is 06 & Passing Marks for Practical are 10.
5. The student has to pass practical and theory paper separately.
6. Marks will not be allotted to student if he found absent in study tour.

  
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PRACTICAL

SEMESTER-VI

Unit – I :

Introduction to modern techniques (on theoretical base): Remote sensing as a tool for data generation and mapping, GIS and Computer.

Unit – II :

Leveling – use of Dumpy level in the field problem on leveling:-

- a) Preparation of field Book ( Collimation and Rise & Fall Methods)
- b) Drawing of Profile.

Unit – III :

Meaning and Computation of correlation coefficient by Pearson's and Spearman's method ( Atleast two exercise of each)

Unit - IV: Field work and Field Report

A Short field study – a socio-economic survey of a small village.

Unit – V : Viva-voce & Practical Record.

**Plan of Marks of Practical Examination:**

Unit I : Introduction to Modern Techniques (Any Two) two marks each	4 marks
a) Computer            b) Remote Sensing    c) GIS	
Unit II: Problem of leveling.	
a. Calculation of Reduced level	3 marks
b. Drawing of Profile	2 marks
Unit III : Computation of correlation	4 marks
Unit IV : Socio Economics Survey report	4 marks
Unit V : Preparation of Maps	
Representation of population & economics data	3 marks
Choropleth maps & dot methods	
Unit VI : Viva-voice	3 marks
Practical record	2 marks
<hr/>	
Total	25 marks

  
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## Skill Enhancement Courses (SEC-III)

### Theory Examination Pattern

Theory Question Paper Pattern  
For  
B.Sc. BOTANY CBCS  
SEMESTER - V  
Skill Enhancement Courses (SEC-III)

Time: 02 Hours]

[Max. Marks- 30

- Q.1. Long question .....10 Marks
- Q.2. Short question
- a) .....5 Marks
- b) .....5 Marks
- Q.3. MCQ .....10 Marks  
(Ten MCQ each of ONE mark)

### Practical Examination Assessment Pattern (Max. Marks- 70)

Assessment of practical Examination is based on the following fulfillment by the student.

1.	<u>Project Submission</u>	20 Marks
2.	<u>Project Presentation</u>	20 Marks
3.	<u>Assignments</u>	10 Marks
4.	<u>Field Visit</u>	10 Marks
5.	Overall Performance /feedback	10 Marks
<b>Total Marks</b>		<b>70 Marks</b>



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**Skill Enhancement Courses (SEC-IV)**

**Theory Examination Pattern**

**Theory Question Paper Pattern  
For  
B.Sc. BOTANY CBCS  
SEMESTER – VI  
Skill Enhancement Courses (SEC-IV)**

**Time: 02 Hours]**

**[Max. Marks- 30**

- Q.1. Long question .....10 Marks**
- Q.2. Short question**
- a) .....5 Marks
- b) .....5 Marks
- Q.3. MCQ .....10 Marks**  
(Ten MCQ each of ONE mark)

**Practical Examination Assessment Pattern**

Assessment of practical Examination is based on the following fulfillment by the student.

✓ 6.	Project Submission	20 Marks
✓ 7.	Project Presentation	20 Marks
8.	Assignments	10 Marks
✓ 9.	Field Visit	10 Marks
10.	Overall Performance	10 Marks
<b>Total Marks</b>		<b>70 Marks</b>

  
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**Board of Studies in Physics**  
**FACULTY OF SCIENCE & TECHNOLOGY**  
**GONDWANA UNIVERSITY, GADCHIROLI**



**Syllabus of**  
**B.Sc. Third Year (Semester Pattern)**  
**(Choice Based Credit System)**

**SUBJECT - PHYSICS**  
**Semester V & Semester VI**  
**From academic session- 2019-20**

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**Bhadrawati, Dist.-Chandrapur**

For Theory internal:

Sr. No.	Work Assigned	Marks
1.	Assignment	02
2.	Class Test	05
3.	Active Participation Seminar/Routine Activity etc.	03
<b>Total</b>		<b>10</b>

9. The internal assessment shall be done by respective college and the marks shall be sent to the university one month prior to the final examination of each semester.

10. All theory papers shall be divided into four units. Each unit shall be cover in 12 periods of 48 minutes.

11. The theory question paper shall be of 3 hours duration and comprise of 5 questions with internal choice and with equal weightages to all units. The pattern of question paper shall be as follows.

12. In B. Sc. Third year (Sem V & VI) student have to opt any two DSE course from the given four courses (for theory & practical) in each semester.

13. **INSTRUCTION FOR SKILL ENHANCEMENT COURSES (SEC):**

i. There should be two skill enhance courses in each semester V and VI. The student should opt any one out of two as per their choice in each semester.

ii. Total marks for SEC is 50.

iii. For SEC 70% weightage is given to practical work and 30% weightage to theory paper.

iv. Theory paper should be of MCQ type.

v. The distribution of marks for SEC practical work will be as follows-

SEC practical	<u>Project Work</u>	20 Marks
	<u>Project Record</u>	08 Marks
	Viva-Voce	07 Marks
<b>Total</b>		<b>35 Marks</b>

vi. The examination should be conducted and evaluated at college level for each semester and equivalent grade obtained by student should be submitted to the university prior to the final exam of each semester.

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PRINCIPAL Page 3  
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**B.Sc.-III (Computer Science)  
SEMESTER-V**

B.Sc.(Computer Science)- III (Semester-V)											
Subject	Paper Code	Paper Name	Total Period /Week	Cre dit	Theory (Th) Assessment				Practical (Prac.)		Total (Th +Prac)
					IA	UE	Total	Min. Passing (40%)	UE	Min. Passing (40%)	
Discipline Specific Elective Course (DSEC-I)	USCST09.1	(Select any Two) • E-Commerce & Web Designing • Database Programming with Oracle • Scripting Languages • Software Engineering	6T + 1Tu (Per Batch)	6	10	50	60	48  Marks	30	12	150
	USCST09.2										
	USCST09.3										
	USCST09.4				10	50	60				
Skill Enhance ment Course (SEC-I)	USCST010.1	(Select Any One) • Computers for Managers • A Certification Course from IIT Spoken Tutorial, Mumbai • Personality Development • Accounting & Office Management	1	2				20	--	--	--
	USCST010.2										
	USCST010.3										
	USCST010.4				50	--	50				

\*Student must appear for University Practical Examination otherwise he/she will be treated as fail. However their Internal marks will be carried forward.

**Note:- In a Group, if any student remains absent in one of the paper then candidate result will be considered as fail in that group even though he/she has scored minimum passing marks in other paper of that group. Candidate need to appear in both the papers of that group**

  
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**Project Work/Dissertation Scheme / Guidelines for the Students, Supervisors and Examiners**

Every student is required to carry out a project work in semester IV. The project can be of following types. A) Experimental Project Work; OR B) Field Based Project Work; OR C) Review writing based Project Work.

**Experimental Project Work and Field Based Project Work:**

Student can carry out Experimental / Field Based Project Work on a related research topic of the subject /course. It must be an original work and must indicate some degree of experimental work / Field work. On the basis of this work, student must submit the Project Report (typed and properly bound) in two copies at least one month prior to commencement of the final Practical / lab Examination of Semester IV. The project report shall comprise of Introduction, Material and Methods, Results, Discussion, Summary, Conclusion and, References along with the declaration by the candidate that the work is original and not submitted to any University or Organization for award of the degree and certificate by the supervisor and forwarded through Head / Course-coordinator / Director of the Department / Centre or the Principal of the College.

**Review writing based Project Work.**

Student can carry out review writing Based Project Work on a related topic of the subject / course. It must be a review of topic based on research publications. Student shall refer peer reviewed original research publications and based on findings, write a summary of the same. The pattern of review writing shall be based on reputed reviews published in a standard, peer reviewed journals. On the basis of this work, student must submit the Project Report (typed and properly bound) in two copies at least one month prior to commencement of the final Practical / lab Examination of Semester IV. The project report shall comprise of Abstract, Introduction, detailed review, Discussion, Summary, Conclusion and, References along with the declaration by the candidate that the work is original and not submitted to any University or Organization for award of the degree and certificate by the supervisor and forwarded through Head / Course-coordinator / Director of the Department / Centre or the Principal of the College.

\*The supervisors for the Project Work shall be from the following.  
A person shall be an approved faculty member in the relevant subject.

OR

Scientists of National Laboratories / Regional Research Laboratories/ Experts from R&D in Industry who are approved by competent authority in such facilities by the Union Government / the State Government / Gondwana University / Other Universities recognized by UGC.

The Project Work will carry total 100 marks and will be evaluated by both external and internal examiner in the respective Department / Center / Affiliated College.

The examiners will evaluate the Project Work/Dissertation taking into account the coverage of subject matter, arrangement and presentation, references, etc.

For written Project work	40	Marks – Evaluated jointly by External & Internal examiner
Oral Presentation	20	Marks – Evaluated jointly by External & Internal examiner
For Viva-Voce	20	Marks – Evaluated by External examiner
Internal Assessment	20	Marks – Evaluated by Internal examiner

  
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M. Sc. Botany Syllabus  
**Semester IV**  
Course code- PSCBOTT14  
PAPER -XIV: Angiosperms - II

**UNIT- I:**

General account, distinguished characters, floral variation and evolution, affinities of :- Magnoliidae, Hamamelidae, Dilleniidae, Rosidae, Asteridae, circumscription as per Cronquist, 1968

**UNIT- II:**

General account, distinguished characters, floral variation and evolution, affinities of :- Alismatidae, commelinidae, Aracidae, Liliidae; Interesting features and systematic position of Cucurbitaceae, Cactaceae, Asteraceae, Amentiferae, Lemnaceae, Palmae, Orchidaceae.

**UNIT- III:**

Probable ancestors of angiosperms, primitive living angiosperms, speciation and extinction, IUCN categories of threat, distribution and global pattern of biodiversity.

**UNIT- IV:**

Biological diversity concept and levels, role of biodiversity in ecosystem functions and stability, Endemism, hotspots and hottest hotspots, invasions and introductions, local plant diversities and its socioeconomic importance.

**Practicals:**

**Major Exercises:**

1. Description of a specimen from representative, locally available families.
2. Description of a species based on various specimens to study intra specific variation: collective exercise.
3. Field trips within and around the campus; compilation of field notes and preparation herbarium sheets of such plants, wild or cultivated as are abundant.
4. Demonstration of the utility of secondary metabolites in the taxonomy of some appropriate genera.

**Minor Exercises:**

5. Description of various species of a genus, location of key characters and preparation keys at generic level.
6. Location of key characters and use of keys at family level.
7. Training in using floras herbaria for identification of specimens described in the class.
8. Comparison of different species of a genus and different genera of a family to calculate similarity coefficients and preparation of dendrograms.

  
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Semester IV:

Core	Theory / Practical	Teaching Scheme			Credit	Examination Scheme					
		Hrs/ week				Duration in hrs	Max. Marks		Total	Minimum Marks	
		Theory	Practical	Total			External	Internal		Theory	Practical
Core 11 (PSCPHY T11)	Paper 13 Nuclear and Particle Physics	4	-	4	4	3	80	20	100	40	
Core 12 (PSCPHY T12)	Paper 14 Solid State Physics	4	-	4	4	3	80	20	100	40	
Core Elective II  (PSCPHY T15)	Paper 15 Material Science II OR Nanoscience and Nanotechnology II OR Atomic and Molecular Physics II	4	-	4	4	3	80	20	100	40	
Fundation Course II	Paper 16 Spectroscopic Applications OR Optics and Optical instruments	4	-	4	4	3	80	20	100	40	
Practical.	Practical 7 (Based on Core 11, 12 and Elective II)	-	8	8	4	3-8*	80	20	100		40
<u>Project</u>	<u>Project</u>	-	8	8			80	20	100		40
Seminar 4	Seminar 4	2	-	2	1			25	25	10	
<b>TOTAL</b>		<b>18</b>	<b>16</b>	<b>34</b>	<b>25</b>		<b>480</b>	<b>145</b>	<b>625</b>	<b>170</b>	<b>80</b>

*Ladke*

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**GONDWANA UNIVERSITY,  
GADCHIROLI**



**DIRECTION RELATING TO THE  
EXAMINATION LEADING TO THE TWO  
YEAR / ONE YEAR MASTER OF  
SCIENCE DEGREE WITH SEMESTER  
PATTERN  
AS PER NEP 2020**

**FACULTY- SCIENCE AND TECHNOLOGY  
SUBJECT- ZOOLOGY  
M.Sc. Semester I and II  
Session 2023-24**

*Shadke*

**Dr. E.S. Shadke  
PRINCIPAL  
N.S. Science & Arts College  
Bhadrawati, Dist-Chandrapur**

4. Unit III

5. Unit IV

**2. Practical Examination Assessment (2 Credits Each)**

a. Practical I based on CC1 and CC2, of 100 marks - (20 Marks for Practical CA + 80 marks for Practical UA)

b. Practical I based on CC3 and OE, of 100 marks - (20 Marks for Practical CA + 80 marks for Practical UA)

c. For passing, student must score minimum 50 marks out of 100 in practical examination based on Lab-I and Lab-II

3. OJT / FP Internship / Apprenticeship / Field Project/ Patent (Related to DSC) - (20 Marks of CA + 80 Marks of UA)

**Table showing semester wise total marks in Theory and Practical**

Semester	Theory	Practical	Total Marks	Credits
I	550	200	750	20
II	550	200	750	20
III	550	200	750	20
IV	550	200	750	20
<b>For Honors</b>	2200	800	3000	80

**Total Credits:**

Cumulative Credits required for PG in Major Subject (One Year PG Degree) = 40 Credits

Cumulative Credits required for PG in Major Subject (Two Year PG Degree) = 80 Credits

  
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**Table 1: M.Sc. Semester II**

Sr No	Course Category	Name of the course (Title of the Paper)	Level	Teaching Scheme (hrs)			Total Credit	Evaluation Scheme			
				Theory	Tutorial	Practical		Duration of Examination (Hrs)	End Semester Evaluation (ESE)	Continuous Internal Evaluation (CIE)	Minimum Passing Marks
				Th	Tu	P					
1	DSC	Paper 1:- Structure and Function of Vertebrates (02MSCZO01)	6.0	4	--	--	3	3	80	20	40
		Paper 2:- Comparative Endocrinology- (02MSCZO02)		4	--	--	3	3	80	20	40
		Paper 3 Molecular Biology and Biotechnology: (02MSCZO03)		4	--	--	3	3	80	20	40
2	DSE Elective	Paper 1:- Biology of Parasites		4	--	--	3	3	80	20	40
		Paper 2:- Aquaculture and Management Paper 3:- Applied Entomology Paper 4:- General and Applied Ichthyology Paper 5:- Economic Zoology (02MSCZO04)									
3	OJT / FP	Industrial Training/Survey/ Research Project (02MSCZO05)		4	--	--	4	5	80	20	50
4	Lab-I	Practical Basis On (C1+ C2)		--	--	4	2	5	80	20	50
5	Lab-I	Practical Basis On (C3+ EL)		--	--	4	2	5	80	20	50
6		Seminar		--	--		--	--		50	20
				20	--	8	20		550	200	--
<p>Cumulative Credits for : PG Degree in Major Subject Core = 09, Practicals = 04, Electives = 03  <u>OJT / FP= 4</u> Total = 20 Credits (Sem-1: 20 + Sem-2: 20 = 40 Credits)</p>											

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#### Reference Book

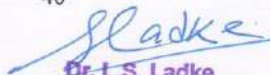
1. Dr. Praful B. Godkar, Text Books of Medical Laboratory Technology
2. Anathanarayana & Panikar – A Text Book of Medical Microbiology
3. Monica Cheesbrough, District Laboratory Practice in Tropical countries –Part I & Part II
4. . Vasudevan & Shreekumar : Biochemistry for Medical students
6. K.Laxminarayan : Histological techniques
8. Dr. Mukherjee, Medical Laboratory Technology, Volume I, II & II
9. J G College et al, Mackie & Mc Cartney Practical Medical Microbiology, 14th Edn, 1996, London, Churchill Livingstone.
10. Silvertone : Introduction to Medical Lab. Technology
11. Manual for Clinical Pathology by Sabitry Sanyal
12. Chatterjee , KD – Parasitology
13. Bancroft, Cellular Pathology Technique
14. 15. Mamuel Baron, Medical Microbiology, 3rd Ed
16. Clinical Lab Management by Williams & Wilkins

#### Practical's

1. Estimation of biochemical parameters using Auto-analyzer, Semi-autoanalyzer
2. Scanning of absorption spectra of any amino acid on double beam spectrophotometer
3. Determination of Na<sup>+</sup> & K<sup>+</sup> in blood serum using flame photometer
4. Determination of pH of blood and arterial blood gas analysis.
5. Estimation of various minerals using Atomic absorption spectrophotometer (AAS)
6. Estimation of various hormones, tumor markers by using Chemiluminescence (CLIA) AND ELISA method.
6. Extraction of glycogen and its estimation
7. Extraction of protein and its estimation
8. Extraction of lipids and estimation of total lipids, glycolipid, phospholipids and cholesterol.
9. Visit to Pathology Laboratory either Government or Private for collecting the information of any diseases or disorders and submit a project report.

#### Marks Distribution for Practical:


1. Major Experiment	15
2. Minor Experiment	10
3. <u>Project Report</u>	07
4. Class record	05
5. Viva-Voce	03
<hr/> Total Marks	<hr/> 40

  
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8. Qualitative analysis of Zooplankton and Phytoplankton
9. Quantitative analysis of Zooplankton and Phytoplankton
10. Study of benthic fauna of freshwater bodies
11. Study of natural fish food
12. Preparation of artificial fish food
13. Types of earthworm
14. Preparation of Vermicomposte and vermiwash
13. Field Visit - Visit to Fresh water fish farm or CIFA

**Marks Distribution for Practical:**

1. Major Experiment (Qualitative/Quantitative analysis of Plankton)	10
2. Minor Experiment (10 to 12)	05
3. Identification of Spotting (A to J)	10
4. Class record	05
5. <u>Submission of Field visit Diary and slides</u>	07
6. Viva-Voce	03
.....	
<b>Total Marks</b>	<b>40</b>

  
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8. Qualitative analysis of Zooplankton and Phytoplankton
9. Quantitative analysis of Zooplankton and Phytoplankton
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11. Study of natural fish food
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13. Types of earthworm
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**Marks Distribution for Practical:**

1. Major Experiment (Qualitative/Quantitative analysis of Plankton)	10
2. Minor Experiment (10 to 12)	05
3. Identification of Spotting (A to J)	10
4. Class record	05
5. Submission of <u>Field visit Diary and slides</u>	07
6. Viva-Voce	03
.....	
<b>Total Marks</b>	<b>40</b>

  
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**Table 1: M.Sc. Semester II**

Course Category	Course Code	Name of the course (Title of the Paper)	Level	Teaching Scheme (hrs)			Total Credit	Duration of Exam (Hrs)	Examination Scheme						
				Theory	Pract.	Total			Maximum marks	Total	MiniPassing Marks		Theory	Practical	
											ESE (UA)	CIE (CA)			
DSC	02MSCPH 1	Paper 1: Fundamentals of Quantum Mechanics	6.0	4	--	4	3	3	80	20	100	40			
	02MSCPH 2	Paper 2: Solid State Physics		4	--	4	3	3	80	20	100	40			
	02MSCPH 3	Paper 3: Classical and Statistical Mechanics		4	--	4	3	3	80	20	100	40			
DSE	02MSCPH4.1	Paper 4:- Advanced Optoelectronics													
	02MSCPH4.2	Paper 4: Plasma Physics and Space Science													
	02MSCPH4.3	Paper 4: Practical Electronics			4	--	4	3	3	80	20	100	40		
	02MSCPH4.4	Paper 4: Medical Physics													
	02MSCPH4.5	Paper 4: Data Science													
OJT/FP	02MSCPH5	Paper 5: Industrial Training/ Field Project/Research Project		4	--	4	3	5	80	20	100	50			
Lab-I	02MSCPH 6	Practical Based On (Paper I+ Paper II)		--	8	8	2	3-8	80	20	100		50		
Lab-II	02MSCPH 7	Practical Based On (Paper 3+ Elective)		--	8	8	2	3-8	80	20	100		50		
Ability Enhancement	02MSCPH 8	Seminar		2	--	2	1	--	--	50	50	20			
Total --				22	16	38	20		560	190	750		--		

**Abbreviations:** DSC: Discipline Specific Core, DSE: Discipline Specific Elective, OJT: On Job Training: Internship/ Apprenticeship; FP: Field projects; RM: Research Methodology; Research Project: RP. ESE: End Semester Evaluation (UA), CIE: Continuous Internal Evaluation (CA).

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**Basket for the 2 year PG Program (M.Sc. Mathematics) under NEP-2020**

	Sem - I	Sem - II
Major (DSC)	<ul style="list-style-type: none"> <li>• Advanced Abstract Algebra</li> <li>• Topology</li> <li>• Linear Algebra</li> </ul>	<ul style="list-style-type: none"> <li>• Field theory</li> <li>• Measure theory</li> <li>• Classical Mechanics</li> </ul>
Major Elective (DSE)	<ul style="list-style-type: none"> <li>• Numerical Analysis</li> <li>• Real Analysis</li> <li>• Ordinary differential Equations</li> <li>• Calculus of Variations</li> <li>• Number Theory</li> <li>• SCILAB Programming</li> <li>• Fuzzy Mathematics</li> <li>• Logic and Set Theory</li> <li>• Elementary Discrete Mathematics</li> </ul>	<ul style="list-style-type: none"> <li>• Operations Research</li> <li>• Differential Geometry</li> <li>• Combinatorics</li> <li>• Graph Theory</li> <li>• Coding Theory</li> <li>• Cryptography</li> <li>• Advanced Topics in Topology</li> <li>• Statistics and Probability</li> <li>• C Programming</li> <li>• Financial Mathematics</li> </ul>
Research <u>Methodology/OJT/Field Project</u>	Research Methodology	<u>OJT/Field Project</u>

**Note:**

1. Students need to do OJT/Field Project as per NEP guidelines and mentors shall be designated by department/colleges for internship/OJT.
2. Maximum 10 students per teacher shall be allocated for mentorship of OJT/Field Project.
3. The students must complete on-the-job training/internship of 04 credits during summer break, after completion of the second semester of the first year in the respective Major Subject.
4. The assessment of OJT/FP shall be conducted by the Department.
5. Teachers may use software's, if required for teaching contents of a course.
6. SCILAB Programming and C Programming are 4 credit courses, where 2 Theory and 2 practicals per week shall be devoted to them.
7. Term end Theory examination of 80 marks and 20 marks internal assessment shall be conducted for those courses which have theory and practical components.

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Semester I for M.Sc. Program in Mathematics												
Course	Teaching Scheme (Hours/Week)			Credits			Examination Scheme					
	Theory	Practical	Total	Theory	Practical	Total	Duration in Hrs.	Maximum Marks		Total Marks	Minimum Passing marks	
								External assessment Theory	Internal assessment			External assessment + Internal assessment
Major (DSC) 1	4	---	4	4	---	4	3	80	20	100	40	
Major (DSC) 2	4	---	4	4	---	4	3	80	20	100	40	
Major (DSC) 3	4	---	4	4	---	4	3	80	20	100	40	
Elective (DSE)	4	---	4	4	---	4	3	80	20	100	40	
Research Methodology	4	---	4	4	---	4	3	80	20	100	40	

Semester II for M.Sc. Program in Mathematics												
Course	Teaching Scheme (Hours/Week)			Credits			Examination Scheme					
	Theory	Practical	Total	Theory	Practical	Total	Duration in Hrs.	Maximum Marks		Total Marks	Minimum Passing marks	
								External assessment Theory	Internal assessment			External assessment + Internal assessment
Major (DSC) 1	4	---	4	4	---	4	3	80	20	100	40	
Major (DSC) 2	4	---	4	4	---	4	3	80	20	100	40	
Major (DSC) 3	4	---	4	4	---	4	3	80	20	100	40	
Elective (DSE)	4	---	4	4	---	4	3	80	20	100	40	
On Job Training /Field Project (OJT/FP)	4	---	4	4	---	4	3	80	20	100	40	

#### Guidelines about Internal Assessment for Semester I and II:

The internal assessment marks shall be awarded by the concerned teacher. The internal assessment marks shall be sent to the University.

In case, the candidate fails in Theory Examination, the Internal Assessment marks will be carried forward for his next supplementary Examination.

There shall be no separate / extra allotment of work load to the teacher concerned. He/ She shall conduct the internal assessment activity during the regular teaching days / periods as a part of regular teaching activity.

The concerned teacher / department / college shall have to keep the record of all the internal assessment activities until six months after the declaration of the results of that semester.

  
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**2 year PG Program structure under NEP-20 to be implemented from Academic year 2023-24**

	Sem - I	Sem - II
Major (DSC) 4 credits per course	4 x 3	4 x 3
Major Elective (DSE) 4 credits per course	4 x 1	4 x 1
Research Methodology/ <u>OJT/Field Project</u> 4 credits per course	4 x 1	4 x 1
<b>Total Credits</b>	<b>20</b>	<b>20</b>



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# GONDWANA UNIVERSITY, GADCHIROLI



## Syllabus

for

Master of Science (M.Sc.) Chemistry

Based on NEP – 2020

(with effect from 2023-24)

Board of Studies in Chemistry

Faculty: Science and Technology

**Dr. L.S. Ladke**  
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Bhadrawati, Dist.-Chandrapur

8. J. B. Yadav, Advanced Practical Physical Chemistry, Goel Publishing House, 1991.  
9. R. C. Das and B. Behara, Experimental Physical Chemistry, Tata McGraw Hill, 1984

**02MSCCH09 Paper V (OJT/FP)**

Student had to do On job training or Fellow project for 3 credits

**02MSCCHS2 Seminar – II 50 marks Credit 01**

Seminar of 30 minutes duration will be a part of internal assessment for 50 marks (1 credit). Seminar should be delivered by the student under the guidance of concerned teacher on the topic allotted by the teacher. The topic will be related to the syllabus. Marks will be allotted by a group of teachers.



Chairman, BOS, Chemistry



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Bhadrawati, Dist-Chandrapur

# Gondwana University, Gadchiroli

## Master of Arts (NEP 2020)

### M.A History

#### Examination Scheme

#### SEMESTER – II

	Major Papers	Examinations Scheme		Internal Assessment Marks	Total	
		Marks	Credits		Marks	Credits
Major (DSC) Paper – I (Mandatory)	Trends and Theories in History	Full Marks 80	04	20	100	04
Major (DSC) Paper – II (Mandatory)	India Under British Rule : 1857-1905	Pass Marks 32	04	08	40	04
Major (DSC) Paper – III (Mandatory)	Contemporary World : 1950-2000	Full Marks 80	04	20	100	04
	Independent India: 1947-2000	Pass Marks 32	04	08	40	04
	State, Society and Culture of India 300 B.C.-500 A.D.	Full Marks 80	04	20	100	04
	Society Economy and Culture Under the Sultans	Pass Marks 32	04	08	40	04
	Society Economy and Culture Under the Mughals	Full Marks 80	04	20	100	04
	History of Art and Architecture in India: Medieval Period	Pass Marks 32	04	08	40	04
	Nineteenth Century Maharashtra	Full Marks 80	04	20	100	04
		Pass Marks 32	04	08	40	04
		Full Marks 80	04	20	100	04
		Pass Marks 32	04	08	40	04
		Full Marks 400	20	100	500	20
		Pass Marks 160	20	40	200	20
Minor (OUT) / Field Work – V						

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**Gondwana University, Gadchiroli**

**New Education Policy Syllabus 2023**

**FYPGP -History**

**M.A. Sem I**

**Major (DSC)- Four (4) Credit**

1. Historiography
2. India Under Company's Rule: 1757-1856
3. Modern World: 1914 to 1950

**Major Elective (DSE)- Four (4) Credit**

1. Indian National Movement: 1905 – 1947
2. India under the Sultanate Period
3. India Under the Mughals
4. History of India up TO 300 B.C.
5. History of Art and Architecture in India: Ancient Period
6. Socio-Religious Movements in Maharashtra, 1200 To 1700 A.D

**Minor (RM)- Four (4) Credit**

1. RESEARCH METHODOLOGY IN HISTORY

**M.A. Sem – II**

**Major (DSC)- Four (4) Credit**

1. Trends and Theories of History
2. India under British Rule: 1857 – 1905
3. Contemporary World: 1950 to 2000

**Major Elective (DSE)- Four (4) Credit**

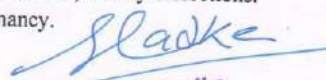
1. Independent India: 1947-2000
2. State, Society and Culture of India, 300 B.C.–500 A.D.
3. Society, Economy and Culture Under the Sultans
4. Society, Economy and Culture Under the Mughals
5. History of Art and Architecture in India: Medieval Period
6. Nineteenth Century Maharashtra

**OJT (On Job Training) - Four (4) Credit**

  
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**Laboratory Exercises/ Field Exercises (Any 12):**

1. Tissue systems, meristem, vascular and cork cambium
2. Internal structure of root, stem and leaf (dicot and monocot), advanced secondary growth in dicot stem and root.
3. Anomalies in primary and secondary structure of stem
4. Study of living shoot apices by dissections using aquatic plants such as *Ceratophyllum* and *Hydrilla*.
5. Study of cytohistological zonation in the shoot apical meristem (SAM) in sectioned and double-stained permanent slides of a suitable plant such as *Coleus*, *Kalanchoe*, *Tobacco*. Examination of shoot apices in a monocotyledon in both T.S. and L.S. to show the origin and arrangement of leaf primordia.
6. Study of alternate and distichous, alternate and superposed, opposite and superposed; opposite and decussate leaf arrangement.
7. Examination of rosette plants (*Launaea*, *Mollugo*, *Raphanus*, *Hyoscyamus* etc) and induction of bolting under natural conditions as well as by GA treatment.
8. Microscopic examination of vertical sections of leaves such as *Cleome*, *Nerium*, Maize and Wheat to understand the internal structure of leaf tissues and trichomes, glands etc. Also study the C3 and C4 leaf anatomy of plant.
9. Study of epidermal peels of leaves such as *Coccinia*, *Gaillardia*, *Tradescantia*, *Thunbergia*, etc. to study the development and final structure of stomata and prepare stomatal index. Demonstration of the effect of ABA on stomatal closure.
10. Study of whole roots in monocots and dicots. Examination of L.S. of root from permanent preparation to understand the organization of root apical meristem and its derivatives. (use maize, aerial roots of banyan, *Pistia*, *Jussiaea* etc.). Origin of lateral roots. Study of leguminous roots with different types of nodules.
11. Study of microsporogenesis and gametogenesis in sections of anthers.
12. Examination of modes of anther dehiscence and collection of pollen grains for microscopic examination (Maize, Grasses, *Crotalaria*, *Tradescantia*, *Brassica*, *Petunia*, *Solanum melongena*, etc.)
13. Tests for pollen viability using stains and *in vitro* germination. Pollen germination using hanging drop and sitting drop cultures, suspension culture and surface culture.
14. Estimating percentage and average pollen tube length *in vitro*.
15. Role of transcription and translation inhibitors on pollen germination and pollen tube growth.
16. Pollen-pistil interaction, self-incompatibility, *in vitro* pollination.
17. Study of ovules in cleared preparations; study of monosporic, bisporic and tetrasporic types of embryo sac development through examination of permanent stained serial sections.
18. Field study of several types of flower with different pollination mechanisms (wind pollination, thrips pollination, bee/butterfly pollination, bird pollination).
19. Emasculation, bagging and hand pollination to study pollen germination, seed set and fruit development using self compatible and obligate outcrossing systems. Study of cleistogamous flowers and their adaptations.
20. Study of nuclear and cellular endosperm through dissections and staining.
21. Isolation of zygotic globular, heart-shaped, torpedo stage and mature embryos from suitable seeds and polyembryony in citrus, jamun (*Syzygiumcumini*) etc. by dissections.
22. Study of seed dormancy and methods to break dormancy.



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NILKANTHRAO SHINDE SCIENCE AND ARTS COLLEGE, BHADRAWATI  
DIST.CHANDRAPUR

M.SC. PART I ZOOLOGY SEMESTER -II (NEP)

P.G.DEPARTMENT OF ZOOLOGY

PROJECT LIST / Field Work

Academic Session : 2023-2024

Sr. No.	Name of Student	Supervisor / Guide	Topic Alloted for field work
1.	Ku.Mayuri D.Raut	Dr.N.V.Harney	Carbon Dioxide Estimation of Gaurala A Freshwater Lake of Bhadrawati Town
2.	Ku.Prachi Haste	Dr.S.R.Sitre	Dissolved Oxygen Estimation of Perennial Lake Gaurala of Bhadrawati
3.	Ku.Pratiksha Bandurkar	Dr.N.V.Harney	Dissolved Oxygen Analysis of Shirpur Lake
4.	Ku.Pranita Burande	Dr.S.R.Sitre	Dissolved Oxygen Estimation of River Erai
5.	Shri Shubham Zade	Dr.N.V.Harney	Analysis of Dissolved Oxygen of Kesurli Lake at Mandar ,Wani Tehsil, Yavatmal District
6.	Ku.Namrata Lengure	Dr.S.R.Sitre	Analysis of Fish Fauna of Gondpipri Fish Market
7.	Ku.Pragati Meshram	Dr.N.V.Harney	Zooplankton Fauna Analysis of Gaurala Lake
8.	Shri Pratham D.Patrange	Dr.S.R.Sitre	Fish Catch Statistics of Bhadrawati Fish Market of Chandrapur District

*R/Sitre*  
11/12/2023  
DR.SHASHIKANT R.SITRE  
CO-ORDINATOR - P.G.DEPARTMENT OF ZOOLOGY

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M.SC. PART II ZOOLOGY SEMESTER –IV (CBCS)

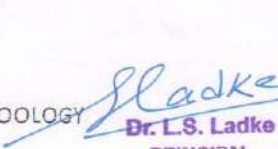
P.G.DEPARTMENT OF ZOOLOGY

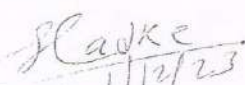
**PROJECT LIST**

**ACADEMIC SESSION : 2023-2024**

Sr. No.	Name of Student	Supervisor	Topic Alloted
1.	Kalyani Donge	Dr.N.V.Harney	Analysis of Dissolved Oxygen of a Perennial Lake : Vijasan
2.	Kunal S.Patrange	Dr.S.R.Sitre	Analysis of Carbon Dioxide Content of Ghotnimbala Lake Water
3.	Nutan S.Korde	Dr.N.V.Harney	Estimation of Alkalinity Content of Ghotnimbala lake Water
4.	Mayur Vishal Gaurkar	Dr.S.R.Sitre	Determination of Dissolved Oxygen Levels in Ghotnimbala Lake Water
5.	Ashwini K.Madavi	Dr.N.V.Harney	Carbon Di Oxide Content Analysis of Ghodpeth Lake Water
6.	Vidya Kamble	Dr.S.R.Sitre	Dissolved Oxygen Estimation of a Perennial Rural Lake : Ghodpeth
7.	Pooja Nibrad	Dr.N.V.Harney	Estimation of Alkalinity of Ghodpeth Lake Water
8.	Sneha Ramteke	Dr.S.R.Sitre	Dissolved CO <sub>2</sub> Content Estimation of a Perennial Lake of Bhadrawati (Vijasan)
9.	Shrutika Kumre	Dr.S.R.Sitre	Estimation of Physico-Chemical Characteristics of a Perennial Rural Lake Vijasan With Respect to Alkalinity

  
DR.SHASHIKANT R.SITRE  
CO-ORDINATOR- PG DEPARTMENT OF ZOOLOGY

  
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P. G. Department of Botany

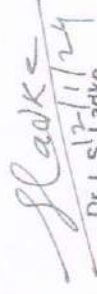
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PROJECTS LIST

M.Sc. (Bot.)-Sem-IV (CBCS) Session (2023-2024)

Sr. No	Name of Students	Title of Project	Supervisor Name
1	Ku. Komal S Bodhe	Study of Physico-chemical Parameter of Gaurala Lake Bhadrawati Dist- Chandrapur Maharashtra India	N S Wadhawe

  
Dr. N. S. Wadhawe

  
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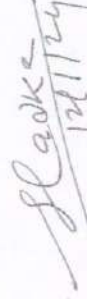
P. G. Department of Botany  
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PROJECTS LIST

M.Sc. (Bot)-Sem-II (NEP) Session (2023-2024)

Sr. No	Name of Students	Title of Project	Supervisor Name
1	Tushar S Dhande	Survey of Medicinal Plants in Wani Area Tah- Wani Dist- Yavatmal, Maharashtra , India	Dr N. S. Wadhave
2	Vishal V. Dewalkar	Survey of Medicinal Plants in Wani Area Tah- Wani Dist- Yavatmal, Maharashtra , India	Dr N. S. Wadhave
3	Ganesh S. Khiratkar	Survey of Medicinal Plants in Wani Area Tah- Wani Dist- Yavatmal, Maharashtra , India	Dr N. S. Wadhave

  
Dr. N. S. Wadhave

  
Dr. L. S. Ladke  
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Milkeerthi Rao Shinde Science and Arts  
College, Bhadravati, Dist. Chandrapur

M.B. Level - II

(OJT / Field Projects)

- Summer-2024 -

(1)

(Academic Session-2023-2024)

1) Title - Survey of Medicinal plants in  
Bhadravati Area, Dist. Chandrapur,  
Maharashtra, India.

By Ms. Rutika Anil Fulmali

Guide - Dr. Praveenkumar N. Narsare.

2) Title - Cultivation of Cicer arietinum  
in Ashi Field, Tah. Wazora, Dist. Chandrapur  
Maharashtra

By Ms. Shazad M. Kolhe.

Guide - Dr. Praveenkumar N. Narsare

3) Title - Survey of Medicinal plants in  
Wani Area, Tah. Wani, Dist. Yavatmal,  
Maharashtra, India.

By Ms. Vishal Vinod Dewalkar.

Guide - Dr. N.S. Wadhare.

4) Title - Survey of Medicinal Plant  
Wani Area, Tah. Wani, Dist. Yavatmal,  
Maharashtra, India.

Dr. L.S. Ladke  
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By Ms. Tushar Suresh Dhande

Guide - Ms. Nathe S. Wadhare.

(2)

Title - Survey of Various Winter crops of Wani Area, Tah-Wani, Dist-Yavatmal, Maharashtra, India.

By Ms. Shradha B. Lonbale

Guide - Dr. Praveenkumar N. Nasare

6) Title - Survey of Medicinal plant in Wani Area, Tah-Wani, Dist-Yavatmal, Maharashtra, India.

By Mr. Ganesh Sadanand Khizalkar

Guide - Dr. Nathu S. Wadhawe

Place - Bhadravati

Date - 23/04/2024

PRAVEENKUMAR

Dr. Praveenkumar N. Nasare

Coordinator

M. Sc. Botany

PG Department

Nilkanteshwar Shinde

Science & Arts College,

Bhadravati

Ladke

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Mihirrao Shinde Science and Arts College,  
Bhadrawati; Dist-Chandrapur.

- M.Sc. Sem-IV -

(Research Project)

(1)

- Summer-2024 -

(Academic Session-2023-2024)

1) Title - Survey of Plants in Botanical Garden  
and campus of N.S. College, Bhadravati  
Dist-Chandrapur, Maharashtra, India

By Divya Deepak Patil

Guide - Dr. Praveenkumar N. Narsa

2) Title - Survey of Medicinally important  
Plants of Chandrapur

By Kalyani Ashok Nandapur

Guide - Dr. Praveenkumar N. Narsa

3) Study of physico-chemical Parameters  
of Gawala Lake, Bhadravati, Dist-  
Chandrapur, Maharashtra, India

By Kamal Sudhakar Bodhe

Guide - Dr. Nethu S. Wadhare

Slacke

Dr. L.S. Ladke  
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N.S. Science & Arts College  
Bhadrawati, Dist-Chandrapur

Title-  
1) Survey of Medicinal Plants of (2)  
Bhadrawati, Dist. Bhadrawati, Dist.  
Chandrapur, Maharashtra, India.  
By Ms. Sakshi Ramesh Bandekar  
Guide - Dr. Praveenkumar N. Naware

5) Title - Forest Cover in Chandrapur  
district and Significance: A Data  
Based Field Study.  
By Mr. Fashan Yansu Sheikh  
Guide - Dr. Praveenkumar N. Naware

Place - Bhadrawati

Date - 23/09/2024

(Praveenkumar N. Naware)

Dr. Praveenkumar N. Naware  
Coordinator

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Nikantshao Sheikh  
Science and Arts  
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P. G. Department of Physics

N. S. Science & Arts College, Bhadrawati, Dist- Chandrapur

PROJECTS LIST

M.Sc. (Phy)-Sem-II (NEP) Session (2023-2024)

Sr. No	Name of Students	Title of Project	Supervisor Name
1	Ms. Mayuri D. Bodhe	Electrical Conductivity of Polyaniline	Dr. A. D. Dahegaonkar
2	Ms. Pallavi S. Kale	Dielectric Properties of Conducting Polyaniline	Dr. A. D. Dahegaonkar
3	Ms. Akansha P. Gallewar	Luminescence	Dr. K. N. Shinde
4	Mr. Atif S. Sheikh	Luminescence	Dr. K. N. Shinde
5	Ms. Rajashree S. Dixit	Luminescence	Dr. K. N. Shinde
6	Ms. Punam K. Ambekar	Molecular Interaction Study Using Ultrasonic Technique for Organic liquids at 3 MHz	Dr. G. R. Bedare
7	Ms. Nikita V. Jambhulkar	Study of LPG Gas Sensorby using pure ZnO material.	Mr. K. V. Bhongale
8	Ms. Gitika K. Durge	Study of pure SnO2 based LPG Gas Sensor.	Mr. K. V. Bhongale

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*Dahegaonkar*

Head  
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*Ladke*  
12/11/24

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Bhadrawati, Dist-Chandrapur

P. G. Department of Physics

N. S. Science & Arts College, Bhadrawati, Dist-Chandrapur

PROJECTS LIST

M.Sc. (Phy)-Sem-II (NEP) Session (2023-2024)

Sr. No	Name of Students	Title of Project	Supervisor Name
1	Ms. Mayuri D. Bodhe	Electrical Conductivity of Polyaniline	Dr. A. D. Dahegaonkar
2	Ms. Pallavi S. Kale	Dielectric Properties of Conducting Polyaniline	Dr. A. D. Dahegaonkar

*Dahegaonkar*

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Nilkanthrao Shinde Science & Arts College, Bhadrawati,

Dist- Chandrapur

P. G. Department of Physics

PROJECTS LIST

M.Sc. (Phy)-Sem-IV (CBCS) Session (2023-2024)

Sr. No	Name of Students	Title of Project	Supervisor Name
1	Ms Pallavi D. Turankar	Combustion Synthesis of $\text{Eu}^{3+}$ Activated $\text{ALPO}_4$	Dr Kartik N. Shinde

*P. G. Shinde*  
Head

Department of Physics  
Nilkanthrao Shinde Science &  
Arts College, Bhadrawati Dist-Chandrapur

*L. S. Ladko*

Dr. L. S. Ladko  
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Bhadrawati, Dist.-Chandrapur

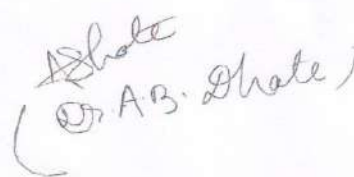
Nilkanthrao Shinde Science and Arts College, Bhadrawati

Department of Chemistry

M.Sc. Projects 2023-24

Sr. No.	Title of Projects	Name of Students	Name of Supervisor
1.	Studied the Fermentation of Gram Flour, Corn Flour and Sorghum Flour.	Parikshita C. Kakde	Dr. Aparna B. Dhote
2.	Studied the Fermentation of Wheat Flour, Rice Flour and Bajra Flour.	Pratiksha H. Zade	Dr. Aparna B. Dhote
3.	Determination of calcium Carbonate in Talcum Powder.	Pratiksha S. Chamatkar	Dr. Aparna B. Dhote
4.	Determination of calcium Carbonate in Talcum Powder.	Nikita P. Kamatkar	Sachin H. Shrirame
5.	Physico Chemical Study of Soil from Different Location in Bhadrawati.	Surbhi k. Bora	Dr. Kiran P. Jumde

  
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(Dr. A.B. Dhote)