



Navgan Shikshan Sanstha Rajuri (N)

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed-431122



Principal

Dr. S.V. Kshirsagar

NAAC recredited - A Grade

ISO- 21001:2018

Green audit

Secretary

Dr. B. S. Kshirsagar

[3.15 CGPA as per New RAF]

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Criterion II: Teaching Learning Evaluation


2.3: Teaching- Learning Process

2.3.1: Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process

1.	Practical Time Table
2.	Syllabus of Laboratory Courses
3.	Learning through Project Work
4.	Learning through Laboratory Practical's

NSSR'S Mrs. K.S.K. Alias Kaku College, Beed
Academic Year-2023-24
B. Sc. I Year
Batches and subject combination

Batch No.	Subject combination	No. of students
F-1	Physics, Chemistry, Math	01-20
F-2	Physics, Chemistry, Math	21-39
F-3	Physics, Chemistry, Computer Sci.	01-16
F-4	Physics, Chemistry, Computer Sci.	17-31
F-5	Chemistry, Botany, Zoology	01-20
F-6	Chemistry, Botany, Zoology	21-40
F-7	Chemistry, Botany, Zoology	41-57
F-8	Chemistry, Botany, Microbiology	01-16
F-9	Chemistry, Botany, Microbiology	17-32
F-10	Chemistry, Zoology, Microbiology	01-25
F-11	Chemistry, Zoology, Microbiology	26-51
F-12	Math, Physics, Computer science	01-17
F-13	Math, Physics, Computer science	18-34


Principal

NSSR'S Mrs. K.S.K. Alias Kaku College, Beed
Academic Year-2023-24
B.Sc. II Year
Batches and subject combination

Batch No.	Subject combination	No. of students
S-1	Physics, Chemistry, Math	01-15
S-2	Physics, Chemistry, Math	16-30
S-3	Physics, Chemistry, Computer Sci.	All (01-17)
S-4	Chemistry, Botany, Zoology	01-18
S-5	Chemistry, Botany, Zoology	19-36
S-6	Chemistry, Botany, Microbiology	All (01-10)
S-7	Chemistry, Zoology, Microbiology	01-19
S-8	Chemistry, Zoology, Microbiology	20-38
S-9	Math, Physics, Computer science	All (01-20)

Note: Number of students in batches is tentative, final students strength will be given you after completion of admission process.


Principal

NSSR'S Mrs. K.S.K. Alias Kaku College, Beed
Academic Year-2023-24
B.Sc. III Year
Batches and subject combination

Batch No.	Subject combination	No. of students
T-1	Physics, Chemistry, Math	01-20
T-2	Physics, Chemistry, Computer Sci.	All-(01-17)
T-3	Chemistry, Botany, Zoology	01-20
T-4	Chemistry, Botany, Zoology	21-40
T-5	Chemistry, Botany, Microbiology	All (01-07)
T-6	Chemistry, Zoology, Microbiology	01-16
T-7	Chemistry, Zoology, Microbiology	17-33
T-8	Math, Physics, Computer science	All -(01-18)


Principal

NSSR'S Mrs. K.S.K. Alias Kaku College, Beed
 Practical Time Table
 Academic Year-2023-24
 B. Sc. I Year

Time/Day	01.20 To 03.50	03.50 To 06.20
Monday	Chemistry-F7 Physics-F3 Microbiology-F8	Chemistry -F4 Physics-F12 Microbiology-F9
Tuesday	Chemistry- F5 Physics-F4 Microbiology-F10	Chemistry- F6 Physics-F2 Microbiology-F11
Wednesday	Chemistry F2 Botany-F8 Physics-F1	Chemistry-F9 Botany-F5 Physics-F13
Thursday	Chemistry- F3 Botany-F6	Chemistry- F8 Botany-F7+F9
Friday	Zoology-F5 Chemistry- F1 Computer Sci-F3	Zoology-F6+F7 Chemistry-F10+F11 Computer Sci-F4
Saturday	Zoology-F10 Computer Sci-F12	Zoology-F11 Computer Sci-F13


Principal

NSSR'S Mrs. K.S.K. Alias Kaku College, Beed
Practical Time Table
Academic Year-2023-24
B.Sc. II Year

Time/Day	01.20 To 03.50	03.50 To 06.20
Monday	Chemistry-S1+ S2 Botany-S4+S5 Computer sci.- S3+S9	Chemistry – S7+S8 Botany-S6
Tuesday	Chemistry-S1+S2 Botany-S4+S5 Computer sci.- S3+S9	Chemistry – S7+S8 Botany-S6
Wednesday	Zoology-S5+S7 Physics-S1+S9 Chemistry-S6	Zoology-S4+S8 Physics-S2+S3
Thursday	Zoology-S5+S7 Physics-S1+S9 Chemistry-S6	Zoology-S4+S8 Physics-S2+S3
Friday	Chemistry- S4+S5 Microbiology – S7+S8	Chemistry- S3 Microbiology – S6
Saturday	Chemistry- S4+S5 Microbiology – S7+S8	Chemistry- S3 Microbiology – S6

Note: This is tentative schedule of practical classes the final schedule will provide you after admission process of B. Sc. II Year.


Principal

NSSR'S Mrs. K.S.K. Alias Kaku College, Beed
 Practical Time Table
 Academic Year-2023-24
 B.Sc. III Year

Time/Day	01.20 To 03.50	03.50 To 06.20
Monday	Chemistry-T1+T5 Zoology-T3+T4	Chemistry -T2+ T8 Zoology-T6+T7
Tuesday	Chemistry-T1+T5 Zoology-T3+T4	Chemistry -T2+ T8 Zoology-T6+T7
Wednesday	Chemistry-T4 Microbiology-T6+T5 Computer Sci. -T2+T8	Chemistry- T3 Microbiology-T7
Thursday	Chemistry-T4 Microbiology-T6+T5 Computer Sci. -T2+T8	Chemistry- T3 Microbiology-T7
Friday	Physics-T1+T2 Botany -T3+T5 Chemistry-T7	Physics-T8 Botany-T4 Chemistry-T6
Saturday	Physics-T1+T2 Botany -T3+T5 Chemistry-T7	Physics-T8 Botany-T4 Chemistry-T6


Principal

B. Sc. First Semester

Credit: 02

Zoo-103

Paper-III PRACTICAL

PROTOZOA TO ECHINODERMATA & Cell Biology

1. **Study of animals belonging to** Protozoa, Porifera, Cnidaria, Ctenophora, Platyhelminthes, Aschelminthes and Annelida with special reference to systematic position up to class level, habit, habitat, characteristic features and economic importance (one example of each class and Local examples are to be given more emphasis) with the help of Museum specimens, models, charts, Microslides, Photographs and Digital sources.

2. **Study of animals belonging to** - Onychophora, Arthropoda, Mollusca, Echinodermata with special reference to systematic position up to class level, habit, habitat, characteristic features and economic importance. (one example of each class and Local examples are to be given more emphasis) with the help of Museum specimens, Models, Charts, Microslides, Photographs and Digital sources.

3. Method of protozoan culture (Any one)

4. Identification of Protozoan's and Coelenterates in pond water sample

5. Temporary mounting of :-

- Gemules and Spicules of sycon
- Obelia colony
- Parapodium of Neries

6. Study of diversity of mouth parts in insect:- Mosquito, Housefly, Honey bee, Cockroach, Butterfly

7. Digestive and Nervous system of Earthworm (Museum specimen/Charts/digital sources)

8. Digestive system of Cockroach (Museum specimen/digital sources)

9. Study of Prokaryotic cells –Grams staining technique

10. Study of Eukaryotic cells using suitable staining technique (Buccal epithelial cells)

11. Study of cytoplasmic movements in paramecium

12. Localization of Mitochondria by Janus Green stain

13. Study of cancer cells through permanent slides

14. Study of cell organelles through electron micrographs/charts

15. Study of Mitosis using suitable material /Meiosis using permanent slides.

Note: Demonstration of animal dissections through Computer Aided

Hardy-Weinberg's Law.

**B. Sc. Second Semester
Course Code - ZOL- 106
Zoology Paper: VI**

DIVERSITY OF CHORDATA-II

Based on Protochordata to Mammals&Genetics

PRACTICALS

Credits 02

1. **Protochordata:** Study of specimens: *Balanoglossus, Herdmania, Branchiostoma, Salpa, Doliolum, Oikopleura, Botryllus*
2. **Agnatha:** Study of specimens: *Petromyzon, Myxine*
3. **Fishes:** Study of specimens: *Scoliodon, Sphyrna, Pristis, Torpedo, Chimaera, Mystus, Heteropneustes, Labeo, Exocoetus, Echeneis, Anguilla, Hippocampus, Tetradon/ Diodon, Anabas, Cyannoglossus.*
4. **Amphibia:** Study of specimens: *Ichthyophis/Ureotyphlus, Necturus, Bufo, Hyla, Alytes, Salamandra*
5. **Reptilia:** Study of specimens: *Chelone, Trionyx, Hemidactylus, Varanus, Uromastix, Chamaeleon, Ophiosaurus, Draco, Bungarus, Vipera, Naja, Hydrophis, Zamenis, Crocodylus.* Key for Identification of poisonous and non-poisonous snakes
6. **Aves:** Study of six common birds from different orders. Types of beaks and claws
7. **Mammalia:** *Sorex, Bat (Insectivorous and Frugivorous), Funambulus, Loris, Herpestes, Erinaceus.*
8. Visit to Zoological survey of India/ Museum/National Park.
9. Observation of common mutants of *Drosophila*
10. Determination of human blood groups A, B, AB, and O, Rh factor.
11. Major and minor problems in genetics
12. Study of preparation of Normal Karyotype of human.

13. Karyotypic study of Down's syndrome, Turner's syndrome,

14. Klinefelter's syndrome with the help of photograph.

14. Detection of Barr body from epithelial cell.

15. Problems on sex linked inheritance.

16.. Study of gene frequency and mutants of man

➤ Attached and free ear lobe.

➤ Colour of eye.

➤ Rolling of tongue.

➤ Blood group frequency.

17. Human pedigree analysis- various symbols used.

18. Study of permanent slide of sickle cell anemia

B.Sc. III Semester
Paper:ZOL- 203
DEVELOPMENTAL BIOLOGY OF VERTEBRATES
(PRACTICAL)

1. Study of Whole mount of different types of Sperm(Slide)
2. Types of Egg and cleavage pattern (Slides/ LCD Projector)
3. Study of different stages of frogdevelopment.(Models/Specimen)
4. Study of types of placenta in Mammals (Slides/LCD Projector)
5. Study of Blastula, Gastrula, Morula in Frog (Slides/LCD)
6. Study of whole mount of 24 Hrs, 33 Hrs., 48 Hrs., 72 hrs., 96 Hrs. Chick embryo (Slide)
7. Slide preparation and mounting of Chick Embryo from the Incubated Egg

B.Sc. III Semester
Paper: ZOL- 204
BIOCHEMISTRY AND ENDOCRINOLOGY
(PRACTICAL)

1. Preparation of solutions of given percentage, normality and molarity.
2. **Study of analytical instrument principle and applications.**
 - pH meter,
 - Colorimeter,
 - Centrifuge
 - Electrophoresis
3. Factors affecting enzymes activity temperature and pH.
4. Detection of amino acid by paper chromatography.
5. **Qualitative test for organic compound.**
 - Carbohydrate.
 - Protein.
 - Fats.
6. Quantitative estimation of protein from animal tissue using Lawry's method.
7. Study of biochemical Qualitative and Quantitative test for Urine
8. Determination of Hemoglobin from given blood sample
7. **Study of permanent histological slides of endocrine glands.**
 - T.S. of Pituitary gland,
 - T.S. of Thyroid gland,
 - T.S. of Adrenal Gland,
 - T.S. of Islets of Langarhans.
 - T.S. of Testis
 - T.S. of Ovaries

Skill Enhancement Course
Practical Based on ZOL-SEC-205
ZOL-SEC-207 HAEMATOLOGY

1. Collection of blood by Venipuncture and arterial blood.
2. Determination of haemoglobin from given blood sample, Clotting and bleeding time of blood.
3. Determination of Total Count of RBC, WBC.
4. Determination of differential WBC Count by blood Smear

Skill Enhancement Course
Practical Based on ZOL-SEC-206
ZOL-SEC-208 URINOLOGY

1. Study of normal and abnormal constituents of Urine.
2. Biochemical Qualitative and Quantitative tests for urine
3. Study of Microscopic Examination of urine.
4. Qualitative tests for sugar and albumin,

REFERENCE BOOKS: (HAEMATOLOGY)

1. Medical Laboratory Technology - Ramnik Sood
2. Medical Lab Technology Vol. I, II & III – Kanai Mukherjee
3. Hand Book of Medical Technology - Mrs. Chitra
4. Medical Laboratory Technology – A. Ananthanarayan
5. Manual for Laboratory Technician of Primary Health by Minister of Health
6. Human Physiology Vol. I & II – C. C. Chatterji

REFERENCE BOOKS (URINOLOGY)

7. Medical Laboratory Technology - Ramnik Sood
8. Medical Lab Technology Vol. I, II & III – Kanai Mukherjee
9. Hand Book of Medical Technology- Mrs. Chitra
10. Medical Laboratory Technology – A. Ananthanarayan
11. Manual for Laboratory Technician of Primary Health by Minister of Health
12. Human Physiology Vol. I & II – C. C. Chatterjee

B.Sc. IV Semester
Course Code - ZOL- 211
PAPER:
Ecology
Practical

1. Estimation of Dissolved oxygen from given water sample.
2. Estimation of Water Alkalinity from given water sample.
3. Estimation of population density by quadrat method.
5. Study of microscopic fauna of freshwater ecosystem (from pond).
6. Estimation of water holding capacity of given soil sample.
7. Estimation of Salinity/Chlorinity from water sample.
8. **Preparation of permanent slides of the following:**
 - a) Spirogyra b) Volvox c) Oedogonium d) Daphnia e) Cyclops f) Mysis
10. Visit to Ecosystem: Marine/Fresh water/Desert Ecosystem

Recommended Reference Books:

1. Colvinvaux, P. A. (1993). Introduction to Ecology. II Edition. Wiley, John and Sons, Inc.
2. Krebs, C. J. (2001). Ecology: The Experimental Analysis of Distribution and Abundance, 6th Edition, ©2009, Pearson
3. Odum, E.P., (2008). Fundamentals of Ecology. Indian Edition. Brooks/Cole
4. Robert Leo Smith Ecology and field biology Harper and Row publisher
5. Ricklefs, R.E., (2000). Ecology. V Edition. Chiron Press
6. Sharma P.D. (2002) Ecology and Environment, Himalaya Publication
7. Verma and Agarwal- Principal of Ecology
8. Dutta- Fundamentals of Ecology
9. Clarke, G.L. Elements of Ecology

B.Sc. IV Semester
Course Code - ZOL- 212
PAPER: XIV
Evolution
Practical

1. **Study of evidences by using photograph/charts and models**
 - a) Analogous and Homologous organs
 - b) Connecting link (*Peripatus and Archaeopteryx*)
 - c) Embryological evidences
2. **Study of adaptations** (Museum Specimens).
3. **Study on patterns of speciation with the help of Charts/Models/Pictures**
 - a) Allopatric Speciation
 - b) Sympatric Speciation
4. **Study of successive stages of evolution with the help of Charts/models**
 - a) Horse
 - b) Human

Recommended Reference Books:

1. Evolution – Moody
2. Evolution – Gopalkrishnan
3. Organic Evolution – M.P. Arora (Himalaya Pub. House)
4. Evolution – M.W. Strickberger (CB Publishers)
5. Organic Evolution – N. Armugam (Saras Pub.)
6. Evolution- Surjeet Publication, Delhi
7. Jha,A.P. Genes & Evolution, John Publication, New Delhi
8. P.K. Gupta-Ecology, Genetics and Evolution
9. Tomer and Singh-Organic evolution, Rastogi Publication, Meerut

Skill Enhancement Course
Practical Based on ZOL-SEC- 213: Microtechnique

Credit: 01
ZOL-SEC-214 Microtechnique

1. Isolation and collection of tissue, fixing and block preparation.
2. Tissue processing of prepared blocks.
3. Technique of Section Cutting, fixing, alcohol grading, staining and preparation of permanent slide.
4. Methods of preparation and examination of tissues (fresh and fixed tissue)

REFERENCE BOOKS:

1. Histochemical Techniques – J. D. Bancrot.
2. Handbook of Histopathological and Histochemical Techniques - C.F.A. Culling.
3. Histological and Histochemical Methods 4th Edition – John Kiernan

Skill Enhancement Course
Practical Based on ZOL- SEC-214: APICULTURE

Credit: 01
ZOL-SEC-215:APICULTURE

1. Visit to the Apiculture centers, Collect practical information of artificial Bee Hives and its mechanism.
2. Collection of natural bee hives, wax, honey etc.
3. Methods of extraction of honey (Indigenous and Modern).

REFERENCE BOOKS:

1. Apiculture - Prost, P. J. (1962), Oxford and IBH, New Delhi.
2. Apiculture - Bisht D. S., ICAR Publications.
3. Bee Keeping in India - Indian Council of Agricultural Research, New Delhi.

B. Sc. First Semester

**Course Code - ZOL- 103
Zoology Paper – III**

PROTOZOA TO ANNELIDA (PRACTICAL)

- | | |
|--|-----------|
| 1. Study of slides from Ciliates, Opalinates, and Flagellates(any five) | 01 |
| 2. Study of museum specimen and slides from Porifera to Annelida.
(Three from each phyla) | 02 |
| [Note, Identification, Classification, Sketch & any 3 to 4 points related to
(One point) habitat (one or two point) structure & (one point from)
Biological importance.] | |
| 3. Dissection: | |
| ➤ Dissection of Leech for Digestive, Excretory & Reproductive systems. | 09 |
| ➤ Dissection of Earthworm for Nervous System & Reproductive system | |
| 4. Mounting of any five of the following. | 03 |
| ➤ Sponge spicules, Gemmule, <u>Obelia colony</u> , Jaws of Leech. | |
| ➤ Spermataca, testes nerve ring of Earthworm, Parapodia of Nereis. | |
| Total Practical Periods | 15 |



B. Sc. First Semester

**Course Code - ZOL- 104
Zoology Paper – IV**

CELL BIOLOGY (PRACTICAL)

- | | | |
|----|---|----|
| 1. | Study of cell organelles by using Models, Charts, Slides & Electron micrographs. | 02 |
| 2. | Squash preparation of Onion root tip to study Mitosis. | 02 |
| 3. | Preparation of polytene chromosome in chironomous larva/fruit flies. | 02 |
| 4. | Microtechnique: - Fixation, dehydration, Block preparation, Microtomy and Staining of Rat tissue. | 06 |
| 5. | Study of Microscopy: - Simple, Compound, & Phase Contrast Microscope | 03 |

Total Practical Periods 15

B. Sc. Second Semester

**Course Code – ZOL- 203
Zoology Paper – VII**

ARTHROPODA TO ECHINODERMATA AND PROTOCHORDATA (PRACTICAL)

- | | |
|--|-----------|
| 1. Study of museum specimen & slides of relevant Invertebrates & Protochordata. (At least 3 form each phylum). | 03 |
| 2. Dissections: | 09 |
| ➤ Dissection of Prawn for Nervous system | |
| ➤ Dissection of Cockroach for Digestive and Nervous Systems. | |
| ➤ Dissection of Pila for Nervous system. | |
| ➤ Dissection of Sea Star for Water Vascular System. | |
| 3. Mounting of any five of the following. | 03 |
| ➤ Mouthparts of <u>Cockroach</u> , <u>Mosquito</u> , <u>House fly</u> , Bed bug and Honeybee. | |
| ➤ Salivary glands of cockroach. | |
| ➤ Redula of Pila, Pedicillaria of Star fish. | |

Total Practical Periods =15

B. Sc. Second Semester

**Course Code – ZOL-204
Zoology Paper –VIII**

GENETICS – I (PRACTICAL)

- | | | |
|----|--|----|
| 1. | Culture of Drosophila- experimental organism in genetics | 02 |
| 2. | Observation of common mutant of drosophila. | 02 |
| 2. | Determination of human blood groups A, B, AB, and O, Rh factor. | 01 |
| 3. | Minor problems based on monohybrid ratio & human blood group and its interpretation. | 04 |
| 4. | Major problems based on dihybrid ratio & interaction of genes. | 04 |
| 5. | Study of chromosomal aberration | 02 |

Practical Periods 15

B.Sc. III Semester

Course Code - ZOL- 303
PAPER XI

IX

VERTEBRATE ZOOLOGY (Practical)

-
- | | |
|--|----|
| 1. Museum study of vertebrates. (At least 20).
(Identification, classification, sketches, General characters and biological importance) | 05 |
| 2. Dissection of Scoliodon / Labeo
➤ Afferent and efferent,
➤ Cranial Nerves.
➤ Brain | 03 |
| 3. Dissection of Rat/ Frog ;
➤ Urinogenital system,
➤ Arterial system,
➤ Venous System,
➤ Brain of Rat. | 05 |
| 4. Mounting of Placoid, Cycloid and Ctenoid scales of fish | 01 |
| 5. Study of Embryological development of chick according to hours of incubation.
<i>24 hrs. 36 hrs.</i> | 01 |
| 6. Visit to Zoological museum/Zoo Park is compulsory and Submission of report | |
| 7. Write a report on common birds/mammals in your locality, scientific names and economic importance. | |

Total Practical periods: - 15

1/2
1/2

B.Sc. III Semester

Course Code - ZOL- 304

PAPER XII

GENETICS – II (Practical)

- | | |
|--|----|
| 1. Preparation of paper model of DNA and study of DNA structure | 01 |
| 2. Study of protein synthesis with the help of charts/models. | 02 |
| 3. Estimation of DNA from animal tissue with the help of Diphenyl amine method. | 02 |
| 4. Study of preparation of Normal Karyotype of human. | 01 |
| 5. Karyotypic study of Down's syndrome, Turner's syndrome, Klinefelter's syndrome with the help of photograph. | 02 |
| 6. Detection of Barr body from epithelial cell. | 01 |
| 7. Problems on sex linked inheritance | 02 |
| 8. Problems based on Hardy – Weinberg's law | 02 |
| 9. Study of gene frequency and mutants of man ; | 02 |
| ➤ Attached and free ear lobe. | |
| ➤ Colour of eye. | |
| ➤ Rolling of tongue. | |
| ➤ Blood group frequency. | |

Total Practical periods: - 15

B.Sc. IV Semester

PAPER XV

XIII

ANIMAL PHYSIOLOGY (PRACTICAL)

- | | |
|---|----|
| 1. To study the digestive enzymes from cockroach/Human Saliva. | 02 |
| 2. Total count of RBC/WBC from given blood sample. | 01 |
| 3. Preparation of Heamatin crystals from blood sample. | 01 |
| 4. Hb% from given blood sample. | 01 |
| 5. Effect of isotonic, hypotonic, and hypertonic solutions on blood cell (RBCs) | 01 |
| 6. Detection of nitrogenous west product from the extract of different animals | 01 |
| 7. Detection of nitrogenous west product in fish/frog water tank. | 01 |
| 8. Estimation of O ₂ consumed by fish in relation to temperature by
Winkler's method. | 02 |
| 9. Typographic reading of skeletal muscle properties , heart beating in
Toad / Rat. (Demo only) | 01 |
| 10. Histological study of following. | 01 |
| > T.S. of Kidney | |
| > T.S. of Testis | |
| > T.S. of Ovary | |
| > T.S. of Pancreas | |
| > T.S. of Intestine | |

Total practical periods 15

B.Sc. IV Semester

Course Code - ZOL- 404

XIV

BIOCHEMISTRY AND ENDOCRINOLOGY (PRACTICAL)

Nov 2011	preparation of sol ⁿ of given percentage, Normality & Molarity Molarity	2. Study of analytical instrument principle and applications.	04
		<ul style="list-style-type: none">> pH meter,> Colorimeter,> Centrifuge> Electrophoresis	
Dec 11		3. Factors affecting enzymes activity temperature and pH.	02
		4. Detection of amino acid by colorimetric method.	01
January 2011		5. Qualitative test for organic compound.	03
		<ul style="list-style-type: none">> Carbohydrate.> Protein> Fat.	
		6. Quantitative estimation of protein from animal tissue using Lawry's method.	02
Feb 2011		7. Study of permanent histological slides of endocrine glands.	02
		<ul style="list-style-type: none">> T.S. of Pituitary gland,> T.S. of Thyroid gland,> T.S. of Adrenal Gland,> T.S. of Islets of Langerhans.> T.S. of Testis> T.S. of Ovary	

Total practical periods: - 15

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B.Sc. V Semester

Course Code - ZOL- 503

PAPER - XIX



ECOLOGY (PRACTICAL)

1. Estimation of productivity of pond ecosystem using white and dark bottle method. **02**
2. Determine the following parameters of soil. **04**
 - pH
 - Alkalinity
 - Chlorinity
 - Salinity
 -
3. Analysis of DO, CO₂, Salinity, Chlorinity of water sample. **04**
4. Study of animal association ship with example (Charts/photo) -Competition, mutualism, parasitism, predation and commensalisms. **01**
5. Estimation of population density by Quadrate method on field and by Simulation method. **04**
6. Preparation of permanent slides of following
Spirogyra, Verticella, Odogonium, Daphnia, Cyclops, Mysis, Cypris, keretella
7. Project report: - Forest or fresh water ecosystem.

Total practical periods: - 15

B.Sc. V Semester

Course Code - ZOL- 504
PAPER XX-A

FISHERY SCIENCE – I (PRACTICAL)
(Elective Paper)

-
- | | | |
|----|---|----|
| 1. | Study of freshwater fishes. | 03 |
| | Major carps ✓ | |
| | Other carps ✓ | |
| | Cat fishes ✓ | |
| | Clupoides ✓ | |
| 2. | Study of brackish water fishes. | 02 |
| | <i>Hilsa hilsa, Chanos chanos (milkfish), Latis calcarifer, Tilapia</i> | |
| 3. | Study of marine ware fishes. | 03 |
| | Oil sardine. | |
| | Mackerel | |
| | Ribbon -fish . | |
| | Bombay-duck | |
| | Pomfret ✓ | |
| | Sole | |
| | Polynemus | |
| 4. | Water analysis | 05 |
| 5. | Visit to local or any reservoir and marine fish landing centre and student should be submit a project report at the time of practical examination | 02 |

Total practical periods: - 15

B.Sc. VI Semester

Course Code – ZOL - 603
PAPER XXXIII

XXI

EVOLUTION (PRACTICAL)

1. Embryological evidences of evolution with the help of slide/chart/pictures.	02
2. Adaptive modification in feet of birds and mouth parts of insects	02
3. Study of successive stages of evolution with the help of models/charts	02
➤ Horse	
➤ Human	
4. Discussion on patterns of speciation with the help of charts /pictures.	02
➤ Allopatric speciation	
➤ Sympatric speciation.	
5. Study the homologous and analogous organs.	04
6. Study of natural selection using <i>E.coli</i> bacteria against antibiotics (Tetramycin/ Penicillin)	01
7. Study of geographical era.	02
Total Practical periods	15

B.Sc. VI Semester Course

**Code - ZOL- 604
PAPER XXIV - A**

**FISHARY SCIENCE - II (PRACTICAL)
(Elective Paper)**

1.	Primary productivity of ponds (plankton studies).	02
2.	identification, classification and culturaable significance of following. Catla, rohu, mrigal, catfishes, exotic canoj	03
3.	Collection and identification of fish parasites and worms.	04
4.	Removal of fish pituitary gland and preparation of pituitary extract	02
5.	Identification of crafts and gears. <u>Gill net</u> , Rampanni, Satpalti, Machwa, Catamaran.	02
6.	A visit to fish farm and fish processing centre is compulsory.	02
Total Practical Periods		15

SUBJECT: Comp. Sci. (opt.) Semester: I Hours/week: 3
Code : CSO3

Office Lab

Objective: To impart the student hands on practice so that students should be able to: *Create, Save, Copy, Delete, Organize various types of files and manage the desk top in general, use a standard word and spread-sheet processing package exploiting popular features.*

- **GUI Operating System:** Mouse Practice, Starting, Login, Shutdown, Exploring Directories, Resizing, Moving, Minimizing, closing of software windows, familiarization with file icons, Launching Applications, Deleting, Renaming files, Managing Directories, Searching for files, Using Accessories.
- **Web Browser:** Basic Browsing, Buttons: forward, backward, home, adding to favorites, stop, save, save as, Saving an Image from the Web, printing, Specifying a Home Page, **Browsing:** Using Web URLs, Anatomy of a URL, Membership Websites: Signing up for email service, **Searching:** Academic Search on the web.
- **Word Processing Tool:** Menus, Shortcut menus, Toolbars, Customizing toolbars, Creating and opening documents, Saving documents, Renaming documents, Working on multiple documents, Close a document ; **Working With Text** :Typing and inserting text, Selecting text, Deleting text, Undo, Formatting toolbar, Format Painter, Formatting Paragraphs: Paragraph attributes, Moving, copying, and pasting text, The clipboard, Columns, Drop caps; **Styles** : Apply a style, Apply a style from the style dialog box, Create a new styles from a model, Create a simple style from the style dialog box, Modify or rename a style, Delete a style; **Lists** : Bulleted and numbered lists, Nested lists, Formatting lists **Tables** :Insert Table button, Draw a table, Inserting rows and columns, Moving and resizing a table, Tables and Borders toolbar, Table properties **Graphics** :Adding clip art, Add an image from a file, Editing a graphic, AutoShapes; **Spelling and Grammar:** AutoCorrect, Spelling and grammar check, Synonyms, Thesaurus; **Page**

Formatting: Page margins, Page size and orientation, Headers and footers, Page numbers, Print preview and printing.

- **Spreadsheet Basics:** Screen elements, Adding and renaming worksheets, The standard toolbar - opening, closing, saving, and more; **Modifying A Worksheet**, Moving through cells, Adding worksheets, rows, and columns, Resizing rows and columns, Selecting cells, Moving and copying cells,, Freeze panes; **Formatting Cells:** Formatting toolbar, Format Cells dialog box, Dates and times; **Formulas and Functions:** Formulas, Linking worksheets, Relative, absolute, and mixed referencing, Basic functions, Function Wizard, Autosum, **Sorting and Filling:** Basic ascending and descending sorts, Complex sorts, Autofill; Alternating text and numbers with Autofill, Autofilling functions; Graphics; Adding clip art; Add an image from a file; Editing a graphics; AutoShapes; **Charts:** Chart Wizard; Resizing a chart; Moving a chart, Chart formatting toolbar; **Page Properties and Printing:** Page breaks, Page orientation, Margins, Headers, footers, and page numbers, Print Preview, Print; Keyboard Shortcuts.

- **Presentation Tool:** AutoContent Wizard, Create a presentation from a template, Create a blank presentation, Open an existing presentation, AutoLayout, Presentation Screen: Screen layout, Views, Working with Slides: Insert a new slide, Applying a design template, Changing slide layouts, Reordering slides, Hide slides, Create a custom slide show, Edit a custom slide show Adding Content: Resizing a text box, Text box properties, Delete a text box, Bulleted lists, Numbered lists, Adding notes, Video and Audio Working with Text: Adding text, Editing options, Formatting text, Replace fonts, Line spacing, Change case Spelling check Color & Background: Color schemes, Backgrounds, Graphics, Adding clip art, Adding an image from a file, Editing a graphic, AutoShapes, WordArt Slide Effects: Action buttons, Slide animation, Animation preview, Slide transitions, Slide show options, Master Slides, Slide master, Header and footer, Slide numbers, Date and time Saving and Printing, Save as a web page, Page setup, Print

- **Integrating Programs** Word, spreadsheet and Presentation.

Note:

The above practical is to be conducted using the either Microsoft-Office or OpenOffice.

Digital Electronics Lab

Objective: To provide hands-on practice of the basic knowledge in digital logic and circuits and to provide hands-on practice in some commonly used combinational and sequential circuits

Instruction: The Laboratory work will have to be performed during the semester consisting of any of the 8 experiments from the given list below:

List of Experiments:

1. Study and Testing of measuring instruments: Digital and Analog multimeters, CROs and Signal Generators – measurement of AC & DC voltages, measurement of frequency.
2. Study of Components: Identification and testing of resistors, capacitors, inductors, diodes, LEDs & transistors
3. Study of Logic Gates: Study of truth table of basic gates, realization of Boolean functions
4. Study of Half adder and Full Adder
5. Study of Half Subtractor and Full Subtractor
6. Study of Implementation of a 3:8 decoder,
7. Study of 4-line to 16 bit decoder
8. Study of BCD to 7-segment decoder
9. Study of Generating a Boolean expression with a multiplexer
10. Study of Clocked JK Flip Flop
11. Study of 4-bit ripple counter
12. Study of Parallel-in, serial-out, 4-bit shift register

Operating System

Assignments: Write the Program using C (if applicable):

Operating System:

- 1. Study of DOS Commands.**
- 2. Study of Unix/Linux Commands.**
3. Write a program to implement the FCFS Scheduling Algorithm.
4. Write a program to implement the SJF Scheduling Algorithm.
5. Write a program to implement the Priority Scheduling Algorithm.
6. Write a program to implement the Round Robin Scheduling Algorithm.

Lab for Programming in 'C'

List of Experiments:

1. Find Area, Perimeter of Triangle & Rectangle.
2. Find maximum amongst 3 numbers.
3. Program for nested loops.
4. Program to Calculate x^y
5. Program to check Prime Number.
6. Program to find Armstrong Number.
7. Program to print the Fibonacci Series
8. Searching and element from array.
9. Transpose of matrices
10. Multiplication of matrices
11. Sorting array using bubble sort technique
12. Program for recursion e.g. factorial, reverse of digit
13. Program for structure initialization
14. Array of Structure e.g. student result, Employee pay slip , Phone bill
15. Function with parameter & return values

Course: B.Sc.(C.S.)

Paper title: Practical Based on Adv. C Programming

Semester : III

Paper No.: CS09

1. Swapping of numbers by using call by reference.
2. Program to pass array to function.
3. Program for passing structure pointer to function.
4. String manipulation function e.g. string copy, concatenation, compare, string length, reverse.
5. Program for reading/writing text file.
6. Program for reading/writing binary file.
7. File copy program.
8. Program to modify a record from binary file.
9. Program to delete a record from binary file.
10. Program on conditional compiling.
11. Program on macro substitution.
12. Program for data conversion.
13. Program to draw simple pictures (human face, clock, hut, etc.) using graphics functions.
14. Program using command line arguments.
15. Program to demonstrate the storage class.
16. Program to sort names.

Course: B.Sc.(C.S.)

Semester : III

Paper title: Practical Based on Data Structure

Paper No.: CSO10

Assignments: Write the Program using C (if applicable) :

1. Write a program using DIV(J,K) which reads a positive integer $N > 10$ and determines whether or not N is a prime number.
2. Write a program which counts the number of particular character/word in the String.
3. Write a program which reads words WORD1 and WORD2 and then replaces each occurrence of word1 in text by word2.
4. Write the programs for traversing of n item using the array.
5. Write the programs for insertion and deletion of n item using the array.
6. Implement Linear and binary search algorithm using C.
7. Implement Bubble sort using C.
8. Write the programs for traversing of n item from the linked list.
9. Write the programs for push and pop operation using the stacks.
10. Write the programs for insertion and deletion of n item from the queues.

Course: B.Sc.(C.S.)

Semester : IV

Paper title: Practical Based on Programming in C++

Paper No.: CSO13

Minimum 12 Practicals to be performed as per the guidelines of teaching Faculty depending upon all theory units of concerned subject.

Course: B.Sc.(C.S.) (Opt.)

Semester : IV

Paper title: Practical Based on Database Management System

Paper No.: CS O14

- 1) Design five schemas for any organization like: College, school, hospital, travel agency, company, bank etc.
- 2) Normalize the above five selected schemas as per 1NF, 2NF and 3NF
- 3) Draw E-R Diagram for the same.
- 4) Solve at least ten Relational Algebraic Queries

Paper No.: CSO17

Comp. Sci. (Gen.) Semester : V

Paper title: Software Engineering Case Study

Using any Software engineering model case study on development of a software.

Paper No.: CSO18

Comp. Sci. (Gen.) Semester : V

Paper title: Web Designing if Selected

1. Create a simple website by using Visual Studio Express
2. Create additional pages
3. Embedding Content
4. Create a webpage using <table> and <div> elements
5. Create a webpages using conditional and looping statements.
6. Create a calculator webpage
7. Create a Webpage to introduce National Bird/Animal/Emblem/Flower
8. Learn more about positioning by adding more <div> elements to the webpage to define a header and footer for the page. Use CSS style rules to set the position.
9. Learn more about CSS selectors by adding more elements to the page and try setting the format by selecting the elements without using an id.
10. Learn more about colors by changing the color scheme, using RGB values.

Paper No.: CSO18

Comp. Sci. (Gen.) Semester : V

Paper title: VB.NET if Selected

Minimum 12 Practical to be performed as per the guidelines of teaching Faculty depending upon all theory units of concerned subject.

Paper No.: CSO21

Comp. Sci. (Gen.) Semester : VI

Paper title: Seminar

Syllabus of Computer Science (General), w.e.f.: 2014-15

14

5. SU-02 June-2016 All Syllabus Science Faculty B.Sc. Computer Science [Optional] Sem. V & VI

- 15 -

Student should prepare and present a seminar on any latest topic should be related to Computer Science.

Paper No.: CSO22

Comp. Sci. (Gen.) Semester : VI

Paper title: Major Project

Students group (maximum 3 students) should design and develop a project.

Course Code: **CMP-121**

Course Title: **Lab course 1 (Based on CMP-111 and CMP-112)**

Total Credits: 1.5

Contact Hours: 03 Hours (Week)

Marks: 50

Practical based on CMP-111

1. Student should prepare a report based on computer component such as monitor, printer, CPU, Pen drive, CD –ROM , Hard Disk
2. Create a partition of computer drive creation, formatting the drive and deleting the partition.
3. Create a user and password of computer user and Reset a computer password using CMOS battery.
4. Practical on office word tool as a creation, edit, insertion of table in the new word file.
5. Practical based on MS-Excel for creation of student data with name, marks, roll no for sorting and mark sheet creation.
6. Perform practical of DOS internal commands. DIR,TYPE,DEL, MD,CD,COPY,RMDIR,VER,DATE,TIME, CLS EXIT.

7. Write a comparative report of different web browser such as opera, Microsoft edge, chrome and mozilla Firefox.
8. Create an IP setting and home network setting for the computer.
9. Connect internet using wifi for a computer.
10. Practical based on online meeting using zoom, Google meet and skype
11. Practical based on remote desktop using any desk software.
12. Solve one example of binary to decimal, octal and hexadecimal number.
13. Solve one example of decimal to binary, octal and hexadecimal
14. Solve one example of octal to hexadecimal, decimal and binary.

Minimum three practical on each unit

Practical based on CMP-112

1. Execution of DOS internal and External commands
2. Study and explain the types of operating systems (their types with structure, functionality, dependencies, application software with their differences).
3. Installation of any one of the operating system.
4. Present the output of different file operation.
5. Implement any file allocation technique (Linked, Indexed or Contiguous) .(any one)
6. Present the output of following CPU Scheduling algorithm.(any one)
 - a. FCFS
 - b. SJF
 - c. Priority
 - d. Round Robin
7. Present the output of following Page Replacement Algorithm.(any one)
 - a. FIFO
 - b. LRU

Minimum three practical on each unit

Course Code: **CMP-221**

Course Title: **Lab course 1 (based on CMP-211 and CMP-212)**

Total Credits: 1.5

Contact Hours: 03 Hours (Week)

Marks: 50

Objective: student understands the practical and logical application of programming language. The use of C logical statement in real time example solving. The student should understand the working of logic gate with its application in real time era.

Practical based on Digital Electronic

1. The practical should be done on kit for AND, OR , NOT, NAND, NOR , X-OR and X-Nor gate **(If kit not available use the software simulation for practical)**
2. Study of Components: Identification and testing of resistors, capacitors, inductors, diodes, LEDs & transistors
3. Study of Logic Gates: Study of truth table of basic gates, realization of Boolean functions
4. Study of Half adder and Full Adder
5. Study of Half Subtractor and Full Subtractor
6. Study of Implementation of a 3:8 decoder,
7. Study of 4-line to 16 bit decoder
8. Study of BCD to 7-segment decoder
9. Study of Generating a Boolean expression with a multiplexer
10. Study of Clocked JK Flip Flop 11. Study of 4-bit ripple counter 12. Study of Parallel-in, serial-out, 4-bit shift register

Practical based Basic C Programing

1.Installation of C Program:

Download and installation of C programming software. Discussion on available c software and use of each individually.

2. Input Output statement program

Minimum 10 program on input and output statement, data type and constant.

3.List of Program for student to understand the concept of programing

- Find Area, Perimeter of Triangle & Rectangle.
- Find maximum amongst 3 numbers.
- Program for nested loops.
- Program to Calculate x y
- Program to check Prime Number, Program reverse of digit.
- Program to find Armstrong Number.
- Program to print the Fibonacci Series
- Searching and element from array.
- Transpose of matrices
- Multiplication of matrices
- Sorting array using the bubble sort technique
- Program for factorial of number

Course Code: **CMP-321**

Course Title: **Lab course 3 (based on CMP-311)**

Total Credits: 1.5

Contact Hours: 03 Hours (Week)

Marks: 50

1. Write a program to store the elements in 1-D array and perform the operations like searching, sorting and reversing the elements.
2. Read the two arrays from the user and merge them and display the elements in sorted order
3. Write a program to perform the Matrix addition, Multiplication and Transpose Operation.
4. Write a program to implement the concept of Stack with Push, Pop, Display and Exit operations
5. Write a program to convert an infix expression to postfix and prefix conversion
6. Write a program to implement Tower of Hanoi problem.
7. Write a program to implement the concept of Queue with Insert, Delete, Display and Exit operations.
8. Write a program to implement the concept of Circular Queue
9. Write a program to implement the concept of Deque.
10. Write a program to create the tree and display the elements.
11. Write a program to construct the binary tree
12. Write a program for inorder, postorder and preorder traversal of tree
13. Write a program to create a single linked list and display the node elements in reverse order
14. Write a program to search the elements in the linked list and display the same

Minimum three practical on each unit

Course Code: **CMP-322**

Course Title: **Lab course 4 (based on CMP-312)**

Total Credits: 1.5

Contact Hours: 03 Hours (Week)

Marks: 50

1. Write a program to calculate average temperature of five days. Create temp() function.
2. Write a program that uses recursive function fibo() that generates a Fibonacci series containing N elements.
3. Write a program that uses a recursive function fact() that finds the factorial of a given number N.
4. Program to find if the given no. is prime or not. The function should accept the number as argument and return if the no. is prime or not.
5. Write a function which accepts a character array as argument from the user. The function should print the ASCII equivalent of all the characters in the string.
6. Write a program to define structure with tag state with fields state name, number of districts and total population. Read and display the data.
7. Write a program to create a list of books details. The details of a book include title, author, publisher, publishing year, number of pages, and price.
8. Define a structure called Item with members : Item_code, Item_name, Price. Create an array of five Items. Create a function which accepts the Item array and modifies each element with an increase of 10% in the price.
9. Define a structure to represent a date. Use your structures that accept two different dates in the format mm dd of the same year. Write a C program to display the month names of both dates.
10. Define a structure that can describe a Hotel. It should have members that include name, address, grade, room charges, grade and no of rooms. Write a function to print out all hotel details with room charges less than a given value
- 11.1 Write a program to display contents of file on the screen. The program should ask for file name. Display the contents in capital case.
12. Write a program to find size of the file.
13. Write a program to combine contents of two files in a third file. Add line number at the beginning of each line.
14. Write a program to display number 1 to 100. Redirect the output of the program to text file.
15. Write a program to write contents of one file in reverse into another file

Minimum three practical on each unit

Course Code: **CMP-421**
Course Title: **Lab course 5 (based on CMP-411)**
Total Credits: 1.5
Contact Hours: 03 Hours (Week)
Marks: 50

1. Creating a single table without constraints and firing queries.
2. Queries containing aggregate, string and date functions fired on a single table.
3. Creating single table with constraints and executing queries.
4. Updating tables, altering table structure and deleting table Creating and altering a single table and executing queries.
5. Joining tables and processing queries.
6. For given scenario draw E-R diagram and convert entities and relationships to table. Write relational algebra queries and convert to SQL queries on these tables.
7. Creating, dropping and maintaining indexes.
8. Create and manage views and process queries on views.
9. Creating stored procedures, executing procedures, deleting procedures.
10. Creating with or without enforcing data integrity through triggers, nested triggers, viewing, modifying and deleting triggers

Minimum three practical on each unit

Course Code: **CMP-422**

Course Title: **Lab course 6 (based on CMP-412)**

Total Credits: 1.5

Contact Hours: 03 Hours (Week)

Marks: 50

1. Write programs that illustrates the simple C++ concepts without classes.
2. Write C++ programs to illustrate the concepts pointers, functions and function overloading.
3. Write C++ programs to illustrate the concepts: classes, friend functions.
4. Write C++ programs to illustrate the concepts:constructors, constructor overloading and destructors.
5. Write C++ programs to illustrate the concepts: operator overloading (both Unary and Binary).
6. Write C++ programs to illustrate the concepts: Simple,Multiple, Multilevel inheritance.
7. Write C++ programs to illustrate the concepts: Polymorphism (Virtual functions, Pure Virtual functions).
8. Write programs to illustrate the file handling in C++.
9. Write programs to illustrate the templates in C++.
10. Write programs to illustrate the exceptions in C++.



**B. Sc. I Semester
Physics paper III (Phy113)
List of experiment**

- ✓ 1. Study and use of various measuring Instruments
 1. Vernier caliper 2. Micrometer Screw Gauge 3. Travelling Microscope
 4. Spherometer 5. Spectrometer information about source and their wavelengths.
- ✓ 2. Determination of acceleration due to gravity by Kater's pendulum
- ✓ 3. Y by bending of a beam loaded at center.
- ✓ 4. Determination of Y by Cantilever (Oscillation method)
- ✓ 5. η by Maxwell's needle.
 6. Determination of " Y " and " η " by flat spiral spring.
 7. Viscosity measurement by Poiseuille's method.
 8. S.I. by Jaeger's method.
 9. Study of Solar constant.
- ✓ 10. Study of thermal conductivity by Lee's method

Note: - At least six experiments should be performed.



B. Sc. II Semester
Physics paper VI (PHY-221)
List of experiment

- ✓ 1. Use of multimeter for measuring voltage, current and resistance.
- ✓ 2. Determination of dielectric constant of liquid / solid.
3. I-H curve.
- ✓ 4. Field along the axis of circular coil.
- ✓ 5. Determination of wavelength of light by Newton's rings.
- ✓ 6. Resolving power of telescope.
- ✓ 7. Specific rotation by Laurent's half shade polarimeter.
- ✓ 8. λ by grating (normal incidence)
- ✓ 9. Determination of frequency of AC mains by sonometer
- ✓ 10. Comparison of capacitor using De'Sauty's method
- ✓ 11. Measurement of constants of B. G.

Note: - At least six experiments should be performed.



**B. Sc. Second Year Physics
(Semester-III)**

Physics Practical: Lab Course-3

Course Code: PHY-321

Credit 1.5

Marks-50 (CIA-10 and UA-40)

List of Experiments:

- ✓ 1. Study of temperature dependence of total radiation
2. To draw the histogram of theoretical Gaussian curve
- ✓ 3. Velocity of sound using Helmholtz resonator
4. Surface tension by Fergusons method —
- ✓ 5. e/m by Thomson's tube experiment
- ✓ 6. I-V characteristics of solar cell
- ✓ 7. Viscosity of liquid using Searle's viscometer
- ✓ 8. M. I. by Bifilar suspension
9. Viscosity of liquid by using oscillating disc method. —

Note: Students should perform at least six experiments

Books:

1. B. Sc. Practical Physics – C. L. Arora (S. Chand Publications)
2. College Practical Physics – Khanna and Gulati (S. Chand Publication)
3. Practical Physics – Gupta and Kumar (Pragati Prakashan, Meerut)
4. A text book of Practical physics – Shrinivasan and Balsubramanyam.



**B. Sc. Second Year Physics
(Semester-III)**

Physics Practical: Lab Course-4

Course Code: PHY-322

Credit 1.5

Marks-50 (CIA-10 and UA-40)

List of Experiments:

1. To verify the inverse square law using photocell
- ✓ 2. 'h' by photocell
3. To compare the luminous intensities of two lights sources using photocell
- ✓ 4. Measurement of the focal length of a given convex lens using laser
- ✓ 5. Diffraction of grating using laser beam
- ✓ 6. Beam divergence of a diode laser
- ✓ 7. Determination of the diameter of a thin wire using laser
- ✓ 8. Determination of wavelength of He-Ne laser by transmission grating and reflection grating.
9. To draw the plateau curve for GM counter
10. To find the dead time of GM counter

Note: Students should perform at least six experiments

Books:

1. B. Sc. Practical Physics – C. L. Arora (S. Chand Publications)
2. College Practical Physics – Khanna and Gulati (S. Chand Publication)
3. Practical Physics – Gupta and Kumar (Pragati Prakashan, Meerut)
4. A text book of Practical physics – Shrinivasan and Balsubramanyam.

**B. Sc. Second Year Physics
(Semester-IV)**

Physics Practical: Lab Course-5

Course Code: PHY-421



Credit 1.5

Marks-50 (CIA-10 and UA-40)

List of Experiments:

- ✓1. I-V Characteristics of transistor in CB configuration
- ✓2. I-V Characteristics of transistor in CE configuration
- ✓3. I-V Characteristics of Zener diode
- ✓4. I-V Characteristics of FET
- ✓5. Study of OR, NOT, AND gates
- ✓6. Study of Op-amp as adder
- ✓7. Study of Op-amp as subtractor
8. Study of RC Oscillator (Phase shift Oscillator)
9. Study of LC Oscillator (Hartley Oscillator)

Note: Students should perform at least six experiments

B. Sc. Second Year Physics
(Semester-IV)

Physics Practical: Lab Course-6

Course Code: PHY-422



Credit 1.5

Marks-50 (CIA-10 and UA-40)

List of Experiments:

1. Energy band gap of semiconductor using thermistor
2. Thermal conductivity by Forb's method
3. Rydberg constant using Excel
4. I-H curve using Excel
5. Calibration of bridge wire using Carry-Foster's bridge.
6. Determination of absolute capacity of condenser using B.G.
7. To determine the Hall coefficient of a semiconductor sample.
8. Study V-I characteristics of a solar cell.
9. To analyze the XRD data of the two given sample and find out the lattice constant

Note: Students should perform at least six experiments

Practical
Course code PHY-308
Paper-XVIII



Marks-50

List of experiments

1. Temperature coefficient of resistance of semiconductor
2. Measurement of thickness of thin film by gravimeter/optical/electrical method
3. Temperature of sodium flame
4. Hartmann's dispersion formula
- ✓ 5. Maxwell's bridge (measurement of inductance using impedance at different frequency)
- ✓ 6. λ by grating (normal incidence)
- 7. Transistorized Regulated power supply using Zener diode.
- 8. Bridge Rectifier

Note:- At least Six experiments should be performed.

B.Sc. IIIrd year Physics (Semester-V)

Practical

Course code PHY-303

Paper-XXI

Period-45

50

Marks-



List of experiments

- ✓ 1. Measurement of the focal length of a given convex lens using laser
2. Spectral response of photoconductor (LDR)
- ✓ 3. Diffraction of grating using laser beam *on wall.*
4. e by Millikan's oil drop method
5. Study of thermocouple (Fe-Cu) and to find inversion temperature
6. Refractive Index R.I. of Optical fiber
- ✓ 7. constant of B.G. by standard condenser method (N)
8. study of absorption spectra of iodine and determination of its wavelength using grating

Note :- At least Six experiments should be performed.

B.Sc. IIIrd year Physics (Semester-V)

Practical

Course code PHY-304

Paper-XXII



Marks-50

List of experiments

1. Beam divergence of a diode laser

- ✓ 2. Determination of the diameter of a thin wire using laser
3. To study the interference of light using optical fibers
- ✓ 4. Determination of wavelength of He-Ne laser by transmission grating and reflection grating
- ✓ 5. γ by Koenig's method (N)
- ✓ 6. Edser's A pattern
- ✓ 7. e/m by Thomson methods by Excel
8. Surface tension by Ripple's method

Note :- At least Six experiments should be performed.



B.Sc. IIIrd year Physics (Semester-VI)

Practical

Course code PHY-307

Paper-XVII



Marks-50

List of experiments

- ✓ 1. Thermal conductivity by Forb's method
- ✓ 2. Rydberg constant
3. B-H curve using magnetometer
4. Determination of Debye's temperature (e.g. Tin)
- ✓ 5. Determination of dielectric constant of liquid/solid (N)
6. Resistance measurement of semiconductor by Vaders Pau's method
- ✓ 7. I-H Curve by Excel
- ✓ 8. Rydberg constant Excel



Course Name: Practical Based on PHYT/MJ/500 (Linear and digital Electronics)

Course Code: PHYP/MJ/526, Course Type: MJ, Contact Hours: 60,

Credits: 02, Hours/Week: 02, Max. Marks: 50

Course objective: The themes dealt with in this paper:

This course deals with the basic foundation to specialization in Electronics and Industrial applications.

This course is an advanced which requires the special efforts and training.

This course will help the student to elaborate designing the electrical circuits, input and output characteristics and their uses in various electrical devices for various applications.

Course Outcomes: The present unit attempts to achieve the following learning outcomes:

- After completing this course the student will be prepare to explain the scope and possibilities of electrical circuits designed using OP-AMP, Multivibrators and counters for various applications for research career as well as in industries.
- The students will be able to design electrical circuits for various industrial applications.

Course Contents:

1. Determination of characteristics of OP-AMP 741 : CMRR and Slew rate
2. Determination of characteristics of OP-AMP 741 : input offset voltage and input bias current
3. Inverting and non-inverting amplifier using OP-AMP 741
4. Astable multivibrator using OP-AMP 741
5. Schmidt trigger using OP-AMP 741
6. Wien bridge Oscillator using IC 741
7. Monostable multivibrator using IC555
8. Decimal to BCD converter
9. Mod 16 counter
10. Diode Matrix ROM



**Course Name: Practical Based on PHYT/MJ/501
(General Condensed Matter Physics)**
Course Code: PHYP/MJ/527, Course Type: MJ,
Contact Hours: 60, Credits: 02, Hours/Week: 04, Max. Marks: 50

Course objective: The themes dealt with in this paper:

This course deals with the basic foundation to specialization in Condensed Matter Physics and applications.

This course is an advanced which requires the special efforts and training.

This course will help the student to elaborate characterization techniques of as prepared materials using XRD and UV-VIS spectra.

Course Outcomes: The present unit attempts to achieve the following learning outcomes:

- After completing this course the student will be prepare to explain the scope and possibilities of studies in structural properties of synthesized materials for various applications for research career as well as in industry.
- The students will be able to identify the structure, cell parameters, energy band gaps and optical properties of any given materials.

Course Contents:

1. Study the cubic structure of given XRD data and determine lattice parameters.
2. Study the hexagonal structure of given XRD data determine the lattice parameters.
3. Study the diamond structure using XRD data and determine of lattice parameters.
4. Study the Hall Effect and determine type and number of charge carriers.
5. Study the Hall Effect and determine type and Hall coefficient.
6. Study the Hall Effect and determine type and drift mobility.
7. Study the UV Vis Spectra of ZnO lattice.



**Course Name: Practical Based on PHYT/MJ/502
(General Nuclear Physics)**

Course Code: PHYP/MJ/528, Course Type: MJ,

Contact Hours: 60, Credits: 02, Hours/Week: 04, Max. Marks: 50

Course objective: The themes dealt with in this paper:

This course gives basic foundation to specialization in nuclear physics and Spectroscopy and applications.

The course is an advanced course and requires special efforts.

The course will help the student to explain characteristics of Geiger Muller counter/tube: Operating voltage, Dead time and counting statistics.

Course Outcomes: The present unit attempts to achieve the following learning outcomes:

- After completing this course the student will be prepare to explain the scope and possibilities of studies in nuclear physics for research career as well as in industry.
- The students able to explain the characteristics of Geiger Muller counter/tube: Operating voltage, Dead time and counting statistics.

Course Contents:

1. Determination of characteristics of Geiger Muller counter/tube:
Operating voltage
2. Determination of dead time of a G. M. counter by double source method.
3. Determination of dead time of a G. M. counter by variable area method.
4. Statistical aspects of radioactivity measurements.
5. Beta backscattering as function atomic number.
6. Beta energy determination by feather's analysis.
7. To study the secular equilibrium.
8. To study the transient equilibrium.



Course Name: Practical based on PHYT/DSE/504

Course Code: PHYP/DSE/529, Course Type: DSE,

Contact Hours: 60, Credits: 02, Hours/Week: 04, Max. Marks: 50

Learning Objectives:

1. To facilitate the students to understand
 - a) The concepts of microprocessor and assembly language programming.
 - b) The concept of interfacing devices at laboratory as well industrial level
2. To provide an opportunity to the students to enter into entrepreneurship.

Learning Outcome: Students will be able to learn

1. Microprocessor architecture, physical configuration of memory, logical configuration of memory, microprocessor programming and interfacing.
2. Students will be capable to perform following job
 - a) Industrial automation using 8086 interfacing and programming.
 - b) Start his / her own small scale industry for manufacturing microprocessor based automated devices.
3. Students will have option to start his / her teaching career either in science or engineering colleges / institutes as this course is included in science as well engineering discipline.

Experiments using 8086 Kit

1. Data transfer, addition, subtraction, multiplication, division and sum of series
2. Factorial and square of the number
3. Sorting of data (ascending / descending), square root of a number
4. Arithmetic mean of N- numbers and sum of square of Numbers
5. Interfacing of SPDT switches and 7 segment display as a position encoder / decoder
6. Interfacing of stepper motor
7. Interfacing of DC motor
8. Interfacing of DAC to generate ramp wave, triangular wave and square wave.
9. Interfacing of 8-bit ADC
10. Interfacing of LCD display

Experiments Using 8086 Assembler

11. Data transfer, addition, subtraction, multiplication, division and sum of series

1. Principle of Communication Engineering Anokhi Singh and P N Chandra (Pearson Company).
2. Electronic Communications Dennis Roddy and John Coolen (Pearson).
3. Communication Systems (Analog and Digital) R P Singh and S D Sapre. (TMH).
4. Electronic Communication Systems Kennedy and Davis (TMH)

PHYL-321: Lab course 5 (Based on Electives A1/ B1/ C1/ D1)

PHYL-321 - Lab course 5 (A1): 8086 Microprocessor and interfacing : Credits 3



Learning Objectives:

1. To facilitate the students to understand
 - a) The concepts of microprocessor and assembly language programming.
 - b) The concept of interfacing devices at laboratory as well industrial level
2. To provide an opportunity to the students to enter into entrepreneurship.

Learning Outcome: Students will be able to learn

- a) Microprocessor architecture, physical configuration of memory, logical configuration of memory, microprocessor programming and interfacing.
1. Students will be capable to perform following job
- a) Industrial automation using 8086 interfacing and programming.
 - b) Start his / her own small scale industry for manufacturing microprocessor based automated devices.

2. Students will have option to start his / her teaching career either in science or engineering colleges / institutes as this course is included in science as well engineering discipline.

Experiments using 8086 Kit

1. Data transfer, addition, subtraction, multiplication, division and sum of series
2. Factorial and square of the number
3. Sorting of data (ascending / descending), square root of a number
4. Arithmetic mean of N- numbers and sum of square of Numbers
5. Interfacing of SPDT switches and 7 segment display as a position encoder / decoder
6. Interfacing of stepper motor
7. Interfacing of DC motor
8. Interfacing of DAC to generate ramp wave, triangular wave and square wave.
9. Interfacing of 8-bit ADC
10. Interfacing of LCD display



Experiments Using 8086 Assembler

11. Data transfer, addition, subtraction, multiplication, division and sum of series
12. Factorial and square of the number
13. Sorting of data (ascending / descending), square root of a Number
14. Arithmetic mean of N- numbers and sum of square of Numbers

Note: Students should perform any eight experiments.

PHYL-322: Lab course 6 (Based on Electives A2/ B2/ C2/ D2)

PHYL-322 - Lab course 6 (A2) : Microwave and communication Electronics: Credits 3



Learning Objectives: The themes dealt with in this paper:

- 1 6. Gain knowledge of microwaves, microwave components and verify the relationship between frequency and wavelength experimentally.
- 2 7. Experimental verification of the characteristics of Gunn and Klystron oscillators as microwave generators.



- 3 8. Determine the plane pattern and beam width of microwave horn antenna and study the inverse square law with the same.
- 4 9. Measure voltage standing wave ratio, S-parameters, Detector law, dielectric constant of solid and liquid with microwave bench setup.
- 5 10. Gain knowledge of communication and verify how the signal is transmitted and detected with different electronic circuits like PAM, PWM, PPM, FSK, and PL

Learning Outcomes (COs): At the end of the course the student should be able to;

- CO-1 Understand the working use of all microwave components that may be used in a microwave X-band setup.
- CO-2 Assemble the bench as per the experimental requirement.
- CO-3 Obtain output power and perform experiment satisfactorily.
- CO-4 Conduct experiments smoothly, safely and interpret the data accordingly.
- CO-5 Apply practical knowledge of microwaves for other applications and research for finding basic properties of materials at microwave frequency.

Course contents:

1. Demonstrate the relationship between frequency (f), wavelength (λ_0) in free space and Wavelength in waveguide (λ_g)
2. Reflex Klystron Characteristics - Mode diagrams, ETR and ETS
3. Gunn Diode Characteristics; I-V Characteristics, Power versus bias characteristics and Power-frequency characteristics
4. Microwave Horn Antenna E-H Plane pattern and Beam width
5. Study of square law behavior of microwave crystal detector and hence to determine Operating range and detection frequency
6. Study of high and low VSWR and impedance measurements using Smith chart.
7. Measurement of S- parameters of a) E-Tee b) Magic Tee c) Directional coupler.
8. Determination of dielectric constant of solids - Two point method
9. Determination of dielectric constant of liquids - Robert-Von Hippel method
10. Study of Faraday's rotational principle
10. Study of PAM and its detection
11. Study of Balance modulator using IC 1596
12. Study of FSK modulation and detection
13. Study of PPM and detection
14. Study of PLL
15. Study of PWM and detection
16. Reflection and refraction in microwaves.
17. Interference and diffraction in microwaves.

Practical Paper No. ZOO-109 Practical's based on ZOO-101

(Biosystematics and Animal Diversity)

1. Museum specimen study of different groups of Invertebrates and Vertebrates.
2. Terrestrial ecosystem (Vegetation studies)- Abundance , Frequency , Density, Relative Diversity, Dominance , Raunkars biological spectrum , Index of Dominance etc.
3. Method of plankton collection, plankton identification and quantification from river or stream or lake water.
4. Methods of collection, preservation and identification of zooplankton.
5. Composition assessment of taxonomical diversity or biodiversity in habitat from local Grassland , Terrestrial and Wetland.
6. Composition assessment of taxonomic diversity/Biodiversity from different ecosystems.
 - a. Species diversity indices.
 - b. Relative density, Relative frequency and relative abundance of species.
7. Methods of collection, preservation and identification with keys from different groups of organisms like, Parasites, hosts, insects, birds and fishes etc.
8. Construction of taxonomic Key from the character in an animal group.
9. Visit to any biodiversity center /spots and submission of report

Practical Paper No. ZOO-110 Practical's based on ZOO-102

(Biochemistry)

1. Preparation of Acid and Alkali solutions and acid base titration
2. Preparation of Buffers of known pH, buffering capacity.
3. Identification of Carbohydrates by Chemical tests.
4. Estimation of Amino acid (Tyrosine)
5. Estimation of Protein by Lowry's method.
6. Estimation of Carbohydrates by Anthrone reagent method. (Glycogen)
7. Separation of amino acids by paper chromatography.
8. Study of factors affecting enzyme activity (Substrate concentration, pH, Temperature and Inhibitors)
9. Isolation of Casein protein from the milk.
10. Determination of isoelectric pH of Caesin.

Practical Paper No. ZOO- 111 Practical's based on ZOO-103

(Ecology : Principles and Practices)

1. Study of ecosystem biodiversity of local area.
2. Estimation of DO/ BOD
3. Estimation of hardness of water sample. (Total, Sodium and Potassium hardness.)
4. Estimation of Salinity /Nitrates and phosphates from a given water sample.
5. Biomass analysis in a given ecosystem.
6. Species diversity in community and its measurement- Alpha diversity- Simpsons diversity index, Shannon index, Fisher alpha. Beta diversity- Sorensen's similarity index, Whittaker's index, Evenness, Gamma diversity, Guild and its functioning in the community.
7. Productivity estimation in given ecosystem (Primary and Secondary)
8. Study of efficiency of sampling method.
9. Study of air quality and aerobiology in given area.
10. Toxicology- Principles, toxicants- types, dose and effects, toxicity of heavy metals
11. Measuring ecotoxicity using a lettuce seed assay.
12. Estimation of various physical parameters of water (SSP, Turbidity, TDS etc).
13. Visit to any biodiversity centre /National park/Sanctuary and submission of report.

**Practical Paper No. ZOO-112 Practicals based on ZOO-105
(Helminthology I)**

- 1) Collection of trematodes and cestodes from various hosts
 - 2) Preservation, staining and identification of collected trematode & cestodes, and preparation of their permanent slides (At least, 10 from cestodes & 10 from trematodes).
 - 3) Study of different trematodes and cestodes from permanent slides (At least, 10 from cestodes & 10 from trematodes).
 - 4) Examination of fecal samples for ova.
 - 5) Collection and examination of molluscan hosts for larvae of trematodes.
 - 6) Study the effect of helminth parasites (histopathology) on their host's tissue by microtechnique.
- Submission:** At least five permanent slides to be submitted at the time of practical examination

**Practical Paper No. ZOO-113 Practical based on ZOO-106
(Protozoology-I)**

1. Collection, observation in living condition-fixation, staining and identification of protozoa from different habitats.
 - a. Marine Protozoa
 - b. Planktonic protozoa
 - c. Soil protozoa
2. Study of population density of ciliates in fresh water.
3. Study of ecological factors in relation to freshwater ciliates.
 - a. Oxygen
 - b. Carbon dioxide
 - c. pH
 - d. Oxidized organic matter
4. Study of cyclosis in *Paramecium*.
5. Study of contractile vacuole to observe excretion and osmoregulation.

**Practical Paper No. ZOO-114 Practical based on ZOO-107
(Entomology I)**

1. Study, mounting and sketching of types of mouth parts, antennae, wings, legs and genitalia of various insects. (2 in two insects)
2. Dissections of Digestive system / Reproduction system / Nervous system of five available at least 3 insects.
3. The study and preparation of permanent slides of any five organs of at least 2 insects
4. Estimation of enzyme activities of Amylase, Invertase, Lipase & Protease in the alimentary canal/ midgut of cockroach.
5. Detection of uric acid as an end product of excretion in any terrestrial insect.
6. Study of types and Total count of haemocytes in haemolymph of any one insect.
7. Determination of role of insect hormones in the pupation of insect larvae by ligature technique.
8. Study of eggs, larvae and pupae/ nymph of any one insect.

Practical Paper No. ZOO-115 Practical based on ZOO-108

(Endocrinology-I)

1. Histomorphological study of neuroendocrine system in various invertebrates (Annelida, Mollusca Arthropoda etc.) (at least 10 Slides)
2. Dissection of nervous systems in different invertebrates (Leech, crab, cockroach, slug, snail).
3. Histological preparation of slides of neuroendocrine centers (at least 5)
4. Effect of brain removal on oxygen consumption in leech.
5. Effect of background on integument chromatophores of the freshwater prawn, *Caridina / Macrobrachium*.
6. Effect of eyestalk removal on oxygen consumption of freshwater crab / prawn.
7. Effect of eyestalk removal on blood glucose level in crab / prawn.
8. Effect of eyestalk removal on chromatophores in relation to background adaptation in *Caridina/Macrobrachium*

Laboratory Courses (LCs)

Developmental Biology (ZOO- 314): LC Based on ZOO-301

1. Whole Mount of different types of sperms.
2. Study of sperm count by Neubauer's chamber.
3. Types of eggs and cleavage patterns.
4. Study of morphogenetic movements during development.
5. Stages of development in frog.
6. Studies of whole Mount of chick development: 16,18,24,33,36,48,72,98 hours.
7. Developmental stages of pond snail, *Lymnaea*.
8. Chick embryo and determination of its age.
9. Studies of cell death in chick embryo.
10. Regeneration in *Planaria/ Hydra*.

Immunobiology (ZOO – 315): LC Based on ZOO-302

1. To determine the blood groups of given blood samples by slide agglutination techniques.
2. To perform double immunodiffusion (DID) by using Ouchterlony's methods.
3. To carry out Immunoelectrophoresis.
4. To determine hemocytes from cockroach hemolymph.
5. To determine the activity of Phenoloxidase in hemolymph of cockroaches.

Biostatistics & Microbiology and Human Welfare (ZOO- 316): LC Based on ZOO-304(a&b) and Animal Biotechnology ZOO-303

1. Process the data using suitable computer software for calculating mean, median, and mode.
2. Calculation of average, variance, frequency distribution, standard deviation.
3. Making of graphs using Computer
4. Calculation of 't' test, (Unpaired and Paired)
5. Calculation of ANOVA
6. Calculation of Chi square test.
7. Techniques for isolation of pure cultures.
8. Gram stain for differentiation of bacteria.
9. Nutritional requirements: Media for the routine cultivation of Bacteria.
10. Determination of growth curve of bacteria.
11. Methylene blue reductase test.
12. Standard qualitative analysis of water: Confirmed test of bacteria.
13. Isolation colony characterization and Gram characteristics of bacteria from fermented food. (curd/ idli batter/ dhokla batter)
14. Testing of food adulteration (milk/ milk products/haldi or any food sample)
15. Determination of moisture in food sample. /Determination of ash in food sample
16. Antibiotic Potency test- Plate diffusion method (Minimum Inhibitory Concentration)
17. Visit to Food/ Pharmaceutical industry

Applied Parasitology – I (ZOO – 317):LC Based on ZOO-310

1. Study of different types of animal associations with suitable examples.
2. Study of different types of parasites, vectors etc.
3. Study of different/important ecto/endoparasites of poultry, fish, animal and human.
4. Study of hemoflagellates from vertebrate blood.
5. Preparation of blood smear, staining and identification of Haemosporina.
6. Study of different mosquito vectors of protozoan parasites.
7. Submission of permanent slides at the time of examination.

Animal physiology-I (ZOO- 318):LC Based on ZOO-311

1. Effect of salinity on blood chloride content of crab.
2. Effect of temperature on Heartbeat. Q_{10} measurements in bivalve/crabs.
3. Estimation of glycogen from hepatopancreas and gonads of bivalve/crabs.
4. Estimation of protein from hepatopancreas and gonads of bivalve/crabs.
5. Estimation of lipid from hepatopancreas and gonads of bivalve/crabs.
6. Estimation of cholesterol from hepatopancreas and gonads of bivalve/crabs.
7. Oxygen consumption in relation to sex and size/temperature of bivalve/leech/crabs.
8. Acid phosphatase activity in hepatopancreas of crab/bivalve.
9. Alkaline phosphatase activity in hepatopancreas of crab/bivalve.
10. Estimation of ascorbic acid from hepatopancreas and gonad of crab/bivalve.
11. Chromatophores in crustaceans and effect of background on color change.

Molecular Biology-I (ZOO- 319):LC Based on –ZOO-312

1. Extraction of genomic DNA from plant/bacterial/yeast/tissue/whole blood.
2. Determination of Molecular size of DNA.
3. Restriction digestion of DNA.
4. Determination of molecular weight of different DNA fragments by running a standard marker on agarose gel electrophoresis.
5. Demonstration of plasmids in the gel by gel electrophoresis.
6. To isolate and clearing of the DNA fragment of interest from the agarose gel.
7. To perform transformation of DNA into bacterial cells.
8. To separate immunological proteins (alpha, beta and gamma) from serum by Sodium dodecyl sulfate polyacrylamide gel electrophoresis (SDS-PAGE).

Fishery Science-I (ZOO- 320):LC Based on ZOO-313

1. Identification of fish up to species level with suitable examples from each class.
2. Analysis of water: Turbidity, pH, dissolved oxygen, carbon dioxide, alkalinity, chlorinity.
3. Identification of plankton, nekton and benthos.
4. Fishing crafts and gears, hatching happa.
5. Identification fish parasites.
6. Identification of fish food (at least twenty)
7. Visit to fish breeding centre.

15. Shang, Y.C. -Aquaculture Economic Analysis – An Introduction. 1990.
16. Nikolsky, G.V. -Ecology of Fishes. Academic Press, NY, 1963.
17. Hoar, W.S. & D.J. Randal- Fish Physiology, Vols. 1–4, Academic Press, NY,1970.
18. Carl, B.E. Biology of Fishes- Saunders, 1979.
19. Turnor- Textbook of endocrinology
20. Day, F. -The fishes of India.

Laboratory Courses(LCs) :

Evolution and Behavior (ZOO- 409): LC Based on ZOO-401

1. Practical based on Hardy-Weinberg law.
2. Lederberg experiment.
3. Courtship behavior in *Drosophila*.
4. Wing beat and song produced.
5. Duration intervals of courtship songs (wing buzzing).
6. Reading behavior of praying Mantis.
7. Schooling behavior of fish.
8. Field visit to an animal husbandry centre.
9. Visit to NCCS, NCL, NIV, NARI Pune.

General Animal Physiology (ZOO-410): LC Based on ZOO- 402

1. Qualitative survey of digestive enzymes in any vertebrate.
2. Estimation of salivary amylase activity.
3. Determination of abnormal and normal constituents of urine.
4. Estimation of chloride from haemolymph/ urine of cow.
5. Estimation of uric acid from serum.
6. Total count of R.B.C from human blood.
7. Differential count of W.B.C from human blood.
8. Estimation of Haemoglobin and carrying capacity of blood.
9. Measurement of blood pressure.
10. Hematin crystal formation.
11. Effect of temperature on the heart beat and Q10 measurement.
12. Effect of temperature on the rate of oxygen consumption
13. Measurement of respiratory quotients.

Animal tissue culture, Virology and Epidemiology and applied Biotechnology ZOO-(411): LC based on ZOO-404 (a and B) and Applied Biotechnology II ZOO403

1. Study of cell viability determination by fluorescence staining method.
2. Study of cell viability determination by Trypan blue exclusion.
3. Characterization of cells by indirect immunofluorescences staining.
4. Isolation of hepatocytes by differential pelleting.
5. Standard procedure for cell separation by centrifugal elutriation (free electrophoresis).
6. Purification and preparation of neutrophils for FFE (Eggleton, 1989).
7. Isolation of erythrocytes.

8. Precipitin reaction: The ring test
9. Agglutination reaction: The febrile antibody test.
10. Cultivation of *E.coli* and isolation of its plasmid DNA by Mini prep Methods.
11. To cultivate lambda phage (λ) using appropriate *E.coli* culture.
12. To isolate DNA of bacteriophage lambda.
13. To culture animal viruses on various membrane of a developing chick embryo.
14. Drug Toxicity-LC50 and ED 50
15. Visit to Marine Research Laboratory or National Laboratory.
16. Antibiotic Potency test- Plate diffusion method (Minimum Inhibitory Concentration)
17. Visit to Food/ Pharmaceutical industry

Applied Parasitology-II (ZOO- 412):LC Based on ZOO-405

1. Study of prevalence and intensity of parasites from locally available hosts.
2. Demonstrate/study the effect of season/phonological factors as the prevalence and intensity of parasites.
3. Separation of immunological protein (alpha, beta, gamma) by paper or gel electrophoresis.
4. Estimation of antigen and antibodies in samples by quantitative precipitation essay.
5. Examination of fecal sample of sheep, goat and chicken.
6. Histopathology of Caeca of chicken to study different stages of schizonts.
7. Techniques for collection, fixation, preservation, staining and identification of different nematodes from different / various hosts.
8. Collection, preservation and identification of veterinary and medically important Annelids, Acanthocephalans and Arthropods.
11. Study of different types of mouthparts of vectors.
12. Visit to veterinary and medical parasitology/ pathology laboratory and study of food and water borne parasites.
13. Submission of permanent slides at the time of examination

Animal physiology-II (ZOO- 413):LC Based on ZOO-406

1. Denaturation and Coagulation of egg albumen.
2. Isoelectric point of Casein.
3. Effect of temperature on Heartbeat of fish, Q 10 measurement.
4. Effect of drugs on respiration of fish.
5. Estimation of Chloride from urine .
6. Estimation of Uric acid from rectum/blood of lizard/birds.
7. Determination of clotting time of blood.
8. Differential count of WBC form blood of human.
9. Effect of drugs on rate of heart beat.
10. Demonstration of Adrenalectomy and ovariectomy in rat.

Molecular Biology-II (ZOO- 414):LC Based on ZOO-407

1. Transformation of DNA in Bacteria.
2. Gene expression by Gal-x.

3. Detection/ determination of Auxotroph mutant.
4. Chromatin digestion with micrococcal nuclease.
5. Isolation of DNA from animal / plant / bacterial cells by using kits.
6. Restriction digestion of DNA using nucleases.
7. DNA amplification using PCR.
8. Molecular weight determination using column chromatography and PAGE.
9. Isolation of plasmids from bacteria.

Fishery Science - II (ZOO – 415):LC Based on ZOO-408

1. Quantitative determination of glycogen, proteins and fats.
2. Dissections (any Bony fish)- digestive, reproductive, brain, pituitary gland and cranial Nerves.
3. Methods of food analysis with different feeding habits.
4. Study of different maturity stages and fecundity in fish.
5. Determination of growth in fish by scale or otolith method.
6. Determination of GSI and PI.
7. Histological preparation: Different glands and tissues.
8. Visiting CIFE, CIFA, FSI and CIFT etc.
9. Field work: Visit to fish production unit.

Research Project ZOO-416: The research project will commence from Semester III and the Final Dissertation should be submitted in the Semester IV Examination. The students have to defend their dissertation by means of open defense and viva -voce. The presentation should be with minimum 6-8slides

Mohi
27/12/22
Dean
Faculty of Science & Technology
Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad

ZOO/MJ/503

Practical based on ZOO/MJ/500

(Biosystematics and Animal Diversity)

1. Museum specimen study of different groups of Invertebrates .
2. Museum specimen study of different groups of Vertebrates
3. Terrestrial ecosystem (Vegetation studies)- Abundance, Frequency, Density, Relative Diversity, Dominance, Rounkers Biological Spectrum, Index of dominance etc.
4. Method of plankton collection, plankton identification and quantification from river or stream or lake water.
5. Method of collection, preservation and identification of zooplankton.
6. Composition assessment of taxonomical diversity or biodiversity in habitat from local Grassland, Terrestrial and wetland.
7. Composition assessment of taxonomic diversity/biodiversity from different ecosystems.
 - a. Species diversity indices.
8. Relative density, relative frequency and relative abundance of species.
9. Method of collection, preservation and identification with keys from different group of organism like parasite, etc.
10. Method of collection, preservation and identification with keys from different group of organism like insects, birds and fishes etc.
11. Construction of taxonomic Key from the character in an animal group.
12. Construction of Phylogenetic tree from the characters of an animal group.
13. Study of larval forms in crustaceans /coelenterates/helminths(from permanent slides)
14. Visit to any biodiversity center / spots and submission of report.

ZOO/MJ/-504

Practical based ZOO/MJ/-501 (BIOCHEMISTRY)

1. Preparation of Acid and Alkali solutions
2. Preparation of acid base titration.
3. Preparation of Buffers of known pH, buffering capacity.
4. Qualitative test for Carbohydrates.
5. Qualitative test for lipids.
6. Preparation paper model of DNA.
7. Estimation of Amino acid (Tyrosine)
8. Estimation of Protein by Lowry's method.
9. Estimation of Carbohydrates by Anthrone reagent method. (Glycogen)

10. Separation of amino acids by paper chromatography.
11. Separation of Proteins by Gel electrophoresis.
12. Study of factors affecting enzyme activity (Substrate concentration, pH, Temperature and Inhibitors)
13. Isolation of Casein protein from the milk.
14. Determination of isoelectric pH of Caesin.

ZOO/MJ/-505

Practical based on ZOO/MJ/-502

(ECOLOGY: PRINCIPLES AND PRACTICES)

1. Study of ecosystem biodiversity of local area.
2. Estimation of DO/ BOD
3. Estimation of hardness of water sample. (Total. Sodium and Potassium hardness.)
4. Estimation of Salinity /Nitrates and phosphates from a given water sample.
5. Biomass analysis in a given ecosystem.
6. Species diversity in community and its measurement- Alpha diversity- Simpsons diversity index. Shannon index, Fisher alpha. Beta diversity- Sorensen's similarity index, Whittaker's index, Evenness, Gamma diversity, Guild and its functioning in the community.
7. Productivity estimation in given ecosystem (Primary and Secondary) 8. Study of efficiency of sampling method.
9. Study of air quality and aerobiology in given area. 10. Toxicology- Principles, toxicants- types, dose and effects, toxicity of heavy metals
11. Measuring ecotoxicity using a lettuce seed assay.
12. Estimation of various physical parameters of water (SSP, Turbidity, TDS etc).
13. Visit to any biodiversity centre /National park/Sanctuary and submission of report.

Practical

ZOO/MJ/-506-Skill/ Advanced technique

Unit-V Neuroendocrine mechanisms in Echinodermata.

1. Histomorphology of radial nerve neurosecretory system in starfish.
2. Neurosecretory hormones and control of reproduction in Echinodermata.
3. Hormone types and their chemical nature in echinoderms.

References

1. Highnam K.C. and Hill L: The comparative Endocrinology of Invertebrates.
2. Adiyodi and Adiyodi: Reproductive Biology of invertebrates Vol. I & II.
3. Laufer H. and Downer R.C.H. Endocrinology of selected invertebrates Types.
4. Journals and Internet resources.
5. Boolootian R.: Physiology of Echinodermata.

Reference Book

1. Patil Meena: Neurobiology and Electrophysiology of Decapod.
2. Crustacean Lockwood ,A.P.M. : Aspects of Physiology of Crustacea.
3. Novak, U.J.A. : Insect hormones.
4. Rock stein M. : The physiology insect Vol.I.
5. Wilbur K.M. and Young ,C.M. Physiology of Mollusca Vol.I and II Mill P.J. Physiology of Annelida.

ZOO/DSE/-508

Practicals based on ZOO/DSE/507 (Helminthology I)

1. Examination and survey of host(vertebrates) for parasitic collection
2. .Collection of trematodes and cestodes from various host.
3. .Preservation, staining and mounting of collected trematodes & cestodes and preparation of their permanent slides (At least 10 from cestodes and 10 from trematode).
4. Identification of parasites from the prepared slides.
5. Study of different trematode and cestodes from permanent slide (At least 10 from cestodes and 10 from trematode).
6. .Study of hold fast organs in helminths.
7. Examination of fecal samples for ova.
8. Study of different larvae of helminth parasites (from permanent slides)
9. .Collection and examination of molluscan hosts for larvae of trematode.
10. .Study of effect of helminth parasites(histopathology) on the host tissue
a. micro technique.
11. Submission: At least five permanent slides to be submitted at the time of practical examination.

ZOO/DSE/-510

Practical based on ZOO/ DSE /-509

Protozoology-I

1. Collection, observation in living condition-fixation, staining and identification of protozoa from different habitats.
 - a. Marine Protozoa
2. Collection, observation in living condition-fixation, staining and identification of Planktonic protozoa.
3. Collection, observation in living condition-fixation, staining and identification of Soil protozoa.
4. Study of population density of ciliates in fresh water.
5. Study of ecological factors in relation to freshwater ciliates.
 - a. Oxygen
 - b. Carbon dioxide
 - c. pH
 - d. Oxidized organic matter
6. Study of different protozoans
7. Study of cyclosis in Paramecium.
8. Study of contractile vacuole to observe excretion and osmoregulation.
9. Submission of slides.

ZOO/DSE/-512

Practical based on ZOO/ DSE /-511 Entomology-I

1. Study, mounting and sketching of types of mouth parts, antennae
2. Study, mounting and sketching of wings, legs.
3. Study, mounting and sketching of genitalia of various insects.
4. Dissections of Digestive system of five available/ at least 3 insects.
5. Dissections of Reproductive system of five available/ at least 3 insects.
6. Dissections of Nervous system of five available/ at least 3 insects.
7. The Study and preparation of permanent slides of any five organs of at least 2 insects.
8. Estimation of enzyme activities of Amylase, Invertase, Lipase & Protease in the alimentary canal / midgut of cockroach.
9. Detection of uric acid as an end product of excretion in any terrestrial insect.
10. Study of types and Total count of haemocytes in haemolymph of any one insect.
11. Determination of role of insect hormones in the pupation of insect larvae by ligature technique.
12. Study of eggs, larvae and pupae / nymph of any one insect.

ZOO/DSE/514

Practical based on ZOO/DSE/513 (Endocrinology-I)

1. Histomorphological study of neuroendocrine system in various invertebrates (Annelids, Mollusca Arthropoda etc) (At least 10 Slides)
2. Dissection of nervous systems in different invertebrates (Leech, Crab, Cockroach. etc)
3. Histological preparation of slides of neuroendocrine centers (at least 5)
4. Effect on brain removal on oxygen consumption in leech.
5. Effect of background on integument chromatophores of the freshwater prawn, *Caridina/Macrobachium*.
6. Effect of eyestalk removal on oxygen consumption of freshwater crab/prawn.
7. Effect of eyestalk removal on blood glucose level in crab/prawn.
8. Effect of eyestalk removal on chromatophores in relation to background adaptation in *Cariadina/Macrobacrium*

PRACTICALS

ZOO/MJ/-553

Practical based on ZOO/MJ/-550 Genetics and Bioinformatics

Genetics and Bioinformatics (Any 8)

1. Determination of blood groups and suggestions on Medico legal problems regarding the parentage disputes using blood groups.
2. Problems based on interaction of genes
3. Culture of *Drosophila melanogaster* and study of its life cycle stages
4. Mutant studies in *Drosophila*.
5. Identification of blood group, a case study of multiple alleles.
6. Chironomous larva – Giant Chromosomes
7. Study of gene frequency using PTC tests (taster and non – tasters)
8. database search and data retrieval-using NCBI, SWISS-PROT, PDB, Expasy.
9. Methods of sequence alignment-BLAST and Clustal W.
10. Phylogenetic tree using PHYLIP.
11. Gene Prediction using GENSCAN/GRAI.
12. Protein structure visualization using RASMOL.

ZOO/MJ/-554

Practical based on ZOO/MJ/-551 Cell and Molecular Biology

1. Preparation of different cell types as hepatocytes/ parenchymal cells
2. Study of tumor and cancerous cell (Use permanent slides)
3. Study of Stages of Mitosis (permanent slides)
4. Study of Stages of Meiosis (permanent slides)
5. Squash preparation of grasshopper testis to study meiotic stages.
6. Determination of mitotic index in the squash preparation of onion root tip. Effect of drugs on cell division (Colchicine or any other inhibitor)
7. Study of mitochondria by vital staining technique.
8. Fulgen reaction- Staining of DNA.
9. Micronuclei test.
10. Induction of puff and study of puffing pattern.
11. Study of polytene chromosomes.
12. Preparation of Microtome section, spreading.
13. Histochemical staining of carbohydrates (PAS), Protein (Bromophenol blue), lipids (Sudan Black), DNA (Fuelgen stain).

ZOO/MJ/-555

Practical based on ZOO/MJ/-552 Immunobiology

1. To study the immunological techniques. (Cell culture, ELISA, Flow cytometry)
2. To study the different cells of immune system (by permanent slide/charts)
3. To determine the blood groups of given blood samples by slide agglutination, technique.
4. Blood group antigen and research system
5. Blood cell count
6. To perform double immunodiffusion (DID) by using Outherlony's method.
7. To carry out Immunoelectrophoresis..
8. To determine haemocytes from cockroach hemolymph.
9. To determine the activity of Phenol oxidase in haemolymph of cockroaches
10. To study the immunodeficiency diseases.

Practical.

ZOO/MJ/-556- Skill/ Advance technique

ZOO/DSE/558

Practical based on ZOO/DSE/-557 Helminthology-II

1. Collections of Nematodes from locally available animals
2. Basic techniques of preservation and mounting of Nematodes
3. Identification of collected Nematodes
4. Fecal sample analysis for collection and identification of ova.
5. Study of permanent slides of animal nematodes (At least 8).
6. Study of larva.
7. Collection and identification of Phyto nematode.
8. Techniques of collection, fixation, mounting and preparation of permanent slides of phytonemes.
9. Study of permanent slides of plant nematodes.
10. Submission of permanent slides at the time of examinations.

ZOO/DSE/560

Practical based ZOO/DSE/558(Protozoology II)

1. Classification of parasitic protozoa.
2. Study of ciliates in alimentary canal of vertebrates and invertebrates.
3. Impregnation of ciliates with dry silver nitrate for study of kinetic structure.
4. Study of haemoflagellates from vertebrate blood.
5. Preparation of blood smear, staining and identification of staining of haemosporina.
6. Histopathology of host tissue caused by Apicomplexan parasites.
7. Examination of fecal sample of vertebrate host for oocyst of coccidia.
8. Collection of coccidian oocysts by centrifugation method.
9. Observation of oocysts for sporulation.
10. Study of different mosquito vectors of protozoan parasites.
11. Collection of Myxozoa from fishes.
12. Study of binary fission and conjugation in ciliates

ZOO/DSE/-562

Practical Based on ZOO/DSE/-559 Entomology II

1. Collection, preservation, sketching, identification and classification of insects from Marathwada belonging to orders- Thysanura, Collembola, Odonata, Orthoptera, Mallophaga, Anopleura, Isoptera.
2. Collection, preservation, sketching, identification and classification of insects from Marathwada belonging to orders Hemiptera, Coleoptera, Neuroptera, Hymenoptera. Lepidoptera. and Diptera and insects from Marathwada.
3. Identification damage symptoms, and management practices of pests of Jowar. Cotton, Sugarcane, Soyabean,
4. Identification damage symptoms, and management practices of pests of Vegetables, Fruit Crops. Stored grains.
5. Collection and study of parasitic, predatory and biological control agents.
6. Collection and study of pollinator insects,
7. Collection and study of forensic insects.
8. Study of insect vectors like mosquito, bed bug, flea, body louse, rat flea.
9. Study of silk worm - adult, caterpillar, cocoon and types of silk worms.
10. Study of Indian species of honeybee and Study of life cycle of honeybee.

11. Study of Indian species of *Lacifer lacca* and its life cycle stages.
12. Field visit for demonstration of pest damage/Sericulture farm/Apiculture farm.

ZOO/DSE/-564

Practical based on ZOO/DSE/-560 Endocrinology- II

1. *In situ* demonstration of endocrine glands in rat or by demonstration using visual aids.
2. Histological study of endocrine glands in different vertebrate representatives
3. Anatomical studies of reproductive system in and rat
4. Study of estrous cycle in rat
5. Endocrine gland removal in rat- a) Orchidectomy b) Ovaryectomy
c) Adrenalectomy d) Thyroidectomy
6. Effect of thyroxin on oxygen consumption in fish
7. Chromatophores and colour changes in fish (a) Effect of back ground and (b) Effect of MSH injection.
8. Determination of cholesterol in the adrenal gland of rat.
9. Effect of insulin on blood glucose levels in fish / rat
10. Histological techniques : preparation of permanent slides for histological structure of endocrine glands of rat (at least 5 be submitted)

ZOO/OJT/FP/565 –On job training/Field project





NEP-2020 BASED CURRICULAM FOR PG COURSE IN AFFILIATED COLLEGES OF DR.BAMU, AURANGABAD

Semester : I		
Course Name: Inorganic Chemistry Laboratory Course-I		Course Code: CHEL/MJ/-504
Course type : DSC-5		4 Hrs/ Week
Total contact hours :60 Hrs	Lab. Work Credit: 2	Marks : 50
Course outcomes:		
On completion of this course, the students will be able:		
1.	To understand the difference between qualitative and quantitative analysis.	
2.	To understand the concept of qualitative and quantitative chemical analysis and their chemical reactions and constituents .	
3.	To understand the design and development of experimental setup and procedure, for volumetric and gravimetric analysis of chemical compound.	
4.	To identify constituents of chemicals qualitatively and quantitatively	
5.	To understand importance of accuracy and precision in measurement of chemical analysis	
6.	To apply grasped knowledge to solve chemical analysis related issues of stakeholder.	
7.	To understand importance of laboratory skills, precaution, accuracy and precision.	
8.	To separate and identify acidic & basic radicals from chemical sample.	
9.	To apply the grasped knowledge in chemical analysis of unknown sample.	
List of experiments		
Sr No	Group- I (Any 3)	
1.	Separation and Identification of three basic radicals from II group sample mixture by semimicro qualitative analysis method and their chemical reactions .	
2.	Separation and Identification of three basic radicals from III-A group sample mixture by semimicro qualitative analysis method and their chemical reactions .	
3.	Separation and Identification of three basic radicals from III-B group sample mixture by semimicro qualitative analysis method and their chemical reactions .	
4.	Separation and Identification of three basic radicals from IV group sample mixture by semimicro qualitative analysis method and their chemical reactions	
5.	Separation and Identification of three basic radicals from special group sample mixture by semimicro qualitative analysis method and their chemical reactions .	

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Group- II (Any 3)	
6.	Separation and Identification of three basic radicals from II, IIIA and IIIB groups sample mixture by semimicro qualitative analysis method and their chemical reactions .
7.	Separation and Identification of three basic radicals from IIIA , IIIB & IV groups sample mixture by semimicro qualitative analysis method and their chemical reactions.
8.	Separation and Identification of three basic radicals from IIIA , IIIB & V groups sample mixture by semimicro qualitative analysis method and their chemical reactions.
9.	Separation and Identification of three basic radicals from IIIA , IV & special groups sample mixture by semimicro qualitative analysis method and their chemical reactions .
Group- III (Any 3)	
10.	Identification of Carbonate, Chloride Iodide and Acetate, ions from given mixture by semimicro qualitative analysis method along with chemical reaction of each radicals.
11.	Identification of Nitrate, Phosphate, Oxalate and Sulphate ions from given mixture by semimicro qualitative analysis method along with chemical reaction of each radicals.
12.	Identification of the Chloride , Bromide , Iodide and Acetate ions from given mixture along with chemical reaction of each radicals.
13.	Identification of Phosphate , Oxalate , thiosulphate and Acetate ions from given mixture by semimicro qualitative analysis method along with chemical reaction of each radicals.
14.	Identification of Carbonate , Nitrate , Oxalate and thiosulphate ions from given mixture by semimicro qualitative analysis method along with chemical reaction of each radicals.
Group- IV (Any 3)	
15.	Qualitative analysis of metal ions present in soil sample.
16.	Determine the temporary and permanent hardness of given sample of water
17.	To determine the percentage of phosphate as Phosphorous in chemical fertilizer Ammonium phosphomolybdate method.
18.	To determine the percentage of oxalate ion from sodium oxalate by volumetric method.
19.	To determine the percentage purity of Sodium chloride in commercial salt sample by Volhard's method.
References Books	
1.	A Text book of Micro and Semi micro Qualitative Inorganic Analysis- IV Edn. A. I. Vogel

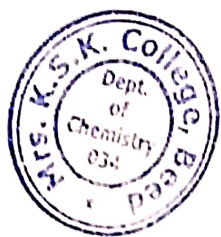


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2.	A Text book of Quantitative Inorganic Analysis- A. I. Vogel	
3.	Practical Inorganic Chemistry- Pass Geoffrey and Haydn Sutcliffe	
4.	Advanced Practical Inorganic Chemistry- Gurudeep Raj	
5.	Vogel's Qualitative Inorganic Analysis- VII Edn. Orient Longman Ltd. D. Svehla	
6.	A Text book of Micro and Semi micro Qualitative Inorganic Analysis- IVedn, A. I. Vogel	
7.	A Text book of Quantitative Inorganic Analysis- A. I. Vogel	
8.	Practical Inorganic Chemistry- Pass Geoffrey and Haydn Sutcliffe	

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Semester : I



Course Name: Organic Chemistry Laboratory Course-I		Course Code:CHEL/MJ/-505
Course type : DSC-6		4 Hrs/ Week
Total contact hours :60 Hrs	Lab. Work Credit: 2	Marks : 50
<p>Learning Outcome :</p> <p>On completion of this course, the students will be able</p> <ol style="list-style-type: none"> 1. Understand the separation and purification techniques 2. Understand various step involved in identification of organic compounds 3. Understand the handling of equipment required for the analysis of organic compounds. 4. Understand the stichometry of the reaction 5. To check the purity of compound using TLC 6. To check the Melting point 		
<p>List of experiments</p>		
1	<p>Qualitative Organic Analysis Separation, purification and identification of binary (Solid-Solid) mixtures with one water soluble compound. The separation should be carried out using Chemical method/ physical method The two components are solid-solid mixtures. Student should submit the purified samples of the separated compounds and prepare a suitable derivative of the two compounds separated out. Note: Analysis of at least five mixtures should be carried out.</p>	
2	<p>Single Stage Preparations</p> <ol style="list-style-type: none"> i) <i>p</i>-nitro acetanilide from acetanilide. ii) Dibenzylidene acetone from Benzaldehyde iii) <i>p</i>-nitrobromobenzene from bromobenzene iv) salicylaldehyde from phenol (Reimer Tiemann reaction) v) <i>o</i> benzol propionic acid from succinic anhydride <p>Note: i) The preparations should be carried out using (0.02 to 0.05 mole) of the starting material. ii) The yield, melting point and TLC of the recrystallised product should be recorded. Note: Student will not be allowed for practical examination if his/her record book is not completed and certified.</p>	

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NEP-2020 BASED CURRICULAM FOR PG COURSE IN AFFILIATED COLLEGES OF DR.BAMU, AURANGABAD

Semester: I	
Course Name: Physical Chemistry Laboratory Course-1	
Course Code: CHEL/MJ/-506	
4 Hrs/ Week	
Course Type: DSC-7	
Total contact hours :60 Hrs	Lab. Work Credit: 2
Marks: 50	
Course Outcomes :	
On completion of this course, the students will be able:	
1.	To analyse sample by various instrumental techniques
2.	To handling of electronic equipment
3.	To understand laboratory skills, precaution, accuracy and precision.
4.	To design experimental procedure for analysis important chemicals & samples
5.	To understand the physical properties of chemicals
6.	To distinguish accuracy of results in instrumental and non instrumental methods
Unit-I: Instrumental	
1.	Determination of strengths of halides in a mixture potentiometrically.
2.	Determination of the strength of strong and weak acid in a given mixture conductometrically.
3.	Determination of solubility and solubility product of sparingly soluble salt BaSO ₄ .
4.	Determine the pK ₁ and pK ₂ value of phosphoric acid by pH me try.
5.	Determine the indicator constant of given indicator by colorimetric measurements.
6.	Study of kinetics of inversion of cane sugar.
7.	Synthesis and XRD characterization & indexing of bcc & fcc metal oxides & calculation of lattice parameters & particle sizes.
8.	Synthesis and study of thermal decomposition patterns to investigate types of desorbed water, evolution of lattice oxygen and phase transition in a suitable compound.
9.	Thermal analysis of any 5 well known polymers and interpretation of their glass transition temperatures.
Unit-II: Non-Instrumental	

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1.	Determine the molecular refraction of methyl acetate, ethyl acetate, n-hexane and carbon tetrachloride and calculate the refraction of CH ₂ , C, H and O atoms.
2.	To study the effect of surfactants (sodium chloride) on surface tension of given liquid.
3.	To determine the radius of molecule by viscosity measurements.
4.	Determine the solubility of benzoic acid in water at different temperature and hence its heat of solution.
5.	Determine the formula of the complex formed between Cu(II) and ammonia by distribution method.
6.	Determine the velocity constant of hydrolysis of ester.
Reference Books:	
1.	Systematic experimental physical chemistry – T. K. Chondhekar & S.W. Rajbhoj
2.	Experiments in chemistry -- D.V. Jahagirdar

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M.Sc. Chemistry / 2nd Semester effective from 2023-24 & onwards
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		Semester : II	
Course Name: Inorganic Chemistry Laboratory Course -II			Course Code:CHEL/MJ/-554
Course type : DSC-12			4 Hrs/ Week
Total contact hours :60 Hrs	Lab. Work Credit: 2		Marks : 50
Learning outcomes:			
On completion of this course, the students will be able:			
1.	To design experimental procedure for synthesis of metal complexes , calculation of conversion factors and characterization of synthesized coordination complexes compounds.		
2.	To understand, which skills are required in chemical laboratory .		
3.	To understand importance of accuracy and precision in chemical analysis		
4.	To design the experimental procedure for separation and estimation of metals from mixture solution		
5.	To estimate the amount of constituents of chemicals by volumetric and gravimetric methods.		
6.	To apply grasped knowledge for finding purity of chemicals.		
List of experiments			
	Group- I (Any 3)		
1.	Preparation of $[Mn(acac)_3]$ complex and its spectral analysis .		
2.	Preparation of $Hg_2[(Co(SCN)_4]$ complex and its spectral analysis.		
3.	Preparation of $[Co(III)(NH_3)_6]Cl_3$ complexes and its spectral analysis.		
4.	Preparation of $[Ni(NH_3)_6]Cl_2$ complex and its spectral analysis.		
	Group- II (Any 2)		
5.	Preparation of Cis- $K[Cr(C_2O_4)_2(H_2O)_2]$ complex and its thermogravimetric analysis.		
6.	Preparation of $VO(acac)_2$ complex and its thermogravimetric analysis.		

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Chairman

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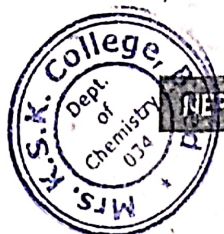
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M.Sc. Chemistry I & II (Semester) effective from 2023-24 & onwards




7.	Preparation of $[\text{Cu}(\text{NH}_3)_4]\text{SO}_4 \cdot \text{H}_2\text{O}$ complex and its thermogravimetric analysis.	
Group- III (Any 3)		
8.	Preparation of $\text{K}_3[\text{Fe}(\text{C}_2\text{O}_4)_3]$ complex and estimate the amount Iron present in it.	
9.	Preparation of $[\text{Co}(\text{III})(\text{NO}_2)(\text{NH}_3)_5]\text{Cl}_2$ complex and estimate the amount cobalt present in it.	
10.	Preparation and estimation of percentage of copper from the $[\text{Cu}(\text{NH}_2\text{CSNH}_2)_5](\text{NO}_3)_2$ complexes	
Group- IV (Any 3)		
11.	Separation of Copper and Nickel from the given binary mixture sample and estimate the amount of Copper by volumetric and Nickel by gravimetric method.	
12.	Separation of Nickel & Zinc from given binary mixture sample and estimate the amount of Zinc by volumetric method and Nickel by gravimetric method.	
13.	Separation of Copper & Barium from given binary mixture sample and estimate the amount of Copper by volumetric method and Barium by gravimetric method.	
14.	Separation of Iron & Aluminium from given binary mixture sample and estimate the amount of Aluminium by volumetric method and Iron by gravimetric method.	
15.	Separation of Copper & Iron from given binary mixture sample and estimation of amount of Copper by volumetric method and Iron by gravimetric method.	
16.	Separation of Iron & Magnesium from given binary mixture sample and estimation of amount of Iron & Magnesium volumetric method.	
Group- V (Any 3)		
17.	Determination of percentage purity of concentrated hydrochloric acid by volumetric method.	
18.	Determination of chemical oxygen demand from given sample of water by volumetric method.	
19.	Determination of dissolved oxygen from given sample of water by volumetric method.	

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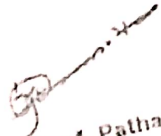
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20.	Determination of the percentage purity of copper sulphate from given commercial sample.	
21.	Determination of the amount of water content in commercial sample of copper sulphate .	
	References Books	
1.	Advanced Practical Inorganic Chemistry- GurudeepRaj,.	
2.	Practical Inorganic Chemistry- Pass Geoffrey and Haydn Sutcliffe.	
3.	A Text book of Micro and Semi micro Qualitative Inorganic Analysis, IVedn. A. I. Vogel	
4.	A Text book of Quantitative Inorganic Analysis; A. I. Vogel	
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University, Aurangabad (M.S)



Semester : II		
Course Name: Organic Chemistry Laboratory Course-II		Course Code: CHEI/MJ/-555
Course type : DSC-13		4 Hrs/ Week
Total contact hours :60 Hrs	Lab. Work Credit: 2	Marks : 50
Course Outcomes <ol style="list-style-type: none"> 1. To Perform/demonstrate the techniques involved in organic binary mixture separation specially solid- liquid mixture. 2. To perform distillation techniques for purification of organic compounds. 3. To use/ apply the technique of separation, crystallization derivatization and function Group detection. 4. To use the methods for the preparation of useful compounds using named reaction 		
List of experiments		
1	Qualitative Organic Analysis: Separation, purification and identification of binary (Solid-Liquid) mixtures. The separation should be carried out using Chemical method. The two components are solid-liquid mixtures. Student should submit the purified samples of the separated compounds and prepare a suitable derivative of the two compounds separated out. Note: Analysis of at least Five mixtures should be carried out.	
2	Single Stage Preparations: <ol style="list-style-type: none"> i) <i>p</i>-Bromo acetanilide from acetanilide. ii) 1,4-dichlorobenzene from <i>p</i>-chloroaniline iii) Benzophenone from benzene (Friedel Craft) iv) Cinnamic acid from Benzaldehyde (Perkins reaction) v) <i>o</i>-iodo benzoic acid from anthranilic acid Note: i) The preparations should be carried out using (0.02 to 0.05 mole) of the starting material. ii) The yield, melting point and TLC of the recrystallized product should be recorded. Note. Student will not be allowed for practical examination if his/her record book is not completed and certified.	


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Semester: II	
Course Name: Physical Chemistry Laboratory Course -II	
Course Code: CHEL/MJ/556	
Course Type: DSC-14	4 Hrs/ Week
Total contact Hours :60 Hrs	Lab. Work Credit: 2 Marks: 50
Course Outcome :	
1.	On completion of this course, the students will be able:
2.	To analyse sample by various instrumental techniques
3.	To handling of electronic equipment
4.	To understand laboratory skills, precaution, accuracy and precision.
5.	To design experimental procedure for analysis important chemicals & samples
6.	To understand the physical properties of chemicals
7.	To distinguish accuracy of results in instrumental and non instrumental methods
Unit-I: Instrumental	
1.	Determination of dissociation constants of phosphoric acid potentiometrically.
2.	Determination of dissociation constants of weak acid potentiometrically.
3.	Determination of acidic and basic dissociation constants of an amino acid and its isoelectric point.
4.	Determination of equilibrium quotient for the formation of monothiocynato iron (III) complex.
5.	To study the kinetics of mutarotation of glucose/fructose polarographically.
6.	Study of thermal analysis (TG/DTA/DSC) in atmosphere of evolved gases e.g decomposition of CaCO ₃ , KClO ₃ etc in environment of gases such as N ₂ , O ₂ , CO ₂)
7.	Synthesis of various crystalline modifications of a hydrous transition metal oxide and their characterization by infra – red spectroscopy.
8.	Investigating esterification reaction by using solid acid catalyst and study of the reaction kinetics by IR spectroscopy.
9.	Study of kinetics of zeolite synthesis by infrared spectroscopy.
10.	Identification of acidic and basic sites of a catalyst by in situ infrared spectroscopy.
Unit-II: Non-Instrumental	
1.	To study the adsorption of acetic acid from aqueous solution by activated charcoal and examine the validity of Freundlich and Langmuir's isotherm.
2.	To construct the phase diagram for three component system (chloroform-acetic acid water).
3.	To study auto catalysis reaction between potassium permanganate and oxalic acid.

Prof. Palhan Mahd : **Ali Khan**
 Prc : **Ali Khan**

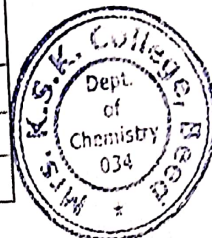
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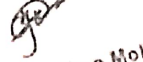
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4. Determine the rate constant of the reaction between potassium persulphate and potassium iodide having equal/unequal concentration of the reacting species.
5. To study the variation of viscosity with the composition of mixtures (ethanol-water-HNO₃-chloroform) and to determine the formation of complex between two liquids.

Reference Books:

1. Systematic experimental physical chemistry – T. K. Chondhekar & S.W. Rajbhoj
2. Experiments in chemistry – D.V. Jahagirdar




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Course Structure of B.Sc. program (Faculty of Science) under CBCS pattern:

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad Choice Based Credit System (CBCS) Structure & Curriculum B.Sc. Botany Three Year Undergraduate Degree Program

Semester I								
Course	Course Code	Course Title	Periods (Periods /week)	Credits	Scheme of Examination			
					Max Marks	CIA	UA	Min Marks
Optional I (DSC-1A) Core Courses	BOT-111	Diversity of Cryptogams - I (Theory Paper-I)	45(3/week)	02	50	10	40	20
	BOT-112	Morphology of Angiosperms (Theory Paper-II)	45(3/week)	02	50	10	40	20
	BOT-121	Lab Course I (Based on BOT-111 and BOT-112)	45(3/week)	1.5	50	10	40	20
Ability Enhancement compulsory courses (AECC-1)	ENG-131	Communication skills in English-I	45(5/week)	03	50	10	40	20
	SL-132	Marathi/Hindi/Additional English/Urdu/Sanskrit A student can opt for any one of these languages (SL-I)	45(4/week)	03	50	10	40	20
Non-Credit Course								
			225	11.5	250	50	200	100
Total Credits for Semester I : 11.5 (Theory : 10 ; Laboratory : 1.5)								
Semester II								
Course	Course Code	Course Title	Periods (Periods /week)	Credits	Scheme of Examination			
					Max Marks	CIA	UA	Min Marks
Optional I (DSC-1B) Core Courses	BOT-211	Diversity of Cryptogams -II (Theory Paper-III)	45(3/week)	02	50	10	40	20
	BOT-212	Histology, Anatomy & Embryology (Theory Paper-IV)	45(3/week)	02	50	10	40	20
	BOT-221	Lab course 2 (Based on BOT-211 & BOT-212)	45(3/week)	1.5	50	10	40	20
Ability Enhancement compulsory courses (AECC-2)	ENG-231	Communication skills in English-II	45(5/week)	03	50	10	40	20
	SL-232	Marathi/Hindi/Additional English /Urdu/Sanskrit,A student can opt for any one of these languages (SL-II)	45(4/week)	03	50	10	40	20
Non-Credit Course	COI-213	Constitution of India	45(3/week)	02	50	10	40	20
Non-Credit Course	CCC-214	Compulsory Computer Course	45(3/week)	02	50	10	40	20
			315	15.5	250	50	200	100
Total Credits for Semester II : 15.5 (Theory : 14 ; Laboratory : 1.5)								

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad
Choice Based Credit System (CBCS) Structure & Curriculum
B.Sc. Botany Three Year Undergraduate Degree Program

Semester III

Course	Course Code	Course Title	Periods (Periods /week)	Credits	Scheme of Examination			
					Max Marks	CIA	UA	Min Marks
Optional I (DSC-1C) Core Courses	BOT-311	Core Course (Theory Paper-V) Taxonomy of Angiosperms	45(3/week)	2	50	10	40	20
	BOT-312	Core Course (Theory Paper-VI) Plant Physiology	45(3/week)	2	50	10	40	20
	BOT-321	Lab course 3 (Based on BOT -311)	45(3/week)	1.5	50	10	40	20
	BOT-322	Lab course 4 (Based on BOT -312)	45(3/week)	1.5	50	10	40	20
Skill Enhancement course (SEC-1)	SEC-313	SEC-1 Any one skill to be chosen out of two SEC-1(A), SEC-1 (B)	45(3/week)	2	50	10	40	20
Ability Enhancement compulsory courses (AECC-3)	ENG-331	Communication skills in English-III	45(5/week)	3	50	10	40	20
	SL-332	Marathi/Hindi/ Additional English/Urdu/Sanskrit A student can opt for any one of these languages (SL-III)	45(4/week)	3	50	10	40	20
			315	15	350	70	280	140

Total Credits for Semester III : 15 (Theory : 12 ; Laboratory : 3)

Semester IV

Course	Course Code	Course Title	Periods (Periods /week)	Credits	Scheme of Examination			
					Max Marks	CIA	UA	Min Marks
Optional I (DSC-1D) Core Courses	BOT-411	Core Course (Theory Paper-VII) Gymnosperms & Utilization of Plants	45(3/week)	2	50	10	40	20
	BOT-412	Core Course (Theory Paper-VIII) Plant Ecology	45(3/week)	2	50	10	40	20
	BOT-421	Lab Course 5 (Based on BOT-411)	45(3/week)	1.5	50	10	40	20
	BOT -422	Lab Course 6 (Based on BOT -412)	45(3/week)	1.5	50	10	40	20
Skill Enhancement course (SEC-2)	SEC-413	SEC-2 Any one skill to be chosen out of two SEC-2(C), SEC-2 (D)	45(3/week)	2	50	10	40	20
Ability Enhancement compulsory courses (AECC-4)	ENG-431	Communication skills in English-IV	45(5/week)	3	50	10	40	20
	SL-432	Marathi/Hindi/ Additional English/ Urdu Sanskrit A student can opt for any one of these languages (SL-IV)	45(4/week)	3	50	10	40	20
Additional Credits	EVS-413	Environmental Studies	45(3/week)	02	50	10	40	20
			360	17	350	70	280	140

Total Credits for Semester IV : 15 (Theory : 14 ; Laboratory : 03)

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad
Choice Based Credit System (CBCS) Structure & Curriculum
B.Sc. Botany Three Year Undergraduate Degree Program

Semester V

Course	Course Code	Course Title	Periods (Periods /week)	Credits	Scheme of Examination			
					Max Marks	CIA	UA	Min Marks
Optional I (DSE-1 A) Discipline Specific Elective	BOT-511	DSE-1A(1) (Theory Paper-IX) Cell Biology & Molecular Biology	45(3/week)	2	50	10	40	20
	BOT-512	DSE-1A(2) (Theory Paper-X) (Select any one paper from A1/B1/C1/D1)	45(3/week)	2	50	10	40	20
	BOT-521	Lab course 7(Based on BOT-511)	45(3/week)	1.5	50	10	40	20
	BOT-522	Lab course 8 (Based on BOT-512 A1/B1/C1/D1)	45(3/week)	1.5	50	10	40	20
Skill Enhancement course (SEC-3)	SEC-513	SEC-3 Any one skill to be chosen out of two SEC-3(E) , SEC-3 (F)	45(3/week)	2	50	10	40	20
Non-Credit Course	PEV-514	Professional Ethics and Moral Values	45(3/week)	2				
			270	11	250	50	200	100

Total Credits for Semester V : 11 (Theory : 08 ; Laboratory : 03)

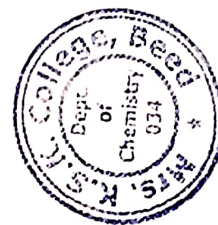
Semester VI

	Course Code	Course Title	Periods (Periods /week)	Credits	Scheme of Examination			
					Max Marks	CIA	UA	Min Marks
Optional I (DSE-1 B) Discipline Specific Elective	BOT-611	DSE-1B(1) (Theory Paper-XI) Genetics and Evolution	45(3/week)	2	50	10	40	20
	BOT-612	DSE-1B(2) (Theory Paper-XII) (Select any one paper from A2/B2/C2/D2)	45(3/week)	2	50	10	40	20
	BOT-621	Lab course 9(Based on BOT-611)	45(3/week)	1.5	50	10	40	20
	BOT-622	Lab course 10 (Based on BOT-612- A2/B2/C2/D2)	45(3/week)	1.5	50	10	40	20
Skill Enhancement course (SEC4)	SEC-613	SEC-4 Any one skill to be chosen out of two SEC-4(G) , SEC-4 (H)	45(3/week)	2	50	10	40	20
			225	9	250	50	200	100

Total Credits for Semester V : 09 (Theory : 06 ; Laboratory : 03)

Total Credits for three years : Sem I (11.5) + Sem II (11.5) + Sem III (15) + Sem IV (15) + Sem V (09) + Sem VI (09) = 71 Credits

BSc IV Semesters
Core course (Practical Paper VI)
CHE-322 Organic Chemistry



Credits 1.5

4 Lectures per week

Organic Qualitative Analysis (Five mixtures: water insoluble solid-solid type)

Separation of Two Components from given binary mixture of organic compounds containing mono and di-functional group (carboxylic acid, phenols, amines, nitro, anilide etc.) and systematic identification of one component qualitatively.

Organic Preparations

(Confirmatory Test of functional group: M.P and purity by TLC)

(Preference should be given to green approach for following synthesis)

1. Preparation of benzoic acid from ethyl benzoate
2. Acetylation of primary amine
3. Base catalysed Aldol condensation
4. Preparation of Quinone from hydroquinone
5. Preparation of phthalimide from phthalic acid

Organic estimations

6. Determine alcoholic OH groups by phtalation with pthalic anhydride in pyridine.
7. Determination of equivalent weight of a carboxylic acid by titration with standard aqueous alkali solution.
8. Estimation of amino acids by formol titration
9. Estimation of carbonyl compound with 2,4 dinitrophenyl hydrazine
10. Estimation of aldehyde/ketone by hydroxylamine -pyridine procedure

Reference books

1. Comprehensive Practical Organic Chemistry by V. K. Ahluwalia and Renu Aggarwal
2. A hand Book of Practical Chemistry, Dr. S. J. Naik, Phadake Prakashan.
3. Practical Organic Chemistry by Mann, F.G. & Saunders, B.C. Orient-Longman, 1960.
4. Vogel's Textbook of Practical Organic Chemistry, Tatchell, A.R., Furnis, B.S., Hannaford, A.J. & Smith, P.W.G.,
5. Elementary practical organic chemistry Part III quantitative analysis by A I Vogel
6. Elementary practical organic chemistry, Part I qualitative analysis by A I Vogel
7. Elementary practical organic chemistry Part II preparations by A I Vogel

Prof. Pathan Mohd Arif Ali Khan
Chairman
Board of Studies in Chemistry,
Abasaheb Ambedkar Marathwada
University, Aurangabad (M.S)



NSSR's


Mrs. Kesharbai sonajirao kshirsagar Alias Kaku Arts, science
and Commerce college Beed.

Department of English

Academic year 2023-24

Project report

Sr no	Name of student	Seat number	Title of project
1	Ankita Ahire	NBF605500	Life of maha Shweta devi
2	Manmode Pranita sanjay	NBF605577	Indian writers and their literary works


H.O.D
HEAD
Dept. of English
Mrs. K.S.K. College, Beed



NSSR's



**Mrs. Kesharbai sonajirao kshirsagar Alias
Kaku Arts, science and Commerce college
Beed.**

Department of English

Name of student: Ankita Ahire

PRN Number :

Class : B.A third Year (Six semester)

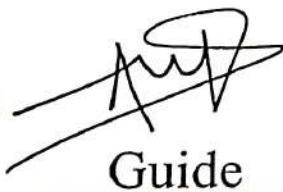
Subject : English

Year : 2023-2024

Name of Project: Life of maha Shweta devi


Seat Number : NBF605500

It is certified mentioned the above mentioned Student
submitted the project is approved and the said project that
was evaluated is certified by


Guide

Dr Khan A.S
Department of English
Mrs K.S.K college Beed




External examiner
Dr Abdul Aziz
Department of English



NSSR's

**Mrs. Kesharbai sonajirao kshirsagar Alias
Kaku Arts, science and Commerce college
Beed.**

Department of English

Name of student: Manmode Pranita sanjay

PRN Number :

Class : B.A third Year (Six semester)

Subject : English

Year : 2023-2024

Name of Project: Indian writers and their literary works

Seat Number : NBF605577

It is certified mentioned the above mentioned Student
submitted the project is approved and the said project that
was evaluated is certified by

Guide

Dr Khan A.S

Department of English

Mrs K S K college Beed



External examiner
Dr Abdul Anees
Department of English

NavganShikshanSansthaRajur (N)



MRS. KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU

ARTS, SCIENCE & COMMERCE COLLEGE, BEED (MII)

DEPARTMENT OF PUBLIC ADMINISTRATION

ACADEMIC YEAR 2023-24

PROJECT STUDENT LIST

SR.NO	STUDENT NAME	STUDENT ID	STUDENT SUBJECT
1.	MOTE SHANKAR SADASHIV	2668536	Jal Pradushan
2.	MUNDE SACHIN PANDURANG	1610240	Jal Pradushan

Dr Islapalle P.B

Dept of Pub Admin

नवगण शिक्षण संस्था राजुरी नवगण संचलित
सौ.केशरबाई सोनाजीराव क्षीरसागर उर्फ केशरबाई
कला, विज्ञान व वाणिज्य महाविद्यालय, बीड



प्रकल्प मूल्यांकन प्रमाणपत्र


शैक्षणिक वर्ष - २०२३-२४


विद्यार्थी / विद्यार्थिनी Mote Shankar Sudash वग
बी.ए.तृतीय वर्ष लोकप्रशासन याने / हिने Jal Pradushan
----- विषयाचे प्रस्तुत प्रकल्प कार्य स्वतः केलेले असून ते त्याने / तिने
समाधानकारक लिहिलेले आहे.

दिनांक- 26/03/2024

आसन क्रमांक - 2668536

प्राप्त गुण - $\frac{15}{20} + \frac{68}{60} = \frac{83}{100}$


बाह्य परीक्षक
Dr. Bhalerao J. K.
26/03/2024


अंतर्गत परीक्षक
Dr. Ishvalli P. B.


विभाग प्रमुख
Dr. Ishvalli P. B.

नवगण शिक्षण संस्था राजुरी नवगण संचलित
सौ.केशरबाई सोनाजीराव क्षीरसागर उर्फ काक
कला, विज्ञान व वाणिज्य महाविद्यालय, बीड



प्रकल्प मूल्यांकन प्रमाणपत्र

शैक्षणिक वर्ष - २०२३-२४

विद्यार्थी / विद्यार्थिनी Munde Sachin Parndraji वर्ग
बी.ए.तृतीय वर्ष लोकप्रशासन याने / हिने Tel pradyakhan
----- विषयाचे प्रस्तुत प्रकल्प कार्य स्वतः केलेले असून ते त्याने / तिने
समाधानकारक लिहिलेले आहे.

दिनांक- 26 / 03 / 2024

आसन क्रमांक - 1610240
~~2668536~~

प्राप्त गुण - 12 + 60 = 72
20 + 60 = 80

बाह्य परीक्षक
Dr. Bhalerao J.K.
26/03/2024

अंतर्गत परीक्षक
Dr. Bhalerao J.K.

विभाग प्रमुख
Dr. Bhalerao J.K.

MRS.KSK.COLLEGE ,BEED
DEPARTMENT OF GEOGRAPHY. 2023-2024

PROJECT TITAL AND NAME LIST OF UG &PG STUDENTS :-



❖ **UNDER GRADUATE STUDENT:2023-24**

❖ **STUDY OF FARMER PONDS TURIST DESTINATION IN BEED DISTRICT**

1. SURYAWANSHI SUMIT GURUNATH
2. BHOSLE NIKITA KUNDLIK
3. JAGTAP ABHIMAN BABAN

❖ **A GEORAPHICAL STUDY OF POLUTION IN BEED TALUKA**

1. CHAVAN AKANKSHA ANKUSH
2. CHAURE MOHINI HARINAND

❖ **STUDY OF INTEGRATED MAHARASHTRA GEOGRAPHY AND CHALLENGES**

1. KUTE NITIN KANIK

❖ **POST GRADUATE STUDENT:2023-24**

❖ **WATER POLLUTION AND MANAGMENT**

- 1.KHANDE DAMINI MACCHINDRA

❖ **NATURAL HAZARDS ANE RMIDIEK**

- 1.KHEMADE JAYA MOHAN

❖ **DISASTAR MANAGEMENT**

- 1.LANDGE RUSHIKESH BALASAHEB

❖ **WHAT IS URBANIZATION AND THE PROBLEMS IT CREATES**


- 1.NIRMAL GAYATRI DIPAK

❖ **MAHARASHTRA SCENERY**

- 1.RATHOD JYOTIRAM BHAGAWAN

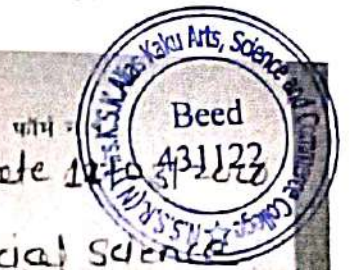
❖ **MANAGEMENT OF SOLID WASTE IN BEED CITY**

- 1.WAGHAMARE SHABDALI BABASAHEB


Head Department of Geography
Mrs. K. S. K. College, Beed.
Head Dept of Geograph...
Mrs. K.S.K College Beed



P. 2013 (main) Project



डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ

उपस्थिती अहवाल : परीक्षा - मार्च एप्रिल / ऑक्टोबर - 20 20

Mrs. K.S.K. College, Beed

T.Y. B.A. Sem VI Social Science

परीक्षा केंद्र क्रमांक 34

विषय Geography Project

सूचे ✓

दालन क्रमांक Geo Lab

पत्र क्रमांक GEO. 18-13

सूचना : या प्रपत्रातील परीक्षार्थीचे नैटक क्रमांक पर्यवेक्षकाने अनुपस्थिती क्रमांकासह क्रमाने लिहावेत.

अ.क्र.	नैटक क्रमांक	उत्तर पत्रिका क्रमांक	परीक्षार्थीची स्वाक्षरी	अ.क्र.	नैटक क्रमांक	उत्तर पत्रिका क्रमांक	परीक्षार्थीची स्वाक्षरी
1	NBB 606271		S. K. K.	29	606620		Chingale
2	233		Chavan	22	632		Chingale
3	336		Chavan	23	650		Mhadek
4	337		Chavan	24	653		(Blank)
5	338		Chavan				
6	368		Sanli P.	26			
7	371		Chavan	27			
8	382		Chavan	28			
9	428		Chavan	29			
10	499		Chavan	30			
11	514		Chavan	31			
12	518		Chavan	32			
13	519		Chavan	33			
14	520		Chavan	34			
15	526		S.M. Patil	35			
16	527		Chavan	36			
17	534		Chavan	37			
18	544		Chavan	38			
19	545		Chavan	39			
20	602		Chavan	40			

एकूण उपस्थित परीक्षार्थी - 23

Twenty three

एकूण अनुपस्थित परीक्षार्थी - 17

Chavan

केंद्र प्रमुखानी राहो

सह केंद्र प्रमुखानी राहो

पर्यवेक्षकाची राहो

Dr. A. Wadhwa OK

- सूचना :
- प्रत्येक वर्ग आणि विद्याशाखेकरिता स्वतंत्र फॉर्म भरावा
 - मूळप्रत परीक्षा प्रारंभानंतर अर्जांनुसाराने केंद्र प्रमुखाने सादी
 - परीक्षार्थीच्या उत्तरपत्रिका मूळप्रतीतील क्रमाने लावून मूळप्रतीसह उत्तरपत्रिकांचे बंडल करावे

U. B. Patil
Head Dept of Geography
Mrs. K.S.K. College Beed

नवगण शिक्षण संस्था राजुरी (न)
सौ. के.एस.के. महाविद्यालय बीड.



भूगोल विभाग

:: प्रमाणपत्र ::

प्रमाणित करण्यात येते की, श्रीमती निर्मळ गायत्री दिपक एम.ए.
द्वितीय वर्ष चाने / हिने विद्यापीठाने अभ्यासक्रमात ठेवलेला संशोधन प्रकल्प
अहवाल सन 2023-24 या शैक्षणिक वर्षामध्ये समाधानकारक रित्या पूर्ण
केला आहे.

दिनांक :- 27/4/2024

परिक्षा क्रमांक : 66D401077

कों. डॉ. प्रा. बी.टी. पोटे

भूगोल विभाग प्रमुख
पदवी व पदव्युत्तर भूगोल विभाग सौ.
के.एस.के. महाविद्यालय, बीड.



डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ छत्रपती संभाजी

नवगण शिक्षण संस्था राजुरी (न)

सौ. के. एस. के. महाविद्यालय बीड

भूगोल विभाग

२०२३ - २०२४

प्रमाणपत्र



दि. 27/04/2024

प्रमाणित करण्यात येते की, श्री. लांडगे ऋषिकेश बाळासाहेब हजेरी क्र. परीक्षा क्र. GGD401076 एम.ए. द्वितीय वर्ष (सत्र चौथे) भूगोल , यांनी शैक्षणिक वर्ष २०२३- २०२४ मध्ये "आपत्ती व्यवस्थापन" केले व उत्कृष्ट पद्धतीने अहवाल तयार केले आहे. करिता प्रमाणपत्र देण्यात येत आहे .

मार्गदर्शक

प्रा. एम. एस. आगाम

भूगोल विभाग

सौ. के. एस. के. महाविद्यालय, बीड.

कॅप्टन. डॉ. पोटे बी. टी

पदव्युत्तर भूगोल विभाग प्रमुख

सौ. के. एस. के. महाविद्यालय, बीड.



डॉ. बाबासाहेब आंबेडकर पराजवाडा विद्यापीठ व यांनी संभाजीनगर

नवगण शिक्षण संस्था राजुरी (न.)

सौ.के.एस.के.महाविद्यालय,बीड



भूगोल विभाग

2023-2024

प्रमाणपत्र

दिनांक : 21/04/2024

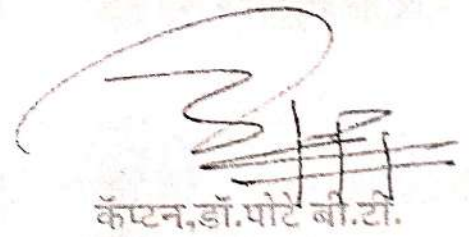
प्रमाणित करण्यात येते की, श्री./श्रीमती खांडे दामिनी मच्छिंद्र हजेरी क्र.
परिक्षा क्रमांक GGD401074 एम.ए.द्वितीय वर्षे (सत्र चौथे) भूगोल, यांनी शैक्षणिक वर्ष 2023-
2024 मध्ये " जलप्रदुषण व व्यवस्थापन " केले व उत्कृष्ट पध्दतीने अहवाल तयार केले आहे.
करिता प्रमाणपत्र देण्यात येत आहे.

मार्गदर्शक


प्रो. ए. एस. आगास

भूगोल विभाग

सौ.के.एस.के.महाविद्यालय,बीड


कॅप्टन,डॉ.पोटे बी.टी.

पदव्युत्तर भूगोल विभाग प्रमुख

सौ.के.एस.के.महाविद्यालय,बीड

सौ के एस के महाविद्यालय बीड
भूगोल विभाग



:: प्रमाणपत्र ::

प्रमाणित करण्यात येते की, श्री/श्रीमती/कु. जोसेल. त्रिकिता कुंजालकर
बी.ए.तृतीय वर्ष याने / हिने विद्यापीठाने अभ्यासकमात ठेवलेला
संशोधन प्रकल्प अहवाल सन 2023-24 या शैक्षणिक वर्षामध्ये
समाधानकारक रित्या पूर्ण केला आहे.

दिनांक : 28 / 03 / 2024

परिक्षा क्रमांक : ... HBE605509

श्री.प्रा.पोटे बी.टी.

भूगोल विभाग प्रमुख
पदवी व पदव्युत्तर भूगोल विभाग
सौ.के.एस.के. महाविद्यालय, बीड



सौ. के.एस.के. महाविद्यालय, बीड

सौ. के.एस.के. महाविद्यालय, बीड

भूगोल विभाग

प्रकल्प अहवाल

2023-2024

बी.ए. तृतीय वर्ष सत्र सहाचे

बीड तालुक्यातील प्रदूषणाचा अभ्यास

संशोधक विद्यार्थी

आकांक्षा चव्हाण

मोहिनी चोरे 



संशोधक मार्गदर्शक

कॉन्टन. डॉ. पोटे बी.टी.

विभाग प्रमुख

पदवी व पदव्युत्तर भूगोल विभाग

सौ. के.एस.के. महाविद्यालय बीड

नवगण शिक्षण संस्था राजुली (न)

सौ. के. एस. के. महाविद्यालय, बीड



भूगोल विभाग

प्रमाणपत्र

दिनांक: 27/1/2024

प्रमाणित करण्यात येते की, श्री/कु. वाघमारे शब्दाती बाबासाहेब

हजेरी क्र. 14/10/08 परिक्षा क्र. जज०४०१०८० एम.ए. द्वितीय वर्ष (सत्र चौथे) भूगोल,
पहिले शैक्षणिक वर्ष २०२३-२०२४ मध्ये "बीड शहरातील घनकचऱ्याचे व्यवस्थापन" केले व उत्कृष्ट
पध्दतीने अहवाल तयार केला आहे.

करिता प्रमाणपत्र देण्यात येत आहे.

नामदर्शन

पा. एस. एस. आगाम सर,

भूगोल विभाग

सौ. के. एस. के. महाविद्यालय, बीड.

कॅप्टन. डॉ. पोटे वी. टी.

पदव्युत्तर भूगोल विभाग प्रमुख,

सौ. के. एस. के. महाविद्यालय, बीड.



राज्य शासनाच्या अखत्यारीत पदव्युत्तर पराठराडा विद्यापीठ, अहवाल संस्था



नवगण शिक्षण संस्था राजुरी (न.)

सौ. के.एस.के. महाविद्यालय बीड

भूगोल विभाग

2023-2024

प्रमाणपत्र

दि. 24/04/2024

प्रमाणित करण्यात येते की, श्री. राठोड ज्योतीराम भगवान हजेरी क्र. परीक्षा क्र.


GGD401078 एम.ए.द्वितीय वर्ष (सत्र चौथे) भूगोल, यांनी शैक्षणिक वर्ष 2023-2024 मध्ये

'महाराष्ट्र दृष्काळ' केले व उत्कृष्ट पध्दतीने अहवाल तयार केले आहे.

करिता प्रमाणपत्र देण्यात येत आहे

मार्गदर्शक


प्रमाणित करणारा आचार्य
भूगोल विभाग


कॅप्टन. डी. मोटे बी.टी.
पदव्युत्तर भूगोल विभाग प्रमुख
सौ. के.एस.के. महाविद्यालय बीड

सौ. के.एस.के. महाविद्यालय बीड

नवगण शिक्षण संस्था राजुरी (नं)

सौ के.एस. के महाविद्यालय, बीड

भूगोल विभाग



:: प्रामाणपत्र ::

प्रमाणित करण्यात येते की, श्री / श्रीमती/ लतापु अक्षिमान ववने


बी.ए. तृतीय वर्ष याने /हने विद्यापीठाने अभ्यासक्रमात ठवलेला संशोधन प्रकल्प

अहवाल सन 2023-24 या शैक्षणिक वर्षामध्ये समाधानकारक रित्या पूर्ण केला

आहे.

दिनांक :- / / 2024

परिक्षा क्रमांक :-----


कों. डॉ. प्रा.वी.टी. पोटे

भूगोल विभाग प्रमुख
पदवी व पदव्युत्तर भूगोल विभाग
सौ.के.एस.के.महाविद्यालय,बीड

M.Com.II Year 2023-24

Project given to the students



Sr. No.	Student Name	Title of Project
1	BHATI HRUTIK SHIVLAL	Impact of Digital Accounting Practices on Small Businesses
2	CHEDE RUSHIKESH NANASAHEB	A Comparative Study of Tax Planning Strategies in Indian Corporates
3	DESHMUKH PRAGATI SUBHASH	Financial Statement Analysis of Selected Banks in India
4	DHONE ASHOK DATTA	The Role of Blockchain in Financial Reporting and Auditing
5	DONGRE ANIRUDHA ASARAM	Evaluation of Non-Performing Assets in Public vs Private Sector Banks
6	DORALE MAYUR LAXMAN	Cost-Benefit Analysis of Green Accounting Practices
7	FATALE MANISHA DEVIDAS	A Study on the Impact of GST on Small and Medium Enterprises
8	GADE KALYAN NAVANATH	Forensic Accounting: A Tool to Detect Financial Frauds
9	GAVARE KISHOR MAHADEV	Effectiveness of Working Capital Management in Manufacturing Firms
10	GONDE RENUKA PRASHANTRAO	Comparative Analysis of Mutual Fund Performance in India
11	JADHAV ASHWINI VIJAY	Consumer Perception Towards Online Shopping During COVID-19
12	JADHAV BHAGWAN SHANKARRAO	Impact of Digital Marketing on Consumer Behavior in Urban Areas
13	JADHAV SHITAL NARAYAN	Brand Loyalty and Customer Satisfaction in the Indian Automobile Sector
14	JAGJEEVAN SACHIN SANJAY	The Effectiveness of Social Media Influencer Marketing in India
15	JOGDAND DHANSHREE ASHRUBA	Green Marketing Practices in FMCG: A Case Study
16	JOSHI PRANOTI SHRINIWAS	Role of Packaging in Consumer Purchase Decisions
17	JOSHI VINAY SHRIKANTRAO	Customer Retention Strategies in E-Commerce Platforms
18	KADAM AMOL RAJABHAU	A Study on Rural Marketing Strategies Adopted by FMCG Companies
19	KALE VAIBHAV RADHAKISAN	Digital Payment Systems and Consumer Preferences Post-Demonetization
20	KAMBLE ANJALI RAMDAS	The Role of Neuromarketing in Consumer Decision-Making
21	KAMTHANKAR ISHWARI PRASHANT	Employee Retention Strategies in IT Companies
22	KAPLE KOMAL SRIRAM	Impact of Remote Work on Employee Productivity and Job Satisfaction
23	KAPLE SHITAL SHRIRAM	Role of Emotional Intelligence in Leadership Effectiveness
24	KAWADE PRAMOD BAJIRAO	A Study on Work-Life Balance Practices in Banking Sector Employees
25	KHAIRE ANIKET VIJAY	Impact of Training and Development on Employee Performance
26	KORDE HARSHALA ABHIMANYU	Employee Motivation and its Role in Organizational Success
27	KULKARNI ABHAY SUNDARRAO	Comparative Study of Recruitment Practices in Startups vs Established Corporates
28	MOHEKAR VANITA MUKUNDRAO	The Role of Diversity and Inclusion in Workplace Culture

29	MUNDADA PRIYANKA KACHARULAL	Effectiveness of Performance Appraisal Systems in Small Firms
30	MUNDE MANDAKINI MADHUKAR	Job Satisfaction and Career Growth Opportunities in the Retail Sector
31	NITURKAR RAJSHRI MAHESH	Customer Perception of Digital Banking Services
32	PAWAR SIDHANT SHRIRANG	A Study on Awareness of Microfinance Among Rural Women
33	RANDIVE PRATIKSHA SURESH	Impact of Artificial Intelligence on Banking Operations in India
34	RANDIVE PRITI SURESH	Analysis of Insurance Penetration in the Rural Sector
35	RAUT AMRUTA TULSHIRAM	Role of Credit Rating Agencies in Financial Market Stability
36	SATPUTE ASHOK PRABHU	Adoption of Mobile Banking Among Senior Citizens
37	SHAIKH HEENA NASEER	A Comparative Study of Public vs Private Life Insurance Providers
38	SHAIKH NASER BABU	Impact of Cybersecurity Threats on Online Banking
39	SHINDE PRATIK BALASAHEB	Role of Banking in the Financial Inclusion of Women Entrepreneurs
40	SHINDE VAIBHAV ASHOK	Analyzing the Growth of Health Insurance Post-COVID-19
41	SHRIVASTAV AVANTIKA RAJENDRA	The Role of E-Commerce in Promoting Local Handicrafts
42	SURYAWANSHI RUTUJA ARUN	Economic Impact of Tourism Development in India
43	TEKALE BHAGWATI VILASRAO	A Study on the Effectiveness of Financial Literacy Programs in Rural India
44	VEER SHWETA PRAKASH	Impact of Urbanization on Small-Scale Industries
45	WAKHARE VISHAKHA VITTHAL	The Role of Government Subsidies in Agricultural Growth

gnl

Head

Department of Commerce

M. K. S. K. College Beed-431122



N.S.S.R.'S
MRS.K.S.K ART'S SCIENCE AND
COMMERCE COLLEGE, BEED.

DEPARTMENT OF COMMERCE

Academic Year -2023-24

CERTIFICATE

This is to certify that the dissertation titled **Role of Packaging in Consumer Purchase Decisions** Submitted by **JOSHI PRANOTI SHRINIWAS** Under the supervision of **Dr.Sandeep Govardhan Vale** has been completed dissertation of the requirements for the degree of Master of Commerce (M.Com) at Dr.Babasaheb Ambedkar Marathwada University, Chh.SambhajiNagar

Dr.Sidharth Jadhav

Head
HOD & Research Guide
S.K.College Beed-431122

Dr.Sandip Vale

Asst.Prof in Commerce

N.S.S.R'S

**MRS.K.S.K ART'S SCIENCE AND
COMMERCE COLLEGE, BEED.**



DEPARTMENT OF COMMERCE

Academic Year -2023-24

CERTIFICATE

This is to certify that the dissertation titled **Impact of Digital Accounting Practices on Small Businesses** Submitted by **BHATI HRUTIK SHIVLAL**

Under the supervision of **Dr.Sandip Govardhan Vale** has been completed dissertation of the requirements for the degree of Master of Commerce (M.Com) at Dr.Babasaheb Ambedkar Marathwada University, Chh.SambhajiNagar

Dr.Sidharth Jadhav

HOD & Research Guide
Head
Mrs. K.S.K. College Beed-431122

Dr.Sandip Vale

Asst.Prof in Commerce



N.S.S.R.'S

**MRS.K.S.K ART'S SCIENCE AND
COMMERCE COLLEGE,BEED.**

DEPARTMENT OF COMMERCE

Academic Year -2023-24

CERTIFICATE

This is to certify that the dissertation titled **Impact of Digital Accounting Practices on Small Businesses** Submitted by **CHEDE RUSHIKESH NANASAHEB** Under the supervision of **Dr.Sandip Govardhan Vale** has been completed dissertation of the requirements for the degree of Master of Commerce (M.Com) at Dr.Babasaheb Ambedkar Marathwada University,Chh.SambhajiNagar

Dr.Sidharth Jadhav

Head

HOD & Research Guide

N.S.S.R.'S Beed-431122

Dr.Sandip Vale

Asst.Prof in Commerce



N.S.S.R'S
MRS.K.S.K ART'S SCIENCE AND
COMMERCE COLLEGE, BEED.

DEPARTMENT OF COMMERCE

Academic Year -2023-24

CERTIFICATE

This is to certify that the dissertation titled **A Study on the Impact of GST on Small and Medium Enterprises** Submitted by **FATALE MANISHA DEVIDAS**

Under the supervision of **Dr.Sandeep Govardhan Vale** has been completed dissertation of the requirements for the degree of Master of Commerce (M.Com) at Dr.Babasaheb Ambedkar Marathwada University, Chh.SambhajiNagar


Dr.Sidharth Jadhav
Head

HOD & Research Guide
Dr. Sidharth Jadhav
Head of Department
N.S.S.R.'S MRS.K.S.K. College Beed-431122



Dr.Sandip Vale

Asst.Prof in Commerce



N.S.S.R'S

**MRS.K.S.K ART'S SCIECNE AND
COMMERCE COLLEGE,BEED.**

DEPARTMENT OF COMMERCE

Academic Year -2023-24

CERTIFICATE

This is to certify that the dissertation titled **Effectiveness of Working Capital Management in Manufacturing Firms** Submitted by **GAVARE KISHOR MAHADEV** Under the supervision of **Dr.Sandeep Govardhan Vale** has been completed dissertation of the requirements for the degree of Master of Commerce (M.Com) at Dr.Babasaheb Ambedkar Marathwada University, Chh.SambhajiNagar

Dr.Sidharth Jadhav

Head

HOD & Research Guide

Dr.Sandip Vale

Asst.Prof in Commerce



N.S.S.R'S
MRS.K.S.K ART'S SCIENCE AND
COMMERCE COLLEGE, BEED.

DEPARTMENT OF COMMERCE

Academic Year -2023-24

CERTIFICATE

This is to certify that the dissertation titled **Impact of Digital Marketing on Consumer Behavior in Urban Areas** Submitted by **JADHAV BHAGWAN SHANKARRAO** Under the supervision of **Dr.Sandeep Govardhan Vale** has been completed dissertation of the requirements for the degree of Master of Commerce (M.Com) at Dr.Babasaheb Ambedkar Marathwada University, Chh.SambhajiNagar

Dr.Sidharth Jadhav

Head
HOD & Research Guide
K.S.K. College Beed-431122

Dr.Sandip Vale

Asst.Prof in Commerce

Sau. K.S.K Arts , Science and Commerce College , Beed

Department of Home Science

Year 2023 – 24

B.A III year Project



sr.no	Name	Topic	Mark 60
1	Meena Bhima Dongar	देशातील सार्वजनिक आरोग्य	56

Khandat
Head of Dept.
HEAD OF
Home Science Dept.

N.S.S.Rajuri's

MRS. K.S.K. ARTS SCIENCE & COMMERCE COLLEGE BEED



2023 - 2024

Certificate

Student's Name : मिना मिना डोतार

Std. B.A. II T 3rd year Subject : इतिहास

Division _____ Roll No. _____

Exam. No — NBF — 605519

That is certify that experiment written in the index has been performed by the student satisfactorily

Date : 28 / 3 / 2024

Grade :

56 / 60 M1

Topic : देशीय साहित्य

Principal Sign

M. Khandat
28-3-24

Dr. Maya Khandat
Research Guide

Head of Dept. Sign. (M1)

Mawel
28-3-24

Teacher's Signature

College Stamp

NSSR(N)

Mrs. K. S. K. Alias Kaku, Art's, Science and Commerce College, Beed.

Department of Physics

Academic Year (2023-2024) M.Sc. II (IV Semester)

Research Project Part III (Dissertation and Presentation) PHYR-431

Project Work Allotment for Dissertation and Presentation

List of Students



Sr. No.	Seat No.	Name of Student	Project Title
1	GFD401053	Chavan Sachin Dnyanoba	LCR Series and parallel Resonance Circuit
2	GFD401054	Dhaygude Sonam Prakash	LCR Series and parallel Resonance Circuit
3	GFD401055	Kale Abhishek Udhav	LCR Series and parallel Resonance Circuit
4	GFD401056	Kamble Shankar Lalasaheb	LCR Series and parallel Resonance Circuit
5	GFD401057	Khude Pappu Murlidhar	LCR Series and parallel Resonance Circuit
6	GFD401058	Pangudawale Shashank Sanjay	LCR Series and parallel Resonance Circuit
7	GFD401059	Pawar Amol Ramrao	LCR Series and parallel Resonance Circuit
8	GFD401060	Sanap Rushikesh Bhaskar	LCR Series and parallel Resonance Circuit
9	GFD401061	Shinde Sunil Bibhishan	LCR Series and parallel Resonance Circuit
10	GFD401062	Shinde Sushil Suresh	LCR Series and parallel Resonance Circuit

Project work Supervisor

HOD
Head
Dept. of Physics
Mrs. K.S.K. College, Beed.



Navgan Shikshan Sanstha Rajuri's
Mrs. K.S.K. Alias Kaku Arts, Science & Commerce College, Beed

CERTIFICATE

(2023-2024)

This is to notify that, Mr/Miss **Shinde Sushil Suresh** M.Sc. II Year (Sem IV), Department of Physics, Mrs. K.S.K. Alias Kaku Arts, Science & Commerce College, Beed affiliated by Dr. Babasaheb Ambedkar Marathwada University Chhatrapati Sambhaji Nagar has successfully completed the project work, entitled "**LCR Series and parallel Resonance Circuit**", under my guidance and supervision, for the partial fulfilment of the requirement for the award of degree of Master of Science in Physics.

Hence certified.

Project work Supervisor

HOD
Head
Dept. of Physics
Mrs. K.S.K. College, Beed.



Navgan Shikshan Sanstha Rajuri's
Mrs. K.S.K. Alias Kaku Arts, Science & Commerce College, Beed

CERTIFICATE

(2023-2024)

This is to notify that, Mr/Miss **Shinde Sushil Suresh** M.Sc. II Year (Sem IV), Department of Physics, Mrs. K.S.K. Alias Kaku Arts, Science & Commerce College, Beed affiliated by Dr. Babasaheb Ambedkar Marathwada University Chhatrapati Sambhaji Nagar has successfully completed the project work, entitled "**LCR Series and parallel Resonance Circuit**", under my guidance and supervision, for the partial fulfilment of the requirement for the award of degree of Master of Science in Physics.

Hence certified.

Project work Supervisor

**HOD
Head**
Dept. of Physics
Mrs. K.S.K. College, Beed.



Navgan Shikshan Sanstha Rajuri's

Mrs. K.S.K. Alias Kaku Arts, Science & Commerce College, Beed



CERTIFICATE

(2023-2024)

This is to notify that, Mr/Miss **Dhaygude Sonam Prakash M.Sc. II Year** (Sem IV), Department of Physics, Mrs. K.S.K. Alias Kaku Arts, Science & Commerce College, Beed affiliated by Dr. Babasaheb Ambedkar Marathwada University Chhatrapati Sambhaji Nagar has successfully completed the project work, entitled "**LCR Series and parallel Resonance Circuit**", under my guidance and supervision, for the partial fulfilment of the requirement for the award of degree of Master of Science in Physics.

Hence certified.

Project work Supervisor

HOD
Dept. of Physics
Mrs. K.S.K. College, Beed.



Navgan Shikshan Sanstha Rajuri's

Mrs. K.S.K. Alias Kaku Arts, Science & Commerce College, Beed

CERTIFICATE

(2023-2024)

This is to notify that, Mr/Miss **Chavan Sachin Dnyanoba**, M.Sc. II Year (Sem IV), Department of Physics, Mrs. K.S.K. Alias Kaku Arts, Science & Commerce College, Beed affiliated by Dr. Babasaheb Ambedkar Marathwada University Chhatrapati Sambhaji Nagar has successfully completed the project work, entitled "**LCR Series and parallel Resonance Circuit**", under my guidance and supervision, for the partial fulfilment of the requirement for the award of degree of Master of Science in Physics.

Hence certified.

Project work Supervisor

HOD
Head
Dept. of Physics
Mrs. K.S.K. College, Beed.

COLLEGE NAME : MRS. KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU ARTS, SCIENCE &
COMMERCE COLLEGE BEED

CASHBOOK NAME : POST GRADUATE FEES

COURSE NAME : M.SC. (BOT.) - II

SESSION NAME : 2023-2024



StudentId	NAME	Project Tital
4079961	SALUNKE SHIVAJI VISHNU	Studied on Crop Production Technology – Cotton Crop
4095831	HABIB SHAREEFA YASMEEN ALVI	Technology – Studies on Watermelon Diseases
4108942	GITTE VAISHNAVI BALASAHEB	Maize Production Technologies in India
4123384	PAWAR MADHURI SONAJI	Medicinal Plant of Tulsi
4126239	SHAIKH AFTAB ANIS	Soil Sampling & Testing
4133645	WAGHMARE MAYA CHOKHOBA	Technology – Studies on Watermelon Diseases
4134745	GHANGHAV RAMA DATTATRAYA	Medicinal Plant of Tulsi
4149987	THORAT POONAM SUNIL	Studied on Mango Frozen Pulp Processing Unit
4153964	DUBALE SATYAJEET BANDU	and Their Management
4180383	SONAWANE KRUSHNA SOMINATH	The Importance of Fruit and Vegetable Preservation in India
4186927	SONAWANE MAYUR VISHNU	Studied on Medicinal Plant of Turmeric
4215566	ANSARI ARSHIYA SAYYED AHMED	Bitter Gourd Farming in India
4226392	NAIKWADE SHITAL DNYANOBA	Maize Production Technologies in India
4229597	KALE ANUJ SANJAY	Studied on Medicinal Plant of Turmeric
4238472	KSHIRSAGAR PRATIKSHA SUNIL	The Importance of Fruit and Vegetable Preservation in India
4244678	GITE VAISHNAVI KHANDERAO	Medicinal Plant of Tulsi
4257316	CHEMTE GOKUL BHAUSAHEB	Maize Production Technologies in India


Head
Department of Botany,
Mrs K. S. K. College, Beed.

**DR. BABASAHEB AMBEDKAR MARATHWADA
UNIVERSITY, CHHATRAPATI SAMBHAJINAGAR**



CERTIFICATE


This is certified that work embodies in the project entitled. "**STUDIES ON WATERMELON DISEASES**" being submitted by **Mrs. Shareefa Yasmeen Habib Alivi** Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajnagar award of Master Degree in botany project work carried out by him under my guidance and supervision, and has fulfilled the requirement for the submission of this project to my knowledge, has reached requisite standard.

The result contained in the project have not been submitted in part of in full to and other university or institute for the award of any degree or diploma.

Place: Beed

Date: 13/07/201

26/04/2024


(Dr. Santosh M. Talekar)
Project Guide

External Examiner

CERTIFICATE



This is to certify that the project entitled "Mango Frozen Pulp Unit "
submitted by **Miss . Thorat Poonam Sunil"**

In partial fulfillment of the requirements for the degree of Master
of science in Botany submitted to the **DR. BABASAHEB
AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.** is a
record of bonafide research work carried out by him under my
guidance and supervision. The thesis or it's any part has not
previously formed the basis for the award or any degree,
diploma, or other similar title.

Place: KSK college Beed

(Dr. Santosh M. Talekar)

Date : 26/04/2024

Project Guide

CERTIFICATE



This is to certify that the project entitled "IMPORTANCE AND SCOPE OF FRUIT AND VEGETABLES PRESERVATION IN INDIA" submitted by **Mr. KRUSHNA SOMINATH SONAWANE**. In partial fulfillment of the requirements for the degree of Master of science in Botany submitted to the **DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD**. is a record of bonafide research work carried out by him under my guidance and supervision. The thesis or it's any part has not previously formed the basis for the award or any degree, diploma, or other similar title.

Place: KSK college Beed

Date : 26/04/2024


(Dr. Santosh M. Talekar)

Project Guide

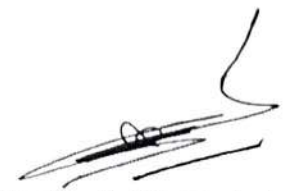
CERTIFICATE



This is to certify that the project entitled "CROP PRODUCTION TECHNOLOGY – COTTON CROP" submitted by **Mrs. SALUNKE SHIVAJI VISHNU**. In partial fulfillment of the requirements for the degree of Master of science in Botany submitted to the **DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD**. is a record of bonafide research work carried out by him under my guidance and supervision. The thesis or it's any part has not previously formed the basis for the award or any degree, diploma, or other similar title.

Place: KSK college Beed

Date : 26/04/2024


(Dr. Santosh M. Talekar)

Project Guide

Certificate



This is to Certify that work in corporate in the Research Project "MEDICINAL PLANT OF TULSI" submitted for the degree of Master of Botany in department of Botany by **Ghanghav Rama Dattatraya** carried out by the candidate under my supervision and guidance. Such material obtained from other sources has been duly acknowledged in the Research Project.

I further declared that to the best of my Knowledge and belief this work has not been submitted to this of any other college for the award of degree.

Date: 26-04-24

Place : Beed.

Guide

Dr. Santosh M. Talekar

HOD

Department of Botany

KSK College, Beed.

CERTIFICATE



This is to certify that the thesis entitled FUNGAL DISEASES OF FIELD CROP AND THEIR MANAGEMENT. submitted by DUBALE SATYAJEET BANDU. in partial fulfillment of the requirements for the degree of Master of science in Botany submitted to the Dr. babasahebambbedkarmarathwada university Aurangabad .is a record of bonafide research work carried out by him under my guidance and supervision. The thesis or it's any part has not previously formed the basis for the award or any degree, diploma, or other similar title.

Place: Beed

Date : ~~26~~/05/2024

A handwritten signature in black ink, appearing to be "Dr. Talekar sir", written in a cursive style.

(Dr. Talekar sir)

Research guide



CERTIFICATE

This is certified that the project report entitled "Growth And Production Of Groundnut" is a bonafied work of Miss Pratiksha Sunil Kshirsagar, who carried out the work at Department of Botany, KSK College, Beed. He has worked under my guidance and the project report partially fulfills the requirements for M.Sc. Botany, KSK College, Beed.

Date: 26/04/2024

Place: Beed

Dr. Santosh M. Talekar

Head of KSK College, Beed

Navgan Shikshan Sanstha Rajuri (N)
**Mrs.Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science
 & Commerce College, Beed-431122.**
Department of Mathematics
*** Field Project Allotment *(2023-24)**

Class: M.Sc. I (Seme -II)

CourseCode: MATH/OJT/FP/557

Sr.No.	Name of Student	Name of Supervisor	Title of Project
1.	Chavan Prashant Limbraj	Dr. Raut S.R.	Mathematical Modeling in Climate Change
2.	Chavan Suraj Uddhav		Application of differential equation in Climate Change
3.	Dhakne Renuka Vasanao		Applications of Group theory in Chemistry
4.	Dhas Shital Dattatrya		Applications of Group Theory in Chemistry
5.	Dhole Shradda Anil		Application of differential equation in Physics
6.	Gayva Pooja Rameshwar		Application of differential equation in Physics
7.	Gharat Rahul Nivrati		Study of two dimensional Wave equation and Heat Equation
8.	Jagde Somnath Bandu		Study of two dimensional Wave equation and Heat Equation
9.	Jagtap Balaji Shivajirao		Fourier Series and its Applications
10.	Jogdand Rushikesh Balasaheb		Fourier Series and its Applications
11.	Kashid Shivam Sandipan		Cyclic Groups and Applications
12.	Khod Yogesh Bappasaheb		Cyclic Groups and Applications
13.	Kokane Ganesh Shivaji		Fourier Series and its Applications
14.	Mane Varsharani Panditrao		Cyclic Groups and Applications
15.	Mane Yogeshwari Panditrao	Dr. Shrimangale G.W.	Application of differential equation in Medical field
16.	Misal Sheha Shridharrao		Application of differential equation in Medical field
17.	Munde Abhishek Dilip		Application of differential equation in Medical field
18.	Naik Shivnanda Permeshwar		Applications of Laplace transform in engineering
19.	Narke Pooja Satish		Applications of Laplace transform in engineering
20.	Pawar Rahul Narayan		Applications of Laplace transform in engineering
21.	Sanap Komal Baban		Uniform convergence and continuity
22.	Sarode Shraddha Shrikant		Uniform convergence and continuity
23.	Satpute Ajit Balasaheb		Application of Homomorphism and Isomorphism
24.	Shelke Abhayshingh Navnath		Application of Homomorphism and Isomorphism
25.	Shinde Divya Pandharinath		Application of differential equation in population growth
26.	Supekar Shubham Sundar		Application of differential equation in population growth
27.	Ujgare Suraj Bramhanand		Application of Beta and Gamma function
28.	Waghmare Ashish Gautam		Application of Beta and Gamma function



H.O.D.
Dept. of Mathematics
Mrs. K.S.K. Alias Kaku College, Beed



NavganShikshanSansthaRajuri (N)

Mrs.KesharbaiSonajiraoKshirsagar Alias Kaku Arts, Science & Commerce
College, Beed-431122

CERTIFICATE

This is to certify that, the project titled "Application of differential equation in physics" is bonafide record of the project work carried out by Miss. Dhole Shraddha Anil under my supervision and guidance in partial fulfilment of the requirement for the award of degree of **Master of Science in Mathematics** of Mrs.KesharbaiSonajiraoKshirsagar alias Kaku Arts, Science and Commerce College Beed affiliated to Dr.BabasahebAmbedkarMarathwada University ChhatrapatiSambhaji Nagar. Hence certified.



Dr. Shankar R.Raut

Associate Professor and Head

Department of Mathematics

H.O.D.

Dept. of Mathematics

Mrs. K.S.K. Alias Kaku College, Beed



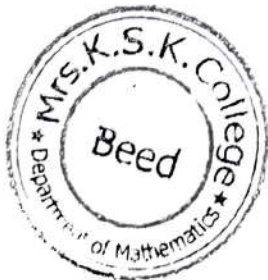
NAVGANSHIKSHAN SANSTHA RAJURI (N)

MRS. KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS
KAKU ARTS, SCIENCE & COMMERCE COLLEGE,
BEED-431122



CERTIFICATE

THIS IS TO CERTIFY THAT, THE PROJECT TITLED **APPLICATION OF DIFFERENTIAL EQUATION IN CLIMATE CHANGE** IS BONAFIDE RECORD OF THE PROJECT WORK CARRIED OUT BY **KHOD YOGESH BAPPASAHEB** UNDER MY SUPERVISION AND GUIDANCE IN PARTIAL FULFILMENT OF THE REQUIREMENT FOR THE AWARD OF DEGREE OF **MASTER OF SCIENCE IN MATHEMATICS** OF **MRS. KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU ARTS, SCIENCE AND COMMERCE COLLEGE BEED** AFFILIATED TO **DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY CHHATRAPATI SAMBHAJI NAGAR.** HENCE CERTIFIED.



DR. SHANKAR R. RAUT

ASSOCIATE PROFESSOR AND HEAD

DEPARTMENT OF MATHEMATICS

H.O.D.

Dept. of Mathematics

Mrs. K.S.K. Alias Kaku College, Beed



Navgan Shikshan Sanstha Rajuri (N)

**Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science &
Commerce College, Beed-431122**

CERTIFICATE

This is to certify that, the project titled **Fourier Series and Its Application** is bonafide record of the project work carried out by **JAGTAP BALAJI SHIVAJIRAO** under my supervision and guidance in partial fulfilment of the requirement for the award of degree of **Master of Science in Mathematics** of **Mrs. Kesharbai Sonajirao Kshirsagar alias Kaku Arts, Science and Commerce College Beed** affiliated to **Dr. Babasaheb Ambedkar Marathwada University Chhatrapati Sambhaji Nagar**. Hence certified.



Dr. Shankar R. Raut

Associate Professor and Head

Department of Mathematics

H.O.D.

Dept. of Mathematics
Mrs. K.S.K. Alias Kaku College, Beed

दि. १२.२.२०२४

प्रति,

मा. प्राचार्य,
सौ. के. एस. डे, महाविद्यालय
बीड.




विषय:- भूगोल विभागाच्या एक दिवसीय खेडे सर्वेक्षणासाठी परवानगी मिळणे बाबत,

महोदय,
आपला विषयी विनंती कि, भूगोल विभागाची बी. ए. आणि एम. ए. च्या विद्यार्थ्यांची एक दिवसासाठी खेडे सर्वेक्षण दि. १४.२.२०२४ रोजी मीने नाकवंडी ता. जि. बीड येथे आयोजन करण्यात आले आहे. तरी या खेडे सर्वेक्षणासाठी विभागात परवानगी देण्यात आवी ही विनंती.


आपला विश्वासू

कॅम्प डा. पोटे बी. टी.
भूगोल विभाग समूह
सौ. के. एस. डे, महा.,
बीड

Permission granted.


12/02/2024

DEPARTMENT OF GEOGRAPHY

VILLAGE SURVEY-STUDENT LIST – 2023-24 AT : NALWANDI (15 FEB 2024)



Sr. No.	Title of Linkage	Name of the partnering institution/research lab with contact details	Year of commencement	Duration (From to)	Nature of linkage
1.	Village Survey	Geography Department, Mrs.K.S.K.College, Beed.	2023-2024	15/02/2024	Temporary

Sr.No.	Name of Student	Signature
1	Khande Daminee Machhindra	
2	Khemade Jaya Mohan	
3	Landge Rushikesh Babasaheb	
4	Nirmala Gayatree Dipak	
5	Wághmare Shabdali Babasaheb	
6	Rathod Jyotiram Bhagawan	
7	Abuj VaIshnavi Bhagawat	
8	Sapakal Sonali Bandu	
9	Pathak Sham Narendra	
10	Shinde Anjali Janardan	
11	Shaikh Sharif Shaikh Rafeek	
12	Mommin Mujjamil Rashid	
13	Naiknaware Rohan Dattatrey	
14	Tone Rameshwar Chimajee	

Teachers-

1. Capt. Pote B.T. (HOD & PROFESSOR)
2. Dr. Chavan A.D. (Assistant Professor)
3. Mr. Agam.L.S (Assistant Professor)
4. Mr Siddhiki.K.P (Assistant Professor)

Capt. B.T. Pote
 Head Dept of Geography
 Mrs. K.S.K College Beed



नवगण शिक्षण संस्था राजुरी (न)



सौ. के. एस. के. महाविद्यालय, बीड

भूगोल विभाग

प्रमाणपत्र

दिनांक: २५/४/२०२४

प्रमाणित करण्यात येते की, श्री/कु. खांडे दामिनी मच्छिंद्र
हजेरी क्र. _____ परिक्षा क्र. GIGID40101 एम.ए.

प्रथम वर्ष (सत्र द्वितीय) भूगोल, यांनी शैक्षणिक वर्ष २०२३-२०२४ मध्ये बीड जिल्ह्यातील नाळवंडी ता.जि.बीड येथे "खेड्याचे सर्वेक्षण" केले व उत्कृष्ट पध्दतीने अहवाल तयार केला आहे.

करिता प्रमाणपत्र देण्यात येत आहे.

प्रा. एल. एस. आगाम सर,

भूगोल विभाग

सौ. के. एस. के. महाविद्यालय, बीड.

कॅप्टन. डॉ. पोटे बी. टी.

पदव्युत्तर भूगोल विभाग प्रमुख,

सौ. के. एस. के. महाविद्यालय, बीड.



नवगण शिक्षण संस्था राजुरी (न)

सौ. के. एस. के. महाविद्यालय, बीड

भूगोल विभाग



प्रमाणपत्र

दिनांक: - 27/04/2024

प्रमाणित करण्यात येते की, श्री/कु. खेमाडे जया मोहन
हजेरी क्र. _____ परिक्षा क्र. ७५७०४०१७२२म.ए.

प्रथम वर्ष (सत्र द्वितीय) भूगोल, यांनी शैक्षणिक वर्ष २०२३-२०२४ मध्ये बीड जिल्ह्यातील नाळवंडी ता.जि.बीड येथे "खेड्याचे सर्वेक्षण" केले व उत्कृष्ट पध्दतीने अहवाल तयार केला आहे.

करिता प्रमाणपत्र देण्यात येत आहे.


प्रा. एल. एस. आगाम सर,
भूगोल विभाग

सौ. के. एस. के. महाविद्यालय, बीड.


कॅप्टन. डॉ. पोटे बी. टी.

पदव्युत्तर भूगोल विभाग प्रमुख,
सौ. के. एस. के. महाविद्यालय, बीड.

नवगण शिक्षण संस्था राजुरी (न)

सौ. के. एस. के. महाविद्यालय, बीड

भूगोल विभाग

प्रमाणपत्र

दिनांक: 27/04/2024

प्रमाणित करण्यात येते की, श्री/कु. लांडगे त्रैषीकेश

वाळसाहेब हजेरी क्र. _____ परिक्षा क्र. LAJAD40107 एम.ए.

वर्ष (सत्र) भूगोल, यांनी शैक्षणिक वर्ष 2023-2024 मध्ये बीड जिल्ह्यातील नाळवंडी ता.जि.बीड येथे "खेड्याचे सर्वेक्षण" केले व उत्कृष्ट पध्दतीने अहवाल तयार केला आहे.

करिता प्रमाणपत्र देण्यात येत आहे.

प्रा. एल. एस. आगाम सर,

भूगोल विभाग

सौ. के. एस. के. महाविद्यालय, बीड.

कॅप्टन. डॉ. पोट बी. टी.

पदव्युत्तर भूगोल विभाग प्रमुख,

सौ. के. एस. के. महाविद्यालय, बीड.

महाराष्ट्र शिक्षण संस्था राजुरी (म)

सौ. के. एस. के. महाविद्यालय, बीड

भूगोल विभाग

प्रमाणपत्र

दिनांक: - २७/५/२०२४

प्रमाणित करण्यात येते की, श्री/कु. जिर्मळ गांधरी दिपक

हजेरी क्र. _____ परिक्षा क्र. जे.डी.बी.बी.डी.एम.ए. II

वर्ष (सत्र द्वितीय) भूगोल, यांनी शैक्षणिक वर्ष २०२३-२०२४ मध्ये बीड जिल्ह्यातील नाळवंडी ता.जि.बीड येथे "खेड्याचे सर्वेक्षण" केले व उत्कृष्ट पध्दतीने अहवाल तयार केला आहे.

करिता प्रमाणपत्र देण्यात येत आहे.

प्रा. एल. एस. आगाम सर,

भूगोल विभाग

सौ. के. एस. के. महाविद्यालय, बीड.

कॅप्टन. डॉ. पोटे बी. टी.

पदव्युत्तर भूगोल विभाग प्रमुख,

सौ. के. एस. के. महाविद्यालय, बीड.



नवगण शिक्षण संस्था राजुरी (न)



सौ. के. एस. के. महाविद्यालय, बीड

भूगोल विभाग

प्रमाणपत्र


दिनांक: -23/04/2024

प्रमाणित करण्यात येते की, श्री/कु. त्रोटिड ज्योतीबाम भगवान


हजेरी क्र. _____ परिक्षा क्र. 66104018 एम.ए.

प्रथम वर्ष (सत्र द्वितीय) भूगोल, यांनी शैक्षणिक वर्ष २०२३-२०२४ मध्ये बीड जिल्ह्यातील नाळवंडी ता.जि.बीड येथे "खेड्याचे सर्वेक्षण" केले व उत्कृष्ट पध्दतीने अहवाल तयार केला आहे.

करिता प्रमाणपत्र देण्यात येत आहे.


प्रा. एल. एस. आगाम सर,
भूगोल विभाग

सौ. के. एस. के. महाविद्यालय, बीड.


कॅप्टन. डॉ. पोटें बी. टी.

पदव्युत्तर भूगोल विभाग प्रमुख,
सौ. के. एस. के. महाविद्यालय, बीड.



नवगण शिक्षण संस्था राजुरी (न)

सौ. के. एस. के. महाविद्यालय, बीड

भूगोल विभाग

प्रमाणपत्र

दिनांक: - 30/ 4 /2024

प्रमाणित करण्यात येते की, श्री/कु. आबुज वैष्णवी भागवत


हजेरी क्र. _____ परिक्षा क्र. NHB-040110 एम.ए.

प्रथम वर्ष (सत्र द्वितीय) भूगोल, यांनी शैक्षणिक वर्ष २०२३-२०२४ मध्ये बीड जिल्ह्यातील नाळवंडी ता.जि.बीड येथे "खेड्याचे सर्वेक्षण" केले व उत्कृष्ट पध्दतीने अहवाल तयार केला आहे.

करिता प्रमाणपत्र देण्यात येत आहे.


प्रा. एल. एस. आगाम सर,
भूगोल विभाग

सौ. के. एस. के. महाविद्यालय, बीड.


कॅप्टन. डॉ. पोटे बी. टी.

पदव्युत्तर भूगोल विभाग प्रमुख,
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नवगण शिक्षण संस्था राजुरी (न)

सौ. के. एस. के. महाविद्यालय, बीड

भूगोल विभाग



प्रमाणपत्र

दिनांक: -30/04/2024

प्रमाणित करण्यात येते की, श्री/कु. शयकाळ सोनाली वड्डु


हजेरी क्र. _____ परिक्षा क्र. 040114 एम.ए.

प्रथम वर्ष (सत्र द्वितीय) भूगोल, यांनी शैक्षणिक वर्ष २०२३-२०२४ मध्ये बीड जिल्ह्यातील नाळवंडी ता.जि.बीड येथे "खेड्याचे सर्वेक्षण" केले व उत्कृष्ट पध्दतीने अहवाल तयार केला आहे.

करिता प्रमाणपत्र देण्यात येत आहे.


प्रा. एल. एस. आगाम सर,
भूगोल विभाग

सौ. के. एस. के. महाविद्यालय, बीड.


कॅप्टन. डॉ. पोटे बी. टी.

पदव्युत्तर भूगोल विभाग प्रमुख,
सौ. के. एस. के. महाविद्यालय, बीड.



नवगण शिक्षण संस्था राजुरी (न)



सौ. के. एस. के. महाविद्यालय, बीड

भूगोल विभाग

प्रमाणपत्र

दिनांक: 30/04/2024

प्रमाणित करण्यात येते की, श्री/कु. पाठक शाम जेरेद्र

हजेरी क्र. _____ परिक्षा क्र. NMB040113एम.ए.


प्रथम वर्ष (सत्र द्वितीय) भूगोल, यांनी शैक्षणिक वर्ष 2023-2024 मध्ये बीड जिल्ह्यातील नाळवंडी ता.जि.बीड येथे "खेड्याचे सर्वेक्षण" केले व उत्कृष्ट पध्दतीने अहवाल तयार केला आहे.

करिता प्रमाणपत्र देण्यात येत आहे.


प्रा. एल. एस. आगाम सर,

भूगोल विभाग

सौ. के. एस. के. महाविद्यालय, बीड.


कॅप्टन. डॉ. पोटे बी. टी.

पदव्युत्तर भूगोल विभाग प्रमुख,

सौ. के. एस. के. महाविद्यालय, बीड.



नवगण शिक्षण संस्था राजुरी (न)

सौ. के. एस. के. महाविद्यालय बीड

भूगोल विभाग



प्रमाणपत्र

दिनांक: -30/04/2024

प्रमाणित करण्यात येते की, श्री/कु. शिंदे भंजली जनार्दन

हजेरी क्र. _____ परिक्षा क्र. NH8040116 एम.ए.

प्रथम वर्ष (सत्र द्वितीय) भूगोल, यांनी शैक्षणिक वर्ष २०२३-२०२४ मध्ये बीड

जिल्ह्यातील नाळवंडी ता.जि.बीड येथे "खेड्याचे सर्वेक्षण" केले व उत्कृष्ट

पध्दतीने अहवाल तयार केला आहे.

करिता प्रमाणपत्र देण्यात येत आहे.

प्रा. एल. एस. आगाम सर,

भूगोल विभाग

सौ. के. एस. के. महाविद्यालय, बीड.

कॅप्टन. डॉ. पोटे बी. टी.

पदव्युत्तर भूगोल विभाग प्रमुख,

सौ. के. एस. के. महाविद्यालय, बीड.

नवगण शिक्षण संस्था राजुरी (न)

सौ. के. एस. के. महाविद्यालय, बीड

भूगोल विभाग



प्रमाणपत्र

दिनांक: - 30/04/2024

प्रमाणित करण्यात येते की, श्री/कु. शैल्य शशि शैल्य रफीक

हजेरी क्र. _____ परिक्षा क्र. NMB040115 एम.ए.

प्रथम वर्ष (सत्र द्वितीय) भूगोल, यांनी शैक्षणिक वर्ष २०२३-२०२४ मध्ये बीड जिल्ह्यातील नाळवंडी ता.जि.बीड येथे "खेड्याचे सर्वेक्षण" केले व उत्कृष्ट पध्दतीने अहवाल तयार केला आहे.

करिता प्रमाणपत्र देण्यात येत आहे.

प्रा. एल. एस. आगाम सर,

भूगोल विभाग

सौ. के. एस. के. महाविद्यालय, बीड.

कॅप्टन. डॉ. पोटे बी. टी.

पदव्युत्तर भूगोल विभाग प्रमुख,

सौ. के. एस. के. महाविद्यालय, बीड.



नवगण शिक्षण संस्था राजुरी (न)



सौ. के. एस. के. महाविद्यालय, बीड

भूगोल विभाग

प्रमाणपत्र

दिनांक: 30/04 /2024

प्रमाणित करण्यात येते की, श्री/कु. मोमिन मुज्जमील शहीद


हजेरी क्र. _____ परिक्षा क्र. NHB040111 एम.ए.

प्रथम वर्ष (सत्र द्वितीय) भूगोल, यांनी शैक्षणिक वर्ष २०२३-२०२४ मध्ये बीड जिल्ह्यातील नाळवंडी ता.जि.बीड येथे "खेड्याचे सर्वेक्षण" केले व उत्कृष्ट पध्दतीने अहवाल तयार केला आहे.

करिता प्रमाणपत्र देण्यात येत आहे.


प्रा. एम्. एस. आगाम सर,
भूगोल विभाग

सौ. के. एस. के. महाविद्यालय, बीड.


कॅप्टन. डॉ. पोटे बी. टी.
पदव्युत्तर भूगोल विभाग प्रमुख,
सौ. के. एस. के. महाविद्यालय, बीड.



नवगण शिक्षण संस्था राजुरी (न)



सौ. के. एस. के. महाविद्यालय, बीड

भूगोल विभाग

प्रमाणपत्र

दिनांक: -30/04/2024

प्रमाणित करण्यात येते की, श्री/कु. नाडिकानवे शेहन वल्लोतय

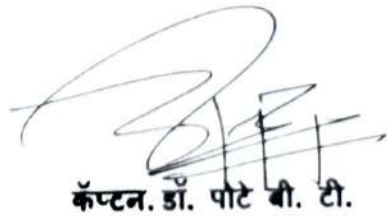
हजेरी क्र. _____ परिक्षा क्र. NHB040112 एम.ए.

प्रथम वर्ष (सत्र द्वितीय) भूगोल, यांनी शैक्षणिक वर्ष २०२३-२०२४ मध्ये बीड जिल्ह्यातील नाळवंडी ता.जि.बीड येथे "खेड्याचे सर्वेक्षण" केले व उत्कृष्ट पध्दतीने अहवाल तयार केला आहे.

करिता प्रमाणपत्र देण्यात येत आहे.


प्रा. एन. एस. आगाम सर,
भूगोल विभाग

सौ. के. एस. के. महाविद्यालय, बीड.


कॅप्टन. डॉ. पोटे बी. टी.

पदव्युत्तर भूगोल विभाग प्रमुख,

सौ. के. एस. के. महाविद्यालय, बीड.

नवगण शिक्षण संस्था राजुरी (न)

सौ. के. एस. के. महाविद्यालय, बीड

भूगोल विभाग



प्रमाणपत्र

दिनांक: - 30/04/2024

प्रमाणित करण्यात येते की, श्री/कु. दोणे रामेश्वर चिसाजी

हजेरी क्र. _____ परिक्षा क्र. NHBC40117 एम.ए.

प्रथम वर्ष (सत्र द्वितीय) भूगोल, यांनी शैक्षणिक वर्ष २०२३-२०२४ मध्ये बीड जिल्ह्यातील नाळवंडी ता.जि.बीड येथे "खेड्याचे सर्वेक्षण" केले व उत्कृष्ट पध्दतीने अहवाल तयार केला आहे.

करिता प्रमाणपत्र देण्यात येत आहे.

प्रा. पल. एस. आगाम सर,

भूगोल विभाग

सौ. के. एस. के. महाविद्यालय, बीड.

कॅप्टन. डॉ. पोटे बी. टी.

पदव्युत्तर भूगोल विभाग प्रमुख,

सौ. के. एस. के. महाविद्यालय, बीड.

Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku
Arts, Science & Commerce College, Beed-431122



Principal

Dr. S.V. Kshirsagar

NAAC reaccruited - A Grade ISO- 21001:2018
[3.18 CGPA as per New RAF]

Green audit

Secretary

Dr. B. S. Kshirsagar

Website - kskcollegebeed.com E-mail - kskbeed123@rediffmail.com Ph. (02442)222641 Fax - (02442)230197

Ref: kskcb/2023-24/

Date: 17/08/2023.

To,
Pedro Fernandes,
Fernades Farm, Modekop (Ottoli), Khanapur,
Belgaum - 591302 (Modekop)



Subject: - Admission of students for online On Job Training at your Farm.

R/Sir,

I hope this letter finds you well. We writing to express our keen interest in participating with my students in an online on-the-job training program with your esteemed farm.

As part of our academic curriculum, we required to complete an OJT program to gain practical experience in our field of study. We have been following your organization's work closely and am impressed by your dedication to excellence and innovation. Your commitment to professional growth and development aligns perfectly with our career aspirations.

We are eager to further develop our practical skills and knowledge in poultry.

Thank you for considering our request. I would welcome the chance to discuss this further and provide any additional information you may require. Please feel free to reach out to us at kskzoology@gmail.com.

Students participating in online OJT.

Sr. No.	Student Name
1	AWAD PRATIKSHA BALAJI
2	DOLAS RUSHIKESH UDDHAV
3	GHOLAP MAHESH SHIVAJI
4	JOGDAND RUTUJA DINKAR
5	MUNDE PRAMOD VIJAYKUMAR
6	PARJANE BABU RAJENDRA
7	PATHAN AYESHA SIRAJKHA
8	QUAZI SAMREEN FAHEEM QUAZI
9	RATHOD ANIL PHULCHAND
10	RAWALE ABHAY SUDHAKAR
11	SANAP VISHAL VILAS
12	SAYYED ADEEBA SAYYED AHMAD ALI
13	SHAH SABA FIRDOS ABDUL RAHIM

Principal

Principal
N.S.S.R.(N.) Mrs.Kesharbai
Sonajirao Kshirsagar Alias Kaku
Arts, Science and Commerce
College, Beed.



CERTIFICATE Of Completion

This certificate is presented to

Dolas Rushikesh Uddhav

for completing ON JOB TRAINING of 6-month Poultry farm for the partial
fulfilment of the Degree M.Sc. Zoology First Year

Dr. A.N. Shelke
CO-ORDINATOR



Pedro Fernandes
REPRESENTATIVES



CERTIFICATE Of Completion

This certificate is presented to

Gaikwad Vinay Onkar

for completing ON JOB TRAINING of 6-month Poultry farm for the partial
fulfilment of the Degree M.Sc. Zoology First Year

Dr. A.N. Shelke
CO-ORDINATOR



Pedro Fernandes
REPRESENTATIVES



CERTIFICATE

Of Completion

This certificate is presented to

Parjane Babu Rajendra

for completing ON JOB TRAINING of 6-month Poultry farm for the partial
fulfilment of the Degree M.Sc. Zoology First Year

Dr. A.N. Shelke
CO-ORDINATOR



Pedro Fernandes
REPRESENTATIVES



CERTIFICATE Of Completion

This certificate is presented to

Sayyed Adeeba Sayyed Ahmad Ali

for completing ON JOB TRAINING of 6-month Poultry farm for the partial
fulfilment of the Degree M.Sc. Zoology First Year

Dr. A.N. Shelke
CO-ORDINATOR



Pedro Fernandes
REPRESENTATIVES



CERTIFICATE Of Completion

This certificate is presented to

Rawale Abhay Sudhakar

for completing ON JOB TRAINING of 6-month Poultry farm for the partial
fulfilment of the Degree M.Sc. Zoology First Year

Dr. A.N. Shelke
CO-ORDINATOR



Pedro Fernandes
REPRESENTATIVES



CERTIFICATE Of Completion

This certificate is presented to

Quazi Samreen Faheem Quazi

for completing ON JOB TRAINING of 6-month Poultry farm for the partial
fulfilment of the Degree M.Sc. Zoology First Year

Dr. A.N. Shelke
CO-ORDINATOR



Pedro Fernandes
REPRESENTATIVES



CERTIFICATE Of Completion

This certificate is presented to:

Quazi Samreen Faheem Quazi

for completing ON JDE TRAINING of 1-month Position Intern for the partial
fulfillment of the Degree M.Sc. Zoology First Year

Dr. A.K. Saeed
CO-ORDINATOR



Prof. Muhammad
REPRESENTATIVE



CERTIFICATE Of Completion

This certificate is presented to

Pathan Ayesha Sirajkha

for completing ON JOB TRAINING of 6-month Poultry farm for the partial
fulfilment of the Degree M.Sc. Zoology First Year

Dr. A.N. Shelke
CO-ORDINATOR



Pedro Fernandes
REPRESENTATIVES



CERTIFICATE Of Completion

This certificate is presented to

Munde Pramod Vijaykumar

for completing ON JOB TRAINING of 6-month Poultry farm for the partial
fulfilment of the Degree M.Sc. Zoology First Year

Dr. A.N. Shelke
CO-ORDINATOR



Pedro Fernandes
REPRESENTATIVES



CERTIFICATE Of Completion

This certificate is presented to

Jogdand Rutuja Dinkar

for completing ON JOB TRAINING of 6-month Poultry farm for the partial
fulfilment of the Degree M.Sc. Zoology First Year

Dr. A.N. Shelke
CO-ORDINATOR



Pedro Fernandes
REPRESENTATIVES



CERTIFICATE Of Completion

This certificate is presented to

Munde Rutuja Malhari

for completing ON JOB TRAINING of 6-month Poultry farm for the partial
fulfilment of the Degree M.Sc. Zoology First Year

Dr. A.N. Shelke
CO-ORDINATOR



Pedro Fernandes
REPRESENTATIVES



CERTIFICATE Of Completion

This certificate is presented to

Shah Saba Firdos Abdul Rahim

for completing ON JOB TRAINING of 6-month Poultry farm for the partial
fulfilment of the Degree M.Sc. Zoology First Year

Dr. A.N. Shelke
CO-ORDINATOR



Pedro Fernandes
REPRESENTATIVES



CERTIFICATE Of Completion

This certificate is presented to

Awad Pratiksha Balaji

for completing ON JOB TRAINING of 6-month Poultry farm for the partial
fulfilment of the Degree M.Sc. Zoology First Year

Dr. A.N. Shelke
CO-ORDINATOR



Pedro Fernandes
REPRESENTATIVES



CERTIFICATE Of Completion

This certificate is presented to

Gholap Mahesh Shivaji

for completing ON JOB TRAINING of 6-month Poultry farm for the partial
fulfilment of the Degree M.Sc. Zoology First Year

Dr. A.N. Shelke
CO-ORDINATOR



Pedro Fernandes
REPRESENTATIVES

Navgan Shikshan Sanstha Rajuri (N)
Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College Beed (M.S.)
Student Project List 2023-2024
Class: B.Sc, Second Year
Subject : Environmental Studies



Sr. No.	Name	Project Tital
1	WADMARE SEEMA TATYARAM	Urban Ecology
2	NAGARGOJE MAHAVEER DIGAMBAR	Urban Ecology
3	DAHE KAILAS CHINTAMAN	Urban Ecology
4	GHODKE ADITYA RAJENDRA	Urban Ecology
5	WADMARE DIKSHA CHINDRAKANT	Urban Ecology
6	PAWAR PALLAVI ARJUN	Urban Ecology
7	RANDAVE RUDRAKSH BANKAT	Urban Ecology
8	PAWAR UMESH SHIVAJI	Urban Ecology
9	KHETRE ARCHANA SHIVDAS	Noise Pollution
10	KUTE DHIRAJ SHRIMANT	Noise Pollution
11	GHUGE SACHIN GORAKH	Noise Pollution
12	KAUSHALYE POOJA LINGOJI	Noise Pollution
13	JOSHI KANCHAN DILIP	Noise Pollution
14	UGHADE KALYANI DILIP	Noise Pollution
15	MANE RUTUJA RAVINDRA	Noise Pollution
16	CHOLE PRATIKSHA SHRIRAM	Noise Pollution
17	PAYAL PRATIKSHA KAILAS	Deforestation
18	WAGH SHANTANU SUNIL	Deforestation
19	JADHAV NITIN GORAKH	Deforestation
20	DHAS ANKITA KHANDU	Deforestation
21	DHAS KIRTI GANESH	Deforestation
22	SHELKE ASHA SHIVAJI	Deforestation
23	MATKAR DNYANESHWARI DADASAHEB	Deforestation
24	NAIKWADE SAKSHI RAMESHWAR	Deforestation
25	TAWARE SAGAR ABHIMAN	Renewalble Energy
26	ARSUL VARSHA VISHAMBER	Renewalble Energy
27	SHINDE RAJNANDINI ATUL	Renewalble Energy
28	VISHWAD RUTUJA RAVINDRA	Renewalble Energy
29	SATPUTE SUJATA PRABHAKAR	Renewalble Energy
30	YEWALE SANIKA ASARAM	Renewalble Energy
31	PANDHIRE VAISHNAVI DATTATRAY	Renewalble Energy



Sr. No.	Name	Project Tital
32	THOTE ANUJA MUNJABA	Environmental Pollution
33	MUNDE RUSHIKESH SHRIKISAN	Environmental Pollution
34	SHEI KE SHWETA SHAMRAO	Environmental Pollution
35	KANDE SIDDHESHWAR SUKHADEV	Environmental Pollution
36	JOGDAND TEJASHRI TUKARAM	Environmental Pollution
37	KHADE ROHIT LAXMAN	Environmental Pollution
38	SUKHWASE OM LALASHEB	Environmental Pollution
39	MASKE DHANANJAY BHIMRAV	Environmental Health
40	DONGARE JYOTI SHAMU	Environmental Health
41	THOKAL AJAY BHARAT	Environmental Health
42	SHAIKH IBRAHIM SALIM	Environmental Health
43	DOIPHODE ANIKET BALIRAM	Environmental Health
44	BAHIR SANKET VIKRAM	Environmental Health
45	KAKDE RAJNANDINI RAVINDRA	Environmental Health
46	SHINDE RUSHIKANT RADHAKISAN	Water Pollution
47	MASKAR ASHWINI ANIL	Water Pollution
48	DHAKNE DAIVSHALA MAHADEV	Water Pollution
49	PATIL SHWETA NIVRUTTI	Water Pollution
50	PATHAN UMARKHAN AYYUBKHAN	Water Pollution
51	KHOSE ARTI NARAYAN	Water Pollution
52	HONDE ASHABAI RAMNATH	Water Pollution
53	WAGHIRE RUPAJI ANANT	Water Pollution
54	NIRDHAR SARITA UDDHAV	Water Pollution
55	GHOLAP POONAM ASHOK	Water Pollution
56	BAHIR UMAKANT ASHOK	Effect of Greenhouse Gases on atmosfere
57	KANDE RUSHIKESH LAXMAN	Effect of Greenhouse Gases on atmosfere
58	RAUT ASHWINI SHIVAJI	Effect of Greenhouse Gases on atmosfere
59	BONGANE DADARAO DHONDIRAM	Effect of Greenhouse Gases on atmosfere
60	GANESH GORAKH KHARSADE	Effect of Greenhouse Gases on atmosfere
61	JOGDAND ASHOK VASANT	Effect of Greenhouse Gases on atmosfere
62	DONGARE SAKSHI PRAKASH	Effect of Greenhouse Gases on atmosfere
63	BHOLE SIDDHANT MILIND	Effect of Greenhouse Gases on atmosfere
64	GAIKWAD VAISHNAVI NAVNATH	Effect of Greenhouse Gases on atmosfere
65	DHAYAJE SUKESHANI MANIK	Effect of Greenhouse Gases on atmosfere
66	BARHATE SUDAM NANDU	Effect of Greenhouse Gases on atmosfere
67	GAIKWAD PRATIK DADAJI	Ecosystem



Sr. No.	Name	Project Tital
68	JOGDAND SNEHAL MARUTI	Ecosystem
69	JOGDAND ABHISHEK SUNDAR	Ecosystem
70	KOLHE SHARVARI MALHARI	Ecosystem
71	SHAIKH MUSKAN MUNNA	Ecosystem
72	KORDE SHRUTI CHHAGAN	Ecosystem
73	DALVE MAHESH MAHADEV	Ecosystem
74	SULE PRADIP PRABHAKAR	Ecosystem
75	KOKATE NIKITA RAJENDRA	Ecosystem
76	RATHOD ABHAY SUDHAKAR	Biotic & Abiotic factors
77	GHODKE ABHISHEK SURESH	Biotic & Abiotic factors
78	DALAVE ROHAN SHESHERAO	Biotic & Abiotic factors
79	MOHITE VISHNU ASHOK	Biotic & Abiotic factors
80	ZUNZURKE ADITYA NANDU	Biotic & Abiotic factors
81	YADAV NARAYAN BALIRAM	Biotic & Abiotic factors
82	DONGRE PRUTHVIRAJ MADAN	Biotic & Abiotic factors
83	KULKARNI SHREYAS ANANTRAO	Biotic & Abiotic factors
84	TURUKAMARE ANIKET ATMARAM	Biotic & Abiotic factors
85	SHINDE TANISHQA APPASAHEB	Biotic & Abiotic factors
86	DEVKAR SAKSHI BALKISAN	Effect of climate Change on Enviromental
87	BHALERAO VAISHNAVI DHARMRAJ	Effect of climate Change on Enviromental
88	RATHOD DNYANESHWAR SHANKAR	Effect of climate Change on Enviromental
89	DHUTADMAL SONAM RAJU	Effect of climate Change on Enviromental
90	SHAIKH ZAID ZAINUDDIN	Effect of climate Change on Enviromental
91	MEHETRE GAURAV ANKUSH	Effect of climate Change on Enviromental
92	SHIRALE GANESH BALIRAM	Effect of climate Change on Enviromental
93	KALE PURUSHOTTAM GORAKSHANATH	Effect of climate Change on Enviromental
94	BANSODE KRISHNA BALBHIM	Effect of climate Change on Enviromental
95	NISARGANDH NILESH BABASAHEB	Varine Water Pollution
96	AUSARMAL SAKSHI SHAILENDRA	Varine Water Pollution
97	BONGANE POONAM ARUN	Varine Water Pollution
98	AMTE ARTI RAMESH	Varine Water Pollution
99	NAIKWADE SAI SHRIMANT	Varine Water Pollution
100	RAKH PRANAVI BABASAHEB	Varine Water Pollution
101	GHODKE SHUBHANGI BABASAHEB	Varine Water Pollution
102	GHODKE ASHWINI PRATAP	Solide wastes Disposal Dractices in wrlonarve
103	RAUT NITIN KISHOR	Solide wastes Disposal Dractices in wrlonarve



Sr. No.	Name	Project Title
104	GORE PRIYANKA ADINATH	Solide wastes Disposal Dractices
105	HIINDOLE NILESH RAJENDRA	Solide wastes Disposal Dractices in wrlonarve
106	KADAM POOJA BALU	Solide wastes Disposal Dractices in wrlonarve
107	SONTAKKE POOJA ASHIRUBA	Solide wastes Disposal Dractices in wrlonarve
108	MASKI SAKSHAM RAMPRABHU	Solide wastes Disposal Dractices in wrlonarve
109	KHEMADE PAYAI SUNIL	Solide wastes Disposal Dractices in wrlonarve
110	THITE ASHWINI BAL ASAHEB	Solide wastes Disposal Dractices in wrlonarve
111	WAGHMARE SNEHA BHAGWAT	Solide wastes Disposal Dractices in wrlonarve
112	SONWANE APURVA VINOD	Solide wastes Disposal Dractices in wrlonarve
113	PAWAR ROHINI BABASAHEB	Toxic Wastes
114	LANDGE SONALI GANESH	Toxic Wastes
115	GADE PALLAVI BANDU	Toxic Wastes
116	JAGTAP SOMNATH NAVNATH	Toxic Wastes
117	JADHAV SAKSHI NANDKISHOR	Toxic Wastes
118	GHULE SUMIT SUGRIV	Toxic Wastes
119	GAIKWAD KRANTI RAHUL	The impact Climate Change
120	DORLE PIYUSH SURESH	The impact Climate Change
121	ADMANE ABHISHEK ASHOK	The impact Climate Change
122	SANAP VAISHNAV VISHNU	The impact Climate Change
123	KADAM ABHISHEK EKNATH	The impact Climate Change
124	BAHIRWAL ABHISHEK BALU	The impact Climate Change
125	GHUMRE SWAPNIL ASHOK	Air Pollution
126	BHALSHANKAR RAGINI ASHOK	Air Pollution
127	PAWAR AJAY SHIVAJI	Air Pollution
128	KHAN RAFEDULLAH ANSARULLAH	Air Pollution
129	SARWADE YASH RAHUL	Air Pollution
130	GARJE PANKAJ SOMINATH	Air Pollution
131	KAMBLE PRATIKSHA BIBISHAN	Air Pollution
132	SHETE BHAVIKA BHAGWAT	Air Pollution
133	DARADE AJAY KAILAS	Health effects of air Pollutions
134	DARADE ANUJA DNYANESHWAR	Health effects of air Pollutions
135	FAROOQUI RIMSHA FARHEEN SOHAIL AHMEI	Health effects of air Pollutions
136	FAROOQUI AFSHA AFREEN SOHAIL AHMWD	Health effects of air Pollutions

Sr. No.	Name	Project Title
137	SAYYADA NOOR UL AIN MIR AMIAD ALI	Water Pollution
138	THANGE RANI ASHOK	Water Pollution
139	NANNWARE ROHIT RAJKUMAR	Water Pollution
140	QUAZI ABUREHAN AHMED RIZWAN AHMED	Water Pollution
141	KORDE PAYAL RAMIARI	Water Pollution
142	WAREKAR ASHISH GANPAT	Water Pollution
143	DOIPHODE MAHESH DEVIDAS	Noise Pollution
144	PAWAR RUTUJA BABASAHEB	Noise Pollution
145	SHAIKH ADIBASHIRIN ABDULALIM	Noise Pollution
146	SYED MADHAFATEMA ASEF	Noise Pollution
147	JADHAV SUSHIL SUBHASH	Noise Pollution
148	MATRE PRADIP ASHOK	Noise Pollution
149	DHAKNE ROSHNI RAMESH	Noise Pollution
150	THOKE SARITA VIJAYKUMAR	Noise Pollution
151	SANAP SANTOSH BAJIRAO	Ground Water Pollution
152	KHATIB MISBA ABDULMOIN	Ground Water Pollution
153	KUTE GOKUL SHAHADEV	Ground Water Pollution
154	MANE VAISHNAVI SUNIL	Ground Water Pollution
155	BARDE KSHANPRABHA SHAMSUNDAR	Ground Water Pollution
156	THORAT SHAILESH KAILAS	Ground Water Pollution
157	ADANE VAISHNAVI SUDHIR	Ground Water Pollution
158	KAJALE SANKET BHARAT	Ground Water Pollution
159	KAMBLE PRIYA RAJENDRA	Ground Water Pollution
160	MASKE VAISHNAVI SURESH	Light Pollution
161	RATHOD SACHIN DEVIDAS	Light Pollution
162	KAMBLE SATYAJEET PRASAD	Light Pollution
163	KHAKRE ANIKET BALU	Light Pollution
164	SAPTE ISHWAR BALASAHEB	Light Pollution
165	BAVANE SANDHYA BALIRAM (NEW)	Light Pollution
166	GHULE ABHISHEK SANJAY (NEW)	Biotic factor
167	MOGHE VISHAL ANKUSH (NEW)	Biotic factor
168	JADHAV POOJA RADHAKRUSHN (NEW)	Biotic factor

Jogdand

Dr. Jogdand S.K.

Chairman

Environmental Studies.

Principal

Principal

N.S.R.(N.) Mrs. Kesharbai
Sonajirao Kshirsagar Alias Kaku
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Student Project List 2023-2024
Class: B.A. Second Year
Subject : Environmental Studies



Sr. No.	Name	Project Tital
1	WAGHMARE SARIKA SHRIRAM	Ecosystem
2	DISALE OM VIJAYANAND	Ecosystem
3	DAHE NIKHIL DNYANDEO	Ecosystem
4	SHINDE GANESH LAXMAN	Ecosystem
5	BAWANE SANJAY ANKUSH	Ecosystem
6	GHOLAP ABHIJEET ASHOK	Ecosystem
7	KAKADE VAIBHAV SANJAY	Ecology
8	DHAWLE ROHIT GANESH	Ecology
9	SABLE NILESH ATMARAM	Ecology
10	KOTULE UTTAM VACHISHT	Ecology
11	TIPALE AMRUTA RAJENDRA	Biotic environmental factors
12	WAGHMARE ABHAY SHRIRAM	Biotic environmental factors
13	PAWAR SACHIN RAJENDRA	Biotic environmental factors
14	WAVALKAR PRASHANT SHRIMANT	Biotic environmental factors
15	JADHAV PRATIKSHA SAINATH	Biotic environmental factors
16	RATHOD ATUL RAMBHAU	Biatic Components
17	PAWAR PRAVIN BABASAHEB	Biatic Components
18	SHELAR DNYANESHWAR DINKAR	Biatic Components
19	PAWAR KANHAIYA NILKANTH	Biatic Components
20	MISAL PRADIP SHAHADEV	Biatic Components
21	SABLE RUTIK GORAKSHNATH	Types of Ecosystem
22	DHANDE PRAVIN SUBHASH	Types of Ecosystem
23	GANGAWANE PAYAL SHANKAR	Types of Ecosystem
24	LANDGE ABHISHEK SHAHADEV	Types of Ecosystem
25	DHAWLE VISHNU BABURAO	Types of Ecosystem
26	AMTE ARTI MAHADEV	Ocean Ecosystem
27	PAWAR RAHUL ASHOK	Ocean Ecosystem
28	GADE SACHIN SUBHASH	Ocean Ecosystem
29	PABLE PAYAL HARIBHAU	Ocean Ecosystem



30	DEVARKONDE SACHIN MAHADEV	Ocean Ecosystem
31	IRMALE AMOL RAMHARI	Ocean Ecosystem
32	SHINDE PAWAN PARSHURAM	Natural Ecosystem
33	KOTHIULE POOJA NAVNATH	Natural Ecosystem
34	RAUT SANKET SAKHARAM	Natural Ecosystem
35	WAVHAI CHAITANYA KISAN	Natural Ecosystem
36	KALE VAISHNAVI BHIMRAO	Natural Ecosystem
37	GHOLAP AKANKASHA SOMINATH	Natural Ecosystem
38	SHAIKH FARANA FERAZ	Pollution
39	WALE SAPANA ASHOK	Pollution
40	JAWALE SUMEDHI ATAMARAM	Pollution
41	GAIKWAD ROHAN GANESH	Desert Ecosystem
42	MISAL ATUL SANJIV	Desert Ecosystem
43	REDDI SHIRISH PRAKASH	Desert Ecosystem
44	KALE ANUJA KAILAS	Desert Ecosystem
45	RATHOD VAISHALI GOKUL	Desert Ecosystem
46	KADAM DATTA MITTU	Noise Pollution
47	KADAM AVINASH ADINATH	Noise Pollution
48	SHINDE CHAITANAY BAPURAO	Noise Pollution
49	MASKAR MAHARUDRA VIKRAM	Noise Pollution
50	AGAM POOJA PANDURANG	Noise Pollution
51	CHAVAN AKSHDA BALU	Noise Pollution
52	RAKHE RENUKA SUNIL	Marine Ecosystem
53	DHANVE SHARAD BAPU	Marine Ecosystem
54	TANDALE AVINASH DEVIDAS	Marine Ecosystem
55	KALE SOMNATH BALU	Marine Ecosystem
56	KHANDE SACHIN RADHAKISAN	Soil Pollution
57	KHANDEKAR KANIFNATH VASANT	Soil Pollution
58	THORAT MAHESHWARI BALAJI	Soil Pollution
59	GHODKE DNYANESHWARI RAMHARI	Soil Pollution
60	GHODKE GITANJALI SHRIRAM	Soil Pollution
61	PARVE MONIKA VASANT	Air Pollution
62	SHINDE SANGRAM RAMESH	Air Pollution
63	JADHAV AMAR SADASHIV	Air Pollution
64	AGAM PALLAVI VACHISHITA	Air Pollution



65	KAMBALE SAKSHI SANTOSHI	
66	KADAM PRANITA ARUN	
67	SHINDE NIKITA VILAS	
68	RATHOD SUREKHA BIHARAT	Water Pollution
69	GHODKE SWAPNIL SITARAM	Water Pollution
70	SALGUDE KARAN DHARMRAJ	Water Pollution
71	SANAP ARTI VISHNU	Seashore Ecosystem
72	JADHAV KOMAL DHURAJI	Seashore Ecosystem
73	SHAIKH AMAN GAFFAR	Seashore Ecosystem
74	LONKAR RAMESHWAR PRABHAKAR	Seashore Ecosystem
75	HARALE CHANDU SHIVDAS	Seashore Ecosystem
76	GHUNGRAD HARIDAS ASHOK	Seashore Ecosystem
77	POTBHARE TEJASKUMAR CHAKRADHAR	Effect of Climate Change as atmosphere
78	PATOLE AJAY GAVAJI	Effect of Climate Change as atmosphere
79	UBALE NAVNATH DAMODHAR	Effect of Climate Change as atmosphere
80	SONTAKKE RITESH VITTHAL	Effect of Climate Change as atmosphere
81	RAUT PRATIKSHA RANJIT	Effect of Climate Change as atmosphere
82	KOTULE DNYANESHWAR BABURAO	Fresh Water Ecosystem
83	BEDKE RUSHIKESH ASARAM	Fresh Water Ecosystem
84	DHOLE VISHAL BAPPA	Fresh Water Ecosystem
85	JADHAV SANDHYA KISAN	Fresh Water Ecosystem
86	DHOLE PRIYANKA CHANDRAKANT	Plastic Pollution
87	KUDKE VAISHNAVI SANDEEP	Plastic Pollution
88	KHAKARE MAHADEV HANUMAN	Plastic Pollution
89	NIMBALKAR ANIKET SHIVRAM	Plastic Pollution
90	SAVSAKE SHIVAJI RAMA	Plastic Pollution
91	KHNDAGALE AKSHAY RANJIT	Plastic Pollution
92	JADHAVAR ARUN PRABHU	Thermal Pollution
93	YEDKE POOJA SURESH	Thermal Pollution
94	BHORE DIGVIJAY MAHADEV	Thermal Pollution
95	SHAIKH TAHA YASEEN TAHER	Thermal Pollution
96	SAPKAL AJAY DHARMARAJ	Thermal Pollution
97	NIKAM NAVNATH EKNATH	Thermal Pollution
98	RATNAPARKHE DHANSHREE APPASAHEB	Climate Change
99	MOMIN SHAYESTA MOMIN ILYAS	Climate Change

100	SANAP RADHA SOMINATH	
101	SHAIKH TABASSUM SK QUADEER	
102	SHAIKH NASREEN TAYYAB	
103	KOTHULE MONIKA SANJAY	Ecosystem
104	CHANDANE POOJA SHAHURAO	Ecosystem
105	KANDEKAR DHANANJAY VILAS	Ecosystem
106	AMTE ARTI ANURATHI	Ecosystem
107	INDURE MEGHARAJ MAHADEV	Ecosystem
108	OVIHAL NIKITA SURESH	Water Pollution
109	GAIKWAD NIKITA YALAPPA	Water Pollution
110	THOMBRE ANJALI RAJENDRA	Water Pollution
111	PATHAN MUDASSIR HASHAM	Water Pollution
112	VEDPATHAK SONALI DATTATRAYA	Water Pollution
113	WAGHMARE OMKAR PANDIT	Air Pollution
114	ROHITE RUSHIKESH BALU	Air Pollution
115	KHEMADE PAYAL BABASAHEB	Air Pollution
116	GAIKWAD RUTVIK SUDHAKAR	Pollution
117	GHUMRE RUPALI SEETARAM	Pollution
118	SOMVANSHI SHIVAM DILIP	Pollution
119	SHIAKH NAILA PARVEEN SHAIKH JABBAR	Pollution
120	PATHAN ZEENAT TAHER	Pollution
121	BHANDARE SIDDHARTH VINAYAK	Pollution
122	KALKHAIR SUNNY RAM	Grassland Ecosystem
123	KARWANDE ABHISHEK SUBHASH	Grassland Ecosystem
124	CHOURE ANANT BAPURAO	Grassland Ecosystem
125	KOLEKAR SAYALI SHRIRANG	Grassland Ecosystem
126	JADHAV RAMESHWAR ASARAM (NEW)	Grassland Ecosystem
127	GOMASE DIPALI MAHADEV (NEW)	Grassland Ecosystem
128	BAN VAISHINAVI GANESH	Grassland Ecosystem



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Principal

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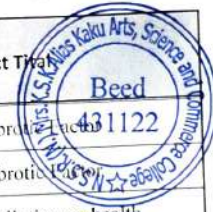
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Student Project List 2023-2024
Class: B.Com. Second Year
Subject : Environmental Studies

Sr.No	Name	Project Tital
1	CHAVAN OMKAR RAM	Pollution
2	KHANDALE DHANANJAY BALASAHEB	Pollution
3	LOLGE ABHAY PRAMOD	Pollution
4	MASKE MAYUR HARIBHAU	Pollution
5	KARGUDE RITESH MAHADEO	Pollution
6	GHUGE AJAY LIMBAJI	Pollution
7	MANJULE DIPAK PIRAJI	Pollution
8	BHAWSAR GAYATRI SHAM	Pollution
9	KAMBLE KSHITIJ VIJAY	Abiotic Components
10	WAGHMARE MAHESH SANTOSH	Abiotic Components
11	KALASE SAURABH CHANDRASHEN	Abiotic Components
12	KAITAKE SANDIPAN VISHNU	Abiotic Components
13	JANVALE AJINKYA SANTOSH	Abiotic Components
14	JANVALE RUSHIKESH KAILAS	Abiotic Components
15	TALEKAR TUSHAR SHRIHARI	Biotic Components
16	DUDHAL VAIBHAV KALYAN	Biotic Components
17	KHOD SWAPNIL CHHAGAN	Biotic Components
18	NEVADE ANIL SANJAY	Biotic Components
19	PURI RUSHIKESH SUBHASH	Biotic Components
20	KUTE DNYANESHWAR HANUMANTRAO	Biotic Components
21	KUTE RUSHIKESH MAHADEV	Biotic Components
22	BAND RUSHIKESH DEVRAO	Biotic Components
23	GILBILE SURESH SACHIN	Ecology
24	BAHIR MAHESH MITTHU	Ecology
25	CHAVAN SHITAL SADASHIV	Ecology
26	SURYAVANSHI SIDDHESHWAR TULSHIRAM	Ecology
27	KHAWLE VIRENDRA MAHARUDRASWAMI	Ecology
28	BAYAS RAJAT KANHAIYA	Ecology
29	AJABE RAJU SANTOSH	Ecology



Sr.No	Name	Project Tital
30	RAKHUNDE AJNKYA HARIBHAU	Health & Pollution
31	LONDHE YUVRAJ MAHADEV	Health & Pollution
32	KAKDE ONKAR SHIRIRAM	Health & Pollution
33	SOLUNKE ONKAR MADHUKAR	Health & Pollution
34	PAWAR KOMAL RAMESH	Health & Pollution
35	DHAVALE GANESH ROHIDAS	Health & Pollution
36	PHATAK SHIVANI SURESH	Health & Pollution
37	TEKALE SHUBHADA PRASHANT	Fresh Water Ecosystem
38	KOTHULE AVISHKAR TUKARAM	Fresh Water Ecosystem
39	KHARAT SHRADDHA GORAKSH	Fresh Water Ecosystem
40	KHARSADE DHANANJAY BAPURAO	Fresh Water Ecosystem
41	KAPLE SUSHANT SHAHADEV	Fresh Water Ecosystem
42	TAGAD YOGITA ANIL	Fresh Water Ecosystem
43	THORAT AKASHKUMAR RANJITKUMAR	Fresh Water Ecosystem
44	KAITAKE AKANKSHA RAJENDRA	Fresh Water Ecosystem
45	DESHMANE SHRUTI DHANRAJ	Noise Pollution
46	GADE VAIBHAV BALBHIM	Noise Pollution
47	DORLE ADITYA SOMANATH	Noise Pollution
48	TIDKE ROHIT RAMRAO	Noise Pollution
49	AMTE PRATIK VILAS	Noise Pollution
50	SHAIKH AYAN SATTAR	Noise Pollution
51	KHEMADE NIKITA NITIN	Vaurini Ecosystem
52	INKAR NILAM BHAGUJI	Vaurini Ecosystem
53	ANERAO VAIBHAV DATTATRAY	Vaurini Ecosystem
54	SHAIKH AFTAB NAVAJ	Vaurini Ecosystem
55	AKHADE SUDHIR SAMBHAJI	Vaurini Ecosystem
56	GHULE ANIKET VIJAY	Vaurini Ecosystem
57	TALEKAR ANURADHA RAJENDRA	Vaurini Ecosystem
58	THORAT NIKHIL CHAGAN	Biotic & Abiotic Factor
59	SHENDGE ABHISHEK SUBHASHI	Biotic & Abiotic Factor
60	THOTE AMOL JALINDAR	Biotic & Abiotic Factor
61	LOKHANDE RUPESH DEVIDAS	Biotic & Abiotic Factor
62	RAUT UPENDRA MINESH	Biotic & Abiotic Factor

Sr.No	Name	Project Title
63	SURYAWANSHI PRIYA KISHOR	Biotic & Abiotic
64	KORDE SHAHADEV BALNATH	Biotic & Abiotic
65	CHADAR BABLU BALU	Impact of our pollution on health
66	DAMBALE AKANKSHA ASHOK	Impact of our pollution on health
67	DHONDAKAR DATTA ATMARAM	Impact of our pollution on health
68	DHENGLE AMAR MADHUKAR	Impact of our pollution on health



Jogdand
 Dr. Jogdand S.K.
 Chairman
 Environmental Studies.

Kesharbai
 Principal
Principal
 N.S.S.R.(N.) Mrs. Kesharbai
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Department of Zoology
M.Sc. II Year (IV-Semester), Practical Examination April/May 2024

Date: - 27/04/2024

Paper No. - ZOO-431122

Time: - 10.00 AM - 02.00PM

Paper Name. - Project Work



Sr. No.	Seat No.	Mentee Name	Mentor	Title of the Project	Sign
1	GZD401037	Aasma Faheem Pasha	Dr. A.N. Shelke	Distribution of <i>Cyprinus Carpio</i> in Districts of Maharashtra.	
2	GZD401038	Bagwan Reema Bagwan Khaja Miya	Dr. A.N. Shelke	Study of Freshwater fishes in Beed District of Maharashtra.	
3	GZD401039	Choure Parmeshwar Shriram	Dr. A.N. Shelke	Study of brackish water fishes in marine coastline of Maharashtra.	
4	GZD401040	Dake Rohini Namdeo	Dr. P.B. Sirsat	Study on Intestinal Helminthic Parasite: <i>Ascaris lumbricoides</i> .	
5	GZD401041	Gange Pratiksha Dattatraya	Dr. P.B. Sirsat	Study of microbial peptides.	
6	GZD401042	Gavate Mukund Rajebhau	Dr. P.B. Sirsat	Study on Intestinal Helminthic Parasite: <i>Taenia saginata</i> .	
7	GZD401043	Humbare Diksha Arun	Dr. P.P. Gaike	Study on Biology and Life cycle of <i>Fasciola Hepatica</i> .	
8	GZD401044	Maharudra Uddhav Khule	Dr. P.P. Gaike	Study on need of protein for Human body in daily life.	
9	GZD401045	Morale Pratiksha Sampat	Dr. P.P. Gaike	DNA: structure, function and hereditary characters.	
10	GZD401046	Murkute Manisha Mahadev	Dr. P.P. Gaike	Prevalence of Mosquitos in Beed City.	
11	GZD401047	Pathan Madiha Khanam Mushtamir Khan	Mr. A.D. Kaldhon	Golgi Complex: structure & function in various animals.	
12	GZD401048	Pawar Sharyu Yogesh	Mr. A.D. Kaldhon	Biology and Distribution of Bombay Duck in India.	
13	GZD401049	Phad Akash Sanjay	Mr. A.D. Kaldhon	Biology of Silkworm: Growth & Infections.	
14	GZD401050	Sayed Arshiyabegam Mushtakh	Mr. A.D. Kaldhon	Replication of DNA.	
15	GZD401051	Taur Aniket Gangadhar	Mr. A.D. Kaldhon	Fish parasite: Tapeworm.	

Present 15

Absent Nil

Total 15


Head of the Department
Department of Zoology,
Mrs.K.S.K. College, Beed.



Dr. Babasaheb Ambedkar Marathwada University, Am
angabad - 431 004.

CERTIFICATE

This is to certify that the dissertation entitled "Topic Name" : A Project Work , which is being submitted by Miss. Aasma Faheem Pasha Student of **Department of Zoology, Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed 431122 Dr. Babasaheb Ambedkar Marathwada University, Aurangabad** during the academic year 2023 -24 under supervision and the guidance of Dr. A. N. Shelke in partial fulfillment for the award of the degree of master of science in Zoology, is a record of his own work


Dr. A. N. Shelke
(Project Guide & Head of the Department of Zoology)

Place: BEED

Date: 27/04/2024



Dr. Babasaheb Ambedkar Marathwada University, Aurangabad - 431 004.

CERTIFICATE

This is to certify that the dissertation entitled "Topic Name" : A Project Work , which is being submitted by Miss. Bagwan Reema Bagwan Khaja Miya Student of **Department of Zoology, Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed 431122 Dr. Babasaheb Ambedkar Marathwada University, Aurangabad** during the academic year 2023 -24 under supervision and the guidance of **Dr. A. N. Shelke** in partial fulfillment for the award of the degree of master of science in Zoology, is a record of his own work


Dr. A. N. Shelke

(Project Guide & Head of the Department of Zoology)

Place: Beed

Date: 27/4/2024

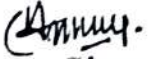



Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku
Arts Science and Commerce College Beed

CERTIFICATE

This is to certify that project report on Study of brackish water fishes in Marine coastline of Maharashtra a bonafide work carried out by Choure Parmeshwar Shriram under my guidance and supervision. The martial from other source have been duly acknowledged his research.

This work is submitted in partial fulfilment of Dr. Babasaheb Ambedkar University for the degree Master of Science Zoology in the academic year 2023-24


Dr. P. B. Sirsat
Project Guide


Dr. A. N. Shelke
HOD Department of Zoology

Examinier

Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad - 431 004.




CERTIFICATE

This is to certify that the dissertation entitled "*Study on intestinal helminthic parasite: Ascaris lumbricoides*" : A review, which is being submitted by *miss. Dake Rohini Namdeo* Student of Department of Zoology, Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed 431122. Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. during the academic year 2023-24 under supervision and the guidance of Prof. Dr.P.B. Sirsat in partial fulfillment for the award of the degree of master of science in Zoology, is a record of his own work


Prof. Dr.P.B. Sirsat

(Project Guide)


Dr. A.N. Shelke
27/4/2024
Prof. & Head of Department of Zoology

Place:

Date: 27/4/2024.

Dr. Babasaheb Ambedkar Marathwada University,
Aurangabad - 431 004.



CERTIFICATE

This is to certify that the dissertation entitled "*Study of Antimicrobial peptides*" : A review, which is being submitted by *miss. Gange Pratiksha* Student of Department of Zoology, Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts, Science & Commerce College, Beed 431122, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. during the academic year 2023-24 under supervision and the guidance of Prof. Dr. Ajay Kaldhon n partial fulfillment for the award of the degree of master of science in Zoology, is a record of his own work

Ajay

Prof. Dr. Ajay Kaldhon

(Project Guide)

[Signature] 27/4/2024

Dr. A.N. Shelke

Prof. & Head of Department of Zoology

Place:

Date:

Beed

27/4/2024.

COLLEGE NAME : MRS. KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU ARTS, SCIENCE & COMMERCE COLLEGE BEED

NAME : POST GRADUATE FEES

COURSE NAME : M.SC.(CHEMISTRY) - I

SESSION NAME : 2023-2024



sr.no	Student Name	Title
4683837	TEKALE PRANJALI VILAS	Water analysis
4684551	GAIKWAD AKANKSHA KASHINATH	Water pollution
4685075	MANTRE BHAGAVAT DHARMARAJ	Soil analysis
4687563	DAWKAR AKSHATA KRISHNAKUMAR	Water pollution
4688965	ATTAR FARUK EKBAL	Water pollution
4690432	PIMPLE AKANKSHA ASHRUBA	Assessment of the groundwater quality of the first industrial residential confluence area of a beed
4693008	KSHIRSAGAR SAKSHI RAJABHAU	Water pollution
4694017	MISAL SAVITRA PANDHARINATH	Water analysis
4697040	SIRSAT RUTUJA SUNIL	Water analysis
4700398	BHALEKAR ABHISHEK MUKUNDRAO	Soil analysis
4702572	SONWANE CHANDANI BABAN	Assessment of the groundwater quality of the first industrial residential confluence area of a beed
4702607	SHINDE PANCHASHIL SANJAY	Assessment of the groundwater quality of the first industrial residential confluence area of a beed
4702807	SHINDE SHITAL RAMDAS	Assessment of the groundwater quality of the first industrial residential confluence area of a beed
4703838	VIBHUTE ANURADHA HARISHCHANDRA	Water analysis
4704185	CHAWAR GAYATRI BALASAHEB	Soil analysis
4704192	KANDHARE RUTUJA SANJAY	Assessment of the groundwater quality of the first industrial residential confluence area of a beed
4706544	BHOSKAR VAIBHAV KAKASAHEB	Soil pollution
4712430	SHAIKH ALFIYA MAHVISH ABDUL SALEEM	Water resources

4718087	VARKALE BALIRAM GANPATI	Soil analysis
4718126	QURESHI RAHEEM SALEEM	Water resources
4718205	MASUOD MOHAMMED ABUDANEESH MOHAMMED ZAKIUDDIN	Water resources
4718367	GORE SWAPNIL KISHOR	Water pollution
4718687	MORE SAURAV VASUDEO	Soil pollution
4718703	MORE HARSHAL VASUDEO	Soil pollution
4719113	QUADRI SYED ABDUL WASE SYED ABDUL BARI	Water resources
4722956	SYED ASJAD SYED ASAD	Water resources
4723365	SHINDE VIVEK NARAYAN	Soil analysis
4729631	PAGARE SHUBHAM CHHABURAO	Soil analysis
4735335	BHAND SHIVANI SHIVAJI	Water pollution
4760187	KAWADE TUSHAR SUNIL	Soil analysis
4830615	SANAP DHANANJAY JIVAN	Soil pollution
4830859	SAYYED A RAUF LIYAQAT	Water resources
4830999	DHAS KASHINATH ANURATH	Soil pollution
4831054	GHARAT RUPALI TUKARAM	Water pollution
4862251	KHOLE VAISHANVI RAM	Water pollution
4862498	MAHAJAN POONAM BALKRISHNA	Soil analysis



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Head

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NAAC reaccredited -A Grade
[3.18 CGPA as per New RAF]



ISO- 21001:2018




Green audit

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CERTIFICATE

This is to certify that, the dissertation titled { **Water Resources** } is bonafide record of the research work carried out by { **Qureshi Raheem Saleem** } under my supervision and guidance in partial fulfilment of the requirement for the award of degree of **Master of Science in Chemistry** of **Mrs. Kesharbai Sonajirao Kshirsagar alias Kaku Arts, Science and Commerce College Beed** affiliated to **Dr. Babasaheb Ambedkar Marathwada University Chhatrapati Sambhaji Nagar**. Hence certified.


{ **Mr. A.A. Chavhan** }

Professor in the department of Chemistry



Navgan Shikshan Sanstha Rajuri (N)

**Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku
Arts, Science & Commerce College, Beed-431122**

Principal-Dr. S.V. Kshirsagar



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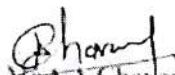
Green audit

[3.18 CGPA as per New RAI]

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CERTIFICATE

This is to certify that, the dissertation titled { **Water Resources** } is bonafide record of the research work carried out by { **Masud Mohammed Abudaneesh Mohammed Zakiuddin** } under my supervision and guidance in partial fulfilment of the requirement for the award of degree of **Master of Science in Chemistry** of **Mrs. Kesharbai Sonajirao Kshirsagar alias Kaku Arts, Science and Commerce College Beed** affiliated to **Dr. Babasaheb Ambedkar Marathwada University Chhatrapati Sambhaji Nagar**. Hence certified.


{ Mr. A.A. Chavan }

Professor in the department of Chemistry



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Principal-Dr. S.V. Kshirsagar



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CERTIFICATE

This is to certify that, the dissertation titled **water analysis** is bonafide record of the research work carried out by **Vibhute Anuradha Harishchandra** under my supervision and guidance in partial fulfilment of the requirement for the award of degree of **Master of Science in Chemistry** of **Mrs. Kesharbai Sonajirao Kshirsagar alias Kaku Arts, Science and Commerce College Beed** affiliated to **Dr. Babasaheb Ambedkar Marathwada University Chhatrapati Sambhaji Nagar**. Hence certified.

Mr. G.A. Deshmane

Professor in the department of Chemistry



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Mrs. Deshmukh G.A

Professor in the department of Chemistry



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Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku
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Principal-Dr. S.V. Kshirsagar



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This is to certify that, the dissertation titled **Water Analysis** is bonafide record of the research work carried out by **Tekale Pranjali Vilas** under my supervision and guidance in partial fulfilment of the requirement for the award of degree of **Master of Science in Chemistry** of **Mrs. Kesharbai Sonajirao Kshirsagar alias Kaku Arts, Science and Commerce College Beed** affiliated to **Dr. Babasaheb Ambedkar Marathwada University Chhatrapati Sambhaji Nagar**. Hence certified.


Mrs. Deshmane G.A

Professor in the department of Chemistry



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Principal-Dr. S.V. Kshirsagar



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This is to certify that, the dissertation titled **water analysis** is bonafide record of the research work carried out by **Sirsat Rutuja Sunil** under my supervision and guidance in partial fulfilment of the requirement for the award of degree of **Master of Science in Chemistry** of **Mrs. Kesharbai Sonajirao Kshirsagar alias Kaku Arts, Science and Commerce College Beed** affiliated to **Dr. Babasaheb Ambedkar Marathwada University Chhatrapati Sambhaji Nagar**. Hence certified.

Mr. G.A. Deshmane

Professor in the department of Chemistry



NSSR(N)

**Mrs. K.S.K. Alias Kaku Arts, Science and Commerce
College, Beed.**

Department of Computer Science

List of students completing project for
Academic Year 2023-24

B.Sc. IIIrd Year

Sr. No	Name Of Student	Project Title
1.	AJAY GANESH WAKHARE	ART GALLERY WEBSITE
2.	YOESH GANESH AVGHAD	
3.	POONAM KISHOR DHUTADMAL	MULTI-PLEX THEATER ONLINE BOOKING SYSTEM
4.	PRITI BHIMRAO NAWALE	
5.	BHOSALE RUTUJA SATISH	HOSPITAL MANAGEMENT SYSTEM
6.	SATHE AKANKSHA KAILAS	
7.	TANGADE SNEHAL DADARAO	LIBRARY MANAGEMENT SYSTEM
8.	BHOSALE SHUBHANGI GANESH	
9.	KAKDE MOHINI MAHADEV	SMART DUSTBIN
10.	YEVALE JAYA BALASAHEB	
11.	NIRMAL AARTI DIPAK	HOSPITAL MANAGEMENT SYSTEM
12.	TAKIK VAISHNAVI SHAM	
13.	DIPIKA NAVNATH SOUNDALKAR	TIMESHEET MANGEMENT
14.	SHENDGE MAHESH JALINDAR	BLOOD BANK
15.	JAGTAP ABHISHEK SAKHARAM	
16.	KALE SANKET KISHOR	ONLINE EXAM SYSTEM
17.	GANGAVNE HRUSHIKESH RAVI	
18.	PATHAK VAISHNAVI PRASHANT	RAILWAY RESERVATION MANAGEMENT SYSTEM
19.	CHAVAN SHRUTI LAXMAN	
20.	GHODKE YOGITA RAMNARAYAN	ONLINE EXAMINATION SYSTEM
21.	SOLANKE APARNA VISHNU	
22.	GANESH SHANTIRAM KADAM	HOSPITAL MANAGEMENT SYSTEM
23.	VISHAL ASHOK KHEDKAR	
24.	TAWARE KRUSHNA ABHIMAN	HOSPITAL MANAGEMENT SYSTEM

Project Supervisor



[Signature]
H.O.19
Department of Computer Science
Mrs. K.S.K. College, Beed

NSSR(N)

**Mrs. K.S.K. Alias Kaku Arts, Science and Commerce
College, Beed.**

Department of Computer Science
List of Students Completing Project
For M.Sc. IInd Year (Sem. IVth) Academic Year (2023-2024)



Sr. No	Name Of Student	Project Title
1	BANGAR RAHUL SUBHASH SHINDE SANKET PANDURANG	BUILD A PROFESSIONAL COOK RECIEPES LANDING PAGE
2	PATTEKAR ANIKET PRADIP KHURESHI SOHEL RASHID	RETRO MUSIC PLAYER
3	BANGE SONALI CHANDANLAL ALKUNTE TEJASWINI GANPAT	ARTIFICIAL INTELLIGENCE CHATBOT
4	CHAVAN JEEVAN ASARAM CHAVAN SUJIT DNYANESHWAR	REAL ESTATE MANAGEMENT SYSTEM
5	KAMBLE SAGAR VIKAS HAVLE SAURAV AVINASH	CUSTOM CHATBOT#ASK ME
6	TAKIK MANGESH SHRIDHAR GORE ADITYA ISHWAR	HOTEL MANAGEMENT
7	MALI VIKAS SHIVAJI NAIKWADE PRADIP JALINDAR	STARTUP IDEA WEBSITE
8	ZANZANE NIKITA DEEPAK KALE BHAGESHREE SUDARSHAN	PERSONAL PORTFOLLIO WEBSITE
9	KULKARNI ADITI RAJESH KULKARNI DHANASHREE SUNIL	LUNG CANCER DETECTION
10	SHAIKH AFREEN HANIF SHELKE SHIVKANYA SANJAY	E-LIBRARY MANAGEMENT SYSTEM
11	JAGDALE MEGHRAJ HANUMAN SHINDE VAIBHAV NAVNATH	ONLINE FOOD ORDER
12	JOSHI VAISHNAVI GOVINDRAO	ONLINE EXAMINATION SYSTEM

Dr. Babasaheb Ambedkar Marathwada

University, Aurangabad

Mrs. K.S.K. College Beed



This is to certify that the project entitled Personal Portfolio website by

MR.ONKAR SHIVAJI RAUT

Seat no: -

PRN NO:- 20190152003199986

MISS.BHAWANA ARVIND MULE

Seat no:-

PRN NO:- 2018015200779604

**in partial fulfillment of M.Sc. Computer Science during the
academic year 2023- 2024**

Date: 22/04/2024

Internal Examiner

Examiner

22.04.2024.
Mr. Highbanc K.S.
External

Dr. Babasaheb Ambedkar Marathwada
University, Aurangabad
Mrs. K.S.K. College Beed



This is to certify that the project entitled Startup Idea Website by

Mr. Vikas Shivaji Mali

Seat no: - GXP401344

PRN NO :- 2018015200166791

Mr. Pardip Naikwade

Seat no:- GXP401347

PRN NO :- 2018015200109296

in partial fulfillment of M.Sc. Computer Science during the academic year
2023- 2024

22/04/24
Date: / / 2024

Internal Examiner

Mr. Waghmare K.S.

Navgan shikshan Sanstha Rajuri's(N)

MRS. KESHARBAI SONJIRAO KSHIRSAGAR ALIAS KAKI

Arts, Science & Commerce College, Beed.

ISO 21001:2018 Certified & NAAC Accredited A Grade

Academic year (2023 – 2024)

Affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

CERTIFICATE

Certified that this Report

Submitted by,

Mr. Vikas Shivaji Mali

Mr. Pardip Naikwade

The student of the course of Master in Computer Science (M.Sc) as a part of Practical work as prescribed by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. For the subject Major Project, for Major Project titled "Startup Idea Website".

We have guided him for the said work, assessed the same & we satisfied that it is up to the standards envisaged for the level of course. The said work may be presented for the level of course. The said work may presented for the partial fulfilment of the project work as prescribed by the Dr. BAMU, Aurangabad.

PRN no : 2018015200166791

Place: Mrs.K.S.K.College, Beed

PRN no :- 2018015200109296

Date: 22-04-24
Seat No: GMD 401344
GXD401344

P. Naikwade

A.R. Shaikh

Dr. A.R. Shaikh

Project Co-ordinator

(H.O.D. of Department of computer Science)

Navgan shikshan Sanstha Rajuri's(N)

MRS. KESHARBAI SONJIRAO KSHIRSAGAR ALIAS KAKU

Arts, Science & Commerce College, Beed.

ISO 21001:2018 Certified & NAAC Accredited A Grade

Academic year (2023 – 2024)



Affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

CERTIFICATE

Certified that this Report

Submitted by,

MR.ONKAR SHIVAJI RAUT

MISS.BHAWANA ARVIND MULE

The student of the course of Master in Computer Science(M.Sc.) as a part of Practical work as prescribed by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. For the subject Major Project, for Major Project titled "STORE MANAGEMENT SYSTEM".

We have guided him for the said work, Assessed the same & we satisfied that it is up to the standards envisaged for the level of course. The said work may be presented for the level of course. The said work may be presented for the partial fulfilment of the project work as prescribed by the Dr. BAMU, Aurangabad.

PRN No : 20190152003199986

Place: Mrs. K.S.K. College, Beed

PRN No : 2018015200779604

Date: 22/04/2024

DR. A.R.SHAIKH

Project Co-ordinator

(H.O.D. of Department of computer Science)

Dr. Babasaheb Ambedkar Marathwada University,

Chhatrapati SambhajiNagar

Mrs. K.S.K. College Beed



This is to certify that project entitled student

Attendance

System By

MR. ANIKET PRADIP PATTEKAR

MR. SOHEL RASHID KHURESHI

Seat No :- GXD401348

Seat No :- GXD401341

In partial fulfilment of M.Sc. Computer Science during the
academic year 23-24

Date :- 22/04/2024

*SP
Gaurish*

Internal Examiner

22.04.2024

MR. Waghmare K.S.

External Examiner

Navgan shikshan Sanstha Rajuri's(N)
MRS. KESHARBAI SONJIRAO KSHIRSAGAR ALIS KAKU
ARTS, SCIENCE & COMMERCE COLLEGE, BEED



Academic year (2023 – 2024)

Affiliated to Dr. Babasaheb Ambedkar Marathwada University,

Chhatrapati Sambhaji Nagar

CERTIFICATE

Certified that this Report

Submitted by

Mr. Aniket Pradip Pattekar

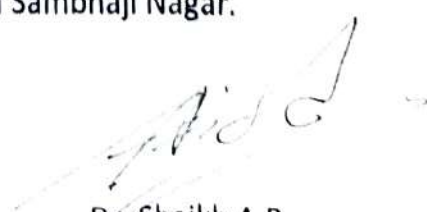
Mr. Sohel Rashid Khureshi

The student of the course of **Master in Computer Science(M.Sc)** as a part of Practical work as prescribed by Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhaji Nagar. For the subject Major Project, for Major Project titled “ **Retro Music Player** ”.

We have guided him for the said work, Assessed the same & we satisfied that it is up to the standards envisaged for the level of course. The said work may be presented for the level of course. The said work may presented for the partial fulfilment of the project work as prescribed by the Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhaji Nagar.

PRN No. :- 2019015200054325

PRN No. :- 2019015200033766


Dr. Shaikh A.R.

(guide, project co-ordinator & h.o.d)

External Examiners



Navgan Shikshan Sanstha Rajuri's (N)

Mrs. Kesherbai sonajirao Kshirsagar Alias Kaku

Arts, Science & Commerce College, Beed.

CERTIFICATE

Department of Computer Science

This is to certify that this Project report entitled

"ART GALLERY"

Being submitted by

MR AJAY GANESH WAKHARE

MR YOGESH GANESH AVGHAD

The project is Completed Successfully, as per the course of B.sc III, Dept. of Computer Science, as a part of partial work as prescribed by Dr. BAMU Aurangabad (CHH. Sambhajinagar). for the subject "ONLINE EXAM SYSTEM" He submitted the project report in partial fulfillment of course for the academic year 2023-24.

SEAT NO: NAF 6858673 , NAF 658894

PLACE: BEED

DATE:

23-3-24,

EXAMINAR

Dr. SHAIKH A. R

(HEAD OF DEPT)

MRS. GAWARE

(PROJECT GUIDE)

Navgan Shikshan Sanstha Rajuri's (N)

Mrs. Kesherbai sonajirao Kshirsagar Alias Kaku

Arts, Science & Commerce College, Beed.



CERTIFICATE

Department of Computer Science

This is to certify that this Project report entitled

"ONLINE EXAM SYSTEM"

Being submitted by

MR SANKET KISHOR KALE

MR HRUSHIKESH RAVI GANGAVNE

The project is Completed Successfully, as per the course of B.sc III, Dept. of Computer Science, as a part of partial work as prescribed by Dr. BAMU Aurangabad (CHH. Sambhajinagar). for the subject "ONLINE EXAM SYSTEM" He submitted the project report in partial fulfillment of course for the academic year 2023-24.

SEAT NO: NAF658758
NAF658722

PLACE: BEED

DATE:

28.3.24,
EXAMINAR

Dr. SHAIKH A. R

(HEAD OF DEPT)

MRS. GAWARE

(PROJECT GUIDE)

CERTIFICATE



HOSPITAL MANAGEMENT SYSTEM

SUBMITTED BY:-

BHOSALE RUTUJA SATISH

SATHE AAKANKSHA KAILAS

The project is Completed Successfully, as per the course of B.sc III, Dept. of Computer Science, as a part of partial work as prescribed by Dr. BAMU Aurangabad (CHH. Sambhajinagar). for the subject "HOSPITAL Management" submitted the project report in partial fulfillment of course for the academic year 2023-24.


Place: Beed

SEAT NO:

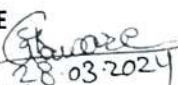
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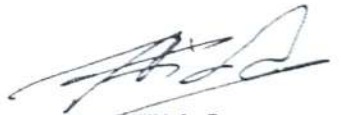
NAF : 658841

DATE: 28/03/24


28-03-24
EXAMINAR

Mrs GWARE
(PROJECT GUIDE)


28-03-2024


Dr. SHAIKH A. R
(HEAD OF DEPT)

CERTIFICATE



Department of Computer Science

The student(s) mentioned below has/have completed

"HOSPITAL MANAGEMENT SYSTEM"

SUBMITTED BY:-

BHOSALE RUTUJA SATISH

SATHE AAKANKSHA KAILAS

The project is Completed Successfully, as per the course of B.sc III, Dept. of Computer Science, as a part of partial work as prescribed by Dr. BAMU Aurangabad (CHH. Sambhajinagar). for the subject "HOSPITAL Management" submitted the project report in partial fulfillment of course for the academic year 2023-24.

Place: Beed

SEAT NO:

NAF : 658690

NAF : 658841

Mrs GWARE

(PROJECT GUIDE)

DATE: 28/03/24

Dr. SHAIKH A. R

(HEAD OF DEPT)

28-03-24

EXAMINAR

28/03/2024

Navgan Shikshan Sansthan Rajuri's (N)

Mrs. kesherbai Sonajirao Kshirsagar Alias K

Arts, Science & Commerce College, Beed



CERTIFICATE

Department Of Computer Science

This is to certify that this Project report entitled

“TIMESHEET MANAGEMENT”

Being submitted by

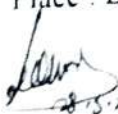
MISS DIPIKA NAVNATH SOUNDALKAR

The project is Completed Successfully , as per the course of B.sc III, Dept.of Computer Science, as a part of partial work as prescribed by Dr.BABU (CHH.Sambhajinagar) for the subject “Timesheet management” she submitted the project report in partial fulfilment of course for the academic year 2023-24.

Place : Beed

Seat No: NAF658861

Date:


EXAMINAR


Mrs Gaware
(PROJECT GUIDE)


Dr. Shaikh A. R.
(HEAD OF DEPT)

नवगण शिक्षण संस्था राजुरी नवगण
सौ.केशरबाई सोनाजीराव क्षीरसागर ऊर्फ काकू
कला,विज्ञान व वाणिज्य महाविद्यालय,बीड



हिंदी विभाग

सूचना

बी.ए. प्रथम, द्वितीय, तृतीय वर्ष के छात्र-छात्राओं को सूचित किया जाता है कि दिनांक 06/02/2024 से लेकर 07/02/2024 को (Test & Tutorials) वर्ग चाचणी और गृहपाठ का आयोजन किया गया है।

उपरोक्त तिथि को सभी छात्र-छात्राएँ उपस्थित रहें।


हिंदी विभाग प्रमुख

हिंदी विभाग प्रमुख
सौ.के.एस.के.महाविद्यालय,
बीड (महाराष्ट्र) -431122



PROJECT NAME LIST
DEPARTMENT OF HINDI
2023-24

SR.	STUDENT NAME	TITLE OF PROJECT
1.	AUTE SAURABH PRAKASH	जयशंकर प्रसाद के काव्य का अनुशीलन
2.	GHUMRE SANJAY BHIMRAO	संत कबीरदास के काव्य का अनुशीलन
3.	RAUT SHUBHAM KIRAN	संत तुलसीदास के काव्य का अनुशीलन
4.	UJGARE NISHA VIKRAM	मोहन राकेश के काव्य का अनुशीलन
5.	ZODGE RAVIRAJ SHANKAR	प्रेमचंद का कथा साहित्य का अनुशीलन


HEAD OF DEPARTMENT

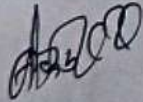
हिंदी विभाग प्रमुख
सौ.के.एस.के.महाविद्यालय,
बीड (महाराष्ट्र) -431122

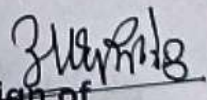


Navgan Shikshan Sanstha Rajuri (N.)
Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts,
Science & Commerce College BEED (M.S.)

CERTIFICATE
DEPARTMENT OF HINDI

This is to certify that Miss/Mr. AUTE SAURABH PRAKASH
class B.A. Third Year (Main Hindi) has completed project work
in title 'जयशंकर प्रसाद के काव्य का अनुशीलन' she/he has
completed satisfactory and submitted to Dr. Babasaheb
Ambedkar Marathwada University, Chhatrapati Sambhajinagar
for fulfilment of UG Degree in Hindi in the year 2023-2024.


Name & Sign of
Incharge
prof. Ratch. B. V

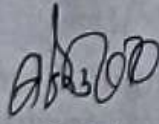

Sign of
Head of Department
हिंदी विभाग प्रमुख
सौ.के.एस.के.महाविद्यालय,
बीड (महाराष्ट्र) -431122

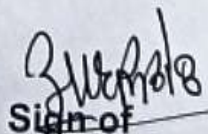


Navgan Shikshan Sanstha Rajuri (N.)
Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts,
Science & Commerce' College BEED (M.S.)

CERTIFICATE
DEPARTMENT OF HINDI

This is to certify that Miss/Mr. GHUMARE SANJAY BHIMRAO
class B.A. Third Year (Main Hindi) has completed project work
in title 'संत कबीरदास के काव्य का अनुशीलन' she/he has
completed satisfactory and submitted to Dr. Babasaheb
Ambedkar Marathwada University, Chhatrapati Sambhajnagar
for fulfilment of UG Degree in Hindi in the year 2023-2024.


Name & Sign of
Incharge
Prof. Ratch. B.V

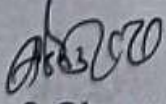

Sign of
Head of Department
हिंदी विभाग प्रमुख
सौ.के.एस.के.महाविद्यालय,
बीड (महाराष्ट्र) -431122



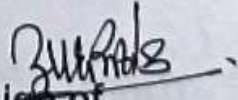
Navgan Shikshan Sanstha Rajuri (N.)
Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts,
Science & Commerce College BEED (M.S.)

CERTIFICATE
DEPARTMENT OF HINDI

This is to certify that Miss/Mr. RAUT SHUBHAM KIRAN
class B.A. Third Year (Main Hindi) has completed project work
in title 'संत तुलसीदास के काव्य का अनुशीलन' she/he has
completed satisfactory and submitted to Dr. Babasaheb
Ambedkar Marathwada University, Chhatrapati Sambhajinagar
for fulfilment of UG Degree in Hindi in the year 2023-2024.


Name & Sign of
Incharge

PROF. RAKH.B.V


Sign of
Head of Department

हिंदी विभाग प्रमुख
सौ.के.एस.के.महाविद्यालय,
बीड (महाराष्ट्र) -431122

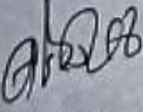


Navgan Shikshan Sanstha Rajuri (N.)

**Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts,
Science & Commerce College BEED (M.S.)**

**CERTIFICATE
DEPARTMENT OF HINDI**

This is to certify that Miss/Mr. UJGARE NISHA VIKRAM
class B.A. Third Year (Main Hindi) has completed project work
in title 'मोहन राकेश के काव्य का अनुशीलन' she/he has completed
satisfactory and submitted to Dr. Babasaheb Ambedkar
Marathwada University, Chhatrapati Sambhajinagar for
fulfilment of UG Degree in Hindi in the year 2023-2024.


Name & Sign of
Incharge
Prof Ratch. B.V

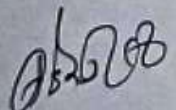

Sign of
Head of Department

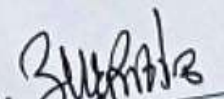
Navgan Shikshan Sanstha Rajuri (N.)
Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts,
Science & Commerce, College BEED (M.S.)



CERTIFICATE
DEPARTMENT OF HINDI

This is to certify that Miss/Mr. ZODGE RAVIRAJ SHANKAR
class B.A. Third Year (Main Hindi) has completed project work
in title 'प्रेमचंद के कथा-साहित्य का अनुशीलन' she/he has
completed satisfactory and submitted to Dr. Babasaheb
Ambedkar Marathwada University, Chhatrapati Sambhajinagar
for fulfilment of UG Degree in Hindi in the year 2023-2024.


Name & Sign of
Incharge
prof Ralch. B.V


Sign of
Head of Department
हिंदी विभाग प्रमुख
सौ. के. एस. के. महाविद्यालय,
बीड (महाराष्ट्र) -431122

शै.वर्ष २०२३-२०२४ मधील बी.ए. तृतीय वर्ष
मुख्य मराठी प्रकल्प लेखन विद्यार्थी यादी



अ.क्र.	बैठक क्रमांक	विद्यार्थ्यांचे नाव	विषय	शेरा
१.	NBF605557	कांबळे निखील संतोष	कुसुमाग्रजांचे चरित्र	
२.	NBF605601	राऊत प्रविण सतीश	मराठी (भाषा) जागतीकरकरण	
३.	NBF605614	शिंदे कांचन दिलीप	कवयित्री बहीनाबाई चौधरी माहिती	
४.	NBF605623	तांदळे कावेरी सुदाम	पु.ल.देशपांडे यांचे साहित्य	


प्रमुख, मराठी विभाग

मराठी विभागप्रमुख
सौ.के.एस.के.महाविद्यालय, बी.

नवगण शिक्षण संस्था राजुरीचे



सौ. के. एस. के. महाविद्यालय, बी. डी.

मराठी विभाग

प्रमाणपत्र

65/100

प्रमाणित करण्यात येते की, कुमार/कुमारी. निखील संतोष कुंबळे याने/हिने मराठी विषयाच्या पेपर क्र. XII आणि XVI साठी कुशुमाभ्रजांचे चरित या विषयावर प्रकल्प सादर केला. सदरील प्रकल्पाचे मुल्यांकन करून तो मान्य / अमान्य करण्यात आला.

करिता प्रमाणित करण्यात येते.

NBF-605557

दिनांक : 27/3/24

Rajwade
मार्गदर्शक

बहिःस्थ परीक्षक
27.3.24

नवगण शिक्षण संस्था राजुरीचे



सौ. के. एस. के. महाविद्यालय, बी. जे.

मराठी विभाग

प्रमाणपत्र

66
100

प्रमाणित करण्यात येते की, कुमार/कुमारी. राहुत प्रविण सतिश
याने/हिने मराठी विषयाच्या पेपर क्र. XII आणि XVI
साठी ~~सशर्ती (आबा) जागणिकुशा~~ या विषयावर प्रकल्प
सादर केला. सदरील प्रकल्पाचे मुल्यांकन करून तो मान्य / अमान्य
करण्यात आला.

करिता प्रमाणित करण्यात येते.

NBF 605601

दिनांक : 27/3/24

मार्गदर्शक

बहि: स्थ परिक्षक 27.3.24

नवगण शिक्षण संस्था राजुरीचे

सौ. के. एस. के. महाविद्यालय, बी. जं.

मराठी विभाग

प्रमाणपत्र

65
100

प्रमाणित करण्यात येते की, कुमार/कुमारी. ~~शिंदे कल्पित दिगीप~~
याने/हिने मराठी विषयाच्या पेपर क्र. XII आणि XVI
साठी ~~कवयित्री बहिनषडि चौधरी माहीती~~ या विषयावर प्रकल्प
सादर केला. सदरील प्रकल्पाचे मुल्यांकन करून तो मान्य / अमान्य
करण्यात आला.

करिता प्रमाणित करण्यात येते.

NBA.605614

दिनांक : 27/3/24

मार्गदर्शक

बहिःस्थ परिक्षक 3.24

नवगण शिक्षण संस्था राजुरीचे



सौ. के. एस. के. महाविद्यालय, बी. जे.

मराठी विभाग

प्रमाणपत्र

66/100

प्रमाणित करण्यात येते की, कुमार/कुमारी. ~~तांबळे कविरी सुवाम~~
ग्राने/हिने मराठी विषयाच्या पेपर क्र. XII आणि XVI
साठी ~~फु. ल. देखापांडे शंतेसहित~~ या विषयावर प्रकल्प
सादर केला. सदरील प्रकल्पाचे मुल्यांकन करून तो मान्य / अमान्य
करण्यात आला.

करिता प्रमाणित करण्यात येते.

605623

दिनांक 27/3/24

मागदर्शक

बहिःस्थ परीक्षक 3.24

Navgan Shikshan Sanstha, Rajuri

MRS. KESHRBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU ARTS

SCIENCE & COMMERCE COLLEGE, BEED -431122 Beed

Department of Urdu

B.A. Third Year project list 2023-2024



Sr/No	Name of the Student Name	Name of project	Prn number
01	Humera begum musa bagwan	Allahma Iqbal ek mukhtesar jayeza	2021015200283585
02	Pathan samreen ramzan	Allahma Iqbal ki talimi khidmat	2020015200381644
03	Shaikh Mubashir shaikh azhar	Mirza galib aur urdu gazal	2020015200332192
04	Shaikh muzammil shaikh azhar	Urdu gazal ek taruf	2020015200349155
05	Syed shahebaz syed ahmed	Jadid zaraye ibragh aur urdu	2020015200332025

NSSR's

**Mrs. Kesharbai sonajirao kshirsagar Alias
Kaku Arts, science and Commerce college
Beed.**



Department of Urdu

Name of student: Humera begum musa bagwan

PRN Number : 2021015200283585

Class : B.A third Year (Six semester)

Subject : Urdu

Year : 2023-2024

Name of Project: Allahma Iqbal ek mukhtesar jayeza

Seat Number :

It is certified mentioned the above mentioned person
submitted the project is approved and the said project that
was evaluated is certified by

Guide

Dr Syed Imaduddin
Department of Urdu
Mrs K.S.K college Beed



External examiner

Department of Urdu

NSSR's

**Mrs. Kesharbai sonajirao kshirsagar Alias
Kaku Arts, science and Commerce college
Beed.**

Department of Urdu



Name of student: Pathan samreen ramzan

PRN Number : 2020015200381644

Class : B.A third Year (Six semester)

Subject : Urdu

Year : 2023-2024

Name of Project: Allahma Iqbal ki talimi khidfmat


Seat Number :

It is certified mentioned the above mentioned person
submitted the project is approved and the said project that
was evaluated is certified by


Guide

Dr Syed Imaduddin
Department of Urdu
Mrs K.S.K college Beed




External examiner

Department of Urdu

NSSR's

**Mrs. Kesharbai sonajirao kshirsagar Alias
Kaku Arts, science and Commerce college
Beed.**

Department of Urdu



Name of student: Shaikh Mubashir shaikh azhar

PRN Number : 2020015200332192

Class : B.A third Year (Six semester)

Subject : Urdu

Year : 2023-2024

Name of Project: Mirza galib aur urdu gazal


Seat Number :

It is certified mentioned the above mentioned person
submitted the project is approved and the said project that
was evaluated is certified by


Guide

Dr Syed Imaduddin
Department of Urdu
Mrs K.S.K college Beed




External examiner

Department of Urdu

NSSR's

**Mrs. Kesharbai sonajirao kshirsagar Alias
Kaku Arts, science and Commerce college
Beed.**

Department of Urdu



Name of student: Shaikh muzammil shaikh azhar

PRN Number : 2020015200349155

Class : B.A third Year (Six semester)

Subject : Urdu

Year : 2023-2024

Name of Project: Urdu gazal ek taraf

Seat Number :

It is certified mentioned the above mentioned person
submitted the project is approved and the said project that
was evaluated is certified by


Guide

Dr Syed Imaduddin
Department of Urdu
Mrs K.S.K college Beed




External examiner

Department of Urdu

NSSR's

**Mrs. Kesharbai sonajirao kshirsagar Alias
Kaku Arts, science and Commerce college
Beed.**

Department of Urdu



Name of student: Syed shahebaz syed ahmed

PRN Number : 2020015200332025

Class : B.A third Year (Six semester)

Subject : Urdu

Year : 2023-2024

Name of Project: Jadid zaraye ibragh aur urdu

Seat Number :

It is certified mentioned the above mentioned person
submitted the project is approved and the said project that
was evaluated is certified by


Guide

Dr Syed Imaduddin
Department of Urdu
Mrs K.S.K college Beed



External examiner
Department of Urdu

Mrs. K.S.K Alias Kaku Arts, Science & Commerce College,
Beed.

Department Of Microbiology
A.Y 2023-2024

Research Project List

M.Sc. F.Y.



Sr.No.	Title Of Research Project	Name Of Student's
1	Microbial tapestry: Investigative Bacterial Colonization Patterns on the Human Skin.	Shaikh Jishan Shagir
		Shaikh Arsalan Ibrahim
		Kundalkar Shrikant Digambar
		Shaikh Akhlaque Riyaz
		Sadafule Vedant Dattatraya
		Londhe Arhit
		Bhalerao Gokul
		Shaikh Tofik
2	Bacteriological Quality of water, A case study of Beed city (MH) India.	Deshmukh Snehal Haribhau
		Siddiqui Jaweriya
		Chumble Rangnath Gopoinath
		Jaiswal Vaibhav Vijaylal
		Bade Bhagyashri
		Bankar Rutuja
		Shinde Priyanka
3	Bacteriological Analysis of water	Kahekasha Basharat Rasheed Ahmed
		Syed Ayesha Parveen Khaja Mazharuddin
		Syed Asma Ateeque
		Momin Umme Ammara Tajammul Ahmed
		Gole Shivani
		Kalike Diksha
		Wadmare Khandu
4	Isolation Of Bacteria from Packed Yogurt.	Gaikwad Pradnya Bhaskar
		Ubale Nikita Mahadev
		Thokal Sakshi Santosh
		Sayed Ayesha Rashid
		Sheikha Anam Mohammed
		Pawar Bhakti
		Rade Abhijeet
5	Isolation Bacteria Pathogen from Dam/Lake/Sea Water/ A case of Study of Beed city (MH) India.	Kate Rushikesh Dattatraya
		Sanap Nilesh Jagannath
		Kaiwade Ajay Rajendra
		Nare Sagar Rajendra
		Pawar Shubham Jalindar
		Puri Dnyaneshwar
		Vyawhare Rushikesh

HOD

Head

Dpt. of Microbiology
Mrs. K.S.K. College Beed



Mrs. K.S.K Alias Kaku Arts, Science & Commerce College,
Beed.

Department Of Microbiology

A.Y 2023-2024

Research Project List

M.Sc. S.Y.

Sr.No.	Title of Research Project	Name of Student's
1	Isolation of cellulose degrading Actinomycetes from soil	Ahire Ahanksha Ramesh
		Mule Pratiksha Rajendra
		Maske Sneha Bhrmhadatta
		Ubale Akshay Kishor
		Bansode Pooja
		Barde Mayuri
		Bhokare Mayur
2	Isolation of pigment Producing Bacteria from Indoor & Outdoor.	Ahire Anamika Bhagwat
		Ghodke Mayuri Bhimrao
		Ghallal Sangram Sudhakar
		Gopalghare Sitaram
		Deshmukh Pranita
		Ghoble Pradnya
3	Canker Causing Bacteria in Citrus Limetta.	Mohare Vaishnavi Ganesh
		Ingole Ishwar
		Jade Manish
		Khose Pawan
		Kute Akash
		Naikware Pawan
		Palwade Amol
4	Microbiological quality of water, A case study of Beed city (Pali) India	Deshmukh Snehal Haribhau
		Waybase Neha Martand
		Chumble Rangnath Gopoinath
		Jaiswal Vaibhav Vijaylal



	Pansare Mahendra
	Salunke Sakshi
	Saudarnal Sacha
	Somyaje Nikhil




HOD
Head

Dpt. of Microbiology
Mrs. K.S.K. College Beed

Mrs. Keshrba Sonajirao Kshirsagar,

Arts, Science & Commerce College, Beed

CERTIFICATE



This is to certify that

Miss. Ghodke Mayuri Bhimrao

Miss. Ahire Anamika Bhagwat

Mr. Ghallal Sangram Sudhakar

Student of M.Sc. 2nd year Microbiology have successfully completed the research project entitled "*Isolation of pigment producing bacteria from Indoor & Outdoor air*" during the academic year 2023-2024. Hence certified.

Bligite
23/04/24
Project incharge

Head of Department

Heas
Dpt. of Microbiology
Mrs. K.S.K. College Beed

[Signature]
Examiner: -

Date: -



Mrs. Keshrbai Sonajirao Kshirsagar,
Arts, Science & Commerce College, Beed.

CERTIFICATE

This is to certify that

Miss. Mule Pratiksha Rajendra

Miss. Ahire Akanksha Ramesh

Miss. Maske Sneha Bramhadatta

Mr. Ubale Akshay Kishor

Students of M.Sc. 2nd year Microbiology have successfully completed the research project entitled "*Isolation of Cellulose Degrading Actinomycetes from Soil*" during the academic year 2023-2024. Hence certified.

[Signature]
23/04/24
Project incharge

[Signature]
23/04/24
Head of Department
Head
Dpt. of Microbiology
Mrs. K. S. K. College Beed

[Signature]
Examiner:-

Date :- 23-4-2024

CERTIFICATE

Mrs. Kesharbai Sonajirao Kshirsaga
Arts, Science & Commerce College, Beed

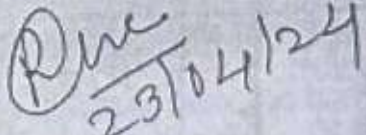


CERTIFICATE

Ms. Deshmukh Snehal Haribhau
Ms. Waybase Neha Martand
Mr. Chumble Rangnath Gopichan
Mr. Jaiswal Vaibhav Vijaylal

Above students are of M.Sc. 2nd Year Microbiology Have successfully completed the course project report in Microbiology during the academic year 2023-2024


Project incharge


23/04/24
Head of Department

Examiner :-

Date:-

CERTIFICATE



This is to Certify that

Ms. Ghobale Pradnya Ashok

Ms. Barde Mayuri Kailas

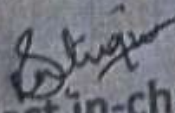
Ms. Salunke Sakshi Santosh

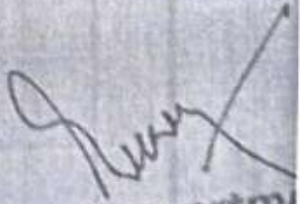
Ms. Bansode Pooja Rohidas

Ms. Saundarmal Sneha Dattatray

Are student of M.Sc. Final Year Microbiology has
successfully completed the course of Project report in Microbiology
During the Academic year of 2023-2024 .

Hence certified


Project in-charge


Head of Department

Date:

Examiner:

CERTIFICATE

Mrs. Keshrbai Sonajirao Kshirsagar,
Arts, Science & Commerce College, Beed.



CERTIFICATE

This is to certify that

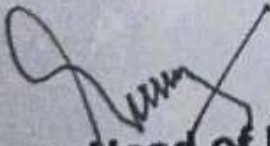
Mr Sitaram Tatyaram Gopalghare

Mr Mayur Satish Bhokre

Mr Ishwar Ankush Ingole

student of M.Sc 2nd year Microbiology

Has successfully complete the course project report in Microbiology
In during the academic year 2023-2024


Project incharge Head of Department

Examiner:-





Date :-


MRS. KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU ARTS, SCIENCE & COMMERCE COLLEGE BEED
 Year 2023-24


Navgan Shikshan Sanstha Rajuri's(N.)
 M.Sc Second year (Sem-IV)
 CHEO-424 Research Project
 Allotment of Students for PG Dissertation (Project work)



Sr No.	NAME	MOBILE NO	Title of Project	Name of Guide
1.	GAIKWAD SHREYA ABASAHEB	9420476661	One Pot Three Component Solvent Free synthesis of N-Substitued Tetrazoles using RuO2/MMT	Dr. P. R. Khakre
2.	ZODGE PRATIK KISHANRAO	9604962073	One Pot Three Component Solvent Free synthesis of N-Substitued Tetrazoles using RuO2/MMT	
3.	AJABE MADHAVI PRALHADRAO	9355100100	One Pot Three Component Solvent Free synthesis of N-Substitued Tetrazoles using RuO2/MMT	
4.	SAWANT NEHA RAMNATH	8793737314	One Pot Three Component Solvent Free synthesis of N-Substitued Tetrazoles using RuO2/MMT	
5.	BANSODE PRACHI BHARAT	7028619877	Synthesis Of Isoxazolines	
6.	KHISTE NITIN ATMARAM	9970995309	Synthesis Of Isoxazolines	
7.	NAGARE POOJA MACHHINDRA	8369863519	Synthesis Of Isoxazolines	
8.	KHAMBEKAR RUTUJA RAVISING	8975479421	Synthesis Of Isoxazolines	
9.	CHAVAN SUDHIR CHAGAN	8275727375	Synthesis of Fused indeno pyrimidine derivatives	
10.	KALE SHRADDHA KALYAN	8806927701	Synthesis of Fused indeno pyrimidine derivatives	
11.	KADAM DNYANESHWARI DHAIRYASHIL	8625976905	Synthesis of Fused indeno pyrimidine derivatives	
12.	BHALSHANKAR VARSHA ASHOK	7507790157	Synthesis of Fused indeno pyrimidine derivatives	

	GHOGARE SNEHAL LAHU	8007862370	Analysis of heavy metal contaminants in environmental samples-water and soil	Dr. S. B. Maulage  
14.	DHORE YUVARAJ YOGIRAJ	9075610535	Analysis of heavy metal contaminants in environmental samples-water and soil	
15.	RATHOD PALLAVI UTTAM	9403902780	Analysis of heavy metal contaminants in environmental samples-water and soil	
16.	DHERE SANCHETI SANDIPAN	9022940604	Analysis of heavy metal contaminants in environmental samples-water and soil	
17.	PANCHAL SACHIN DATTATRAY	8408860098	Synthesis and characterization of Zinc complex from Salicylaldehyde	Dr. S. V. Gayakwad 
18.	KSHIRSAGAR SAGAR SHARAD	9765545549	Synthesis and characterization of Zinc complex from Salicylaldehyde	
19.	KHAN SADAF KHANAM AZIZ AIMED KHAN	9890759805	Synthesis and characterization of Zinc complex from Salicylaldehyde	
20.	PATEKAR RUTIK LAHU	9075133161	Synthesis and characterization of Zinc complex from Salicylaldehyde	
21.	MULE VIKAS GOPICHAND	9145548614	Assessment of Ground Water Quality Analysis of the beed city	Mr. G. A. Deshmane 
22.	PHAD PRATIKSHA RAMESH	9561352282	Assessment of Ground Water Quality Analysis of the beed city	
23.	SIRSAT PRANALI KALYAN	8369863519	Assessment of Ground Water Quality Analysis of the beed city	
24.	KAMBLE ROHAN DADA	7083481041	Assessment of Ground Water Quality Analysis of the beed city	

ONDE DIPALI CHANDRAKANT	9657301982	1,3,7-Trimethylxanthine	Mr. A. A. Chavan 
MISAL RUSHIKESH SHRIDHAR	8308999266	1,3,7-Trimethylxanthine	
27. JADHAV PRIYANKA ASHOK	9356719171	1,3,7-Trimethylxanthine	
28. WAGH MANGAL BABANRAO	7798663563	1,3,7-Trimethylxanthine	


 Head of the Department
 Head
 Department of Chemistry
 Mrs. K.S.K. College, Beed


 Principal

Navgan Shikshan Sanstha Rajuri (N)


**Mrs. Kesharbai Sonajirao Kshirsagar Alias Kaku Arts,
Science & Commerce College, Beed-431122**


DEPARTMENT OF CHEMISTRY

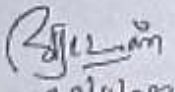
CERTIFICATE

This is to certify that, the dissertation titled "Synthesis and characterization of zinc complex From salicylaldehyde" is bonafide record of the research work carried out by PATEKAR RUTIK LAHU under my supervision and guidance in partial fulfilment of the requirement for the award of degree of Master of Science in Chemistry (Academic year 2023-24) of Mrs.Kesharbai Sonajirao Kshirsagar alias Kaku Arts, Science and Commerce College Beed affiliated to Dr. Babasaheb Ambedkar Marathwada University Chhatrapati Sambhaji Nagar.

Hence, certified.


Dr. S.V. Gayakwad
(Project Supervisor)


Dr. P. R. Khakre
HOD


29/4/2024
External Examiner



Seat no :- GRD402207



Navgan Shikshan Sanstha Rajuri (N)
Mrs. Kesharbai Sonajirao Kshirsagar Alias
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Website-ksh.collegebeed.com E-mail-kshbeed123@rediffmail.com Ph.(02442)222641 Fax-02442)230197

CERTIFICATE

This is to certify that, the dissertation titled **Synthesis of fused indeno pyrimidine derivatives** is bonafide record of the research work carried out by **Sudhir Chagan Chavan** under the supervision and guidance **Dr. S.B Maulage** in partial fulfilment of the requirement for the award of degree of **Master of Science in Chemistry** of Mrs. Kesharbai Sonajirao Kshirsagar alias Kaku Arts, Science and Commerce College Beed affiliated to Dr. Babasaheb Ambedkar Marathwada University Chhatrapati Sambhaji Nagar.

Dr. S. B. Maulage
Professor in chemistry

Dr. P. R. Khakre
Head, Dept. of chemistry

Place :- Beed

Date :- 25/04/2024

Rajeshan
(Dr. A. J. Chavan)
29/4/2024



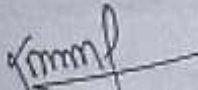



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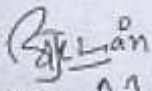
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Dr. S. B. Maulage
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Date :- 23/04/2024


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29/04/2024





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Dr. S. B. Maulage
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Dr. P. R. Khakre
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Date :- 29/04/2024

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29/04/2024



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DEPARTMENT OF CHEMISTRY

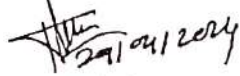
CERTIFICATE

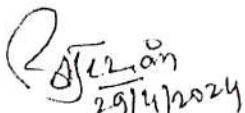
This is to certify that, the dissertation titled "Synthesis and characterization of zinc complex From salicyladehyde" is bonafide record of the research work carried out by PANCHAL SACHIN DATTATRAY under my supervision and guidance in partial fulfilment of the requirement for the award of degree of Master of Science in Chemistry (Academic year 2023-24) of Mrs.Kesharbai Sonajirao Kshirsagar alias Kaku Arts, Science and Commerce College Beed affiliated to Dr. Babasaheb Ambedkar Marathwada University Chhatrapati Sambhaji Nagar.

Hence, certified.

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Dr. S.V. Gayakwad
(Project Supervisor)


Dr. P. R. Khakre
HOD


External Examiner



serit No: GR0402205

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DEPARTMENT OF CHEMISTRY



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This is to certify that, the dissertation titled "Synthesis and characterization of zinc complex From salicylaldehyde" is bonafide record of the research work carried out by SADAF KHANAM under my supervision and guidance in partial fulfilment of the requirement for the award of degree of Master of Science in Chemistry (Academic year 2023-24) of Mrs.Kesharbai Sonajirao Kshirsagar alias Kaku Arts, Science and Commerce College Beed affiliated to Dr. Babasaheb Ambedkar Marathwada University Chhatrapati Sambhaji Nagar.

Hence, certified.

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Dr. P. R. Khakre
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External Examiner



नवगण शिक्षण संस्था राजुरी (ज)

सौ. केशरबाई सोनाजीराव क्षीरसागर ऊर्फ काकू कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

इतिहास विभाग

अक्र.	परीक्षा क्रमांक	PRN No	विद्यार्थ्यांचे नाव	प्रकल्प विषय	सही
1	NFB605515	2021015200278642	Chavan Nutan Anurath	Mahatma Jotiba Phule	सही
2	NFB605531	20210152003973556	Ghorad Satish Harishchandra	Fort of maharashn fort	सही
3	NFB605545	2021015200346041	Ingole Pratiksha Chandrakant	TEMPLES OF India	सही
4	NFB605567	2021015200373923	Kotule Nita Mahadev	Fort Information (BAGLAD PURA NDR)	Pratiksha
5	NFB605580	2021015200251386	Misal Vitthal Ram	Fort Information.	सही
6	NFB605608	2021015200256171	Sapkal Nikita Laxman	Lehaders Information	सही
7	NFB605616	2021015200257874	Solankar Mahesh Ramesh	सुवर्णी शिवाजी महाराज	सही
8	NFB605618	2021015200271487	Surwase Raviraj Tulshiram	Chhatrapati shivaji Maharaj	सही
9	NFB605629	2021015200445994	Waghmare Aditya Vilas	Freedom Fighters.	सही
10	NFB605632	2021015200277991	Yeole Shubham Bharat	सही	सही

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पा. सौ. डॉ. शिंदे म. दही.

इतिहास विभाग

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बहिःस्थ परिष्कार





डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ

M. K. S. K. College Beed

M/A 20



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HURRY

P. 87

५५

वास्तव्यवर्ती परीक्षार्थींची संख्या

10

सूचना : या धपत्रातील परीक्षार्थींचे वैदक क्रमांक पर्यवेक्षकाने अनुपस्थिती क्रमांकासह कमाने लिहवित.

क्र.सं.	वैदक क्रमांक	उत्तर पत्रिका क्रमांक	परीक्षार्थीची संख्या	अ.क्र.	वैदक क्रमांक	उत्तर पत्रिका क्रमांक	परीक्षार्थीची संख्या
१	NBP 605515		Shubham	२१			
२	NBP 605531 NBP 605531		Shubham	२२			
३	NBP 605545		Pratiksha	२३			
४	NBP 605567		Shubham	२४			
५	NBP 605580		Shubham	२५			
६	NBP 605608		Shubham	२६			
७	NBP 605616		Shubham	२७			
८	NBP 605618		Shubham	२८			
९	NBP 605625		Shubham	२९			
१०	NBP 605632		Shubham	३०			
११	NBP 605581		Satish	३१			
१२				३२			
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१४				३४			
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१७				३७			
१८				३८			
१९				३९			
२०				४०			

एकूण उपस्थित परीक्षार्थी

10

एकूण अनुपस्थित परीक्षार्थी

0

केंद्र प्रमुख/वाकी सहाय

वास्तव्य प्रमुख/वाकी सहाय

Shubham

Shubham

सूचना :-

१. प्रत्येक वर्षी वार्षिक शिक्षणसंस्थेतील वार्षिक परीक्षा करावी.
२. मराठवाडा परीक्षा प्रायोजक-द्वारे कार्यवाहीसाठी केंद्र प्रमुख/वाकी सहाय करावे.
३. परीक्षार्थींच्या उत्तरांची कमा परीक्षार्थींच्या कमाने लावून मुख्यपत्रात उत्तरपत्रिकांचे वडन करावे.



Dr. Babasaheb Ambedkar Marathwada University

University Campus, Chhatrapati Sambhaji Nagar 431004, Maharashtra (India).

Recognized with 'A' Grade
by the Council for Higher Education
Blank Mark List For

Recognized by UGC, New Delhi (2011) NAAC



B.A - Regular-P-2013 - T.Y.B.A. - Sixth Semester For April/May-2024

College - Mrs. K.S.K. Alis Kaku Arts, Science and Commerce College, Beed (34), Shivaji Nagar, Beed, Dist. Beed, Maharashtra 431122

Paper Name - History Project Based on (Paper-XII & Paper-XVI) (HIS-15-13)

Project Work UA (Max. Marks - 100 Min. Marks - 60) (Weight of Student - 10)

Sl. No.	Seat Number	PRN	Student Name	Marks		Total
1	NBF605515	2021015200278642	CHAVAN NUTAN ANURATHI	80	20	100
2	NBF605531	2019015200397556	GHORAD SATISH HARISHCHANDRA	76	16	92
3	NBF605545	2020015200346041	INGOLE PRATIKSHA GHANDRAKANT	75	15	90
4	NBF605567	2020015200373923	KOTULE NITA MAHADEV	75	15	90
5	NBF605580	2021015200251386	MISAL VITTHAL RAM	72	18	90
6	NBF605608	2021015200256171	SAPKAL NIKITA LAXMAN	50	15	65
7	NBF605616	2021015200257874	SOLANKAR MAHESH RAMESH	46	14	60
8	NBF605618	2021015200271487	SURWASE RAVIRAJ TULSHIRAM	80	10	90
9	NBF605629	2020015200445994	WAGHMARE ADITYA VILAS	55	15	70
10	NBF605632	2021015200277991	YEOLE SHUBHAM BHARAT	48	12	60
				47	13	60

Shubh
Dr. Shubh A.V.

[Signature]
Signature of Examiner

Date



नवगण शिक्षण संस्था राजुरी (न)

सौ. के. एस. के. महाविद्यालय बीड
इतिहास विभाग
प्रमाणपत्र

प्रमाणित करण्यात येथे की, कुमार/कुमारी, शुद्धाळ लिडिता निमि
..... याने/हिनने इतिहास विषयाच्या पेपर क्र. XII आणि XVI साठी
नेत्यांच्या भाषिणी या विषयावर प्रकल्प सादर
केला. सदरील प्रकल्प मान्य करण्यात आला. सदरील प्रकल्पाचे मुल्यांकन करण्यात
आले, करिता प्रमाणित करण्यात येते.

दिनांक: 1 / 6 / 2028

Ashuro
मार्गदर्शक

सौ. डॉ. शिंदे ए. व्ही.

इतिहास विभाग

सौ. के. एस. के. महाविद्यालय, बीड.

Dr. Sheikh, H. I

बहिःस्थ परिक्षक

Dr. Sheikh, H. I

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नवगण शिक्षण संस्था राजुरी (न)

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प्रमाणपत्र

प्रमाणित करण्यात येथे की, कुमोर/कुमारी, ... शिंदे ... शिंदे ...
... याने/हिनं इतिहास विषयाच्या पेपर क्र. XII आणि XVI साठी ...
... शिवाजी महाराजांचे ... या विषयावर प्रकल्प सादर
केला. सदरील प्रकल्प मान्य करण्यात आला. सदरील प्रकल्पाचे मुल्यांकन करण्यात
आले, करिता प्रमाणित करण्यात येते.

दिनांक: 3/4/2024

Asheer
मार्गदर्शक

सौ. डॉ. शिंदे ए. व्ही.

इतिहास विभाग

सौ. के. एस. के. महाविद्यालय, बीड.

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100

Dr. Shaikh, H. I.
बहिःस्थ परिक्षक

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इतिहास विभाग

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प्रमाणित करण्यात येथे की, कुमार/कुमारी, सुखदे रविराज तुळशीराम
याने/हिने इतिहास विषयाच्या पेपर क्र. XII आणि XVI साठी
हस्तपुस्तिका विषयाची साहाय्य या विषयावर प्रकल्प सादर
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आले, करिता प्रमाणित करण्यात येते.

दिनांक : ०७/०३/२०२४

Ashudh
मार्गदर्शक

प्रा. सौ. डॉ. शिंदे ए. व्ही.

इतिहास विभाग

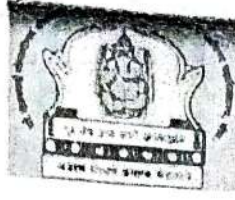
सौ. के. एस. के. महाविद्यालय, बीड.

Dr. Sheikh. H. I
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Dr. Sheikh. H. I

इतिहास विभाग

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नवगण शिक्षण संस्था राजुरी (न)

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प्रमाणपत्र

प्रमाणित करण्यात येथे की, कुमारे/कुमारी, ... वाघभारे आदित्य विलास ...
... याने हिम इतिहास विषयाच्या पेपर क्र. XII आणि XVI साठी ...
... शौर, समाज, सुधाशुक्र ... या विषयावर प्रकल्प सादर
केला. सदरील प्रकल्प मान्य करण्यात आला. सदरील प्रकल्पाचे मुल्यांकन करण्यात
आले, करिता प्रमाणित करण्यात येते.

दिनांक : 05/4/2024

Shauk
मार्गदर्शक

प्रा. सौ. डॉ. शिंदे ए. व्ही.

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सौ. के. एस. के. महाविद्यालय, बीड.

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प्रमाणित करण्यात येथे की, कुमार/कुमारी, येवले शुभम भारत
..... याने/हिने इतिहास विषयाच्या पेपर क्र. XII आणि XVI साठी
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आले. करिता प्रमाणित करण्यात येते.

दिनांक: 30/03/2024

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इतिहास विभाग

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प्रमाणित करण्यात येथे की, कुमार/कुमारी, सुखले, रविराम, तुळशीराम
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..... या विषयावर प्रकल्प सादर
केला. सदरील प्रकल्प मान्य करण्यात आला. सदरील प्रकल्पाचे मुल्यांकन करण्यात
आले, करिता प्रमाणित करण्यात येते.

दिनांक : १०/०३/२०२४

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प्रमाणपत्र

प्रमाणित करण्यात येथे की, कुमार/कुमारी, चव्हाण, नुतन, अनुरध
..... याने/हिनने इतिहास विषयाच्या पेपर क्र. XII आणि XVI साठी
सहाय्या, जोतीराव, फुले या विषयावर प्रकल्प सादर
केला. सदरील प्रकल्प मान्य करण्यात आला. सदरील प्रकल्पाचे मुल्यांकन करण्यात
आले, करिता प्रमाणित करण्यात येते.

दिनांक: 27/3/2024

मार्गदर्शक

प्रा. सौ. डॉ. शिंदे ए. व्ही.

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बहिःस्थ परिक्षक

Dr. Shaikh. H. I.

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प्रमाणपत्र

प्रमाणित करण्यात येथे की, कुमार/कुमारी, Mohammad Fattih
..... याने/हिने इतिहास विषयाच्या पेपर क्र. XII आणि XVI साठी
..... forts of Maharashtra या विषयावर प्रकल्प सादर
केला सदरील प्रकल्प मान्य करण्यात आला. सदरील प्रकल्पाचे मुल्यांकन करण्यात आले.
करिता प्रमाणित करण्यात येते.

दिनांक : 13 / 4 / 2024

90
100

Ashwath
मार्गदर्शक

प्रा. सौ. डॉ. शिंदे ए. व्ही.
इतिहास विभाग

सौ. के. एस. के. महाविद्यालय, बीड

Dr. Sheikh H. I.

बहिस्थ परिक्षक
Dr. Sheikh H. I.

इतिहास विभाग
Milliya college Beed



नवगण शिक्षण संस्था राजुरी (न)

सौ. के. एस. के. महाविद्यालय बीड

इतिहास विभाग

प्रमाणपत्र

प्रमाणित करण्यात येथे की, कुमार/कुमारी, --- इतिहास - प्रतिष्ठा - अंधकांत
----- याने/हिने इतिहास विषयाच्या पेपर क्र. XII आणि XVI साठी -----
.....TEMPLES OF India..... या विषयावर प्रकल्प सादर
केला. सदरील प्रकल्प मान्य करण्यात आला. सदरील प्रकल्पाचे मुल्यांकन करण्यात
आले, करिता प्रमाणित करण्यात येते.

दिनांक : 26/03/2024


मार्गदर्शक

प्रा. सौ. डॉ. शिंदे ए. व्ही.

इतिहास विभाग

सौ. के. एस. के. महाविद्यालय, बीड.


बहिःस्थ परीक्षक

Dr. Shantich. H. I.

इतिहास विभाग

Milliya college Beed



नवगण शिक्षण संस्था राजुरी (न)

सौ. के. एस. के. महाविद्यालय बीड
इतिहास विभाग
प्रमाणपत्र

प्रमाणित करण्यात येथे की, कुमार/कुमारी: कोडले निता महोदय
याने/हिने इतिहास विषयाच्या पेपर क्र. XII आणि XVI साठी - मित्रवर्तनी
माहिती (पुरंदर, रायगड, जेजुरी, पुल्हाळी) या विषयावर प्रकल्प सादर
केला. सदरील प्रकल्प मान्य करण्यात आला. सदरील प्रकल्पाचे मुल्यांकन करण्यात
आले, करिता प्रमाणित करण्यात येते.

दिनांक: 28/3/2024

Ashwadh
भारगदर्शक

प्रा. सौ. डॉ. शिंदे ए. व्ही.

इतिहास विभाग

सौ. के. एस. के. महाविद्यालय, बीड.

Dr. Shaikh H. I.

बहिःस्थ परिक्षक

Dr. Shaikh H. I.

इतिहास विभाग



नवगण शिक्षण संस्था राजुरी (न)

सौ. के. एस. के. महाविद्यालय, बीड

इतिहास विभाग

प्रमाणपत्र

प्रमाणित करण्यात येथे की, कुमार/कुमारी, मिथाळ पिढळ शंभू
याने/हिनं इतिहास विषयाच्या पेपर क्र. XII आणि XVI साठी
सादर प्रकल्प माहिती या विषयावर प्रकल्प सादर
केला. सदरील प्रकल्प मान्य करण्यात आला. सदरील प्रकल्पाचे मुल्यांकन करण्यात
आले, करिता प्रमाणित करण्यात येते.

दिनांक: 20/03/2024

मार्गदर्शक

प्रा. सौ. डॉ. शिंदे ए. व्ही.

इतिहास विभाग

सौ. के. एस. के. महाविद्यालय, बीड.

बहिःस्थ परिक्षक

Dr. Shailech, H. I

इतिहास विभाग

Milliya college Bred

नवगण शिक्षण संस्था राजुरीचे



सौ. के. एस. के. महाविद्यालय, बीड

अर्थशास्त्र विभाग

❀ प्रमाणपत्र ❀


प्रमाणित करण्यात येते की, कुमार/कुमारी. शंका देविका मच्छिंद्र
याने/हिनने अर्थशास्त्र विषयाच्या पेपर क्र. XII आणि XVI
साठी जिल्हा दुग्धव्यवसाय विकास विभाग या विषयावर प्रकल्प
सादर केला. सदरील प्रकल्प मान्य/अमान्य करण्यात आला. सदरील
प्रकल्पाचे मुल्यांकन करण्यात आले.

करिता प्रमाणित करण्यात येते.

दिनांक : 27/03/24


मार्गदर्शक

सौ. वी. वी. वि. एम.
अर्थशास्त्र विभाग प्रमुख
सौ. के. एस. के. महाविद्यालय बीड.


बहिःस्थ परिष्कृत
अर्थशास्त्र विभाग प्रमुख
शि. से. शि. प्र. मंडळाचे
कला वरिष्ठ महाविद्यालय
नांदूर (वाट). ता. के. ज. जि. बीड.




गुण विभागणी तक्ता

बी.ए.तृतीय वर्ष


अ.क्र.	प्रकल्पाचे नाव व कार्य	एकूण गुण	मिळालेले गुण
१.	प्रकल्पाचे नाव	०५	०४
२.	प्रस्तावना	०५	०४
३.	संशोधन पध्दती / आणि संशोधन आराखडा	०५	०३
४.	गृहितके / उद्दिष्टे	०५	०३
५.	विषय विवेचन	५०	४२
६.	निष्कर्ष / शिफारशी	०५	०३
७.	संदर्भसूची	०५	०४
८.	तोंडी परीक्षा	२०	१७
	एकूण	१००	

विषय ~~जिसेट~~ ~~कुल~~ ~~प्रश्नाय~~ ~~विभाग~~ ~~विभाग~~ ~~बी.ए.~~

	Project	Viva	Total
Maximum Marks	८०	२०	१००
Marks Obtained	६३	१७	८०


अध्यक्षशास्त्र विभाग प्रमुख
शि.शे.शि.प्र.मंडळाचे
कला वरिष्ठ महाविद्यालय
नांदेड (पाट), ल.फेज, जि.बीड.


अध्यक्ष


विभाग प्रमुख
बी.ए.तृतीय वि.प्र.म.
अध्यक्षशास्त्र विभाग प्रमुख
बी.ए.तृतीय वर्ष

माहिती

सो. केशवराव सोनाजीराव श्रीसागर उर्फ काकू कला: विज्ञान-
व वाणिज्य महाविद्यालय, बीड.

समाज शास्त्र विभाग

शे. वर्ष: 2023-2024

B.A.III year project List

Paper. No - XII & XVI



S. NO.	Name of student	Class	Seat Number	Title of the project
1.	trahakunde Sandip Sakhdev.	B.A.III	NBF 605573	मन फुले यांचे सामाजिक कार्य.
2.	Kundse Yogesh Jaganvath	B.A.III	NBF 605570	वाल्मजुरी एक सामाजिक समस्या
3.	Rode Abhishek Anjan	B.A.III	NBF 605605	कांडेबिक हिंसाचार


Head Dept. of Sociology
Mrs. K.S.K. College, Beed.

नवगण शिक्षण संस्था राजूरीचे



सौ. के. एस्. के. महाविद्यालय, बीड

समाजशास्त्र विभाग


* प्रमाणपत्र *


प्रमाणित करण्यात येते की, कुमार /कुमारी ~~महाकुंडे सांदिप सुखदेव~~
याने / हिने समाजशास्त्र विषयाच्या पेपर क्र. XII आणि XVI साठी ~~म. फुलें यांचे~~
~~सामाजिक कार्य~~ या विषयावर प्रकल्प सादर केला. सदरील प्रकल्प मान्य करण्यात
आला. सदरील प्रकल्पाचे मुल्यांकन करण्यात आले.

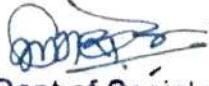
करिता प्रमाणित करण्यात येते.

Beet No: HBF-605573

दिनांक : 30/03/2024


मागदर्शक : डॉ. राठोड की. जे.
समाजशास्त्र विभाग प्रमुख
सौ. के. एस्. के. महाविद्यालय,
बीड.


बाह्य परीक्षक
उ. डी. एम. लंगलखड
जयभवानी शिक्षण प्रसारक मंडळ
महिला महाविद्यालय, गेवराई
मि. बीड.


Head Dept. of Sociology
Mrs. K.S.K. College, Beed.



नवगण शिक्षण संस्था राजुरीचे

85
100

सौ.के.एस.के.महाविद्यालय, बीड

समाजशास्त्र विभाग

-: प्रमाणपत्र :-

प्रमाणित करण्यात येते की, कुमार / कुमारी. योगेश नगणाय, पुं
याने समाजशास्त्र विषयाचा पेपर क्र. XII आणि XVI साठी
योगेश नगणाय, पुं या विषयावर प्रकल्प सादर केला.
सदरील प्रकल्प मान्य करण्यात आला. सदरील प्रकल्पाचे मुल्यांकन करण्यात
आले.

करीता प्रमाणित करण्यात येते.

Seat NO

दिनांक 28/03/2024

NBF - 605570

मार्गदर्शक

डॉ. राठोड बी.जे.

समाजशास्त्र विभाग प्रमुख

सौ.के.एस.के.महाविद्यालय, बीड

बाह्य परीक्षक

डॉ. डी.एम. तेंडुकर

जयभ्रमणी शिक्षण, कर्नाट

महिला महाविद्यालय

ता. गेवराई जिल्हा

Head Dept. of Sociology

Mrs. K.S.K. College, Beed



नवगण शिक्षण संस्था राजुरी (म)

सौ. के. एस. के. महाविद्यालय
समाजशात्र विभाग
प्रमाणपत्र

प्रमाणित करण्यात येथे की, कुमार/कुमारी, - उडे भागिचेठ इंतव
याने/हिने समाजशात्र विषयाच्या पेपर क्र. XII आणि XVI साठी
कोडिक हिसावा या विषयावर प्रकल्प
सादर केला. सदरील प्रकल्प मान्य करण्यात आला. सदरील प्रकल्पाचे मुल्याकन
करण्यात आले, करिता प्रमाणित करण्यात येते.

Seal No NBF 605605

दिनांक 30/3/2024

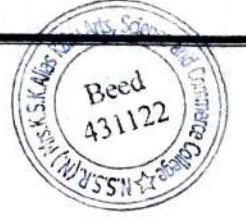
मागदशक 30/3/24

प्रा. डॉ. राठोड बी. जे.
समाजशात्र विभाग

सौ. के. एस. के. महाविद्यालय, बीड.

30/3/2024
बहिःस्थ परिक्षक
डॉ. उडिलमः तगवसाड
ब्रह्मधानी चौलंग गोरख
समाजशात्र विभाग

Head Dept. of Sociology
Mrs. K.S.K. College, Beed



बी. ए. तृतीय वर्ष
राज्यशास्त्र
(प्रकल्प कार्य)
मार्च / एप्रिल
२०२३-२४

Navgan Shikshan Sanstha Rajuri (N)

**MRS. KESHARBAI SONAJIRAO KSHIRSAGAR ALIAS KAKU ARTS, SCIENCE
AND COMMERCE COLLEGE, BEED -431122**

DEPARTMENT OF POLITICAL SCIENCE

PROJECT STUDENT LIST

ACADEMIC YEAR- 2023-24



SR.NO.	PRN NO.	STUDENT NAME	PROJECT NAME
1.	2021015200389401	Ashetkar Abhishek Rajesh	Women Empowerment (Mahila Sablikaran)
2.	2021015200251316	Gaikwad Anjali Arun	Voter Behavior in Election Process (Nivadnuk Prakriyetil Matdar Vartavnuk Pravah)
3.	2021015200336402	Harbhak rohini Diliprao	Election Commission of India (Bhartiya Nivadnuk Aayog)
4.	2021015200378916	Raut Abhishek Rajendra	Panchayat raj And Rural Development (Panchayat raj v Gramin Vikas)
5.	2021015200436442	Raut Suvarna Dattatray	Indian party system (Bhartiya Paksh Padhati)


Subject Teacher

Head of the Department

Principal



डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद
सौ. केशरबाई सोनाजीराव क्षीरसागर ऊर्फ काकु कला, विज्ञान व
वाणिज्य महाविद्यालय, बीड

शैक्षणिक वर्ष-२०२३-२४

प्रकल्प लेखन

विद्यार्थ्याचे नांव : Raut Abhishek Rajendra

विद्यार्थ्याचा PRN नंबर : 20 20015 200378916

वर्ग : B.A. III

प्रकल्प विषय : पंचायत राज व ग्रामीण विकास


मागदर्शक:

प्रा.कदम जी.आर.

सहायक प्राध्यापक राज्यशास्त्र विभाग



डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद
सौ. केशरबाई सोनाजीराव क्षीरसागर ऊर्फ काकु कला, विज्ञान व
वाणिज्य महाविद्यालय, बीड

शैक्षणिक वर्ष-२०२३-२४

प्रकल्प लेखन

विद्यार्थ्याचे नांव : Raut Abhishek Rajendra

विद्यार्थ्याचा PRN नंबर : 20 20015 200378916

वर्ग : B.A. III

प्रकल्प विषय : पंचरात्र राज व वृत्तीय विकास


मागदर्शक:

प्रा.कदम जी.आर.

सहायक प्राध्यापक राज्यशास्त्र विभाग



नवगण शिक्षण संस्था राजुरी (न.)

सौ. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू
कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

प्रकल्प मूल्यांकन प्रमाणपत्र

शैक्षणिक वर्ष-२०२३-२४

मार्च - एप्रिल

विद्यार्थी / विद्यार्थिनी Raut Abhishek Rajendra

याने / हिने बी.ए.तृतीय वर्ष (राज्यशास्त्र) प्रकल्प कार्यांतर्गत पंचायत

राज्य व सामाजिक विकास या विषयावर प्रस्तुत प्रकल्प कार्य स्वतः केलेले
असून ते त्याने

/तिने समाधानकारकपणे लिहलेले आहे.


दिनांक:- 28/03/2024

आसन क्रमांक:- NBF 605598

प्राप्त गुण:-

$\frac{20}{13} + \frac{80}{62} = \frac{100}{75}$


बाह्य परीक्षक


अंतर्गत परीक्षक


विभाग प्रमुख


प्राचार्य



डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद

सौ. केशरबाई सोनाजीराव क्षीरसागर ऊर्फ काकू कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

शैक्षणिक वर्ष 2023-24

प्रकल्प लेखन

विद्यार्थ्यांचे नांव : शकुंत सुवर्णा दत्तात्रय

विद्यार्थ्यांचा PRN नंबर : 20200150200436442

वर्ग : बी. ए. तृतीय वर्ष

प्रकल्प विषय : भारतीय पक्ष पद्धती

: मार्गदर्शक:



प्रा.कदम जी.आर.

सहायक प्राध्यापक राज्यशास्त्र विभाग



डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद
सौ. केशरबाई सोनाजीराव क्षीरसागर ऊर्फ काकु कला, विज्ञान व
वाणिज्य महाविद्यालय, बीड

शैक्षणिक वर्ष २०२३-२४

प्रकल्प लेखन

विद्यार्थ्यांचे नांव : हारक रोहिणी दिलीपराव

विद्यार्थ्यांचा PRN नंबर : 202405200336402

वर्ग : B.A. III

प्रकल्प विषय : भारतीय निवडूक अर्थशास्त्र

मार्गदर्शक:

प्रा.डॉ.पांडुरंग सुतार

सहायक प्राध्यापक राज्यशास्त्र विभाग



नवगण शिक्षण संस्था राजुरी (न.)

सौ. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू
कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

प्रकल्प मूल्यांकन प्रमाणपत्र

शैक्षणिक वर्ष-२०२३-२४

मार्च - एप्रिल

विद्यार्थी / विद्यार्थिनी हारबक रोहिणी दिलीपराव

याने /हिने बी.ए.तृतीय वर्ष (राज्यशास्त्र) प्रकल्प कार्यांतर्गत भारतीय

निवडणूक आयोग या विषयावर प्रस्तुत प्रकल्प कार्य स्वतः केलेले
असून ते त्याने

/तिने समाधानकारकपणे लिहलेले आहे.

दिनांक:-

आसन क्रमांक:-

प्राप्त गुण:-

$\frac{20}{15} + \frac{80}{75} = 100$

बाह्य परीक्षक

अंतर्गत परीक्षक

विभाग प्रमुख

प्राचार्य



डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद
सौ. केशरबाई सोनाजीराव क्षीरसागर ऊर्फ काकु कला, विज्ञान व
वाणिज्य महाविद्यालय, बीड

शैक्षणिक वर्ष २०२३-२४

प्रकल्प लेखन

विद्यार्थ्याचे नांव : गायकवाड अंजली अरुण

विद्यार्थ्याचा PRN नंबर : 2021015200261316

वर्ग : B.A. III

प्रकल्प विषय : निवडून घेतलेल्या प्राकृतिक वसाहतीतून घेतलेल्या वस्तूंचा प्रवाह

मार्गदर्शक:

प्रा.डॉ.पांडुरंग सुतार

सहायक प्राध्यापक राज्यशास्त्र विभाग



नवगण शिक्षण संस्था राजुरी (न.)

सौ. कैशरबाई सोनाजीराव क्षीरसागर उर्फ काकू
कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

प्रकल्प मूल्यांकन प्रमाणपत्र

शैक्षणिक वर्ष-२०२३-२४

मार्च - एप्रिल

विद्यार्थी / विद्यार्थिनी गायकवाड अंजली अरुण

याने / हिने बी.ए.तृतीय वर्ष (राज्यशास्त्र) प्रकल्प कार्यांतर्गत निवडणुक

प्रश्नि या विषयावर प्रस्तुत प्रकल्प कार्य स्वतः केलेले
असून ते त्याने प्रक्रियेतील मतदार वर्तणुक स्वाह

/तिने समाधानकारकपणे लिहलेले आहे.

दिनांक:-

आसन क्रमांक:-

प्राप्त गुण:-

$$\frac{20}{18} + \frac{80}{72} = 100$$

बाह्य परीक्षक

अंतर्गत परीक्षक

विभाग प्रमुख

प्राचार्य



डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद
सौ. केशरबाई सोनाजीराव क्षीरसागर ऊर्फ काकु कला, विज्ञान व
वाणिज्य महाविद्यालय, बीड

शैक्षणिक वर्ष-२०२३-२४

प्रकल्प लेखन

विद्यार्थ्याचे नांव : अभिषेक रमेश आर्षेकर
विद्यार्थ्याचा PRN नंबर : 2021015200389401
वर्ग : B.A. III
प्रकल्प विषय : महिला सवलतीकरण

Badam

मार्गदर्शक:

प्रा.कदम जी.आर.

सहायक प्राध्यापक राज्यशास्त्र विभाग



नवगण शिक्षण संस्था राजुरी (न.)

सौ. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू
कला, विज्ञान व वाणिज्य महाविद्यालय, बीड

प्रकल्प मूल्यांकन प्रमाणपत्र

शैक्षणिक वर्ष-२०२३-२४

मार्च - एप्रिल

विद्यार्थी / विद्यार्थिनी आशिषेक राजेश आवडकर

याने / हिने बी.ए.तृतीय वर्ष (राज्यशास्त्र) प्रकल्प कार्यांतर्गत महिडा

संबंधी

या विषयावर प्रस्तुत प्रकल्प कार्य स्वतः केलेले
असून ते त्याने

तिने समाधानकारकपणे लिहिलेले आहे.

दिनांक:- 28/03/2024

आसन क्रमांक:- NBF605502

प्राप्त गुण:-

20 + 80 = 100

Jobkane
बाह्य परीक्षक

Prakash
अंतर्गत परीक्षक

Filal
विभाग प्रमुख

Bas
प्राचार्य



नवगण शिक्षण संस्था राजुरी नवगण

सौ.केशरबाई सोनाजीराव क्षीरसागर उर्फ काकु
कला,विज्ञान व वाणिज्य महाविद्यालय,बीड



प्राचार्य
डॉ.एस.व्ही..क्षीरसागर

ISO- 21001:2018

NAAC reaccredited -A Grade
[3.18 CGPA as per New RAH]



Green audit

सचिव
डॉ.भारतभूषण क्षीरसागर

COLLEGE HTE SEVERTH ID- 06310100113

Website-kskcollegebeed.com E-mail-kskbeed123@rediffmail.com Ph.(02442)222641 Fax-02442)230197

जा.क्र.केएसकेसीबी/२०२३-२०२४

दिनांक २२/०३/२०२४

प्रति,
मा.प्राचार्य,
बलभीम कला,विज्ञान व वाणिज्य
महाविद्यालय,बीड

विषय - बी.ए. तृतीय वर्ष राज्यशास्त्र विषयाचे प्रकल्प मुल्यांकन
बहिस्थ परिक्षक म्हणून उपस्थित राहणे बाबत.

महोदय,

उपरोक्त विषयान्वये विनंती करण्यात येते की, डॉ.बाबासाहेब आंबेडकर
मराठवाडा विद्यापीठ,औरंगाबाद अंतर्गत होणाऱ्या मार्च/ एप्रिल २०२४ च्या बी.ए. तृतीय
वर्ष राज्यशास्त्र प्रात्यक्षिक परिक्षेसाठी (प्रकल्पकार्य) दिनांक
२८/०३/२०२४ रोजी आपल्या महाविद्यालयातील डॉ.आर.के.काळे राज्यशास्त्र विभाग
प्रमुख यांना बहिस्थ परिक्षक म्हणून नियुक्ती करण्यात आली आहे.

तरी आपण त्यांना दिनांक २८/०३/२०२४ रोजी बहिस्थ परिक्षक म्हणून उपस्थित
राहण्यासाठी कार्यमुक्त करण्यात यावे ही विनंती.

प्रत

१ डॉ.आर.के.काळे राज्यशास्त्र विभाग प्रमुख बलभीम महाविद्यालय,बीड
यांना माहितीस्तव.

प्राचार्य
Principal
Mrs.K.S.K.Alias Kaku Arts,
Science & Commerce College
Beed-431122



डॉ. बा. आं. म. वि. मु. १७५/१०-२०२२/५०.००० प्रती

फॉर्म नं. १

डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ

उपस्थिती अहवाल : परीक्षा - मार्च-एप्रिल / ऑक्टो.-नोव्हें. २०



परीक्षा केंद्र सो.के.सा.के.महा.बीड परीक्षेचे नाव : बी.ए.तृतीयवर्ष विद्याशाखा -----
 परीक्षा केंद्र क्रमांक : ----- विषय : प्रकल्पकार्य पदवी -----
 सत्र : पहिले / दुसरे पेपर क्रमांक : २११ पदव्युत्तर -----
 दालन क्रमांक : ४८ दालनातील परीक्षार्थीची संख्या : -----

सूचना : या प्रपत्रातील परीक्षार्थीचे बैठक क्रमांक पर्यवेक्षकाने अनुपस्थिती क्रमांकासह क्रमाने लिहावेत.

अ.क्र.	बैठक क्रमांक	उत्तर पत्रिका क्रमांक	परीक्षार्थीची स्वाक्षरी	अ.क्र.	बैठक क्रमांक	उत्तर पत्रिका क्रमांक	परीक्षार्थीची स्वाक्षरी
१	NSF605502	--	Abhishek	२१			
२	NSF605524	--	Abhishek	२२			
३	NSF605539	--	Abhishek	२३			
४	NSF605598	--	Abhishek	२४			
५	NSF605603	--	Abhishek	२५			
६				२६			
७				२७			
८				२८			
९				२९			
१०				३०			
११				३१			
१२				३२			
१३				३३			
१४				३४			
१५				३५			
१६				३६			
१७				३७			
१८				३८			
१९				३९			
२०				४०			

एकूण उपस्थित परीक्षार्थी -----

एकूण अनुपस्थित परीक्षार्थी -----

केंद्र प्रमुखाची सही

सह केंद्र प्रमुखाची सही

पर्यवेक्षकाची सही

Abhishek
A. R. K. Kale

सूचना :-

१. प्रत्येक वर्ग आणि विद्याशाखेकरिता स्वतंत्र फॉर्म भरावा.
२. मुळप्रत परीक्षा प्रारंभानंतर अर्ध्यातासाने केंद्र प्रमुखास द्यावी.
३. परीक्षार्थीच्या उत्तरपत्रिका मूळप्रतीतील क्रमाने लावून मूळप्रतीसह उत्तरपत्रिकांचे बंडल करावे.



Dr. Babasaheb Ambedkar Marathwada University

University Campus, Chhatrapati Sambhajnagar-431004, Maharashtra(India).

Reaccredited with "A" Grade

Recognized by UGC (U/s 2(i) and 12(B), KAAC

<https://bamuu.digitaluniversity.ac/>

Blank Mark List For

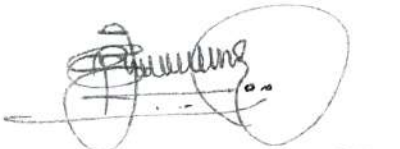
B.A - Regular-P-2013 - T.Y.B.A. - Sixth Semester For Apr/May-2024

College : Mrs. K.S.K. Alis Kaku Arts, Science and Commerce College, Beed (34), Shivaji Nagar, Beed - Beed, Beed Pin: 431122

Paper Name: Political Science Project Based on(Paper-XII & Paper-XVI) (POL-15-13) Project Work UA (Max Mark: 100 Min Mark: 40) Count of Student: 5

Sr. No.	Seat Number	PRN	Student Name	Marks	Total
				80+20=	100 Hundred
1	NBF605502	2021015200389401	ASHTEKAR ABHISHEK RAJESH	66+11=77	seventy seven
2	NBF605524	2021015200251316	GAIKWAD ANJALI ARUN	72+18=90	Ninety
3	NBF605539	2020015200336402	HARBAK ROHINI DILIPRAO	75+15=90	Ninety
4	NBF605598	2020015200378916	RAUT ABHISHEK RAJENDRA	62+13=75	seventy five
5	NBF605603	2020015200436442	RAUT SUVARNA DATTATRAY	60+12=72	seventy two




Internal Examiner

Dr. P. R. Sutar
Dept. of Political Science
Mrs. K. S. K. College, Beed.


Dr. R. K. Kale


28/05/2024

Internal Examiner
Mr. G. R. Kadam
Dept. of Political Science
Mrs. K. S. K. College, Beed

Seal

Signature of Examiner

Date

Instruction:
1. While entering the marks, please ensure a clear, legible hand-writing, without any scratches or over-writing.
2. In case of scratches, over-writing or corrections, please re-write the marks separately with your signature.
3. Use English number while entering the marks.
4. Usage of whitener is strictly prohibited.

REPORT SUMMARY

Paper Wise Mark List (Against Seat Number)

This report contains Paper Wise Mark List (against Seat Number) of 5 Students.

Course	B.A - Regular-P-2013-T.Y.B.A.-Sixth Semester
Exam Event	Apr/May-2024
Teaching Learning Method/Assessment Method/Type	Political Science Project Based on(Paper-XII & Paper-XVI) (POL-1B-16) Project Work-Laboratory-University Assessment-Not Applicable



ADEC Name : Mrs. K.S.K. Alis Kaku Arts, Science and Commerce College Beed (34)

Date : 04-25-2024

-----END OF SUMMARY - DETAILED REPORT BEGINS-----

Signature:	Signature:	Signature:
Name:	Name:	Name:
Designation:	Designation:	Designation:
Date:	Date:	Date:

DATA EXPORTED DATE: DATA IS NOT YET EXPORTED

Exam Event Apr/May-2024

User Name: All Users

Course: B.A - Regular-P-2013-T.Y.B.A -Sixth Semester

Paper: Political Science Project Based on(Paper-XII & Paper-XVI) (POL-15-13)

Project Work- Laboratory-University Assessment

Max Mark



Paper Wise Mark List (Against Seat Number)

Seat Number	Examiner Marks	Seat Number	Examiner Marks	Seat Number	Examiner Marks
NBF605502	77	NBF605524	90	NBF605539	90
NBF605598	75	NBF605603	72		

Signature:	Signature:	Signature:
Name:	Name:	Name:
Designation:	Designation:	Designation:
Date:	Date:	Date:



नवगण शिक्षण संस्था, राजुरी नवगण
सौ. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू कला,
विज्ञान, वाणिज्य महाविद्यालय, बीड



प्राचार्य

डॉ. एस. व्ही क्षीरसागर



ISO- 21001:2018



NAAC reaccredited -A Grade
[3.18 CGPA as per New RAF]



Green audit

COLLEGE HTE SEVERTH ID- 06310100113

डॉ. भारतभूषण क्षीरसागर

Website-kskcollegebeed.com E-mail-kskbeed123@rediffmail.com Ph. (02442)222641 Fax-02442)230197

Ref: kskcb/२०२३-२४

Date: - २८/०३/२०२४

प्रति,

मा. प्राचार्य, बलभीम

कला, विज्ञान व वाणिज्य

महाविद्यालय, बीड

विषय - राज्यशास्त्र विषयाचे प्रकल्प मुल्यांकन बहिस्थ परिक्षक म्हणून कामातून कार्यमुक्त करणे बाबत...

महोदय,

आमच्या महाविद्यालयात दिनांक २८/०३/२०२४ रोजी डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, छत्रपती संभाजीनगर अंतर्गत बी. ए. तृतीय वर्ष राज्यशास्त्र विषयाची प्रात्यक्षिक परीक्षा (प्रकल्प कार्य) घेण्यात आली. परीक्षेच्या मुल्यांकनाकरिता आपल्या महाविद्यालयातील राज्यशास्त्र विषयाचे डॉ. आर. के. काळे राज्यशास्त्र विभाग प्रमुख यांना बहिस्थ परीक्षक म्हणून निमंत्रित करण्यात आले होते.

तरी परीक्षा संपल्यानंतर त्यांना दिनांक २८/०३/२०२४ रोजी कार्यालयीन वेळेनंतर कार्यमुक्त करण्यात आले.

o/c
Dr R.K. Kale

Principal
Mrs. K.S.K. Alias Kaku Arts,
Science & Commerce College
Beed-431122



नवगण शिक्षण संस्था, राजुरी नवगण
सौ. केशरबाई सोनाजीराव क्षीरसागर उर्फ काकू कला,
विज्ञान, वाणिज्य महाविद्यालय, बीड



प्राचार्य

डॉ. एस. व्ही क्षीरसागर



ISO- 21001:2018



NAAC reaccredited -A Grade



Green audit

[3.18 CGPA as per New RAF]

COLLEGE HTE SEVERTH ID- 06310100113

सचिव

डॉ. भारतभूषण क्षीरसागर

Website-kskcollegebeed.com E-mail-kskbeed123@rediffmail.com Ph. (02442)222641 Fax-02442)230197

Ref: kskcb/२०२३-२४

Date: - २८/०३/२०२४

प्रति,

डॉ. आर. के. काळे

राज्यशास्त्र विभाग प्रमुख,

बलभीम कला, विज्ञान व

वाणिज्य महाविद्यालय, बीड

विषय - राज्यशास्त्र विषयाचे प्रकल्प मुल्यांकन बहिस्थ परिक्षक म्हणून उपस्थित राहिल्याबद्दल आभार व्यक्त करणे बाबत...

महोदय,

आपण आमच्या महाविद्यालयात दिनांक २८/०३/२०२४ रोजी डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, छत्रपती संभाजीनगर अंतर्गत बी. ए. तृतीय वर्ष राज्यशास्त्र विषयाची प्रात्यक्षिक परीक्षा (प्रकल्प कार्य) घेण्यात आली.

राज्यशास्त्र विभागाने आयोजित केलेल्या या परीक्षेकरीता बहिस्थ पर्यवेक्षक म्हणून उपस्थित राहून आपण जे सहकार्य केले त्याबद्दल आपले आभार.

81C

Dr R. K. Kale
Dr R. K. Kale

Dr R. K. Kale

प्रभारी विभागप्रमुख,

राज्यशास्त्र विभाग,

सौ. के. एस. के.कोलेज , बीड

NAVAGAN SHIKSHAN SANSTHA RAJURI'S

Mrs. K.S.K. College, Beed.

DEPARTMENT OF _____

CERTIFICATE

This is to certify that Shri/Smt. Ku. Wale Sapang Ashok

Class B.A.S.Y., Roll No. _____ has

satisfactorily performed the practicals prescribed by the Board of Secondary and Higher Secondary Education Pune, in the Mrs. K.S.K. Alias Jr. College, Beed.

In Subject Home Science. Paper No. Textile and Clothing
during the academic year 2023-2024

Exam Seat No. B.A.E.507507

Lecturer in Charge

Date 12-12-2023

Examined by Khandat

Date _____

Principal

Mrs. K.S.K. College, Beed.

NAVAGAN SHIKSHAN SANSTHA RAJURI'S

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Home Science

CERTIFICATE

This is to certify that Shri/Smt. Ku. Kandekar

Dhananjay Vilas

Class B.A III Roll No. 170 has

satisfactorily performed the practicals prescribed by the Board of Secondary and Higher Secondary Education Pune, in the Mrs. K.S.K. Alias Jr. College, Beed.

In Subject Home Science Paper No. Art and design
during the academic year 20 ~~23~~ 202 ~~2~~ 4

Exam Seat No. _____

Lecturer in Charge _____

Date _____

Examined by Kandekar

Date _____

Principal

Mrs. K.S.K. College, Beed.

NAVAGAN SHIKSHAN SANSTHA RAJURI'S

Mrs. K.S.K. College, Beed.

DEPARTMENT OF _____

CERTIFICATE

This is to certify that Shri/Smt. Ku. Shaikh

Aman Gaffar

Class B.A. III Roll No. _____ has

satisfactorily performed the practicals prescribed by the Board of Secondary and Higher Secondary Education Pune, in the Mrs. K.S.K. Alias Jr. College, Beed.

In Subject Home Science. Paper No. Art and Design
during the academic year 2023-2024

Exam Seat No. _____

Lecturer in Charge

Date 1 _____

Examined by Khamdat

Date _____

Principal

Mrs. K.S.K. College, Beed.

NAVAGAN SHIKSHAN SANSTHA RAJURI'S

Mrs. K.S.K. College, Beed.

DEPARTMENT OF _____

CERTIFICATE

This is to certify that Shri/Smt. Ku. Gholap Akanksha
Gominath.

Class B.A.S.Y Roll No. _____ has

satisfactorily performed the practicals prescribed by the Board of
Secondary and Higher Secondary Education Pune, in the Mrs. K.S.K.
Alias Jr. College, Beed.

In Subject Home science. Paper No. Textile and
during the academic year 2023-2024 Clothing

Exam Seat No. B.AE 507348

Lecturer in Charge

Date 12/12/2023

Examined by Khandat

Date _____

Principal

Mrs. K.S.K. College, Beed.

NAVAGAN SHIKSHAN SANSTHA RAJURI'S

Mrs. K.S.K. College, Beed.

DEPARTMENT OF _____

CERTIFICATE

This is to certify that Shri/Smt. Ku. Kadam Geeta Bandy

Class B.A - IV Roll No. _____ has

satisfactorily performed the practicals prescribed by the Board of Secondary and Higher Secondary Education Pune, in the Mrs. K.S.K. Alias Jr. College, Beed.

In Subject Food and Nutrition Paper No. Home + Science during the academic year 2023-2024

Exam Seat No. BAB 204905

Lecturer in Charge

Date _____

Examined by Khandat

Date _____

Principal

Mrs. K.S.K. College, Beed.

NAVAGAN SHIKSHAN SANSTHA RAJURI'S

Mrs. K.S.K. College, Beed.

DEPARTMENT OF _____

CERTIFICATE

This is to certify that Shri/Smt. Ku. Khetre Shubhangi Kisan

_____ Class BSc T.Y Roll No. _____ has
satisfactorily performed the practicals prescribed by the Board of
Secondary and Higher Secondary Education Pune, in the Mrs. K.S.K.
Alias Jr. College, Beed. microbiology
In Subject microbiology Paper No. XI
during the academic year 2023 -2024

Exam Seat No. NAF658776

Lecturer in Charge

Date _____

Examined by _____

Date _____



Principal
Head

Dpt. of Microbiology Beed.
Mrs. K.S.K. College Beed

NAVAGAN SHIKSHAN SANSTHA RAJURI'S

Mrs. K.S.K. College, Beed.

DEPARTMENT OF _____

CERTIFICATE

This is to certify that Shri/Smt. Ku. Khetre Shubhangi Kisan

_____ Class BSc T.Y Roll No. _____ has
satisfactorily performed the practicals prescribed by the Board of
Secondary and Higher Secondary Education Pune, in the Mrs. K.S.K.
Alias Jr. College, Beed. microbiology
In Subject microbiology Paper No. XI
during the academic year 2023 -2024

Exam Seat No. NAF658776

Lecturer in Charge

Date _____

Examined by _____

Date _____



Principal
Head

Dpt. of Microbiology Beed.
Mrs. K.S.K. College Beed

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Microbiology

CERTIFICATE

This is to certify that Shri/Smt. Ku. Kande Jyoti
Laxman

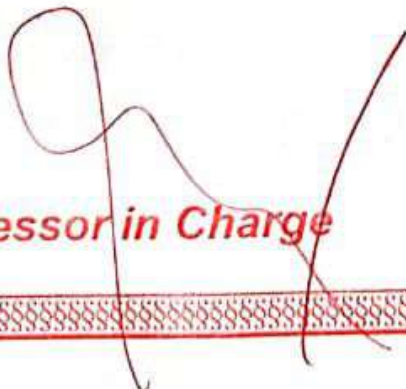
of Class B. SC .TY Roll No. _____


has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Microbiology Paper No. XXI+XXII
during the academic year 2023 -20 24

Exam Seat No. _____
PRN NO: 2021015200265653




Professor in Charge


Head of the Department
Dpt. of Microbiology
Mrs. K.S.K. College Beed

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Microbiology

CERTIFICATE

This is to certify that Shri/Smt. Ku. kande Tyoti

Caxman

of Class B.SC. TY Roll No. _____

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Microbiology Paper No. XVII + XVIII
during the academic year 2023-2024

Exam Seat No. _____
PRN NO: 2021015200262653



[Signature]
Professor in Charge

[Signature]
Head of the Department
Head

Dpt. of Microbiology
Mrs. K.S.K. College Beed

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Physics

CERTIFICATE

This is to certify that Shri/Smt. Ku. Dhone Jyotiram
Dnyandeo

of Class B.Sc. 1 year Roll No. 490

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Physics Paper No. XVII & XXI

during the academic year 2023 -20 24

Exam Seat No. 259434



Professor in Charge



Head of the Department

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Microbiology

CERTIFICATE

This is to certify that Shri/Smt. Ku. Atkare Ankita Raju

of Class B.S.C. IIIrd yr sem V & sem VI Roll No. _____

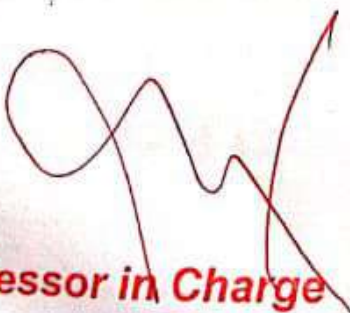
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Microbiology Paper No. _____

during the academic year 2023 -2024

Exam Seat No. _____




Professor in Charge


Head of the Department
Head

Dpt. of Microbiology
Mrs. K.S.K. College Beed

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF physics

CERTIFICATE

This is to certify that Shri/Smt. Ku. Gholap Poonam Ashok

of Class BSc 5.Y. Roll No. 147

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject physics Paper No. X & XIV

during the academic year 2023 -2024

Exam Seat No. CAD 458938



Professor in Charge



Head of the Department

NAVAGAN SHIKSHAN SANSTHA RAJURI'S

Mrs. K.S.K. College, Beed.

DEPARTMENT OF _____

CERTIFICATE

This is to certify that Shri/Smt. Ku. Balunke Rutuja Luxman

_____ Class B.Sc T.Y Roll No. _____ has
satisfactorily performed the practicals prescribed by the Board of
Secondary and Higher Secondary Education Pune, in the Mrs. K.S.K.
Alias Jr. College, Beed.

In Subject microbiology Paper No. XVII + XXI
during the academic year 2023 -2024

Exam Seat No. NAF 658834

Lecturer in Charge

Date _____

Examined by _____

Date _____




**Principal
Head**

Dpt. of Microbiology
Mrs. K.S.K. College Beed

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF physics

CERTIFICATE

This is to certify that Shri/Smt. Ku. Namadee Rohit

Rajkumar

of Class BSc 2nd Roll No. 264

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Physics Paper No. IX + XIII

during the academic year 2023-2024

Exam Seat No. CAD459044



Professor in Charge



Head of the Department

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF _____

CERTIFICATE

This is to certify that Shri/Smt. Ku. Zodage Sharda Navnath

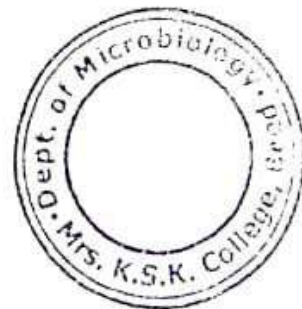
of Class B.Sc III Roll No. _____

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject micro-biology Paper No. _____

during the academic year 2023 -20 24

Exam Seat No. _____



Professor in Charge

Head of the Department

Dpt. of Microbiology

Mrs. K.S.K. College Beed

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Microbiology

CERTIFICATE

This is to certify that Shri/Smt. Ku. Peartiksha Bharat
Surwase

of Class B.Sc. T.2 Roll No. _____

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Microbiology Paper No. XVII + XXI
during the academic year 2023 -2024.

Exam Seat No. _____




Professor in Charge


Head of the Department
Head

Dpt. of Microbiology
Mrs. K.S.K. College Beec

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF physics

CERTIFICATE

This is to certify that Shri/Smt. Ku. Atharv Anant Rao
Ichadke

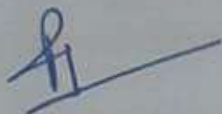
of Class B.Sc I Roll No. 206

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Physics Paper No. III + VI

during the academic year 2023-2024

Exam Seat No. CAB259377



Professor in Charge



Head of the Department

NAVAGAN SHIKSHAN SANSTHA RAJURI'S

Mrs. K.S.K. College, Beed.

DEPARTMENT OF _____

CERTIFICATE

This is to certify that Shri/Smt. Ku. Raut Dipali Bhagawan

_____ Class B.Sc. IIIrd y. Roll No. _____ has
satisfactorily performed the practicals prescribed by the Board of
Secondary and Higher Secondary Education Pune, in the Mrs. K.S.K.
Alias Jr. College, Beed.

In Subject Microbiology Paper No. XXI
during the academic year 2023 -2024

Exam Seat No. NAF 658830

Lecturer in Charge

Date _____

Examined by _____

Date _____


Principal
Head

Dpt. of Microbiology, Beed.
Mrs. K.S.K. College Beed

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF physics

CERTIFICATE

This is to certify that Shri/Smt. Ku. Harde Asha Ramkath

of Class BSc II. Roll No. 193

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject physics Paper No. IX + XIII

during the academic year 2023 -20 24

Exam Seat No. CAD458947



Professor in Charge



Head of the Department

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Microbiology

CERTIFICATE

This is to certify that Shri/Smt. Ku. Kande Jyoti
Laxman

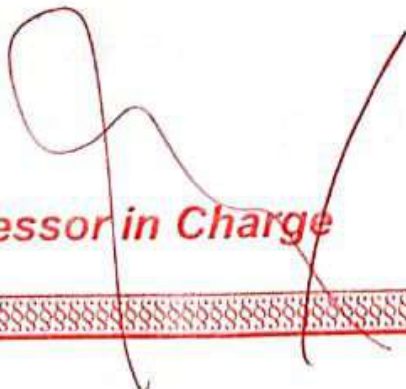
of Class B. SC .TY Roll No. _____


has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Microbiology Paper No. XXI+XXII
during the academic year 2023 -20 24

Exam Seat No. _____
PRN NO: 2021015200265653




Professor in Charge


Head of the Department
Dpt. of Microbiology
Mrs. K.S.K. College Beed

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Chemistry

CERTIFICATE

This is to certify that Shri/Smt. Ku. Dongare Jyoti shamy

of Class B.Sc. II year Roll No. —


has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Chemistry Paper No. XII
during the academic year 2023-2024

Exam Seat No. CAD 458901




Professor in Charge


Head of the Department
Department of Chemistry
Mrs. K.S.K. College, Beed

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF chemistry

CERTIFICATE

This is to certify that Shri/Smt. Ku. Vaishnavi Suresh
Marke

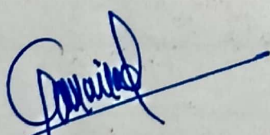
of Class B.Sc. II year Roll No. -

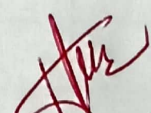
has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Chemistry Paper No. TX
during the academic year 2023-2024.

Exam Seat No. CAD 459028




Professor in Charge


Head of the Department
Department of Chemistry

Mrs. K.S.K. College, Beed.

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that Shri/Smt. Ku. Doiphode Anilcet
Baliram

of Class B.Sc. II Year Roll No. -

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject chemistry Paper No. IX
during the academic year 2023 -2024.

Exam Seat No. CAD 458899



Professor in Charge

Head of the Department

Head

Department of Chemistry

Mrs. K.S.K. College, Beed

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that Shri/Smt. Ku. Thorat Shailesh
Kailas.

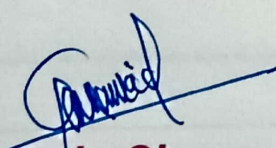
of Class B.sc. II year Roll No. _____


has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Chemistry Paper No. XII
during the academic year 2023-2024

Exam Seat No. CAD 459123




Professor in Charge


Head of the Department
Department of Chemistry
Mrs. K.S.K. College, Beed

Mrs. K. S. K. College, Beed.

Department of Geography

CERTIFICATE

This is to certify that Shri/Smt./Ku. Madam Parvita Arun
Class B.A. Sy Roll No. _____ has satisfactorily performed the practicals

prescribed by the Dr. B. A. M. U. Aurangabad .

In Subject Geography Paper No. Practical Geography

during the academic year 2023 -2024

Exam. Seat No. _____

Lecture in Charge [Signature]

Date _____

Examined by _____

Date _____

[Signature]
Head of the Department

Date 20/03/2024

Mrs. K. S. K. College, Beed.

Department of Geography

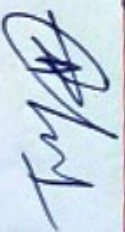
CERTIFICATE

This is to certify that Shri/Smt./Ku. Kale Vaishnavi Bhimray
Class B. A. S. Y. Roll No. _____ has satisfactorily performed the practicals
prescribed by the Dr. B. A. M. U. Aurangabad.

In Subject Geography Paper No. Practical Geography
during the academic year 2023 -2024

Exam. Seat No. BAD 407738

Lecture in Charge

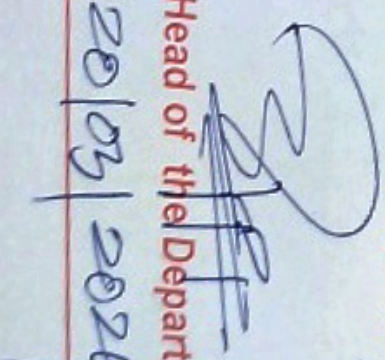


Date _____

Examined by _____

Date _____

Head of the Department



Date 20/03/2024

Mrs. K. S. K. College, Beed.

Department of Geography

CERTIFICATE

This is to certify that Shri/Smt./Ku. Khande Mauli Maachindra.
Class B.A.E.Y Roll No. _____ has satisfactorily performed the practicals
prescribed by the Dr. B. A. M. U. Aurangabad.

In Subject Geography Paper No. Practicals Geography
during the academic year 2023-2024

Exam. Seat No. _____

Lecture in Charge

Date _____

Examined by _____

Date _____

Head of the Department

Date _____

20/3/2024

Mrs. K. S. K. College, Beed.

Department of Geography

CERTIFICATE

This is to certify that Shri/Smt./Ku. Bahirwal Abhishek Myrliidhar
Class B.A.F-7 Roll No. _____ has satisfactorily performed the practicals
prescribed by the Dr. B. A. M. U. Aurangabad .

In Subject Geography Paper No. practical Geography
during the academic year 20 -20

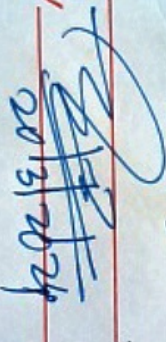
Exam. Seat No. _____

Lecture in Charge



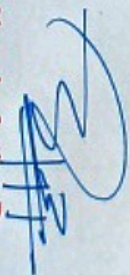
Date _____

Examined by



Date _____

Head of the Department



Date

20/03/2024

Mrs. K. S. K. College, Beed.

Department of Geography

CERTIFICATE

This is to certify that Shri/Smt./Ku. khande Diksha Machindra
Class B.A.IInd Year Roll No. _____ has satisfactorily performed the practicals
prescribed by the Dr. B. A. M. U. Aurangabad.

In Subject Geography Paper No. Practical Geography
during the academic year 2023-2024

Exam. Seat No. _____

Lecture in Charge _____
Head of the Department

Date _____
Examined by _____
19/03/2024

Date _____
Date 19/03/2024

Mrs. K. S. K. College, Beed.

Department of Geography

CERTIFICATE

This is to certify that Shri/Smt./Ku. Chavan Akanksha Anrush
Class B.A. III Roll No. _____ has satisfactorily performed the practicals
prescribed by the Dr. B. A. M. U. Aurangabad .
In Subject geography Paper No. _____
during the academic year 2023-2024

Exam. Seat No. _____

Lecture in Charge

Date _____

Examined by _____

Date _____

Head of the Department

Date 19/3/2024

Mrs. K. S. K. College, Beed.

Department of Geography

CERTIFICATE

This is to certify that Shri/Smt./Ku. Ankita Babasaheb Ahire.
Class B.A IIIrd year Roll No. _____ has satisfactorily performed the practicals

prescribed by the Dr. B. A. M. U. Aurangabad.

In Subject Geography Paper No. Practical Geography
during the academic year 2023-2024

Exam. Seat No. NBF 605500

Lecture in Charge


Date

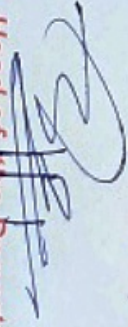
Examined by

Date

Head of the Department

Date


18/3/2024


20/3/2024

Mrs. K. S. K. College, Beed.

Department of Geography

CERTIFICATE

This is to certify that Shri/Smt./Ku. Agam. Pooja Pandurang
Class B.A. II year Roll No. _____ has satisfactorily performed the practicals
prescribed by the Dr. B. A. M. U. Aurangabad .

In Subject Geography Paper No. Practical Geography
during the academic year 2023-2024

Exam. Seat No. _____

Lecture in Charge


22/3/24

Date _____

Examined by _____

Date _____


Head of the Department

Date 18/3/2024

Mrs. K. S. K. College, Beed.

Department of Geography

CERTIFICATE

This is to certify that Shri/Smt./Ku. Sayali Shirang Kolekar
Class B.A. II year Roll No. _____ has satisfactorily performed the practicals
prescribed by the Dr. B. A. M. U. Aurangabad.

In Subject Geography Paper No. Practical Geography
during the academic year 2023-2024

Exam. Seat No. BAD1407760

Lecture in Charge [Signature]
12.03.24

Date _____

Examined by _____

Date _____

[Signature]
Head of the Department
Date 18/03/2024

Mrs. K. S. K. College, Beed.

Department of Geography

CERTIFICATE

This is to certify that Shri/Smt./Ku. Kothule Monika Sanjay
Class B.A. 5 year Roll No. _____ has satisfactorily performed the practicals
prescribed by the Dr. B. A. M. U. Aurangabad .

In Subject Geography Paper No. _____
during the academic year 2023 -2024

Exam. Seat No. BAD 404462

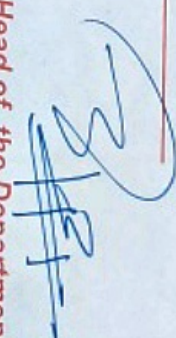
Lecture in Charge



Date _____

Head of the Department

Date _____


18/03/2024

Examined by _____

Date _____

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF _____

CERTIFICATE

This is to certify that Shri/Smt. Ku. Hadule Rushikesh
Mahendra

of Class B.Sc F.Y Roll No. CAA-164133

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Chemistry Paper No. III + VI
during the academic year 2023 -2024

Exam Seat No. CAA 164133

Prati
(External Examiner)

Phavan
Professor in Charge


Head of the Department

Department of Chemistry
Mrs. K.S.K. College, Beed.

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF _____

CERTIFICATE

This is to certify that Shri/Smt. Ku. Deshmukh Fatemajohara
eja

of Class B.sc F.y. Roll No. CAA-164067

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Chemistry Paper No. IIIrd & VIth

during the academic year 2023 -204

Exam Seat No. CAA-164067

Kirti
(External Examiner)

Phan
Professor in Charge

[Signature]
Head of the Department
Head

Department of Chemistry
Mrs. K.S.K. College, Beed

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF _____

CERTIFICATE

This is to certify that Shri/Smt. Ku. Kate Rohit Kisan


of Class B.Sc IIIrd-yr. Roll No. _____


has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Chemistry Paper No. XVIIIth

during the academic year 2023 -2024

Exam Seat No. NAF 658765


[External Examiner]


Professor in Charge


Head of the Department
Head

Department of Chemistry
Mrs. K.S.K. College, Beed

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF _____

CERTIFICATE

This is to certify that Shri/Smt. Ku. Prakrhad Priya
Rohdas

of Class B.Sc IIIrd-yr Roll No. NAF-658715

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Chemistry Paper No. XVIIIth
during the academic year 2023 -2024

Exam Seat No. NAF-658715

[Signature]
[External Examiner]

[Signature]
Professor in Charge

[Signature]
Head of the Department
Department of Chemistry

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF _____

CERTIFICATE

This is to certify that Shri/Smt. Ku. Shaikh Shehbaz Ajaz

of Class B.Sc IIIrd-yr. Roll No. _____

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Chemistry Paper No. XVth

during the academic year 2023 -2024

Exam Seat No. NAF- 658848

Amal
par

(Examiner External)

Amal

Professor in Charge

Amal

Head of the Department

Head

Department of Chemistry
Mrs. K.S.K. College, Beed.

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF _____

CERTIFICATE

This is to certify that Shri/Smt. Ku. Akhade Rameshwar
Narnath

of Class B.Sc IIIrd - yr. Roll No. NAF658668

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Chemistry Paper No. XVth

during the academic year 2023 -2024

Exam Seat No. NAF- 658668

(Signature)
[External Examiner]

(Signature)
Professor in Charge

(Signature)
Head of the Department
Head

Department of Chemistry
Mrs. K.S.K. College, Beed.

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF chemistry

CERTIFICATE

This is to certify that Shri/Smt. Ku. Vaishnavi Suresh
Marke

of Class B.Sc. II year Roll No.

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Chemistry Paper No. TX
during the academic year 2023-2024.

Exam Seat No. CAD 459028



Pravin
(External Examiner)

Pravin
Professor in Charge

Pravin
Head of the Department
Department of Chemistry

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that Shri/Smt. Ku. Doiphode Anilket
Baliram

of Class B.Sc. II Year Roll No. -

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject chemistry Paper No. IX
during the academic year 2023-2024.

Exam Seat No. CAD 458899



[Signature]
(External Examiner)

[Signature]
Professor in Charge

[Signature]
Head of the Department
Head
Department of Chemistry
Mrs. K.S.K. College, Beed

DR. BABASAHEB AMBEDKAR MARATHIWADA UNIVERSITY AURANGABAD,

Mrs. K.S.K. College, Beed.

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that Shri/Smt. Ku. Thorat Shailesh
Kailas.

of Class B.Sc. II year Roll No. _____

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Chemistry Paper No. XII

during the academic year 2023-2024.



Exam Seat No. CAD 459123

[Signature]
[External Examiner]

[Signature]
Professor in Charge

[Signature]
Head of the Department

Department of Chemistry
Mrs. K.S.K. College, Beed

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Chemistry

CERTIFICATE

This is to certify that Shri/Smt. Ku. Dongare Jyoti shamy

of Class B.Sc. II year Roll No. —

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Chemistry Paper No. XII
during the academic year 2023-2024

Exam Seat No. CAD 458901



[Signature]
[External Examiner]

[Signature]
Professor in Charge

[Signature]
Head of the Department
Department of Chemistry

Mrs. K.S.K. College, Beed

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology.

CERTIFICATE

This is to certify that Shri/Smt. Ku. Sonavane pooja
Vashishth.


of Class B.Sc T.Y. Roll No. 872

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Zoology Paper No. XVIII + XXII
during the academic year 2023 -2024 Fishery sci. I & II

Exam Seat No. NAF 658860.

Examined by


29/3/2024.


29/3/2024

Professor in Charge

Head of the Department

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology.

CERTIFICATE

This is to certify that Shri/Smt. Ku. Shaikh Malik khahed.

of Class B.Sc.T.Y. Roll No. 27.

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Zoology Paper No. XVIII + XXII
during the academic year 2023 -2024

Exam Seat No. NAT 658846

Examined by
[Signature]
29/3/2024.

[Signature]

Professor in Charge

[Signature]
29/3/2024.

Head of the Department

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology.

CERTIFICATE

This is to certify that Shri/Smt. Ku. Atkare Ankita Raju.

of Class B.Sc.T.Y. Roll No. 01

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Zoology Paper No. XVII + XXI
during the academic year 2023-2024

Exam Seat No. NAF658672

Examined by
[Signature]
27/03/2024.

[Signature]
Professor in Charge

[Signature]
27/03/2024.
Head of the Department



DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology.

CERTIFICATE

This is to certify that Shri/Smt. Ku. Devkate Vanita Narayan

of Class B.Sc. T.Y. Roll No. 04

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Zoology Paper No. XVIII + XXII
during the academic year 2023 -2024 Fishery science I & II

Exam Seat No. NAF 65 8702

Examined by
[Signature]
28/13/2024.

[Signature]
Professor in Charge

[Signature]
Head of the Department

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology

CERTIFICATE

This is to certify that Shri/Smt. Ku. Morale Pratiksha Sampat

of Class MSC IInd year Roll No. _____

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Applied Biotechnology Paper No. zoo-316
during the academic year 2023-2024

Exam Seat No. 672C301090

Examined
CA

CA
Professor in Charge

CA
Head of the Department

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology

CERTIFICATE

This is to certify that Shri/Smt. Ku. Humbaree Diksha Arun

of Class M.Sc III year Roll No. _____
III (sem)

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Applied Biotechnology - I Paper No. ZOO-316
during the academic year 2023 -20 24

Exam Seat No. G2C301087

Examined
Examined

Examined
Professor in Charge

Examined
Head of the Department

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology

CERTIFICATE

Sem-IV

This is to certify that Shri/Smt. Ku. Taur Aniket
Gangadhar

of Class Msc 2nd year Roll No. 12

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Applied Biotechnology-I Paper No. Zoo-316
during the academic year 2023-2024

Exam Seat No. GZC 301096

Examined by




Professor in Charge



Head of the Department

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology

CERTIFICATE

This is to certify that Shri/Smt. Ku. Devale vaishnavi
Sakharam.

of Class B.Sc. First Year Roll No. 34

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Zoology Paper No. IV + V
during the academic year 2023 -2024

Exam Seat No. CAB259629

Examined
Announced
28/03/24


Professor in Charge


Head of the Department

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology

CERTIFICATE

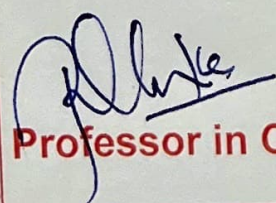
This is to certify that Shri/Smt. Ku. Ganesha Mehrao
Nemsum.

of Class B.Sc. Zoology Roll No. 99

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Zoology Paper No. III & VI
during the academic year 2023 -2024

Exam Seat No. CAB259450


Professor in Charge

Examined
(Ammu)
30/3/24


Head of the Department

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology

CERTIFICATE

This is to certify that Shri/Smt. Ku. Balraj Ajay Bapusaheb

of Class B.Sc.I Roll No. 54

has satisfactorily performed the practicals prescribed by the Dr.
B.A.M.U. Aurangabad.

In Subject Zoology Paper II + VI
No.

during the academic year 2023 -2024

Exam Seat No. CAB 259370

Examined
Ammy
26/3/24

Ammy
Professor in Charge

[Signature]
Head of the Department

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology

CERTIFICATE

This is to certify that ~~Shri~~ [✓] Smt. Ku. Ghoske snehal
Suraj

of Class B.Sc.F.Y Roll No. 56

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Zoology Paper No. III+VI
during the academic year 2023 -2024

Exam Seat No. CAB259476

Examinee



Professor in Charge



Head of the Department

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology

CERTIFICATE

This is to certify that Shri/Smt. Ku. DAKE SHAM NAMDEV

of Class B.Sc. I Roll No. 69

has satisfactorily performed the practicals prescribed by the Dr.
B.A.M.U. Aurangabad.

In Subject Zoology Paper III + IV
No.

during the academic year 2023 -2024

Exam Seat No. CAB259418

Amunup
Professor in Charge

Examined
Amunup
28/3/24
Amunup
28/3/24
Head of the Department

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology

CERTIFICATE

This is to certify that Shri/Smt. Ku. Taware Sagar
Abhiman,

of Class B.S. II Roll No. 27

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Zoology Paper No. X + XIV
during the academic year 2023 - 2024

Exam Seat No. CAD 459119

Examined

21/3/26

21/3

21/3/26
Professor in Charge

Head of the Department

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology

CERTIFICATE

This is to certify that Shri/Smt. Ku. Amate Arti

Ramesh.

of Class B. Sc. II Roll No. 03

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Zoology Paper No. 03
during the academic year 2023-2024 IX + XIII

Exam Seat No. CAD 45 88 54

Examined
Amulya
20/5/24

Amulya
Professor-in-Charge

Amulya
Head of the Department
20/5/24

DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY AURANGABAD.

Mrs. K.S.K. College, Beed.

DEPARTMENT OF Zoology

CERTIFICATE

This is to certify that Shri/Smt. Ku. Gaikwad Vaishnavi
Narnath.

of Class B.Sc II Roll No. 12

has satisfactorily performed the practicals prescribed by the
Dr. B.A.M.U. Aurangabad.

In Subject Zoology. Paper No. IX + XIII
during the academic year 2023-2024

Exam Seat No. CAD 458916

Examined
Amulya
20/3/2024


Professor in Charge


Head of the Department