

Rayat Shikshan Sanstha's  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar**  
**Department of Botany**  
**TEACHING PLAN**



Academic Year:- 2022-23

Sem:- VI<sup>th</sup>

Name of the Teacher:- Dr. N. B. Admuthe

Class:- T. Y. B. Sc.

Paper:- VI<sup>th</sup>

| Sr. No. | Months     | No. of Working Days | Lectures Available | Topic to be Covered               | Sub topics to be covered  | Lectures Required          | Teaching Methods                                    | References                      | Remark |
|---------|------------|---------------------|--------------------|-----------------------------------|---|----------------------------|---|---------------------------------|--------|
| 1)      | Feb., 2023 | 12                  | 12                 | 1. Introduction to Plant Breeding | Introduction to plant breeding<br>Scope and importance  | 1L<br>1L                   | Lecture<br>Lecture                                  | Plant Breeding-<br>B. D. Singh  |        |
|         |            |                     |                    | 2. Conventional techniques        | Conventional techniques, methods and practices of breeding<br>Plant introduction and acclimatization Concept, objectives,<br>Types of Plant introduction<br>Advantages, disadvantages and achievements<br>Selection methods Concept, types of selections: Mass selections, Pure line selection and Clonal selection<br>Advantages, disadvantages and achievements | 1L<br>1L<br>1L<br>1L<br>1L | Lecture<br>Lecture<br>Lecture<br>Lecture<br>Lecture | Plant Breeding-<br>J. R. Sharma |        |
|         |            |                     |                    |                                   | Hybridization: Definition and concept, difficulties in crop hybridization and precaution to be taken during hybridization<br>General procedure of hybridization, Plant selection in a breeding program, criteria for  | 1L<br>1L<br>1L             | Lecture<br>Lecture<br>Lecture                       | Plant Breeding-<br>J. R. Sharma |        |

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|    |                |    |    |  | selecting parents<br>Breeding Methodology<br>Pedigree method<br>Bulk method<br>Heterosis and hybrid vigour<br>Concept  | 1L | Lecture |   |  |  |
|    |                |    |    |  |  | 1L | Lecture |   |  |  |
| 2) | March,<br>2023 | 24 | 14 | 3. Alternative<br>breeding<br>techniques | Mutation breeding: Introduction<br>and concept<br>Types of mutation induced<br>mutagenesis<br>mutagens used- chemical and<br>physical mutagens methods of<br>working   | 1L | Lecture | Plant<br>Breeding-<br>B. D. Singh           |  |  |
|    |                |    |    |  |  | 1L | Lecture |   |  |  |
|    |                |    |    |  | Tissue Culture<br>Definition and concept<br>Totipotency<br>Application of tissue, embryo and<br>anther culture in seed production  | 1L | Lecture |   |  |  |
|    |                |    |    | 4. Introduction<br>to Seed<br>Technology | Introduction, Definition of seed,<br>stages of production,<br>Classes of seed production, Role<br>of seed technology   | 1L | Lecture | Seed<br>Technology-<br>Verma and<br>Agarwal |  |  |
|    |                |    |    |  |  | 1L | Lecture |   |  |  |
|    |                |    |    | 5. Seed<br>legislation                   | Introduction<br>Seed legislation in India (Seed<br>Act)  | 1L | Lecture |   |  |  |
|    |                |    |    | 6. Seed<br>Production                    | Introduction,<br>National Seed Corporation (NSC)<br>and its objectives<br>State Seed Corporation (SSC)<br>and its objectives<br>General procedure for Seed<br>Production Location and Season<br>Land requirement<br>Importance of soil and water | 1L | Lecture | Seed<br>Technology-<br>Verma and<br>Agarwal |  |  |
|    |                |    |    |  |  | 1L | Lecture |   |  |  |

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|----|----------------|----|----|--|---|----|---------|---|--|
|    |                |    |    |  | testing<br>Cultural practices<br>Isolation distance<br>Plant protection<br>Weed Control<br>Rouging<br>Harvesting<br>Threshing o Seed Processing                       | 1L | Lecture | Seed<br>Technology-<br>Ratan Lal            |  |
|    |                |    |    | 7. Seed<br>Certification               | General procedure of seed<br>certification, field inspection,<br>observation during inspection,<br>field count, Duties of seed<br>inspector<br>Concept                | 1L | Lecture | Seed<br>Technology-<br>Verma and<br>Agarwal |  |
|    |                |    |    | 8. Seed Testing                        | Physical purity analysis<br>Definition of purity components<br>Physical Purity Work Board<br>Procedure  | 1L | Lecture | Seed<br>Technology-<br>Ratan Lal            |  |
|    |                |    |    |  | Moisture testing<br>By air oven method,<br>Moisture meters  | 1L | Lecture |   |  |
|    |                |    |    |  | Germination testing: Definition<br>and objectives<br>General principles and<br>requirements<br>Procedure and methods (Paper,<br>sand and soil)<br>Seedling evaluation | 1L | Lecture | Seed<br>Technology-<br>Verma and<br>Agarwal |  |
|    |                |    |    | 9. Seed<br>Pathology and<br>Entomology | Definition<br>Seed Borne pathogens Fungi,<br>Bacteria, Viruses<br>Influence of seed borne pathogens<br>on seed production<br>Common insect pest and its               | 1L | Lecture | Seed<br>Technology-<br>Ratan Lal            |  |
| 3) | April,<br>2023 | 23 | 07 |  |   |    |         |   |  |

|    |           |    |   |                          |  |          |                    |                               |  |
|----|-----------|----|---|--------------------------|--|----------|--------------------|-------------------------------|--|
|    |           |    |   | 10. Seed Storage         | impact on seed production<br>Definition and Concept<br>Seed treatment<br>Management of seed storage structures<br>Sanitization<br>Dehumidification<br>Fumigation | 1L<br>1L | Lecture<br>Lecture | Seed Technology-<br>Ratan Lal |  |
| 4) | May, 2023 | 10 | 4 | Revision and Examination |  |          |                    |                               |  |

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Teacher In-charge

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**TEACHING PLAN**



Academic Year:- 2022-2023

Sem:- V<sup>th</sup>

Name of the Teacher:- Dr. N. B. Admuthé

Class:- T. Y. B. Sc.

Paper:- Ist

| Sr. No. | Months     | No. of Working Days | Lectures Available | Topic to be Covered                  | Sub topics to be covered   | Lectures Required    | Teaching Methods                         | References            | Remark |
|---------|------------|---------------------|--------------------|--------------------------------------|--|----------------------|--|-----------------------|--------|
| 1)      | Oct., 2022 | 24                  | 15                 | 1. Introduction (1L)                 | Cryptogams- meaning. Types- Lower cryptogams and Higher cryptogams   | 1L                   | Lecture                                  | Algae- B.R. Vashistha |        |
|         |            |                     |                    | 2. Algae (4L)                        | Algae: General characters, economic importance<br>Classification (Chapman and Chapman, 1973) up to classes.                                | 1L<br>1L<br>1L<br>1L | Lecture<br>Lecture<br>Lecture<br>Lecture |                       |        |
|         |            |                     |                    | 3. Study of life cycle of algae (8L) | Study of life cycle of algae<br><i>Nostoc</i><br><i>Oedogonium</i> ,<br><i>Chara</i> ,<br><i>Sargassum</i> and<br><i>Batrachospermum</i> . | 2L<br>2L<br>2L<br>2L | ICT<br>Chart<br>ICT<br>Chart             | Algae- O.P. Sharma    |        |
|         |            |                     |                    | 4. Economic importance of algae-     | Role in industry, agriculture, fodder and medicine.  | 1L<br>1L             | Lecture<br>Lecture                       |                       |        |
| 2)      | Oct., 2022 | 18                  | 11                 | 5. Fungi (3L):                       | Fungi: General characters, Economic importance<br>Classification. (Alexopoulos, 1979) up to classes.                                       | 1L<br>2L             | Lecture<br>ICT                           | Fungi- P.D. Sharma    |        |

|    |               |    |    |                                      |  |                            |   |                          |  |
|----|---------------|----|----|--------------------------------------|--|----------------------------|---|--------------------------|--|
|    |               |    |    | 5. Study of life cycle of fungi (8L) | Study of life cycle of fungi<br><i>Mucor</i> ,<br><i>Saccharomyces</i> ,<br><i>Puccinia</i> ,<br><i>Penicillium</i> and<br><i>Cercospora</i> . | 2L<br>2L<br>2L<br>1L<br>1L | Chart<br>ICT<br>Chart<br>Lecture<br>Lecture | Fungi-<br>O.P.<br>Sharma |  |
| 3) | Nov.,<br>2022 | 15 | 5  | 6. Symbiotic Associations (4L)       | Symbiotic Associations –<br>Lichens,<br>Mycorrhiza and their significance  | 2L<br>2L                   | Lecture<br>Lecture                          | Fungi-<br>P.D.<br>Sharma |  |
| 4) | Dec.,<br>2022 | 20 | 10 |                                      | Revision<br>Examination  |                            |   |                          |  |

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Academic Year:- 2022-2023

Sem:- I<sup>st</sup>

Name of the Teacher:- Dr. N. B. Admuthé

Class:- F. Y. B. Sc.

Paper:- Ist

| Sr. No. | Months       | No. of Working Days | Lectures Available | Topic to be Covered  | Sub topics to be covered  | Lectures Required            | Teaching Methods                                    | References                              | Remark |
|---------|--------------|---------------------|--------------------|----------------------|---|------------------------------|---|---|--------|
| 1)      | July, 2022   | 25                  | 5                  | 1. Introduction (3L) | General outline of plant kingdom,<br>Lower Cryptogams : Thallophytes-<br>Algae, Fungi & Lichens;<br><br>Higher Cryptogams: Bryophytes &<br>Pteridophytes;<br><br>Phanerogams: Gymnosperms &<br>Angiosperms- Dicotyledons &<br>Monocotyledons, Distinguishing<br>characters of these groups & few<br>common examples | 1L<br><br>1L<br><br>1L       | Lecture<br><br>Lecture<br><br>Lecture               | Plant<br>Diversity- Dr.<br>K. N. Dhumal |        |
| 2)      | August, 2022 | 27                  | 14                 | 2. Algae (9L)        | 2.1 Algae: Introduction,<br>2.2 General characters,<br><br>2.3 Classification (Bold and Wynne<br>1978) up to classes<br><br>2.4 Life cycle of <i>Spirogyra</i> w. r. t.<br>Habit, Habitat,<br>Structure of thallus, structure of<br>typical cell,   | 1L<br>1L<br><br>1L<br><br>1L | Lecture<br>Lecture<br><br>Lecture<br><br>ICT<br>ICT | Algae-<br>B.R.<br>Vashistha             |        |

|   |                |         |   |                  |   |    |         |   |
|---|----------------|---------|---|------------------|---|----|---------|---|
| 3)  | Sept.,<br>2022 | 16      | 6 | 3. Lichens (3L ) | Reproduction- Vegetative, Asexual and Sexual,   | 1L | Lecture | Plant<br>Diversity- Dr.<br>K. N. Dhumal |
|   |                |         |   |                  | Systematic position   | 1L | Lecture |   |
|   |                |         |   |                  | 2.5 Utilization of Algae in Biofuel Industry, Agriculture, Pharmaceuticals, Food and Fooder Test  | 1L | Lecture |   |
|   |                |         |   |                  | 3.1 Introduction  | 1L | Lecture |   |
|   |                |         |   |                  | 3.2 General Characters  |    |         |   |
|   |                |         |   |                  | 3.3 Nature of Association, forms- Crustose, Foliose and Fruticose   | 1L | Lecture |   |
|   |                |         |   |                  | 3.4 Utilization of lichens  | 1L | Lecture |   |
|   |                |         |   |                  | 4. Fungi (9L)   |    |         |   |
|   |                |         |   |                  | 4.1 Fungi: Introduction   | 1L | Lecture |   |
|   |                |         |   |                  | 4.2 General characters  | 1L | Lecture |   |
|   |                |         |   |                  | 4.3 Classification(Ainsworth, 1973)   | 1L | Lecture |   |
|   |                |         |   |                  | 4.4 Life Cycle of Mushroom- <i>Agaricus bisporus</i> w.r.t Habit, Habitat, Structure of thallus, Structure of Sporocarp, Structure of Gill, | 1L | ICT     |   |
|   |                |         |   |                  | Reproduction- Asexual and sexual,   | 1L | ICT     |   |
|   |                |         |   |                  | Systematic position   | 1L | Lecture |   |
| 4.5 Utilization of Fungi in Industry, Agriculture, Food and Pharmaceuticals | 1L             | Lecture |   |                  |   |    |         |   |



|    |               |    |    |                       |   |                            |  |                                  |  |
|----|---------------|----|----|-----------------------|---|----------------------------|--|----------------------------------|--|
| 4) | Oct.,<br>2022 | 19 | 12 | 5. Bryophytes<br>(6L) | 5.1 Introduction<br>5.2 General characters<br>5.3 Classification (G. M. Smith 1955)<br>5.4 Life Cycle of <i>Riccia</i> w.r.t. Habit,<br>habitat, external and internal structure<br>of thallus,<br>Reproduction- Vegetative, asexual<br>and sexual- structure of sex organs,<br>fertilization,<br>Structure of mature sporophyte,<br>structure of spore,<br><br>Systematic position | 1L<br>1L<br>1L<br>1L<br>1L | Lecture<br>Lecture<br>ICT<br>ICT<br>ICT<br>Lecture | Bryophytes-<br>B.R.<br>Vashistha |  |
| 5) | Nov.,<br>2022 | 10 | 05 |                       | 5.5 Utilization: Bryophytes as<br>ecological indicators, agriculture,<br>fuel, industry and medicine<br>Revision  | 1L                         | Lecture  |                                  |  |
| 6) | Dec.,<br>2022 | 18 | 09 |                       | Examination   |                            |  |                                  |  |

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Academic Year:- 2022-2023

Sem:- II<sup>nd</sup>

Name of the Teacher:- Dr. N. B. Admuthe

Class:- F. Y. B. Sc.

Paper:- Ist

| Sr. No. | Months      | No. of Working Days | Lectures Available | Topic to be Covered   | Sub topics to be covered   | Lectures Required                      | Teaching Methods  | References                        | Remark |
|---------|-------------|---------------------|--------------------|-----------------------|--|--|---|-----------------------------------|--------|
| 1)      | March, 2023 | 20                  | 10                 | 1. Introduction (3L)  | Introduction to plant diversity- Pteridophytes, Gymnosperms and Angiosperms with reference to vascular plants.   | 1L<br>1L<br>1L                         | Lecture<br>Lecture<br>Lecture                                     | Plant Diversity- Dr. K. N. Dhumal |        |
|         |             |                     |                    | 2. Pteridophytes (10) | : General characters,<br>Outline classification according to Sporne (1976) up to classes with reasons.<br>Life cycle of Nephrolepis w.r.t. Habit, habitat, distribution, morphology, anatomy of stem and leaf,<br>Reproduction – vegetative and sexual | 1L<br>2L<br>2L<br>1L<br>2L<br>1L<br>1L | Lecture<br>Lecture<br>Lecture<br>ICT<br>ICT<br>Lecture<br>Lecture | Pteridophyta- B.R. Vashishta      |        |
| 2)      | April, 2023 | 25                  | 16                 | 3. Utilization (2L)   | Utilization and economic importance of Pteridophytes   | 2L                                     | Lecture   |                                   |        |
|         |             |                     |                    | 4. Gymnosperms (8)    | General characters,<br>Outline classification according to Sporne (1977) up to classes with reasons.<br>Life cycle of Cycas w.r.t. Habit,  | 1L<br>1L<br>1L                         | Lecture<br>Lecture<br>Lecture                                     | Gymnosperms - Vashishta, P.C      |        |

|    |              |    |   |                         |  |                      |  |   |
|----|--------------|----|---|-------------------------|--|----------------------|--|---|
|    |              |    |   |                         | Habitat, Distribution,<br>Morphology and Anatomy of Stem,<br>leaf and<br>Reproductive organs- Male cone,<br>Microsporophyll, microspores and<br>megasporophyll, megaspore;<br>structure of seed;<br>Utilization and economic importance<br>of gymnosperms. | 1L<br>1L<br>1L<br>2L | Lecture<br>Lecture<br>Lecture<br>Lecture |   |
|    |              |    |   | 5. Angiosperms<br>(4L)  | General characters,<br>Outline of classification of Bentham<br>and Hooker's system up to series,<br>comparative account of<br>monocotyledons and dicotyledons.   | 1L<br>1L<br>2L       | ICT<br>ICT<br>ICT                        | Angiosperms-<br>Singh, V.               |
| 3) | May,<br>2023 | 10 | 5 | 6. Utilization<br>(3L)  | Utilization and economic importance<br>of Angiosperms: In food,<br>fodder, fibers,<br>Horticulture and medicines.  | 1L<br>1L<br>1L       | Lecture<br>Lecture<br>Lecture            | Plant<br>Diversity- Dr.<br>K. N. Dhumal |
|    |              |    |   | Revision<br>Examination |  |                      |  |   |

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**Department of Botany**  
**TEACHING PLAN**

Academic Year:- 2022-2023

Sem:- III

Name of the Teacher:- Dr. N. B. Admuthe

Class:- M. Sc. Part II

Paper:- BODT 234 Seed Science

| Sr. No. | Months      | No. of Working Days | Lectures Available | Topic to be Covered                        | Sub topics to be covered  | Lectures Required          | Teaching Methods                                | References                     | Remark |
|---------|-------------|---------------------|--------------------|--|---|----------------------------|---|--------------------------------|--------|
| 1)      | Sept., 2022 | 21                  | 7                  | 1. Introduction (1L)                       | Introduction: Scope, Importance and Definition of Seed Technology   | 1L                         | Lecture   | Seed Technology - Agrawal R.L. |        |
|         |             |                     |                    | 2. Seed (4 L)                              | Definition, Difference between seed and grain<br>Orthodox and Recalcitrant seed<br>Classes of seed<br>Seed quality characteristics  | 1L<br>1L<br>1L<br>1L       | Lecture<br>Lecture<br>Lecture<br>Lecture        |                                |        |
|         |             |                     |                    | 3. Seed Morphology (2 L)                   | Seed structure (embryo, endosperm and seed coat)<br>Chemical composition of seed (carbohydrates, proteins, oils, fats and other   | 1L<br>1L                   | Lecture<br>ICT                                  | Seed Technology- Ratan Lal     |        |
| 2)      | Oct., 2022  | 16                  | 6                  | 4. Seed Dormancy and Seed Germination (6L) | Definition of dormancy, Types of dormancy<br>Causes of seed dormancy<br>Methods of breaking dormancy<br>Definition of seed germination<br>Types of germination<br>Factors affecting seed germination<br>Seed vigour, Seed ageing and Seed | 1L<br>1L<br>1L<br>1L<br>1L | ICT<br>Lecture<br>Lecture<br>Lecture<br>Lecture | Seed Technology - Agrawal R.L. |        |

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|--|---------------|---------|----|--------------------------|--|----|---------|--------------------------------------|
| 3)   | Nov.,<br>2022 | 24      | 13 | 5. Genetic Purity (2L)   | viability,   | 1L | Lecture | Seed Technology-<br>Ratan Lal        |
|  |               |         |    |                          | GOT (grow out test).   | 1L | Lecture |                                      |
|  |               |         |    |                          | Germination testing, its methods (paper, sand and soil), evaluation and reporting of results | 1L | Lecture |                                      |
|  |               |         |    | 6. Quality testing (3L)  | Moisture testing: Moisture Meter and Air oven method.  | 1L | Lecture | Seed Technology<br>- Agrawal<br>R.L. |
|  |               |         |    |                          | Physical purity analysis   | 1L | Lecture |                                      |
|  |               |         |    |                          | Biochemical tests (Quick viability test (Tz), Peroxidase and Phenol colour test)             |    |         |                                      |
|  |               |         |    |                          | Aids for varietal identification: PCR, RAPD, RFLP, DNA finger printing, ELISA test.          | 1L | Lecture |                                      |
|  |               |         |    |                          |  | 1L | Lecture |                                      |
|  |               |         |    | 7. Seed Production (8 L) | General Principles of seed production,   | 1L | ICT     | Seed Technology<br>- Agrawal<br>R.L. |
|  |               |         |    |                          | Artificial pollination (Hand pollination, Dusting and Honey bee)                             | 1L | ICT     |                                      |
| Seed production techniques in hybrids (use of Male Sterility, Self Incompatability and gametocides)  | 2L            | ICT     |    |                          |  |    |         |                                      |
| Procedure of seed production in tomato, okra, soybean, cotton and maize (Land requirements, isolation requirements, brief cultural practices, plant protection, physical, chemical and biological, types of chemical pesticides-systemic and contact, roguing, harvesting and threshing) | 2L            | Lecture |    |                          |  |    |         |                                      |
|  | 1L            | Lecture |    |                          |  |    |         |                                      |

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|----|---------------|----|---|--------------------------|--|----------------------|--|-------------------------------|--|
| 4) | Dec.,<br>2022 | 10 | 4 | 8. Seed Testing<br>(4 L) | True potato seed (TPS), Artificial Seed Production<br>Objectives and Definition<br>ISTA, CSTL and SSSL<br>Seed Sampling: Definition, Sampling, Dividing and Mixing equipments<br>Procedure of sampling, (Kinds- Primary, composite, submitted and working)<br>Types of seed samples (Service, official and certification sample) | 1L<br>1L<br>1L<br>1L | Lecture<br>Lecture<br>Lecture<br>Lecture | Seed Technology-<br>Ratan Lal |  |
| 5) | Jan.,<br>2023 | 15 | 2 |                          | Revision<br>Examination  |                      |  |                               |  |

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## Department of Botany

TEACHING PLAN

Academic Year:- 2022-2023

Sem:- IV

Name of the Teacher:- Dr. N. B. Admuthe

Class:- M. Sc. Part II

Paper:- BODT 244 Plant Tissue Culture Technology

| Sr. No. | Months      | No. of Working Days | Lectures Available | Topic to be Covered       | Sub topics to be covered   | Lectures Required                              | Teaching Methods  | References   | Remark |
|---------|-------------|---------------------|--------------------|---------------------------|--|--|---|--|--------|
| 1)      | Feb., 2023  | 15                  | 7                  | 1. In vitro culture (15L) | In vitro culture<br>a) Totipotency of plant cells, de- and re-differentiation, Organogenesis and somatic embryogenesis,<br>In vitro responses of plant cells, tissue and organs- effect of source of explants, nutrient medium constituents, growth regulators and environmental factors.<br><br>b) Protoplast culture, Somatic hybridization and Cybridization, applications. | 1L<br>1L<br>1L<br><br>1L<br><br>1L<br>1L<br>1L | Lecture<br>Lecture<br>Lecture<br><br>Lecture<br><br>Lecture<br>Lecture<br>ICT | Plant Tissue Culture- S. S. Bhojwani<br><br><br><br><br><br>Plant Tissue Culture- Sharma |        |
| 2)      | March, 2023 | 24                  | 8                  |                           | c) In vitro production of haploids and their applications<br><br>d) Physiological and genetic basis of somaclonal variation and their applications<br>e) Case studies– Banana and Sugarcane: Stages of micro   | 1L<br>1L<br><br>1L<br>1L<br>2L                 | Lecture<br>Lecture<br><br>Lecture<br>Lecture<br>Lecture                       | Plant Tissue Culture- Sharma   |        |




|    |                |    |    |  |   |                |                               |  |  |
|----|----------------|----|----|--|---|----------------|-------------------------------|--|--|
|    |                |    |    |  | propagation,<br>Factors affecting micro-propagation,<br>Merits and demerits of in vitro<br>propagation,   | 1L             | Lecture                       |  |  |
|    |                |    |    |  | f) Ex-situ conservation of germplasm  | 1L             | Lecture                       |  |  |
| 3) | April,<br>2023 | 24 | 12 | 2. In vitro<br>production of<br>secondary<br>metabolites and<br>genetic<br>transformation<br>(15L) | a) Screening and selection of high<br>secondary metabolite producing cell<br>lines.   | 1L             | Lecture                       | Plant Tissue<br>Culture- S. S.<br>Bhojwani |  |
|    |                |    |    |  | b) Standardization of Culture media,<br>immobilization of cells,<br>elicitation using biotic and abiotic<br>elicitors, Biotransformation  | 1L<br>1L<br>1L | Lecture<br>Lecture<br>Lecture |  |  |
|    |                |    |    |  | c) Case studies for production of<br>secondary metabolite: Scaling up and<br>use of Bioreactor  | 2L             | Lecture                       |  |  |
|    |                |    |    |  | d) Genetic transformation of plants -<br>transfer of foreign DNA into host<br>plant tissues using Agrobacterium<br>based vectors,<br>Mechanism of integration of DNA<br>into plant genomes. | 1L<br>2L       | Lecture<br>ICT                | Plant Tissue<br>Culture- S. S.<br>Bhojwani |  |
|    |                |    |    |  | e) Factors affecting transformation,<br>Screening and<br>Analysis of transformants.   | 1L<br>1L<br>1L | Lecture<br>Lecture<br>Lecture |  |  |

|    |           |    |   |  |  |                        |                                       |  |  |
|----|-----------|----|---|--|--|------------------------|---------------------------------------|--|--|
| 4) | May, 2023 | 10 | 3 |  | f) Direct DNA transfer to plants –<br>Electroporation,<br>biolistic transfer<br><br>g) Modifications of plant secondary<br>metabolism by genetic engineering:<br>case studies<br><br>Revision<br>Examination | 1L<br><br>1L<br><br>1L | Lecture<br><br>Lecture<br><br>Lecture |  |  |
|----|-----------|----|---|--|--|------------------------|---------------------------------------|--|--|

Dr. N. B. Admuthe  
Teacher In-charge

  
 Head  
 Department of Botany  
 Dr. N. B. Admuthe  
 Department of Botany  
 Atma Babu Genu Science College, Manchar, Tal. Ambegaon, Dist. Pune.

  
 Principal  
 Atma Babu Genu Science College,  
 Manchar, Tal. Ambegaon, Dist. Pune.

Rayat Shikshan Sanstha's  
**Annasaheb Awate & Arts, Commerce Hutatma Babu Genu Science College, Manchar**  
**Department of Biotechnology**  
TEACHING PLAN

Academic Year: **2022-23** Semester: **1**  
 Name of the Teacher: Mr. Ingole D.D

Class: T.Y.B.Sc.Paper: Industrial Microbiology

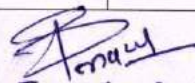
| Sr. No. | Month | No. of Working Days | Lecture Available | Topic to be covered   | Sub topic to be covered   | Lecture required | Teaching methods  | References  |
|---------|-------|---------------------|-------------------|---|---|------------------|---|---|
| 1       | Aug   | 23                  | 16                | Introduction to Industrial Microbiology:<br><br>Screening and Strain Improvement Techniques | Introduction to industrial Microbiology<br><br>Concept of Fermentation Process- Definition, Historical perspective,<br>• Typical Lay out of a typical fermentation unit.<br>• Types of fermentations: Submerged, Surface, Solid State, Dual, Batch, Continuous, Fed Batch<br>Screening and Strain Improvement Techniques:<br>• Isolation and Screening of industrially important microorganisms - Definition and Objectives   | 02<br><br>06     | 1. PPT lecture<br>2. Open board and Pen<br>3. Video/ Animation<br>4. Discussion | Industrial Microbiology<br><br>Principles Of Fermentaion Technology<br><br>Vision Publication |
| 2       | Sept  | 26                  | 17                | Bioreactor Design   | • Primary and Secondary Screening with suitable example • Strain Improvement: Objectives Methods for strain improvement with examples (mutants with altered permeability, auxotrophic mutants, analogue resistant)<br>Characteristics of an ideal Fermenter, • Construction material used, surface treatment of the material • Design of a typical Batch Fermenter, Aerator and Agitator types, Baffles, Seals and valves used, steam traps. • Different designs of | 07               | 1. PPT lecture<br>2. Open board and Pen<br>3. Video/Animation                   |   |

Sign of the Teacher Mr. Ingole. D.D Head of the Department Biotechnology

Ingole


|   |     |    |    |   |    |   |
|---|-----|----|----|---|----|---|
|   |     |    |    | bioreactors: Air Lift (internal and external loop), Packed Bed reactor, Fluidized bed reactor   |    |   |
| 3 | Oct | 25 | 15 | <p>Large Scale media and sterilization</p> <p>Media components and optimization</p> <p>Carbon sources: Cane and Beet molasses, Malt, Corn, Starch, oils, hydrocarbons, alcohols.</p> <ul style="list-style-type: none"> <li>• Nitrogen sources: Corn steep liquor, Soybean meal, peanut meal,</li> <li>• Buffering agents, Chelators, Water, Precursors, Inhibitors, Inducers Antifoams.</li> <li>• Concept of Medium Optimization : Placket and Burman design</li> </ul> <p>ii. Media Sterilization:</p> <ul style="list-style-type: none"> <li>• Principles, Del factor, Indicator organism for design of sterilization cycle,</li> <li>• Equipments used in sterilization: Batch and Continuous,</li> </ul> <p>iii. Air sterilization:</p> <ul style="list-style-type: none"> <li>• Principles, Mechanism of capture of particles in air, Fixed (absolute) and non-fixed pore (depth) filters</li> </ul> | 06 | <ol style="list-style-type: none"> <li>1. PPT lecture</li> <li>2. Open board and Pen</li> <li>3. Video/Animation</li> </ol> |
| 4 | Nov | 18 | 09 | <p>Measurement and Control of different Bioprocess parameters:</p> <p>Temperature, pH, Foam, Dissolved oxygen, Microbial biomass Concept of Scale up and scale down</p>   | 03 | <ol style="list-style-type: none"> <li>1. PPT lecture</li> <li>2. Open board and Pen</li> </ol> <p>Video/Animation</p>      |
| 5 | Dec | 05 | 05 | <p>Downstream Processing of fermentation product- Methods and equipment's</p> <p>a. Precipitation (Agents used: Salts, Organic solvents, polyelectrolytes, acids and bases)</p> <p>b. Filtration (Plate Frame. Rotary Vacuum, Filter Aids, Flocculating agents)</p> <p>c. Centrifugation (types used in Industry: basket, tubular bowl, disc bowl)</p> <p>d. Cell Disruption (Physico-mechanical and chemical methods).</p> <p>e. Solvent extraction- Liquid liquid extraction</p> <p>f. Drying : Drum and spray</p>  | 10 | <ol style="list-style-type: none"> <li>1. PPT lecture</li> <li>2. Open board and Pen</li> </ol> <p>Video/Animation</p>      |

Sign of the Teacher.

  
Mr. Ingole. D.D

Head of the Department - B. Sc. Biotechnology

|  |  |  |                                      |   |  |  |  |
|--|--|--|--------------------------------------|---|--|--|--|
|  |  |  | Large Scale<br>Manufacturing Process | Baker's yeast, Organic acid (Citric Acid), V<br>B12, lysine, alcohol ,Enzyme- amylase |  |  |  |
|--|--|--|--------------------------------------|---|--|--|--|

  
**HOD**  
Department of Biotechnology  
Annasaheb Awate College, Man...

Sign of the Teacher -

Mr. Ingole. D. D

Head of the Department :- B. Sc. Biotechnology

Rayat Shikshan Sanstha's,  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar  
Department of Mathematics  
Teaching Plan 2022-23

Name of the Teacher- Mr. Rokade M.D.

Subject: Calculus II

| Month & lectures available | Unit  | Sub unit   | Lecture allotted | Methodology / Evaluation |
|----------------------------|---|--|------------------|--------------------------|
| February (08)              | 1.Differentiation                                 | <p>1.1. The Derivatives:<br/>Definition of the derivative of a function at a point, every differentiable function is continuous, Rules of differentiation, Caratheodary's theorem(without proof), The chain rule, Derivative of inverse function (without proof , only examples).</p> <p>1.2 The Mean Value Theorems:<br/>Interior extremum theorem, Mean Value theorems and their Consequences,</p> | 08               |                          |
| March (10)                 | 2.L' Hospital Rule and Successive Differentiation | <p>Intervals of increasing and decreasing of a function, first derivative test for extrema.</p> <p>2.1 L'Hospital Rule:<br/>Indeterminate forms, L'Hospital Rules(without proof)</p> <p>2.2 Taylor's theorem: Taylor's theorem and Maclaurin's theorem with Lagrange's form of remainder( Without proof).</p>  | 02<br><br>08     |                          |

Rayat Shikshan Sanstha's,  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar**  
**Department of Mathematics**  
 Teaching Plan 2022-23

**Name of the Teacher- Mr. Rokade M.D.**

**Subject: Real analysis II**

| Month & lectures available | Unit                          | Sub unit  | Lecture allotted       | Methodology / Evaluation |
|----------------------------|-------------------------------|---|------------------------|--------------------------|
| <b>February (08)</b>       | <b>1. Riemann Integration</b> | 1.1 Sets of Measure zero<br>1.2 Definition of the Riemann Integral<br>1.3 Existence of the Riemann Integral   | <b>08</b>              |                          |
| <b>March (10)</b>          | <b>2. Improper Integrals</b>  | 1.4 Properties of the Riemann Integral<br>1.5 Fundamental Theorems of Calculus<br>2.1 Improper Integrals on Closed and Bounded Intervals<br>2.2 Tests for Convergence of Positive Integrand | <b>04</b><br><b>06</b> |                          |

Rayat Shikshan Sanstha's,  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar**  
**Department of Mathematics**  
 Teaching Plan 2022-23

**Name of the Teacher- Mr. Rokade M.D.**

**Subject: Computational Geometry**

| Month & lectures available | Unit                                       | Sub unit  | Lecture allotted | Methodology / Evaluation    |
|----------------------------|--|---|------------------|-----------------------------|
| <b>February (08)</b>       | <b>1.Two Dimensional Transformations</b>   | 1.1 Introduction.<br>1.2 Representation of points.<br>1.3 Transformations and matrices.<br>1.4 Transformation of – points, straight lines.<br>1.5 Midpoint Transformation.<br>1.6 Transformation of – parallel lines, intersecting lines.<br>1.7 Transformation: rotations, reflections, scaling.<br>1.8 Combined transformations.<br>1.9 Transformation of a unit square.<br>1.10 Solid body transformations.<br>1.11 Translations and homogeneous coordinates | <b>08</b>        | <b>Geogebra application</b> |
| <b>March (10)</b>          |  | 1.12 Rotation about an arbitrary point.<br>1.13 Reflection through an arbitrary line.<br>1.14 Projection – A Geometric Interpretation of Homogeneous Coordinates.<br>1.15 Overall Scaling<br>1.16 Points at Infinity.   | <b>04</b>        |                             |
|                            | <b>2.Three Dimensional Transformations</b> | 2.1 Introduction.<br>2.2 Three dimensional – Scaling, shearing, rotation, reflection, translation<br>2.3 Multiple transformations   | <b>04</b>        | <b>Maxima software</b>      |



Rayat Shikshan Sanstha's,  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar**  
**Department of Mathematics**  
 Teaching Plan 2022-23

**Name of the Teacher- Mr. Rokade M.D.**

**Subject: Operations research**

| Month & lectures available | Unit                                       | Sub unit  | Lecture allotted | Methodology / Evaluation |
|----------------------------|--|---|------------------|--------------------------|
| <b>August (08)</b>         | <b>1. Modeling with Linear Programming</b> | 1.1 Two variable LP Model<br>1.2 Solution of LP Model by Graphical Method<br>1.3 Selected LP Model Applications<br>1.4 Graphical Sensitivity analysis.  | <b>08</b>        | <b>ICT</b>               |
| <b>September (10)</b>      | <b>2. The Simplex Method and Duality</b>   | 2.1 LP Model in equation form<br>2.2 Transition from graphical to algebraic solutions<br>2.3 The Simplex method.<br>2.4 Definition of the dual problem<br>2.5 Primal dual relationship<br>2.6 Economic interpretation of Duality. | <b>12</b>        |                          |

Rayat Shikshan Sanstha's,  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar**  
**Department of Mathematics**  
 Teaching Plan 2022-23

**Name of the Teacher- Mr. Rokade M.D.**

**Subject: Real analysis I**

| Month & lectures available | Unit                               | Sub unit   | Lecture allotted | Methodology / Evaluation |
|----------------------------|------------------------------------|--|------------------|--------------------------|
| <b>August (08)</b>         | <b>1.Logic and Set theory</b>      | 1.2 "And" and "Or"<br>1.3 "Not" and "If-Then"<br>1.4 Contrapositive, Converse, and Iff<br>1.5 Quantifiers<br>1.6 Set Theory and Venn Diagrams<br>1.7 Relations and Functions<br>1.8 Countable and Uncountable Sets | <b>10</b>        |                          |
| <b>September (10)</b>      | <b>2.Sequences of Real Numbers</b> | 2.1 Definition of sequence and subsequence<br>2.2. Limit of a sequence<br>2.3 Convergent sequences<br>2.4 Divergent sequences<br>2.5 Bounded sequences<br>2.6 Monotone sequences                                   | <b>07</b>        |                          |

Rayat Shikshan Sanstha's,  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar**  
**Department of Mathematics**  
 Teaching Plan 2022-23

Name of the Teacher- **Mr. Rokade M.D.**

Subject: **Calculus I**

| Month & lectures available | Unit           | Sub unit   | Lecture allotted | Methodology / Evaluation |
|----------------------------|----------------|--|------------------|--------------------------|
| August<br>(08)             | 1.Real Numbers | 1.1 The Algebraic and Order Properties of R:<br>Algebraic properties of R, Order properties of R, Well-Ordering Property of N. Arithmetic mean-Geometric mean inequality, Bernoulli's inequality.<br><br>1.2 Absolute Value and the Real Line:<br>Absolute value function and its properties, triangle inequality and its consequences, neighborhood of a point on real line.<br>1.3 The Completeness Property of R:<br>Definitions of Upper bound, Lower bound, supremum, infimum of subsets of R, completeness property of R.<br>1.4 Applications of the Supremum Property:<br>Archimedean property and its consequences, The density theorem (without proof). | 06               |                          |
|                            | 2.Sequences    | 2.1 Sequences and Their Limits:<br>Definition and examples of sequences of real numbers, Definition of limit of sequence and uniqueness of limit, Examples on limit of sequence.   | 02               |                          |

**Rayat Shikshan Sanstha's,  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar  
Department of Mathematics  
Teaching Plan 2022-23**

**Name of the Teacher- Mr. Rokade M.D.**

**Subject: Business Statistics**

| Month & lectures available | Unit  | Sub unit  | Lecture allotted |
|----------------------------|---|---|------------------|
| August (12)                | 1. Concept of statistics.                           | Role of statistics. In informatics business science Tabulation, Data condensations and tabulation, Data Condensation and graphical Methods :Raw data , attributes and variables , classification, frequency distribution ,cumulative frequency distributions. Graphs - Histogram, Frequency polygon. Diagrams - Multiple bar , Pie .Subdivided bar. | 12               |
| September (14)             | 2. Measures of central tendency and dispersion      | Criteria for good measures of central tendency, Arithmetic mean, Median and Mode for grouped and ungrouped data, combined mean.   | 12               |
| October (14)               | 3. Measures of Dispersion :                         | Concept of dispersion , Absolute and relative measure of dispersion, Range, Variance, Standard deviation, Coefficient of variation, Quartile Deviation , Coefficient of Quartile deviation.   | 12               |
| November (14)              | 4. Correlation and Regression( for ungrouped data ) | Concept of correlation, positive & negative correlation, Karl Pearson's Coefficient of correlation, meaning of regression, Two regression equations, Regression coefficients and properties.  | 12               |

*M.D. Rokade*  
Sub teacher

*M.D. Rokade*  
Head  
Department of Mathematics

*M.D. Rokade*  
ANNASAHAB AWATE COLLEGE  
MANCHAR (DIST. PUNE)

Rayat Shikshan Sanstha's,  
**Annasaheb Awate College Manchar, Dist-Pune**  
 Department of Mathematics  
 Teaching Plan 2022-23

Name of the Teacher- Mr. Shete R.K.

Subject: Programming in Python I

| Month & lectures available | Unit                   | Sub unit   | Lecture allotted | Methodology / Evaluation |
|----------------------------|------------------------|--|------------------|--------------------------|
| September<br>(14)          | Introduction to Python | <ul style="list-style-type: none"> <li>• Installation of Python</li> <li>• Values and types: int, float and str,</li> <li>• The Print Function: Print basics</li> <li>• Variables: assignment statements, printing variable values, types of variables.</li> <li>• Mathematical Operators, operands and precedence: +, -, /, *, **, % PEMDAS (Rules of precedence)</li> <li>• String operations: + : Concatenation, * : Repetition</li> <li>• Boolean operator:</li> <li>• Comparison operators: ==, !=, &gt;, =, &lt;=</li> <li>• Logical operators: and, or, not</li> <li>• Mathematical functions from math, cmath modules, random module</li> <li>• Keyboard input: input() statement</li> <li>• Calculus: Differentiation, Integration, Limit and Series</li> </ul> | 6                | Lecture Method           |
|                            | String, list, tuple    | <ul style="list-style-type: none"> <li>• Strings : Length (Len function) , String traversal: Using while statement, Using for statement , String slice , Comparison operators</li> <li>• List : List operations , Use of range function ,Accessing list elements .List membership and for loop ,List operations ,</li> </ul>   | 6                |                          |

Rayat Shikshan Sanstha's,  
**Annasaheb Awate College Manchar, Dist-Pune**  
 Department of Mathematics  
 Teaching Plan 2022-23

Name of the Teacher- Mr. Shete R.K.

Subject: Mathematics into LaTeX

| Month & lectures available | Unit                 | Sub unit   | Lecture allotted | Methodology / Evaluation |
|----------------------------|----------------------|--|------------------|--------------------------|
| February<br>( 10)          | Figure Insertion     | <ul style="list-style-type: none"> <li>• Commands and Environment for Inserting Figures</li> <li>• Inserting a Simple Figure</li> <li>• Side-by-Side Figures</li> <li>• Sub-numbering a Group of Figures</li> <li>• Figures in Tables</li> </ul> | 06               | Lecture method           |
|                            | Equation Writing -I  | <ul style="list-style-type: none"> <li>• Basic Mathematical Notations and Delimiters.</li> <li>• Mathematical Operators</li> <li>• Mathematical Expressions in Text-Mode</li> </ul>  | 04               |                          |
| March<br>(14)              | Equation Writing -I  | <ul style="list-style-type: none"> <li>• Simple Equations</li> <li>• Array of Equations</li> <li>• Left Aligning an Equation</li> <li>• Sub-numbering a Set of Equations</li> </ul>  | 08               |                          |
|                            | Equation Writing -II | <ul style="list-style-type: none"> <li>• Texts and Blank Space in Math-Mode</li> <li>• Conditional Expression</li> <li>• Evaluation of Functional Values</li> </ul>  | 04               |                          |

|               |                         |  |    |  |
|---------------|-------------------------|--|----|--|
| April<br>(14) | Equation Writing<br>-II | <ul style="list-style-type: none"> <li>• Splitting an Equation into Multiple Lines</li> <li>• Vector and Matrix</li> <li>• Overlining and Underlining</li> <li>• Stacking Terms</li> <li>• Side-by-Side Equations</li> </ul> | 08 |  |
|               | User-Defined<br>Macros  | <ul style="list-style-type: none"> <li>• Defining New Commands</li> <li>• Defining New Environments</li> </ul>   | 06 |  |

*pt*  
Subject  
Teacher

*Head*  
Head  
Department of Mathematics

*Principal*  
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MANCHAR. (DIST. UNB)

Rayat Shikshan Sanstha's,  
Annasaheb Awate College Manchar, Dist-Pune  
Department of Mathematics  
Teaching Plan 2022-23

Name of the Teacher- Mr. Shete R.K.

Subject: Programming in Python – II

| Month & lectures available | Unit                           | Sub unit   | Lecture allotted | Methodology / Evaluation |
|----------------------------|--------------------------------|--|------------------|--------------------------|
| February<br>( 10)          | Graphics                       | <ul style="list-style-type: none"><li>• Turtle Graphics: Overview of Turtle Graphics , Turtle Operations, Object Instantiation and the turtle graphics Module.</li><li>• Drawing Two-Dimensional Shapes</li><li>• Taking a Random Walk</li><li>• Colors and the RGB System</li><li>• Drawing with Random Colors</li><li>• Using the str Function with Objects.</li></ul> | 06               | Lecture Method           |
|                            | Data Visualization with Python | <ul style="list-style-type: none"><li>• Seaborn</li><li>• Matplotlib</li><li>• Plotly</li><li>• MayaVI</li></ul>   | 04               |                          |



|                       |  |   |                     |  |
|-----------------------|--|---|---------------------|--|
| <p>March<br/>(14)</p> | <p>Dictionary and Sorting, Minimum and Maximum</p> <p>Computational Geometry</p> | <ul style="list-style-type: none"> <li>• Introduction to Dictionary , Avoiding Key Error Exceptions, Iterating Over a Dictionary,</li> <li>• Dictionary with default values, Merging dictionaries, Accessing keys and values, Accessing values of a dictionary, Creating dictionary, Creating an ordered dictionary, Unpacking dictionaries using the ** operator.</li> <li>• Sorting, Minimum and Maximum: Special case: dictionaries, Using the key argument, Default Argument to max, min, Getting a sorted sequence, Extracting N largest or N smallest items from an iterable, Getting the minimum or maximum of several values, Minimum and Maximum of a sequence.</li> <li>• Points: The distance between two points, Lists of Points - the PointList class, Integer point lists, Ordered Point sets, Extreme Points of a PointList, Random sets of Points not in general position.</li> <li>• Points: Displaying Points and other geometrical objects, Lines, rays, and line segments, The geometry of line segments, Displaying lines, rays and line segments.</li> <li>• Polygon: Representing polygons in Python, Triangles, Signed area of a triangle, Triangles and the relationships of points to lines, is Collinear, is Left, is Left On, is Right, is Right On, Between</li> </ul> | <p>08</p> <p>06</p> |  |
| <p>April<br/>(12)</p> | <p>Computational Geometry</p> <p>Study of Operational Research in Python</p>     | <ul style="list-style-type: none"> <li>• Two dimensional rotation and reflection</li> <li>• Three dimensional rotation and reflection</li> <li>• Generation of Bezier curve with given control points</li> <li>• Linear Programming in Python</li> <li>• Introduction to Simplex Method in Python</li> </ul>  | <p>04</p> <p>08</p> |  |

*PS*  
Subject  
Teacher

*M. S. B.*  
Head  
Department of Mathematics

*K. K. K.*  
PRINCIPAL  
ANNAMALAI  
MANS.

Rayat Shikshan Sanstha's,  
Annasaheb Awate College Manchar, Dist-Pune  
Department of Mathematics  
Teaching Plan 2022-23

Name of the Teacher- Mr. Shete R.K.

Subject: Ring Theory

| Month & lectures available | Unit                                 | Sub unit  | Lecture allotted | Methodology / Evaluation |
|----------------------------|--------------------------------------|---|------------------|--------------------------|
| February<br>( 10)          | Rings and Fields                     | <ul style="list-style-type: none"> <li>• Ring, Subring, Fields.</li> <li>• Divisors of zero, Integral Domain, The Characteristics of a Ring.</li> <li>• The Field of Quotients of an Integral Domain.</li> </ul>  | 08               | Lecture Method           |
| March<br>( 14)             | Rings of Polynomials & Factorization | <ul style="list-style-type: none"> <li>• Polynomials in an determinate,</li> <li>• The Evaluation Homomorphism Zeros.</li> <li>• Factorization of a Polynomial over a Field: The Division Algorithm in <math>F[x]</math></li> <li>• Irreducible Polynomials, Uniqueness of Factorization in <math>F[x]</math>.</li> </ul> | 08               |                          |
|                            | Ideals and Factor Rings              | <ul style="list-style-type: none"> <li>• Homomorphism, Properties of Homomorphism</li> <li>• Ideals, Factor Ring, Fundamental Homomorphism Theorem.</li> <li>• Maximal Ideal, Prime Ideal, Ideal Structure in <math>F[x]</math>.</li> </ul>   | 08               |                          |
| April<br>(14)              | Factorization                        | <ul style="list-style-type: none"> <li>• Unique Factorization Domain, Principal Ideal Domain, Gauss Lemma, <math>D[x]</math> is a UFD.</li> <li>• Euclidean Norm, Euclidean Domain, Euclidean Algorithm (Without Proof).</li> <li>• Gaussian Integers, Multiplicative Norm.</li> </ul>                                    | 12               |                          |

*RS*  
Subject  
Teacher

*W/12/23*  
Department of Mathematics

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MANCHAR, DIST. PUNE

Rayat Shikshan Sanstha's,  
Annasaheb Awate College Manchar, Dist-Pune  
Department of Mathematics  
Teaching Plan 2022-23

Name of the Teacher- Mr. Shete R.K.

Subject: LaTeX for Scientific Writing

| Month & lectures available | Unit                                    | Sub unit  | Lecture allotted | Methodology / Evaluation |
|----------------------------|---|---|------------------|--------------------------|
| September<br>(14)          | Introduction to LaTeX                   | <ul style="list-style-type: none"> <li>• Definition and application of LaTeX</li> <li>• Preparation and Compilation of LaTeX input file</li> <li>• LaTeX Syntax</li> <li>• Keyboard Characters in LaTeX</li> </ul>  | 06               | Lecture Method           |
|                            | Formatting Words, Lines, and Paragraphs | <ul style="list-style-type: none"> <li>• Text and Math Mode Fonts.</li> <li>• Emphasized and Colored Fonts</li> <li>• Sectional Units</li> <li>• Labeling and Referring Numbered Items</li> <li>• Texts Alignment and Quoted text</li> <li>• New Lines and Paragraphs</li> <li>• Creating and Filling Blank Space</li> <li>• Producing Dashes Within Texts</li> </ul>                             | 09               |                          |
| October<br>(10)            | Listing and Tabbing Texts               | <ul style="list-style-type: none"> <li>• Listing Texts</li> <li>• Tabbing Texts Through the tabbing Environment</li> </ul>  | 09               |                          |
| November<br>(14)           | Table Preparation                       | <ul style="list-style-type: none"> <li>• Table Through the tabular Environment</li> <li>• Table Through the tabularx Environment</li> <li>• Vertical Positioning of Tables</li> <li>• Sideways (Rotated) Texts in Tables</li> <li>• Adjusting Column Width in Tables</li> <li>• Additional Provisions for Customizing Columns of Tables</li> <li>• Merging Rows and Columns of Tables.</li> </ul> | 12               |                          |

*RS*  
Subject  
Teacher

*MR. SHETE*  
Department of Mathematics


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ANNASAHEB AWATE COLLEGE  
MANCHAR, DIST. PUNE


Rayat Shikshan Sanstha's,  
**Annasaheb Awate College Manchar, Dist-Pune**  
 Department of Mathematics  
 Teaching Plan 2022-23


Name of the Teacher- Mr. Shete R.K.

Subject: Group Theory

| Month & lectures available | Unit                            | Sub unit  | Lecture allotted | Methodology / Evaluation |
|----------------------------|---------------------------------|---|------------------|--------------------------|
| September<br>(14)          | Group Theory                    | <ul style="list-style-type: none"> <li>• Binary Operation</li> <li>• Isomorphic Binary Structures</li> <li>• Groups</li> </ul>  | 6                | Lecture Method           |
|                            | Subgroup                        | <ul style="list-style-type: none"> <li>• Subgroups</li> <li>• Cyclic Groups</li> </ul>  | 6                |                          |
| October<br>(10)            | Permutations                    | <ul style="list-style-type: none"> <li>• Groups of Permutations</li> <li>• Orbits</li> <li>• Cycles</li> <li>• Alternating Groups</li> <li>• Cosets and the Theorem of Lagrange</li> <li>• Direct Products</li> </ul> | 12               |                          |
| November<br>(14)           | Homomorphisms and Factor Groups | <ul style="list-style-type: none"> <li>• Homomorphisms</li> <li>• Factor Groups</li> <li>• Factor Group Computations and Simple Groups</li> </ul>   | 12               |                          |

  
 Subject  
 Teacher

  
 Head  
 Department of Mathematics

  
 PRINCIPAL  
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 MANCHAR, (DIST.PUNE)

Rayat Shikshan Sanstha's,  
**Annasaheb Awate College Manchar, Dist-Pune**  
 Department of Mathematics  
 Teaching Plan 2022-23

Name of the Teacher- Mr. Fasale V.B.

Subject: Complex Analysis

| Month & lectures available | Unit                                  | Sub unit  | Lecture allotted | Methodology / Evaluation |
|----------------------------|---------------------------------------|---|------------------|--------------------------|
| February<br>( 10)          | Analytic functions                    | <ul style="list-style-type: none"> <li>• Functions of a Complex Variables</li> <li>• Limits, Theorems on limits (Without Proof), Limits involving the point at infinity, Continuity, Derivatives, Differentiation formulas</li> <li>• Cauchy- Riemann Equations, Sufficient Conditions for differentiability</li> <li>• Polar coordinates, Analytic functions, Harmonic functions</li> </ul>  | 09               | Lecture Method           |
| March<br>(14)              | Elementary Functions<br><br>Integrals | <ul style="list-style-type: none"> <li>• The Exponential functions</li> <li>• The Logarithmic function, Branches and derivatives of logarithms, Some identities involving logarithms</li> <li>• Complex exponents, Trigonometric functions.</li> </ul><br><ul style="list-style-type: none"> <li>• Derivatives of functions, Definite integrals of functions</li> <li>• Contours, Contour integral, Examples</li> <li>• Upper bounds for Moduli of contour integrals, Anti-derivatives</li> </ul> | 07<br><br>07     |                          |

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**Department of Mathematics**  
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Name of the Teacher- Mr. Fasale V.B.

Subject: Linear Algebra

| Month & lectures available | Unit                                    | Sub unit  | Lecture allotted | Methodology / Evaluation |
|----------------------------|---|---|------------------|--------------------------|
| February<br>(10)           | Matrices and System of Linear Equations | <ul style="list-style-type: none"> <li>• Row echelon form of a matrix, reduced row echelon form of a matrix.</li> <li>• Definition of rank of a matrix using row echelon or row reduced echelon form.</li> <li>• System of linear equations- Introduction, matrix form of linear system, definition of row equivalent matrices.</li> <li>• Consistency of homogeneous and non-homogeneous system of linear equations using rank, condition for consistency.</li> <li>• Solution of System of Equations: Gauss elimination and Gauss-Jordan elimination method, examples.</li> </ul> | 06               | Lecture Method           |
|                            | Vector Spaces-I                         | <ul style="list-style-type: none"> <li>• Definition and Examples.</li> <li>• Subspaces.</li> </ul>  | 04               |                          |
| March<br>(14)              | Vector Spaces-I                         | <ul style="list-style-type: none"> <li>• Linear Dependence and Independence.</li> <li>• Basis of Vector Space</li> </ul>  | 06               |                          |
|                            | Vector Spaces-II                        | <ul style="list-style-type: none"> <li>• Dimension of a Vector Space.</li> <li>• Row, Column and Null Space of a matrix.</li> <li>• Rank and nullity</li> </ul>   | 08               |                          |

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Teaching Plan 2022-23

Name of the Teacher- Mr. Fasale V.B.

Subject: Calculus of several variables

| Month & lectures available | Unit  | Sub unit   | Lecture allotted | Methodology / Evaluation |
|----------------------------|---|--|------------------|--------------------------|
| February (08)              | 1.Limits and Continuity                     | 1.1 Functions of Several Variables :- Functions of two variables, Domain and Range, Graphs, Level Curves, Functions of Three or More Variables<br>1.2 Limits and Continuity.   | 06               |                          |
| March (10)                 | 2.Partial Derivatives and Differentiability | 2.1 Definition and examples.<br>2.2 Higher Derivatives, Clairaut's Theorem (Statement Only) , Partial Differential Equations, Wave equation.<br>2.3 Differentiable function, Differentials<br>2.4 Chain Rule, Homogeneous Functions, Euler's theorem | 10               |                          |

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 Teaching Plan 2022-23

**Name of the Teacher- Mr. Fasale V.B.**

**Subject: Algebra**

| Month & lectures available | Unit  | Sub unit   | Lecture allotted | Methodology/ Evaluation |
|----------------------------|---|--|------------------|-------------------------|
| August (08)                | 1.Sets<br>Relations and<br>Functions        | 1.1 Sets, Relations, Equivalence relations, Equivalence classes and partitions of a set<br><br>1.2 Functions, Basic terminology, Types of Functions, Inverse of a Function, Composition of Functions (Excluding theorems only examples). | 08               | Lecture                 |
| September (10)             | 2.Divisibility<br>Theory in the<br>Integers | 2.1 Mathematical Induction: Well-Ordering Principle.<br><br>2.2 The Division Algorithm, The Greatest Common Divisor, Euclid's Lemma, The Least Common Multiple, The Euclidean Algorithm.   | 10               |                         |



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 Teaching Plan 2022-23

Name of the Teacher- Mr. Fasale V.B.

Subject: Ordinary Differential Equations

| Month & lectures available | Unit   | Sub unit  | Lecture allotted | Methodology / Evaluation |
|----------------------------|--|---|------------------|--------------------------|
| August (08)                | 1.Linear Differential Equations with constant coefficients | 1.1 Constant coefficient homogeneous equations<br>1.2 Characteristic equations<br>1.2.1 distinct real roots<br>1.2.2 repeated roots<br>1.2.3 complex roots  | 08               |                          |
| September (10)             | 2.Non - Homogeneous Linear Equations                       | 1.3 Particular solution<br>1.4 Initial value problem<br>1.5 The operator $\frac{1}{f(D)}$ and its evaluation for the functions $x^m, e^{ax}, e^{ax} v, xv$ and the operator $\frac{1}{D^2+a^2}$ acting on $\sin ax$ and $\cos ax$ with proofs.<br>2.1 Principle of superposition<br>2.2 Method of undetermined coefficients<br>2.3 Method of reduction of order | 04<br><br>06     |                          |

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Name of the Teacher- Mr. Fasale V.B.

Subject: Analytical Geometry

| Month & lectures available | Unit                                   | Sub unit  | Lecture allotted | Methodology / Evaluation |
|----------------------------|--|---|------------------|--------------------------|
| February<br>(10)           | Analytical Geometry of Two Dimension   | <ul style="list-style-type: none"> <li>Change of axes: translation and rotation.</li> <li>Conic Sections: General equation of second degree in two variables</li> <li>Reduction to standard form, center of conic, nature of conic..</li> </ul>   | 10               | Lecture Method           |
| March<br>(14)              | Planes<br><br>Lines in three dimension | <ul style="list-style-type: none"> <li>Direction cosines and direction ratios, Equation of plane, Normal form, Transform to the normal form, Plane passing through three non-collinear points, Intercept form, Angle between two planes.</li> <li>Distance of a point from a plane, Distance between parallel planes, Systems of planes, two sides of planes, Bisector planes</li> <li>Equations of a line in Symmetric and unsymmetrical forms, Line passing through two points, Angle between a line and a plane</li> </ul> | 10<br><br>04     |                          |
| April<br>(14)              | Lines in three dimension<br><br>Sphere | <ul style="list-style-type: none"> <li>Perpendicular distance of a point from a plane, Condition for two lines to be coplanar Linear Isomorphism</li> <li>Equation of a sphere in different forms, plane section of a sphere.</li> <li>Equation of a circle, sphere through a given circle</li> <li>Intersection of a sphere and a line, Equation of tangent plane to sphere.</li> </ul>  | 04<br><br>08     |                          |

*Fasale V.B.*  
Sub-Teacher

*Fasale V.B.*  
Head  
Department of Mathematics

*Fasale V.B.*  
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Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar  
Department of Electronic Science  
Teaching Plan: 2022-23

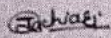
Name of the Teacher: Mg. J.B. Khilari

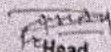
Class: F.Y.B.Sc


Sem: I

Paper: Paper I: EL- 111: Basics of Applied Electronics

| Month     | No. of working days | Lectures available | Topic to be covered                        | Sub Topic  | Lecture required | Teaching methods                        | References   |
|-----------|---------------------|--------------------|--|--|------------------|---|--|
| July 2022 | 26                  | 10                 | Unit 1: Fundamentals of Electronics        | Introduction to Electronics, applications of Electronics   | 12               | 1. Chalk & Talk Method<br>2. Discussion | Electronic Principles by Malvino                                       |
| Aug 2022  | 23                  | 10                 |  | Electronic Components: Resistors, Capacitors, Inductors, Relays, Batteries, Switches, cables and connectors, fuses (Only basic concept, working, Specifications and application is expected)<br>Series and parallel combination of resistors, capacitors and inductors<br>Voltage and Current Sources: Input and output impedance of AC and DC voltage and/or current sources<br>Variable and constant voltage and current sources |                  |   |  |
| Sep 2022  | 25                  | 12                 | Unit 2: Network Theorems                   | KVL and KCL, Thevenin, Norton and superposition, maximum power transfer theorems DC and AC analysis of network   | 10               | 1. Chalk & Talk Method<br>2. Discussion | Consumer Electronics by J. S. Chitode Technical Publications, Jan-2007 |
| Oct 2022  | 19                  | 12                 |  | Numerical problems based on these network theorems   |                  |   |  |
| Nov 2022  | 25                  | 06                 | Unit 3: Introduction to electronic systems | Building blocks, working principle and features of Smart Phone System, Security systems: Surveillance Camera System CCTV, Public Address System and thermostat   | 10               | 1. Chalk & Talk Method<br>2. Discussion | Consumer Electronics by J. S. Chitode Technical Publications, Jan-2007 |

  
Signature of Teacher

  
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
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**Annasaheb Awate Arts, Commerce & Hufatma Babu Genu Science College, Manchar**  
 Department of Electronic Science  
Teaching Plan: 2022-23

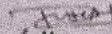
Name of the Teacher: Mr. J.B. Khilari

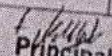
Class: F.Y.B.Sc Sem: II

Paper: Paper II: EL- 122: Analog and Digital Device applications

| Month    | No. of working days | Lectures available | Topic to be covered                 | Sub Topic   | Lecture required | Teaching methods                        | References   |
|----------|---------------------|--------------------|-------------------------------------|---|------------------|---|--|
| Jan 2023 | 13                  | 10                 | Unit 1: OPERATIONAL AMPLIFIERS      | Definition, Basic op-amp Ideal op-amp, Block diagram of op-amp, Ideal and practical characteristics of inverting, non inverting configuration, virtual ground Introduction of OPAMP ICs (comparative study)   | 08               | 1. Chalk & Talk Method<br>2. Discussion | M. Morris Mano, "Digital Design" 3rd Edition, PHI, New Delhi<br><br>Op Amp and Linear Integrated Circuits By Ramakant Gaykward |
| Feb 2023 | 23                  | 12                 | Unit 2: OP-AMP APPLICATION CIRCUITS | Waveshaping circuits using integrator and differentiator, ON-OFF controller using comparator or Schmitt trigger, Function generator, Audio amplifier, V to I converter, PWM generation  | 10               | 1. Chalk & Talk Method<br>2. Discussion | M. Morris Mano, "Digital Design" 3rd Edition, PHI, New Delhi<br><br>Op Amp and Linear Integrated Circuits By Ramakant Gaykward |
| Mar 2023 | 24                  | 10                 |                                     | IC-555 - functional block diagram, formula of output frequency, duty cycle, pin diagram, astable, monostable and bistable operation<br>Application circuits: Moisture detector circuit, PWM generation, PSK generator, 50% duty cycle circuit using diode |                  |   |  |
| Apr 2023 | 25                  | 12                 | Unit 3: DATA CONVERTERS             | D/A converter: R-2R Ladder network, Binary Weighted<br>A/D converter: Counter type ADC, Successive Approximation ADC,<br>Basic operation and block diagram: Digital thermometer   | 10               | 1. Chalk & Talk Method<br>2. Discussion | M. Morris Mano, "Digital Design" 3rd Edition, PHI, New Delhi<br><br>Op Amp and Linear Integrated Circuits By Ramakant Gaykward |
| May 2023 | 25                  | 06                 |                                     |   |                  |   |  |

  
Signature of Teacher

  
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Principal  
Annasaheb Awate College,  
Manchar, Dist. Pune

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Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar  
Department of Electronic Science  
Teaching Plan: 2022-23


Name of the teacher: Ms. Afroj M Dange

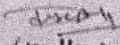
Sem: III

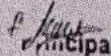
Class: SYBSc

Subject/Paper: EL231: Paper - I: Communication Electronics

| Month          | No. of working days | Lectures available | Topic to be covered                              | Sub Topic   | Lecture required | Teaching methods   | References  |
|----------------|---------------------|--------------------|--|---|------------------|--|---|
| July 2022      | 26                  | 12                 | Unit 1: Introduction to Electronic Communication | Introduction to communication- means and modes, Block diagram of an electronic communication system, Electromagnetic spectrum, Brief idea of frequency allocation for radio communication system in India (TRAI) concept of Noise, signal-to-noise (S/N) ratio, Noise figure and noise temperature Need of modulation and demodulation  | 06               | 1.PPT, 2.Whiteboard/Blackboard                               | 1. Communication Electronics: Principles and applications by Louis E Prenzler 3rd edition TMH Publications<br>2. Electronics Communication Systems by Deris Buddy, John Coobes, PHI publication.<br>3. Kennedy, George & Davis Bernard / "Electronic Communication Systems" / Tata McGraw-Hill / 4th Ed.<br>4. Singh, R.P. & Sapre, S.D. / "Communication Systems: Analog & Digital" / Tata McGraw- Hill. |
| August 2022    | 23                  | 12                 | Unit 2: Continuous-wave modulation techniques:   | Amplitude modulation: AM waveform, mathematical expression of AM, concept of sideband, Definition and problems: modulation index, power distribution, AM using transistor, AM Receiver: demodulator circuit using diode and super-heterodyne receiver, characteristics of receiver: selectivity, sensitivity, Image frequency and dynamic range. Block diagram of AM communication system | 12               | 1.PPT 2.Video/Animation 3. Chalk & Talk Method 3. Discussion |   |
| September 2022 | 25                  | 12                 | Unit 3: Pulse modulation techniques:             | Frequency modulation: FM waveform, mathematical representation, frequency spectrum, bandwidth and modulation index., problems based on modulation index, frequency deviation, average power. FM Modulation using varactor diode. FM Demodulator: Foster-Seefey detector. Block Diagram of FM communication system   | 06               | 1.PPT Lecture, 2.Video/Animation 3. Discussion               |   |
| September 2022 | 25                  |                    | Unit 4: Introduction to digital communication:   | Types of analog pulse modulation: concept and generation of PAM, PWM, PPM, Spectra of pulse modulation, concept of time division multiplexing and frequency division multiplexing   | 08               | 1.PPT Lecture, 2.Video/Animation 3. Discussion               |   |
| October 2022   | 19                  | 08                 |  | Block diagram of digital communication system, advantages of digital communication system, bit rate, baud rate and bandwidth, Serial and parallel communication, concept of sampling, Sampling theorem, PCM concept of Keying techniques: ASK, FSK, PSK Block diagram of MODEM  |                  |  |   |

  
Signature of Teacher

  
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Principal  
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Department of Electronic Science

Teaching Plan: 2022-23

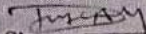
Sem: VI

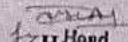
Name of the Teacher: Ms. Afroj M Dange

Class: SYBSc

Subject/Paper: EL-241: Microcontroller & Python Programming

| Month       | No. of working days | Lectures available | Topic to be covered                           | Sub Topic  | Lecture required | Teaching methods  | References   |
|-------------|---------------------|--------------------|---|--|------------------|---|--|
| Jan 2023    | 25                  | 12                 | Unit 1: Introduction to Microcontroller       | Introduction to Arduino: Microcontrollers used in Arduino, Pin configuration and architecture, Concept of digital and analog ports.  | 04               | 1.PPT Lecture, 2.Video/Animation                                      | 1. Arduino Made Simple by Ashwin Pajankar  |
| Feb 2023    | 23                  | 12                 | Unit-2 Building blocks of Arduino programming | Variables and data types, Comparison Operators (arithmetic, logical and relational, modulo and assignment) Statements: If-Else Statement, Switch statement<br>Control structures: While and For Loop<br>Writing arduino programs: LED blinking and Push button Serial Port Communication<br>Function blocks: Analogread(), digitalread() functions Intensity control of LED with Pulse Width Modulation using analogWrite()  | 10               | 1.PPT Lecture, 2.Video/Animation 3 Discussion                         | 1. Text book of Electronics by Nirali Prakashan 2. Arduino Made Simple by Ashwin Pajankar                      |
| Mar ch 2023 | 24                  | 12                 | Unit 3: Introduction to Python                | Understanding Python variables, Python basic Operators, understanding python blocks, Declaring and using Numeric data types: int, float, complex, Using string data type and string operations, Defining list and list slicing, Use of Tuple data type, Conditional blocks using if, else and elif, Simple for loops in python, For loop using ranges, string, list and dictionaries, Use of while loops in python, Loop manipulation using pass, continue, break and else<br>Programming using Python conditional and loops block | 12               | 1.PPT Lecture, 2.Video/Animation 3. Chalk & Talk Method 3. Discussion | 1. Text book of Electronics by Nirali Prakashan 2.Introduction to Problem Solving with Python, E. Balagurusamy |
| Apr i 2023  | 25                  | 12                 | Unit:4 Python Functions, Modules and Packages | Organizing python codes using functions, organizing python projects into modules, Importing own module as well as external modules, Programming using functions, modules and external packages Building blocks of python programs, understanding string in built methods, List manipulation using in built methods, Dictionary manipulation, Programming using string, list and dictionary in built functions, tuples  | 10               | 1.PPT Lecture, 2.Video/Animation 3.Discussion                         | 1. Introduction to Problem Solving with Python, E. Balagurusamy  |

  
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**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar**  
 Department of Electronic Science

Teaching Plan: 2022-23

Sem: V

Class: TYBSc Paper: EL 351: Paper I: Advanced Digital System Design

Name of the Teacher: Ms. J.B.Khilari

| Month     | No. of working days | Lectures available | Topic to be covered                                | Sub Topic   | Lecture required | Teaching methods                                 | References  |
|-----------|---------------------|--------------------|--|---|------------------|--|---|
| July 2022 | 26                  | 12                 | UNIT 1: Introduction to Verilog                    | A Brief History of HDL, Structure of HDL Module, Comparison of VHDL and Verilog, Introduction to Simulation and Synthesis Tools, Test Benches, Verilog Modules, Delays, data flow style, behavioral style, structural style, mixed design style, simulating design Introduction to Language Elements: Keywords, Identifiers, White Space Characters, Comments, Format, Integers, Reals and Strings, Logic Values, Data Types-net types, undeclared nets, scalars and vector nets, Register type, Parameters, Expressions, Operands, Operators, types of Expressions | 12               | 1. Chalk & Talk Method<br>2. Discussion<br>3.PPT | Verilog HDL: A Guide to Digital Design & Synthesis, Samir Palnitkar |
| Aug 2022  | 23                  | 12                 | UNIT 2: Modeling Styles                            | Data flow Modeling: Continuous assignment, net declaration assignments, delays, net delays. Behavioral Modeling: Procedural constructs, timing controls, block statement, procedural assignments, conditional statement, loop statement, procedural continuous assignment<br>Gate level modeling: Introduction, built in Primitive Gates, multiple input gates, Tri-state gates, MOS switches, bidirectional switches, gate delay, array instances, implicit nets, Examples (both combinational and sequential logic circuits)                                      | 12               | 1. Chalk & Talk Method<br>2. Discussion<br>3.PPT | Verilog HDL: A Guide to Digital Design & Synthesis, Samir Palnitkar |
| Sep 2022  | 25                  | 12                 | UNIT 3: Logic synthesis with Verilog               | Concept of logic synthesis, Synthesis design flow, Synthesis of combinational logic for two bit magnitude comparator, Synthesis of Sequential Logic with Flip-Flops   | 08               | 1. Chalk & Talk Method<br>2. Discussion<br>3.PPT | Verilog HDL: A Guide to Digital Design & Synthesis, Samir Palnitkar |
| Oct 2022  | 19                  | 12                 | UNIT 4: Introduction to Programmable Logic Devices | Introduction of Programmable Logic Array (PLA), Programmable Array Logic (PAL), Programmability of PLDs, Complex PLDs (CPLDs), Field-Programmable Gate Arrays   | 06               | 1. Chalk & Talk Method<br>2. Discussion<br>3.PPT | Verilog HDL: A Guide to Digital Design & Synthesis, Samir Palnitkar |
| Nov 2022  | 25                  | 12                 |  |   |                  |  |   |

*J.B. Khilari*  
Signature of Teacher

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Department of Electronic Science  
Teaching Plan: 2022-23

Name of the Teacher: Mr. S.A. Belage

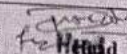
Class: TYBSc

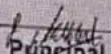
Sem: V

Paper: EL 353: Paper III: Analog Circuit Design and Applications

| Month     | No. of working days | Lectures available | Topic to be covered                           | Sub Topic  | Lecture required | Teaching methods                                  | References                                  |
|-----------|---------------------|--------------------|---|--|------------------|---|---|
| July 2022 | 25                  | 10                 | UNIT 1: Fundamentals of Analog Circuit Design | Design specifications, selection of amplifier, unwanted signals, avoiding fault conditions, offset nullifying techniques, enhancing output capabilities.   | 06               | 1. Chalk & Talk Method<br>2. Discussion<br>3. PPT | OP-AMP and Linear ICs, Ramakant A. Gayakwad |
| Aug 2022  | 23                  | 12                 | UNIT 2: Nonlinear Circuits                    | Logarithmic Amplifiers, Log/Antilog Modules, Precision Rectifier, Peak Detector, Sample and Hold Circuits. OP-AMP as Comparator, Schmitt Trigger, Monostable Multivibrator, Analog Multiplier applications               | 10               | 1. Chalk & Talk Method<br>2. Discussion<br>3. PPT | OP-AMP and Linear ICs, Ramakant A. Gayakwad |
| Sep 2022  | 24                  | 10                 | UNIT 3: Waveform Generators                   | Wien-bridge and twin-T oscillators, Square wave generators, Ramp Generator, Triangular wave generator, Sawtooth wave generator, Sine wave generator, Crystal Oscillator  | 12               | 1. Chalk & Talk Method<br>2. Discussion<br>3. PPT | OP-AMP and Linear ICs, Ramakant A. Gayakwad |
| Oct 2022  | 23                  | 12                 | UNIT 3: Waveform Generators                   | Function Generators: Multi op-amp function generators, function generator IC's. Phase Locked Loops: Block diagram and operation, Applications as Frequency Multiplier and Frequency Shift Keying                         | 12               | 1. Chalk & Talk Method<br>2. Discussion<br>3. PPT | OP-AMP and Linear ICs, Ramakant A. Gayakwad |
| Nov 2022  | 25                  | 08                 | UNIT 4: Voltage Regulators                    | Design of Power Supply: Voltage Regulator, Three terminal voltage regulators, Fixed and adjustable voltage regulators (78XX, LM317), Dual power supply (LM320, LM317), Basic switching regulator and its characteristics | 08               | 1. Chalk & Talk Method<br>2. Discussion<br>3. PPT | OP-AMP and Linear ICs, Ramakant A. Gayakwad |

Signature of Teacher

  
Head  
Dept. of Electronic Science  
A. A. College, Manchar

  
Principal  
Annasaheb Awate College,  
Manchar, Dist. Pune



Rajal Shikshan Sanstha  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar  
Department of Electronic Science

Teaching Plan: 2022-23


Sem: V

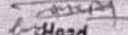
Name of the Teacher: Ms. Afroj M Dange

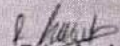
Class: TYBSc

Paper: EL 355: Paper V : Signals & Systems

| Month        | No. of working days | Lectures available | Topic to be covered                            | Sub Topic   | Lecture required | Teaching methods  | References  |
|--------------|---------------------|--------------------|--|---|------------------|---|---|
| July 2022    | 26                  | 12                 | UNIT 1: Fundamentals of Electronic Signals     | Definition and classification of signals: CT and DT, Periodic and aperiodic, Even and odd signals, Elementary signals: unit step, unit impulse, unit ramp, exponential and sinusoidal signals   | 04               | 1.PPT Lecture,<br>2.Video/Animation<br>3. Z-A teaching        | 1. Internet of Things - A hands-on approach,  |
| August 2022  | 23                  | 12                 | UNIT 2: Types of Systems                       | Definition: Systems, Continuous Time systems, Discrete-time systems, Static and dynamic systems, Time variant and time-invariant systems, linear and nonlinear systems  | 08               | 1.PPT Lecture,<br>2.Video/Animation                           | Arshdeep Bahga, Vijay Madisetti,  |
| Sept 2022    | 25                  | 12                 | UNIT 3: Laplace Transform and Fourier Analysis | Laplace transform: Definition, Properties, LT by using standard tables, First shifting theorem, Second shifting theorem, LT of Differential equation and integral, Convolution theorem Inverse Laplace transform: Definition, ILT by standard tables, ILT by partial fractions<br>Fourier Analysis: Definition, Fourier series and Formulae for Fourier Coefficients, Fourier series analysis of periodic signals such as square wave, triangular wave, half wave rectifier | 14               | 1.PPT Lecture,<br>2.Video/Animation<br>3. Chalk & Talk Method | 2. IoT Fundamentals: Networking Technologies, Protocols and Use Cases for the Internet of Things, David Hanes,                                |
| October 2022 | 19                  | 08                 | UNIT 4: Digitization of Analog Signals         | Analog to Digital conversion of signals, concept of sampling of CT signals, Shanon's Sampling Theorem, Nyquist frequency, Aliasing effect, oversampling and antialiasing filters, concept of quantization and quantization error, encoding, Introduction to DSP systems   | 10               | 1.PPT Lecture,<br>2.Video/Animation<br>3. Discussion          | 3. The Internet of Things: Applications to the Smart Grid and Building Automation, Olivier Hersent, Omar Elloumi and David Boswarthick, Wiley |
| Nov 2022     | 25                  | 12                 |  |   |                  |   |   |

  
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Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar  
Department of Electronic Science  
Teaching Plan: 2022-23

Name of the Teacher: Ms. J.B. Khilari

Class: T.Y.B.Sc

Sem: V

Paper: X: ELSEC 351: Paper X SEC1: Electronic Design Automation Tools

| Month     | No. of working days | Lectures available | Topic to be covered                                 | Sub Topic  | Lecture required | Teaching methods                                 | References  |
|-----------|---------------------|--------------------|---|--|------------------|--|---|
| July 2022 | 26                  | 10                 | UNIT 1: Introduction to EDA Tools                   | Definition of Simulation, Need of Simulation, Brief introduction of various simulators, Description to simulator tool, Hands on practice on available library of components, wiring and schematic designing  | 08               | 1. Chalk & Talk Method<br>2. Discussion<br>3.PPT | Essential Electronic Design Automation (EDA), by Mark D. Birnbaum                                   |
| Aug 2022  | 23                  | 12                 | UNIT 2: Electronics Designing using LTSPICE/ PSPICE | Introduction to Simulator: Brief History, New Versions, Representing Components, Understanding the simulation Environment, Using Model Editor, designing a Circuit and drawing a schematic, Preparation for Simulation: Preparing schematic for simulation, Understand the sources for simulation, Use of different markers. DC, AC, Transient and Fourier Analysis of circuit, Digital circuit Simulation. <i>Simulation Experiments:</i> Simulation of clipper/clamper circuit/passive filter circuits. Simulation of transistor biasing circuit. Simulation of CE single/two stage amplifier circuit. Failure Mode Analysis of circuit. | 10               | 1. Chalk & Talk Method<br>2. Discussion<br>3.PPT | Electronic Design Automation for Integrated Circuits Handbook - 2, Scheffer Lavagno Scheffer Martin |
| Sep 2022  | 25                  | 12                 | UNIT 3: Introduction to Multisim/ CircuitMod        | Environment: Design Process, Setting environment preferences<br>The Multisim /CircuitMode : Schematic capture of circuits, Placing components, Wiring components, simulation and result display in MultiSim. Device modeling: Design of Half-Wave rectifier, Bridge rectifier, clippers and clammers using diode, voltage regulator, AC voltage measurement, DC transfer curve analysis Programs for Practice: Simulation of Half wave rectifier circuit. Simulation of Bridge Rectifier circuit Failure Mode Analysis of circuit. Simulation of Voltage regulator circuit.  | 10               | 1. Chalk & Talk Method<br>2. Discussion<br>3.PPT | Electronic Design Automation for Integrated Circuits Handbook - 2, Scheffer Lavagno Scheffer Martin |
| Oct 2022  | 19                  | 12                 | UNIT 4: Introduction to Proteus/OrCAD               | Description of simulation software tools (OrCAD / Proteus ), Schematic Description: Introduction, Input files, element values, Nodes, circuit elements, sources, output variables, format of circuit and output files, drawing the schematic, Design rule Check ( DRC ), Netlist details Types of analysis: DC, Transient and Frequency.<br>Programs to Practice: Simulation of Active low pass/high pass/band pass/band stop filter Simulation of Wein bridge oscillator/function generator   | 10               | 1. Chalk & Talk Method<br>2. Discussion<br>3.PPT | Essential Electronic Design Automation (EDA), by Mark D. Birnbaum                                   |

*J. Khilari*  
Signature of Teacher

*[Signature]*  
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manchar, Dist.Pune

Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar  
Department of Electronic Science

Teaching Plan: 2022-23

Sem: VI

Name of the Teacher: Ms. Afroj M Dange

Class: TYBSc

Subject/Paper: EL 361: Paper I: Modern Communication Systems

| Month       | No. of working days | Lectures available | Topic to be covered                       | Sub Topic  | Lecture required | Teaching methods   | References   |
|-------------|---------------------|--------------------|---|--|------------------|--|--|
| Jan 2023    | 25                  | 10                 | UNIT 1: Basics of Digital Communication   | Introduction, digital trans receiver, Information capacity, bits, bit rate, baud rate and m-ary coding, Amplitude Shift Keying, Frequency Shift Keying, Binary Phase Shift Keying, Quadrature amplitude modulation, Block diagram of MODEM   | 06               | 1.PPT Lecture,<br>2.Video/Animation<br>3. Z-A teaching                         | 1. Electronic Communication Systems Fundamentals through advanced, Wayne Tomasi, Pearson Education Press |
| Feb 2023    | 23                  | 12                 | UNIT 2: Digital modulation                | Definition of PCM, PCM Sampling, Signal to quantization noise, PCM Methods, Delta Time Division Multiplexing, Frequency Division Multiplexing  | 10               | 1.PPT Lecture,<br>2.Video/Animation<br>3. Z-A teaching<br>4. Discussion        | 1. Electronic Communication Systems Fundamentals through advanced, Wayne Tomasi, Pearson Education Press |
| Mar ch 2023 | 24                  | 12                 |   |  |                  |  |  |
| April 2023  | 21                  | 12                 | UNIT 3: Mobile and Cellular Communication | Introduction, mobile telephone service, cellular phone, frequency reuse, cell splitting, sectoring, segmentation and dualization, cellular telephone topology, roaming and handoffs, network components and call processing<br>Comparative study of GSM and CDMA, 2G, 3G and 4G concepts | 10               | 1.PPT Lecture,<br>2.Video/Animation<br>3. Chalk & Talk Method<br>3. Discussion | 1. Electronic Communication Systems Fundamentals through advanced, Wayne Tomasi, Pearson Education Press |
| May 2023    | 25                  | 08                 | UNIT 4: Satellite Communication           | Introduction to satellite, geosynchronous satellites, spacing and frequency allocation, satellite system link models, system parameters, FDM satellite systems: Set-Top Box, channel capacity, satellite radio navigation, FDMA, TDMA, Satellite data communication: VSAT                | 10               | 1.PPT Lecture,<br>2.Video/Animation<br>3. Z-A teaching<br>4. Discussion        | 1.Electronic Communication Systems Fundamentals through advanced, Wayne Tomasi, Pearson Education Press  |

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Department of Electronic Science  
Teaching Plan: 2022-23

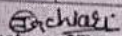
Name of the Teacher: Ms. J.B. Khilari

Class: TYBSc

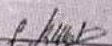
Sem: VI

Paper: EL 363: Paper III: Industrial Electronics

| Month      | No. of working days | Lectures available | Topic to be covered                   | Sub Topic  | Lecture required | Teaching methods                                 | References  |
|------------|---------------------|--------------------|---------------------------------------|--|------------------|--|---|
| Jan 2023   | 23                  | 12                 | UNIT 1: Power Semiconductor Devices   | Comparative study of power devices (Diodes, Transistors, DIAC, TRIAC, Thyristors/SCR), Protection of power semiconductor devices, Triggering Methods using PUT   | 08               | 1. Chalk & Talk Method<br>2. Discussion<br>3.PPT | Power Electronics: Circuits, Devices and Applications, Mohammad Rashid, Pearson publication.    |
| Feb 2023   | 23                  | 12                 | UNIT 2: Power Circuits                | Concept of three phase, Controller Rectifiers: Half wave and Full Wave (R Load and R/L load)<br>Inverters: Half bridge and full bridge, Cyclo converters<br>Concept of Switched Mode Power Supplies (SMPS), Various schemes of SMPS, Design aspects of SMPS, UPS<br>High frequency heating: Induction Heating: Basic Principle, Factors Governing the process, applications, merits and demerits over other systems<br>Di-electric heating: Basic Principle, Factors governing the process, applications, merits and demerits over other systems | 10               | 1. Chalk & Talk Method<br>2. Discussion<br>3.PPT | 1. Power Electronics: Circuits, Devices and Applications, Mohammad Rashid, Pearson publication. |
| March      | 24                  | 12                 |                                       |  |                  |  |   |
| April 2023 | 21                  | 12                 | UNIT 3: Motor control                 | Classification of motors, DC motor, Single phase SCR drive, Speed control of DC motor, AC motor and Induction motor  | 10               | 1. Chalk & Talk Method<br>2. Discussion<br>3.PPT | 1. Power Electronics: Circuits, Devices and Applications, Mohammad Rashid, Pearson publication. |
| May 2023   | 25                  | 08                 | UNIT 4: Electric Vehicle (EV) systems | Advantages of Electric Vehicles. Comparative study of EV and Hybrid Vehicles, Types of EVs: Battery Electric Vehicle (BEV), Plug in Hybrid Electric Vehicle (PHEV), Hybrid Electric Vehicle (HEV), Fuel Cell Vehicles, Electric Vehicle Batteries<br>Charging EV: Tickle charge, charging at home, Charging power station, High power stations   | 10               | 1. Chalk & Talk Method<br>2. Discussion<br>3.PPT | Power Electronics: Circuits, Devices and Applications, Mohammad Rashid, Pearson publication.    |

  
Signature of Teacher

  
Head  
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Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar  
Department of Electronic Science  
Teaching Plan: 2022-23

Name of the Teacher: Mr. S.A. Belage

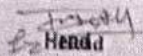
Class: TYBSc


Sem: VI

Paper: EL 365: Paper V: Process Control Systems

| Month       | No. of working days | Lectures available | Topic to be covered                     | Sub Topic  | Lecture required | Teaching methods                                 | References   |
|-------------|---------------------|--------------------|---|--|------------------|--|--|
| Jan 2023    | 25                  | 10                 | UNIT 1: Process Measurements            | Block diagram of instrumentation system, Analog and Digital Modes of Operation, Null and Deflection Methods, Input Output configuration of Instruments and measuring systems   | 08               | 1. Chalk & Talk Method<br>2. Discussion<br>3.PPT | Process Control Instrumentation Technology; Curtis Johnson |
| Feb 2023    | 23                  | 12                 | UNIT 2: Process Performance Parameters  | Generalized measurement systems, zero-order System, First-order System, Second-order System, Dead-Time Element, Specifications and Testing of Dynamic Response.  | 10               | 1. Chalk & Talk Method<br>2. Discussion<br>3.PPT | Process Control Instrumentation Technology; Curtis Johnson |
| Mar ch 2023 | 24                  | 12                 |   | Generalized Data Acquisition system- Elements of a data acquisition system, Single channel Data Acquisition system, Multichannel Data Acquisition system   |                  |  |  |
| April 2023  | 21                  | 12                 | UNIT 3: Fundamentals of Process Control | Process control principles, Continuous control, discrete state control, composite discrete/continuous control, Process Characteristics, Control system parameters, Architecture of Industrial Automation Systems, Advantages and limitations of Automation           | 10               | 1. Chalk & Talk Method<br>2. Discussion<br>3.PPT | Process Control Instrumentation Technology; Curtis Johnson |
| May 2023    | 25                  | 08                 | UNIT 4: Process Control Systems         | Two position mode, Multiposition mode, floating control mode<br>Continuous controller modes: Proportional control, Integral control, Derivative control<br>Composite modes: Proportional-Integral, Proportional derivative, Proportional-Integral - derivative (PID) | 10               | 1. Chalk & Talk Method<br>2. Discussion<br>3.PPT | Process Control Instrumentation Technology; Curtis Johnson |

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Department of Electronic Science

Teaching Plan: 2022-23

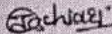
Sem: VI


Class: T.Y.B.Sc


Paper: **ELSEC 361: Paper X SECI: Design of Printed Circuit Boards**

Name of the Teacher: **Ms. J.B. Khilari**

| Month       | No. of working days | Lectures available | Topic to be covered                         | Sub Topic   | Lecture required | Teaching methods                                 | References   |
|-------------|---------------------|--------------------|---|---|------------------|--|--|
| Jan 2023    | 25                  | 10                 | UNIT 1: PCB Fundamentals                    | PCB Advantages, components of PCB, Electronic components, Microprocessors and Microcontrollers, IC's, Surface Mount Devices (SMD).  | 08               | 1. Chalk & Talk Method<br>2. Discussion<br>3.PPT | Printed circuit Board -Design & Technology by Walter C. Bosshart |
| Feb 2023    | 23                  | 12                 | UNIT 2: Classification of PCB and Materials | Types of PCB: Single, Double, Multilayer and flexible boards<br>PCB Materials: Copper, Standard FR-4 Epoxy Glass, Multifunctional FR-4, Tetra Functional FR-4, NelcoN400-6, GETEK, BT Epoxy Glass, Cyanate Aster, Plyimide Glass, Teflon(explanation with reference to operating frequency of circuit), Properties of laminates (electrical & physical) and types of laminates  | 10               | 1. Chalk & Talk Method<br>2. Discussion<br>3.PPT | Printed circuit Board -Design & Technology by Walter C. Bosshart |
| Mar ch 2023 | 24                  | 12                 | UNIT 3: PCB Design Concepts                 | PCB Designing Flow Chart: Schematic Entry, Net listing, PCB Layout Designing, Prototype Designing: Design Rule Check (DRC), Design For Manufacturing (DFM), PCB Making, Printing, Etching or Drilling, Assembly of components<br>Description of PCB Layers: Electrical Layers, Top Layer, Mid Layer, Bottom Layer, Mechanical Layers, Board Outlines and Cutouts, Drill Details Documentation Layers, Components Outlines, Reference Designation<br>Text Keywords and their Description: Footprint, Pad stacks, Vias, Tracks, Color of Layers, PCB Track Size Calculation Formula | 10               | 1. Chalk & Talk Method<br>2. Discussion<br>3.PPT | Printed circuit Board -Design & Technology by Walter C. Bosshart |
| April 2023  | 21                  | 12                 |   |   |                  |  |  |
| May 2023    | 25                  | 08                 | UNIT 4: PCB layout design                   | Tools for PCB Design: Understanding the schematic Entry, Creating Library and Components, Drawing Schematic, Flat Design / hierarchical Design, Setting up Environment for PCB Design a Board, Mechanical and Electrical design considerations, Placing and Mounting of components, Conductor spacing, heat sinks and package density<br>Auto routing: Introduction to Auto routing, Setting up Rules, Defining Constraints, Auto router Setup Post Designing: Gerber Generation, Adding and Editing Pins.<br>PCB Technology: Trends, Environmental concerns in PCB industry.)    | 10               | 1. Chalk & Talk Method<br>2. Discussion<br>3.PPT | Printed circuit Board -Design & Technology by Walter C. Bosshart |

  
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**Annasaheb Awate College, Manchar Dist- Pune**  
**Annual Planning (2022-23)** Class:-S. Y. B. Sc Sem-IV  
**Subject:- Physics Paper I (Oscillations, Waves and sound )**

| Month  | Period available | Unit and subunit   | Period required |
|--------|------------------|--|-----------------|
| Jan.22 | 10               | <b>Undamped Free Oscillations</b><br>Different types of equilibria (stable, unstable, and neutral equilibrium), Potential well and periodic oscillations, Approximation of a general potential, well $V(x)$ to a parabola for small oscillations, Definition of linear and angular S.H.M. Differential equation of S.H.M. and its solution (exponential form), Composition of two perpendicular linear S.H.Ms. for frequencies 1:1 and 1:2, (analytical method), Lissajous's figures and its uses, Applications (mechanical, electrical and optical), Problems.                        | 06              |
| Jan.22 | 10               | <b>Damped Oscillations</b><br>Introduction, Differential equation of damped harmonic, oscillator and its solution, discussion of different cases.<br>Logarithmic decrement, Energy equation of damped oscillations, Power dissipation, Quality factor, Application: LCR series circuit, Problems.  | 06              |
| Feb.22 | 15               | <b>Forced Oscillations</b><br>Forced oscillation with one degree of freedom, Differential equation of forced oscillation and its solution (transient and steady, state) Amplitude of forced oscillation, Resonance and its examples: mechanical (Barton's pendulum), optical (sodium vapour lamp), Velocity and Amplitude resonance, Sharpness of resonance, Energy of forced oscillations, Power dissipation<br>Quality factor and Bandwidth, Application of forced, oscillations, Equation of coupled oscillations, Problems.  | 10              |
| Mar.22 | 12               | <b>Wave Motion</b><br>Differential equations of wave motion in continuous media<br>Equations for longitudinal waves and its solution (one dimension only), Equation for transverse waves and its solution (one dimension only), Energy density and intensity of a wave, Discussion of seismic waves, Problems  | 08              |
| Apr.22 | 08               | <b>Doppler Effect</b><br>Explanation of Doppler effect in sound, Expression for apparent frequency in different cases, Asymmetric nature of Doppler effect in sound, Doppler effect in light, symmetric nature of Doppler effect in light, Applications: Red shift, Violet shift, Radar, Problems.<br><b>Sound</b><br>Definition of sound intensity, loudness, pitch, quality and timber, Acoustic intensity level measurement, Acoustic pressure and its measurement, Reverberation time and Reverberation of a hall, Sabine's formula (without derivation)<br>Stereoscope, Problems. | 06              |

**Annasaheb Awate College, Manchar Dist- Pune**  
**Annual Planning (2022-23)      Class:-F. Y. B. Sc Sem-II      Subject:-PHY-121**  
**Heat and Thermodynamics**

| Month  | Period available | Unit and subunit   | Period required |
|--------|------------------|--|-----------------|
| Jan.22 | 12               | <b>Fundamentals of Thermodynamics</b><br>Concept of thermodynamic state, Equation of state, Van der Waal's equation of state, Thermal equilibrium, Zeroth law of thermodynamics, Thermodynamic processes: Adiabatic, Isothermal, Isobaric and Isochoric changes, Indicator diagram, Work done during isothermal change, Adiabatic relations, Work done during adiabatic change, Internal energy, Internal energy as state function, First law of thermodynamics, Reversible and Irreversible changes, Problems | 10              |
| Feb.22 | 8                | <b>Applied Thermodynamics:</b> Conversion of heat into work and it's converse, Second law of thermodynamics, Concept of entropy, Temperature - entropy diagram, T-dS equations, Clausius - Clapeyron latent heat equations, Problems.  | 09              |
| Mar.22 | 10               | <b>Heat Transfer Mechanisms</b><br>Carnot's cycle and Carnot's heat engine and its efficiency, Heat Engines: Otto cycle & its efficiency, Diesel cycle & its efficiency, Refrigerators: General principle and coefficient of performance of refrigerator, Simple structure of Vapour compression refrigerator, Air Conditioning: Principle and it's applications, Problems.  | 09              |
| Apr.22 | 9                | <b>Thermometry:</b> Concept of heat & temperature, Principle of thermometry, Temperature scales & inter-conversions, Principle, Construction and Working: (Liquid thermometers, Liquid filled thermometers, Gas filled thermometers, Bimetallic thermometers, Platinum resistance thermometer, Thermocouple), Problems   | 08              |





Rayat Shikshan Sanstha's

Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar

Department of B.Voc (Account & Taxation)P

Annual Teaching Plan 2022-23

Name of the Teacher:- Prof. Temkar Manali Tukaram

Class:- P.T.B.Voc (AC & Tax)

Sem:- Fifth

Subject:- Finishing School

Learning Objective:- To learn the course will acquaint

student with basic concept of finance required in industry

Learning Outcome:- The course will enable to student to acquire hand on fin. analysis, Modelling, MF & Portfolio mgmt.

| Month      | Unit | Sub-topic   | Lectures | Teaching Methods          |
|------------|------|---|----------|---------------------------|
| Oct & Nov. | 1    | Hand on training on financial Analysis using MS-Excel.              | 10       | PPT & lecture & practical |
| Dec & Jan  | 2    | Hands on training on financial Modeling & valuation using MS-Excel. | 10       | PPT & lecture & practical |
| Jan & Feb  | 3    | Basic Understanding Mutual funds & Portfolio Management             | 5        | Lecture                   |

Prof. Temkar M.T

Rayat ShikshanS anstha's

Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Ma

Department of B.Voc (Account & Taxation)P

Annual Teaching Plan 2022-23

Name of the Teacher:- Prof. Temkar Monali Tukaram

Class:- T-7. B.Voc (AIC & Tax)

Sem:- Six

Subject:- E-commerce.

Learning Objective:- To learn understand the usage & application of E-commerce

Learning Outcome :- The subject enables the students to clear their fundamentals & learns the practical approach etc.



| Month | Unit | Sub-topic   | Lectures | Teaching Methods |
|-------|------|---|----------|------------------|
| March | 1    | Introduction to Electronic commerce:-<br>- Introduction & Definition,<br>- main activities.<br>- scope<br>- Goals<br>- Advantages & Disadvantages<br>- Technical components.<br>- Functions,<br>- Electronic commerce Application.        | 10       | Lecture          |
|       | 2    | Internet & Extranet.<br>- Definition of Internet<br>- Advantages & Disadvantages of the Internet.<br>- component of a Intranet<br>- Information Technology structure<br>- Development of a Intranet.<br>- Extranet & Intranet Difference. | 10       | Lecture          |
| Apr   | 3    | 2- Identity<br>- Reasons for building own website<br>- Benefits of website Bandwidth requirements, cost, Time<br>- Registering a Domain Name<br>- Web Promotion<br>- Target mail, Banner Exchange, Shopping Bots.                         | 10       | Lecture          |



| Month | Unit | Sub-topic   | Lectures | Teaching Methods |
|-------|------|---|----------|------------------|
| May   | 5    | Electronic Payment Systems:-<br>- Introduction<br>- Types of Electronic Payment System<br>- Payment Types<br>- Traditional Payment<br>- Value Exchange System<br>- Credit Card System<br>- Electronic Fund Transfer | 10       | Lecture          |
|       |      | E-Purchasing<br>- The Pros + Cons of online Shopping,<br>- Internet Marketing Techniques<br>- E-Governance of India & Digital India.  | 8        | Lecture          |

*Prof. Senkar m.T*

Rayat ShikshanS anstha's

Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College

Department of B.Voc (Account & Taxation)P

Annual Teaching Plan 2022-23

Name of the Teacher:- Prof. Temkar Monali Tukaram

Class:- B.Y.B.Voc (A & T)

Sem:- Fifth

Subject:- Indian financial system

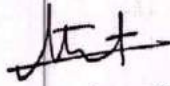
Learning Objective:- Provided course will acquaint student with basic concepts of Indian financial system

Learning Outcome:- Student will understand the regulator structure of Indian financial system



| Month       | Unit | Sub-topic  | Lectures | Teaching Methods |
|-------------|------|--|----------|------------------|
| Oct<br>2022 | 1    | Introduction to Indian financial system.<br>- Significance & Definition,<br>- Purpose & organization of FFS,<br>- Evaluation of the financial system   | 10       | Lecture          |
| Nov<br>2022 | 2    | Concept of financial system<br>- formal & informal financial system<br>- functions of financial system,<br>- Nature & Role of financial institutions & financial markets,<br>- financial system & the economy.     | 10       | Lecture          |
| Dec<br>2022 | 3    | Indian financial institution<br>- Development Banks<br>* RBI, ICICI, SBI, & IDBI.<br>- Investment Institutions<br>* UTI & other mutual funds.<br>- Insurance organization<br>+ Life Insurance Corporation of India | 10       | Lecture          |

| Month       | Unit | Sub-topic   | Lectures | Teaching Methods |
|-------------|------|---|----------|------------------|
| Jan<br>2023 | 4    | Capital Market<br>- concept<br>- structure & functions of Capital Market<br>- Instruments of issue<br>Money Market<br>- concept,<br>- structure & function of capital market<br>- Instrumental of issue<br>- Primary Market<br>- secondary Market<br>- concept. | 08       | Lecture          |
| Feb<br>2023 | 5    | Regulators<br>- SEBI<br>- Establishment scope & functions,<br>- objectives of SEBI,<br>- RBI<br>- scope & functions,<br>- Objectives of SEBI.<br>- Other Regulators<br>- IRDA<br>- PFRDA  | 10       | Lecture          |

  
 Prof. Pankarmit.

# DAILY RECORD

Date: 17 / 2 / 2023

Day: Friday

Date

| Class & Time           | Topic  | Synopsis  |
|------------------------|--|---|
| M.Sc. I<br>11:10 am    | Techniques & Tools in Molecular Biology                                  | - Introduction to transcription   |
| T.Y. B.Sc.<br>12:15 pm | Evolution & Population Genetics -<br>① Introduction to Organic Evolution | - Introduction, Distinguish bet <sup>n</sup> Origin of life & Organic Evolution, Historical Account of Origin of life, Origin of Earth Vs Origin of life, Gaia hypothesis, Earliest Fossils, Prebiotic Evolution, Abiotic Synthesis of organic matter |

Teaching Methods / Teaching Aids :

Books / References :

*[Signature]*  
Signature Teacher

Head

Department of

*[Signature]*  
Botany

Tea

Bo

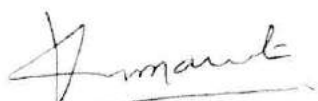
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# ALLOTMENT OF WORK LOAD

2022-2023

Sem I

| So. No. | Calss      | Subject | Paper  | Work load      |
|---------|------------|---------|--|----------------|
| 1)      | S.Y. B.Sc. | Botany  | Sem III paper II<br>1) B0232 plant physiology<br>2) practical paper III B0233 practicals based on B0231 & B0232 = Batch A.   | 03<br>04       |
| 2)      | T.Y. B.Sc. | Botany  | Sem V<br>1) paper III B0353 spermatophyta & paleobotany<br>2) paper IV B0354 plant Ecology<br>3) practical paper II B0353 & B0354 practical based on B0353 & B0354 | 03<br>03<br>04 |
| 3)      | M.Sc. I    | Botany  | Sem I<br>1) Paper IV BODT 114 Pomoculture & Fruit processing technology = 2 credits.<br>2) paper IV BODP 114 Botany practical paper 4 based on B0114 = 2 credits.  | 02<br>04       |
| Total:  |            |         |  | 23             |

  
Signature  
of the Teacher

Head  
Department of \_\_\_\_\_

Principal

## DAILY RECORD

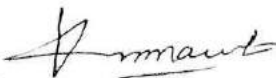
Date: 03/10/2022

Day: Monday

| Class / Time                     | Topic  | Synopsis |
|----------------------------------|--|----------|
| 1) S.Y. B.Sc.<br>11-55 to 12-40. | 2) Absorption of water -<br>1) <u>Introduction</u> -<br>2) <u>Role of water in plants</u> -<br>1) As a medium of fertilization in primitive<br>2) keep roots hairs & leaves in soft & rigid<br>condition.<br>3) Role of water in transporting materials from<br>the soil into roots.<br>4) Role of water in transporting food material<br>in plants<br>5) Role of water in metabolic activities of<br>the cell.<br>6) Role of water in opening & closing of<br>stomata.<br>7) in photosynthesis<br>8) cooling the plant body<br>9) in germination of seed. |          |

Teaching Methods / Teaching Aids: Lecture method.

Books / References: 1) Plant physiology by Dr. K.N. Shrivastava

  
Signature Teacher

Head  
Department of 



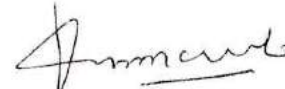
# DAILY RECORD

Date: 2/10/2023

| Class/Time                  | Topic  | System |
|-----------------------------|--|--------|
| S.Y.B.Sc.<br>11:55 to 12:40 | 1) Chapter no 6<br>Introduction to Embryology<br><br>2) Definition<br>2) scope of plant Embryology -<br>a) scope in plant taxonomy -<br>b) - " - morphology<br>c) - " - histochemistry<br>d) anatomy of Embryology<br>e) plant physiology of Embryology<br>f) organic evolution<br><br>3) Chapter no 7<br>Microsporangium & male Gametes<br>1) Microsporangium<br>2) Types of tapetum -<br>3) Microsporangogenesis - |        |

Teaching Methods / Teaching Aids: Lecture

Books / References: 1) plant Anatomy & Embryology

  
 Signature Teacher

Head  
 Department of \_\_\_\_\_

Rayat Shikshan Sanstha's  
**Annasaheb Awate Arts, Commerce &  
Hutatma Babu Genu Science College**

Manchar, Dist. Pune. (MAHARASHTRA) 410 503

**PERSONAL RECORD**

Name of the Teacher : Prof. Barve S.V  
Qualification : M.Sc Botany  
Department : Botany  
Designation : Assit. Professor  
Date of oppointment : 01-11-2022  
Present garde :  
Residential address : Narayangaon, Pune  
Phone Number : 7757849234  
Blood Group : O<sup>+</sup>  
PAN No. :  
Saving A/c. No. :  
P.E.A/c. No. :

**DEPARTMENT OF BOTANY**

# DAILY RECORD

Date: 8 / 12 / 2022

Day: Thursday

| Class & Time                              | Topic   | Synopsis  |
|---|---|---|
| M.Sc.<br>T.Y. B.Sc.<br>Botany<br>12:40 pm | Plant<br>Diversity of<br>Human<br>Health -<br><br>- Loss of<br>Biodiversity<br><br><br>- Management<br>of plant<br>Biodiversity | - Loss of Ecosystem diversity<br>- Factors Affecting Ecosystems<br>Degradation of Loss<br>- Loss of Agrobiodiversity<br>- Projected scenario for<br>Biodiversity loss.<br><br>- Introduction<br>strategies for Biodiversity<br>conservation<br>- Organizations associated with<br>Biodiversity Management /<br>Methodology for Execution. |

Teaching Methods / Teaching Aids :

Books / References :

*B. B. Borm*  
Signature Teacher

Head  
Department of \_\_\_\_\_

*V. K. Kulkarni*

"Education through self help is our motto" - Karmaveer



Rayat Shikshan Sanstha's  
**Annasaheb Awate Arts, Commerce,  
Hutatma Babu Genu Science College**

&

**Sou. Kusumben Kantilal Shah Arts,  
Commerce, Science Junior College,  
Manchar, Tal. Ambegaon, Dist. Pune. - 410 503**

NAAC 3<sup>rd</sup> Cycle - "A" Grade, 2018

Best College Award - 2018, by  
Savitribai Phule Pune University Pune.

## **TEACHER'S DIARY**

Academic year : 2022 - 2023

Name of the Teacher : Dr. N. B. Admutha

Department : Botany

Rayat Shikshan Sanstha's

**Annasaheb Awate Arts, Commerce &  
Hutatma Babu Genu Science College**

Manchar, Dist. Pune. (MAHARASHTRA) 410 503

**PERSONAL RECORD**

Name of the Teacher : Dr. Admuthe Namdeo Bhagwan

Qualification : M.Sc., B.Ed., M.Phil., Ph.D.

Department : Botany

Designation : Assistant Professor

Date of oppointment : 11/08/2006

Present garde : \_\_\_\_\_

Residential address : Manchar, Tal. Ambegaon, Dist: Pune

Phone Number : 9423909080

Blood Group : A +ve

PAN No. : \_\_\_\_\_

Saving A/c. No. : \_\_\_\_\_

P.E.A/c. No. : \_\_\_\_\_

# ALLOTMENT OF WORK LOAD

2022-23

## Term I

| So. No. | Calss     | Subject | Paper                    | Work load |
|---------|-----------|---------|--------------------------|-----------|
| 1       | F.Y.B.Sc  | Botany  | Botany Theory Paper-I    | 03        |
| 2       | F.Y.B.Sc  | Botany  | Botany Practical Paper   | 06        |
| 3       | S.Y.B.Sc. | Botany  | Botany Practical Paper   | 04        |
| 4       | T.Y.B.Sc. | Botany  | Botany Theory Paper-I    | 03        |
| 5       | T.Y.B.Sc. | Botany  | Botany Practical Paper I | 04        |
| 6       | M.Sc. II  | Botany  | Botany Theory Paper -IV  | 02        |
| 7       | M.Sc. II  | Botany  | Botany Practical Paper   | 02        |

## Term II

|   |           |        |                             |    |
|---|-----------|--------|-----------------------------|----|
| 1 | F.Y.B.Sc  | Botany | Botany Theory Paper-I       | 03 |
| 2 | F.Y.B.Sc  | Botany | Botany Practical Paper      | 06 |
| 3 | S.Y.B.Sc  | Botany | Botany Practical Paper      | 04 |
| 4 | T.Y.B.Sc  | Botany | Botany Theory Paper VI      | 03 |
| 5 | T.Y.B.Sc. | Botany | Botany Practical Paper -III | 04 |
| 6 | M.Sc. II  | Botany | Botany Theory Paper-IV      | 02 |
| 7 | M.Sc. II  | Botany | Botany Practical Paper      | 02 |

*[Handwritten Signature]*

Signature  
of the Teacher

*[Handwritten Signature]*

Department Head  
Department of Botany

Annasaheb ...  
Science College, Marchar Tal. Ambegaon, Dist. Pune

*[Handwritten Signature]*

Principal

Annasaheb ...  
Murtama Babu Ganu Science College,  
Marchar, Tal. Ambegaon, Dist. Pune

# DAILY RECORD

Day: Saturday

/ 2022

Topic

Synopsis

2 Life cycle of Spirogyra

Habit

Habitat

Books / Teaching Aids :

References : Algae - O.P. Sharma

Head

Department of

Botany

# DAILY RECORD

Day: Tuesday

2023

Synopsis

Topic

6 Seed production  
General procedure for seed production

Methods / Teaching Aids :

References : Seed Technology - Agarwal R.L.

Teacher

Head  
Department of

*[Signature]*  
Botany



Rayat Shikshan Sanstha's  
**Annasaheb Awate Arts, Commerce &  
Hutatma Babu Genu Science College**

Manchar, Dist. Pune. (MAHARASHTRA) 410 503

**PERSONAL RECORD**

Name of the Teacher : Fasale Vilas Biru

Qualification : M.Sc.

Department : Mathematics

Designation : Associate Professor

Date of oppointment : 01/04/1989

Present garde :

Residential address : "Sindhu Vilas" Vignahar Co-op. Housing Society, Manchar  
Tal- Ambegaon Dist- Pune

Phone Number : 9860458159

Blood Group : O+

PAN No. : AACPF 7052 P


Saving A/c. No. :


P.E.A/c. No. :

## ALLOTMENT OF WORK LOAD

| So. No. | Class  | Subject              | Paper                                  | Work load |
|---------|--------|----------------------|--|-----------|
| 1       | FYBSC  | Mathematics paper I  | Algebra                                | 3         |
| 2       | SYBSC. | Mathematics paper I  | Ordinary Calculus of several variables | 3         |
| 3       | TYBSC  | Paper IV Mathematics | Ordinary Differential Equations        | 3         |
| 4       | FY/5Y  | Mathematics          | Practical FY/5Y                        | 4 + 4     |

  
 Signature  
 of the Teacher

  
 Head  
 Department of Mathematics

  
 ANNASAHEB WADKAR COLLEGE  
 MANCHERU (DIST. PUNE)  
 Principal



9:30 to 11:00 AM.

माजी विद्यार्थी खाते वरवी

# DAILY RECORD

का.के.व.क.से., मुंबई शिक.

Date: 19/10/2022

Day:

| Class / Time                | Topic | Synopsis  |
|-----------------------------|-------|---|
| 11:10-11:55<br><u>SYB50</u> | II    | Higher order partial derivatives<br>$f_{xx}, f_{xy}, f_{yx}, f_{yy}, f_{xyx}, f_{yxy}, f_{xyy}, f_{yyx}$ .<br><u>Examples</u>         |
| 11:55-12:40<br>FY           | II    | <u>Examples:- on Divisibility.</u><br>Defn: Greatest common divisor.<br>Defn: Common divisor  |
| 2:30-4:00.<br>SY            | II    | Examples on mixed partial derivatives.<br>Clairaut's Th <sup>m</sup> .   statements.<br>Schwarz Th <sup>m</sup> .<br><u>Examples.</u> |

*[Signature]*

ANNE... COLLEGE  
MANCHAR. (DIST. PUNE)

Teaching Methods / Teaching Aids :

Books / References :

*[Signature]*  
Signature Teacher

*[Signature]*  
Head  
Department of mathematics

Rayat Shikshan Sanstha's  
**Annasaheb Awate Arts, Commerce &  
Hutatma Babu Genu Science College**

Manchar, Dist. Pune. (MAHARASHTRA) 410 503

**PERSONAL RECORD**

Name of the Teacher : Rokade M D

Qualification : M.Sc, SET

Department : Mathematics

Designation : Assistant professor (CHB)

Date of appointment : 01/08/2016

Present garde :

Residential address : A/p - Dhamani, Tal- Ambegaon, Dist - pune

Phone Number : 9096134035

Blood Group :


PAN No. :


Saving A/c. No. :


P.E.A/c. No.

## ALLOTMENT OF WORK LOAD

| So. No. | Calss       | Subject                   | Paper    | Work load                                    |
|---------|-------------|---------------------------|----------|--|
| 1       | 5Y BSC      | vector<br>Calculus        | MT 242 A | $3 + 2 = 5$                                  |
| 2       | TY BSC      | Real Analysis<br>II       | MT 362   | $3 + 2 = 5$                                  |
| 3       | TY BSC      | Computational<br>geometry | MT 366 B | $3 + 2 = 5$                                  |
| 4       | FY BBA (CP) | Business<br>mathematics   | LA - 203 | 3  |
|         |             |                           |          | <hr style="width: 50%; margin: 0 auto;"/> 18 |

  
 Signature  
 of the Teacher

  
 Head  
 Department of Mathematics

  
 PRINCIPAL  
 ANNASAHEB COLLEGE  
 MANCHAR, (DIST. PUNE)



# DAILY RECORD

Date: 18 / 10 / 2022

Day: Tue

| Class / Time          | Topic            | Synopsis  |
|-----------------------|------------------|---|
| 11-10-11-55<br>Fy BSc | paper II         | Limit at infinity<br>infinite limit<br>Examples |
| 11-55-12-40<br>Ty BSc | Real<br>Analysis | Archimedean property<br>Examples.               |

*[Signature]*  
PRINCIPAL  
ANNASAHUJI MAHAR COLLEGE  
MANCHAR. (DIST. PUNE)

Teaching Methods / Teaching Aids :

Books / References :

*[Signature]*  
Signature Teacher

*[Signature]*  
Head  
Department of Mathematics



Rayat Shikshan Sanstha's  
**Annasaheb Awate Arts, Commerce &  
Hutatma Babu Genu Science College**  
Manchar, Dist. Pune. (MAHARASHTRA) 410 503

**PERSONAL RECORD**

Name of the Teacher : Ms. AFROJ M. DANGE

Qualification : M.Sc., SET

Department : ELECTRONIC SCIENCE

Designation : ASSISTANT PROFESSOR

Date of oppointment : 06 / 01 / 2020

Present garde : 10

Residential address : MANCHAR, PUNE

Phone Number : 7507011878

Blood Group : B+ve

PAN No. : \_\_\_\_\_

Saving A/c. No. : \_\_\_\_\_

P.E.A/c. No. \_\_\_\_\_

# DAILY RECORD

Date: 18/08/2022


Day: Thursday

| Class/Time                | Topic                  | Synopsis  |
|---------------------------|------------------------|---|
| F.Y. B.Sc.<br>1.25 - 2.10 | Electronics<br>Science | <p>→ Introduction</p> <p>→ Discussion about programme outcomes.</p> <p>→ Discussion about programme specific outcomes</p> <p>F.Y. B.Sc. - Course outcome</p> <p>Paper II :- Electronic Devices &amp; Circuits:</p> <p>EL 112</p> <p>Co 1 :- To analyze performance parameters based on study of characteristics of electronic devices like, diode, transistor.</p> <p>Co 2 :- To choose proper electronic devices as per the need of application.</p> <p>Co 3 :- To perform simulations for designing &amp; analyzing diode/trans.</p> <p>Co 4 :- To build &amp; test the ckts. like street light controller using electronic device.</p> |

Teaching Methods / Teaching Aids: Black board

Books / References: Text book - Nital Prakashan

  
Signature Teacher

  
Head  
Department of Electronic Science

# DAILY RECORD

Date: 13/02/2023

Day: Monday

| Class/Time | Topic             | Synopsis  |
|------------|-------------------|---|
| T.Y. B.Sc  | EL 361:<br>→<br>→ | Modern Communication Systems<br>Syllabus Introduction<br>Course Outcomes<br>Co 1:- Understand the digital modulation techniques<br>Co 2: Understand different types of pulse modulation techniques.<br>Co 3: Describe the evolution & importance of Mobile Communication & cellular communication<br>Co 4:- Know the basics of Satellite Communication Systems. |

Teaching Methods/Teaching Aids: PPT

Books / References: Reference Book

  
Signature Teacher

Head Beluse SA  
Department of Ele-

Rajat Shikshan Sanstha's  
**Annasaheb Awate Arts, Commerce &  
 Hutatma Babu Genu Science College**  
 Manchar, Dist. Pune. (MAHARASHTRA) 410 503

**PERSONAL RECORD**

Name of the Teacher : Dr. R. S. Nimbalkar  
 Qualification : M.Sc. Ph.D. M.B.A.  
 Department : Physics  
 Designation : Asso. Professor  
 Date of appointment : 25/08/1988  
 Present grade : \_\_\_\_\_  
 Residential address : S.No. 38/1/1 Garmala Colony, (Near Vimal Garden)  
Rahatani, Pimpri - Pune - 17  
 Phone Number : \_\_\_\_\_  
 Blood Group : \_\_\_\_\_  
 PAN No. : \_\_\_\_\_  
 Saving A/c. No. : \_\_\_\_\_  
 P.E. A/c. No. : \_\_\_\_\_

**ALLOTMENT OF WORK LOAD** 2022-23

| Sr. No. | Class     | Subject   | Paper                                    | Work load |
|---------|-----------|-----------|--|-----------|
| 1       | T.Y.B.Sc. | Physics   | Sem I<br>Mathematical methods in physics | 04        |
| 2       | T.Y.B.Sc. | Physics   | practical paper I<br>project             | 04<br>04  |
| 3       | M.Sc. I   | physics   | classical Mechanics                      | 06        |
|         |           |           |  | 18        |
| Sem II  |           |           |  |           |
| 1       | T.Y.B.Sc. | physics   | Thermodynamics & Stat. Physics           | 04        |
| 2       | T.Y.B.Sc. | physics   | Nuclear physics                          | 04        |
| 3       | T.Y.B.Sc. | practical | course No. 367, 368, 369                 | 12        |
|         |           |           |  | 20        |

*R.S.N.*  
Signature  
of the Teacher

*R.S.N.*  
Head  
Department of \_\_\_\_\_

Principal

**TIME TABLE 2022 - 2023**  
(Semester / Annual I)

| Sr. No. | Time           | Mon.        | Tue.        | Wed.         | Thu.        | Fri.        | Sat.        |
|---------|----------------|-------------|-------------|--------------|-------------|-------------|-------------|
| 1       | 11:10 to 11:15 | T.Y.(CT)    | T.Y.(CT)    | T.Y.(CT)     | -           | -           | -           |
| 2       | 2:30 to 5:30   | -           | -           | -            | -           | T.Y.(Prac)  | T.Y. (Prac) |
| 3       | 3 to 4         | M.Sc. I (T) | M.Sc. I (T) | M.Sc. I (CT) | M.Sc. (CT)  | -           | -           |
| Sem II  |                |             |             |              |             |             |             |
| 1       | 11:10 to 11:15 | T.Y.(CT)    | T.Y.(CT)    | T.Y.(CT)     | T.Y.(CT)    | T.Y.(CT)    | T.Y.(CT)    |
| 2       | 2:30 to 5:30   | -           | -           | -            | T.Y. (Prac) | T.Y. (Prac) | T.Y. (Prac) |

**DAILY RECORD**

Date: 9/10/2023

Day: Monday

| Class/Time                  | Topic              | Synopsis   |
|-----------------------------|--------------------|--|
| T.Y.B.Sc.<br>11:10 to 11:55 | special functions. | Prove that<br>$1. J_{n-1}(x) - J_{n+1}(x) = 2J'_n(x)$ $2. J_n(x) = \frac{n}{x} J'_n(x) + J'_n(x)$ $3. J_{n+1}(x) = \frac{n}{x} J_n(x) - J'_n(x)$ |

*R.S.N.*  
Principal  
Annasaheb Awate Arts, Commerce, &  
Hutatma Babu Genu Science College,  
Manchar, Tal. Ambegaon, Dist. Pune

Teaching Methods / Teaching Aids :

Books / References : mathematical physics - Webery - Ashken

*R.S.N.*  
Signature Teacher

*R.S.N.*  
Head  
Department of \_\_\_\_\_

**PERSONAL RECORD**

Name of the teacher: Prof. Shirke H.S.  
 Qualification: MSc (Physics), SET  
 Department: Physics  
 Designation: Assistant Professor  
 Date of appointment: \_\_\_\_\_  
 Present grade: \_\_\_\_\_  
 Residential address: \_\_\_\_\_  
 Phone Number: \_\_\_\_\_  
 Blood Group: A - ve  
 PAN No.: FMQPS3029N  
 Saving A/c. No.: \_\_\_\_\_  
 P.E. A/c. No.: \_\_\_\_\_

**DAILY RECORD**

Date: 25/11/2022 Day: Friday

| Class / Time                      | Topic           | Synopsis   |
|-----------------------------------|-----------------|--|
| TY BSc<br>11:55 am to<br>12:40 pm | ED              | * Faraday's law of induction<br>$ e  \propto \frac{d\phi}{dt}$<br>* Lenz's law<br>$e = - \frac{d\phi}{dt}$<br>* Integral form of Faraday's law<br>$\oint \vec{E} \cdot d\vec{l} = - \int \frac{\partial \vec{B}}{\partial t} \cdot d\vec{A}$<br>* Differential form of Faraday's law<br>$\nabla \times \vec{E} = - \frac{\partial \vec{B}}{\partial t}$<br>* Displacement current:<br>$\nabla \times \vec{B} = \mu_0 \vec{J} + \mu_0 \epsilon_0 \frac{\partial \vec{E}}{\partial t}$ |
| MSc-II<br>10:00 am to<br>11:50 am | SSP             | * Langevin theory of Diamagnetism (Derivation)<br>$\chi_m = - \frac{N \mu_0 e^2 \langle R^2 \rangle}{6m}$  |
| B.Tech<br>12:45 pm to<br>1:30 pm  | Biophysics      | * Radioactivity<br>→ Introduction, properties of nucleus, classification of nuclei, nuclear forces, the liquid drop model, shell model.  |
| TY BSc<br>2:30 pm to<br>3:15 pm   | Surface tension | * Cohesive & adhesive forces<br>* Jagger's method (Explanation) to find surface tension $T = \frac{F}{L} (R_1 - R_2)$  |

Teaching Methods / Teaching Aids: Chalkboard method  
 Books / References: CCP by S.O. Pillai, Vision Publications, Nirali Prakashan  
 Signature Teacher: [Signature]  
 Head Department of Physics: [Signature]

**DAILY RECORD**

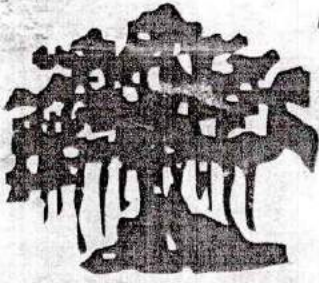
Date: 30/12/2022 Day: Saturday

| Class / Time                      | Topic | Synopsis  |
|-----------------------------------|-------|---|
| TY BSc<br>11:55 am to<br>12:40 pm | ED    | * Problems<br>1) For a material medium characterized by conductivity $\sigma$ & permittivity $\epsilon$ exposed to sinusoidally varying electric field of frequency $\omega$ , obtain the ratio of the conduction current density $ J_c $ to the displacement current density $ J_d $ .<br>2) Do the fields $\vec{E} = E_0 \sin x \sin t \hat{a}_y$ & $\vec{H} = \frac{E_0}{\mu_0} \cos x \cos t \hat{a}_z$ satisfy Maxwell's equations?<br>3) Given an electric field $E = E_0 \sin(\omega t - \omega z) \hat{a}_y$ in free space. Determine the corresponding charge density.<br>4) Find the magnetic field associated with $\vec{E} = E_0 \cos(\omega t - \omega z) \hat{a}_y$ . |

Principal  
 Annasaheb Awate College,  
 Manchar, Dist. Pune

Teaching Methods / Teaching Aids: Chalkboard method  
 Books / References: Nirali Prakashan

Signature Teacher: [Signature]  
 Head Department of Physics: [Signature]



Education through self-help - KARMAVEER  
Rayat Shikshan Sanstha's



Annasaheb Awate Arts, Commerce,  
Hutatma Babu Genu Science College &  
Sou. Kusumben Kantilal Shah Arts,  
Commerce, Science Junior College,  
Manchar, Tal. Ambegaon, Dist. Pune. 410 503

NAAC 3rd Cycle- "A" Grade 2018

Best College Award - 2018, by  
Savitribai Phule Pune University Pune.

## Teacher's Diary

Academic Year - 2022 - 2023

Name of the Teacher : Naik. P. D.

Department : Botany

Rayat Shikshan Sanstha's  
**Annasaheb Awate Arts, Commerce &  
Hutatma Babu Genu Science College**

Manchar, Dist. Pune. (MAHARASHTRA) 410 503

**PERSONAL RECORD**

Name of the Teacher : Naik. P. D.

Qualification : M.Sc. M.Phil.

Department : Botany

Designation : Assistant Professor

Date of appointment : \_\_\_\_\_

Present address : \_\_\_\_\_

Permanent address : A/P. Naxodi, Tal. Ambegaon, Dist. Pune

Telephone Number : 9890735078

Group : ATVE

Roll No. : \_\_\_\_\_

Bank A/c. No. : \_\_\_\_\_

Signature No. : \_\_\_\_\_

# DAILY RECORD

Date: 27/09/2022

Day: Tuesday

| Class/Time            | Topic  | Synopsis   |
|-----------------------|--|--|
| M.Sc. II<br><br>12:10 | Bo 4.1<br><br>1:10 p.m                       | <p>Computational botany</p> <ul style="list-style-type: none"> <li>- skewness</li> <li>measures of central tendency &amp; measures of dispersion do not reveals the main characteristic of the frequency distribution</li> <li>- when 2 distribution have same mean &amp; s.d. they may differ in their overall performance mainly with respect to their symmetry of distribution</li> <li>- if the frequency distribution is not symmetrical it is said to be skewed or Asymmetrical</li> </ul> |
| *                     |  | meeting 12:30 — principal cabin about Int. conference  |
| <u>Admission</u>      | संबंधी कोन कोन                               |  |
| ① शिंदे सर            | - D.G. walse patil college - 8830390048      | Botany   |
| ② धायतडे सर           | - B.D. Kale college - Ghodogoon - 9960458845 |  |
| ③ शिवदत्त जोशी        | - भैरवनाथ विद्यालय - शिंगी - 9665662433      |  |

Teaching Methods / Teaching Aids: Lecture / meeting.

Books / References: P.M. Arora and P.K. Malhotra (2002) Biostatistics

Signature Teacher

Head  
Department of

Botany



# DAILY RECORD

Day: Thursday

9/10/2022


| Date/Time | Topic | Synopsis   |
|-----------|-------|--|
| 7.50. II  |       | <p>One day international seminar on<br/>re solar energy conversion: material &amp;<br/>means<br/>(SEECMM-2022)</p> <p><u>Keynote speaker:</u> Dr. K. Kalyanasundaram,<br/>Senior Scientist, Swiss Federal<br/>Institute of Technology at<br/>Lausanne CH-1015 Lausanne,<br/>Switzerland</p> <p>Dr. Dinesh Amalnerkar<br/>Professor Emeritus SPPU Pune, India</p> <p>Dr. Atul Chaskar - FMASC, MNASC<br/>Professor of Chemistry, ICT Mumbai</p> <p>Dr. Chaitanya Kanade, Academic Researcher<br/>Sungkyunkwan University, South Korea</p> |

Teaching Methods / Teaching Aids: Seminar

Books / References: International seminar

Signature Teacher

Head  
Department of

  
Botany

Rayat Shikshan Sanstha's  
**Annasaheb Awate Arts, Commerce &  
Hutatma Babu Genu Science College**

Manchar, Dist. Pune. (MAHARASHTRA) 410 503

**PERSONAL RECORD**

Name of the Teacher : Bhalekar Mohini Tukaram

Qualification : - M.Com. B.Ed. G.D.T.A.

Department : 'Commerce'

Designation : - Lecturer.

Date of appointment : - 1 sept 2009

Present garde : \_\_\_\_\_

Residential address : - A/P - Manchar Tal - Ambegaon, Dist - Pune

Phone Number : - 9405828569

Blood Group : - O<sup>+</sup>

PAN No. : \_\_\_\_\_

Saving A/c. No. : \_\_\_\_\_

P.E.A/c. No. \_\_\_\_\_

Date of appointment : \_\_\_\_\_

Present garde : \_\_\_\_\_

Residential address : \_\_\_\_\_

Phone Number : \_\_\_\_\_

# DAILY RECORD

Date: 25 / 08 / 2022


Day: - बुध

| Class/Time      | Topic              | Synopsis   |
|-----------------|--------------------|--|
| I) F.Y. Bcom    | BEE                | Syllabus, CO, PO Discussion,<br>Give the syllabus & discussion<br>Question paper format &<br>Solutions |
| II) T.Y. Bcom - | BRF, I<br>Unit - 1 | भारतीय करार कायदा 1842 -<br>- प्रस्तावना<br>- अर्थ / व्याख्या<br>- आवश्यक अंक / वैशिष्ट्ये -           |

Teaching Methods / Teaching Aids :

Books / References :

  
Signature Teacher

  
Head  
Department of Commerce  
A.A. College, Manchar,  
Department of Ambegaon, Dist. Pune

Rayat Shikshan Sanstha's  
**Annasaheb Awate Arts, Commerce &  
Hutatma Babu Genu Science College**

Manchar, Dist. Pune. (MAHARASHTRA) 410 503

**PERSONAL RECORD**

Name of the Teacher : Prof. Madhe B.A.

Qualification : M.com, SET

Department : Commerce.

Designation : Assistant professor.

Date of appointment : 18/10/2021

Present garde : \_\_\_\_\_

Residential address : Annasaheb Awate college, Manchar,

Phone Number : 9881710669.

Blood Group : B<sup>+</sup>

PAN No. : \_\_\_\_\_

Saving A/c. No. : \_\_\_\_\_

P.E.A/c. No. \_\_\_\_\_

## DAILY RECORD


Date: 21/07/2022


Day: 23/07/22

| Class/Time                        | Topic                                     | Synopsis  |
|-----------------------------------|---|---|
| 8.00 to<br>8.45 am<br>[F.Y. Bcom] | <del>Pre-requisite</del><br>Math's<br>(A) | * syllabus, Delivering CO, PO, & Internal Evaluation<br>1) Interest & Annuity -<br>i) Interest.<br>ii) Annuity.<br>2) shares & Mutual fund.<br>i) shares.<br>ii) Mutual fund.<br>3) Population & sample<br>4) Measures of Central Tendency<br>& Measures of Dispersion.<br>* AAA file preparation.<br>- file No-15. |

Teaching Methods / Teaching Aids :

Books / References :

  
Signature Teacher

  
 Head  
 Department of Commerce  
 Annasheb Awasi College  
 Manchar Tal Ambegaon Dist. Pune

Rayat Shikshan Sanstha's  
**Annasaheb Awate Arts, Commerce &  
Hutatma Babu Genu Science College**

Manchar, Dist. Pune. (MAHARASHTRA) 410 503

**PERSONAL RECORD**

Name of the Teacher : Khalkar Vijaya Ramchandra.

Qualification : M.com

Department : Commerce.

Designation : M. Co. Assi. prof.

Date of oppointment : 1 sept. 2022.

Present garde : \_\_\_\_\_

Residential address : Alp Jawale post - Nirgudhar Tal - Ambegaon

Phone Number : 9307153644 / 7447683467

Blood Group : B<sup>+</sup>

PAN No. : \_\_\_\_\_

Saving A/c. No. : \_\_\_\_\_

P.E.A/c. No. \_\_\_\_\_



*MW*

**Head**  
Department of Commerce  
A.A. College, Manchar,  
Tal. Ambegaon, Dist. Pune

# DAILY RECORD

Date: 3 / 9 / 2022

Day: गानि

| Class/Time                           | Topic   | Synopsis  |
|--------------------------------------|---------|---|
| S.Y (C)<br>B.com.<br>8.45 to 9.30 AM | Costing | S. J. Mabus - Co, po Discussion<br>Basic information of cost.<br>Discussion of cost, costing<br>cost account and<br>cost Accountancy.<br>cost sheet -<br>overheads -<br>- factory oh.<br>- office oh.<br>- selling & distribution oh. |

Teaching Methods/Teaching Aids :

Books / References :

*Khalke*  
Signature Teacher



~~MP~~  
HOD  
Department of Commerce  
Annasaheb Awate College,  
Manchar Tal. Amharsa Dist. Pune

Head  
Department of Commerce

Rayat Shikshan Sanstha's  
**Annasaheb Awate Arts, Commerce &  
Hutatma Babu Genu Science College**

Manchar, Dist. Pune. (MAHARASHTRA) 410 503

**PERSONAL RECORD**

Name of the Teacher : Miss : Raut shivani vikar

Qualification : M.Com

Department : Department of Commerce.

Designation : Assitant prof.

Date of oppointment : 07/09/2022

Present garde : \_\_\_\_\_

Residential address : At/post - manchar - Tal - Ambegaon Dist - pune

Phone Number : 9858442020

Blood Group : O<sup>+</sup>

PAN No. : \_\_\_\_\_

Saving A/c. No. : \_\_\_\_\_

P.E.A/c. No. \_\_\_\_\_





# DAILY RECORD


Date: 7 / 9 / 2022

Day: बुधवार

| Class / Time | Topic                     | Synopsis   |
|--------------|---------------------------|--|
| B. Com.      | व्यावसायिक<br>उद्योगिकता- | discussion about syllabus to 5<br>उद्योगिकता म्हणजे काय? PO<br>बहुउद्योग माहिती.<br>प्रस्तावना रामरामई.<br>(Micro, small and medium Enterprises) |


Teaching Methods / Teaching Aids :

Books / References :

  
Signature Teacher

Head

Department

  
Department of Commerce  
Annasaheb Chitambar College,  
Anandnagar, Nashik  
Teacher T. N. Bagde

Rayat Shikshan Sanstha's  
**Annasaheb Awate Arts, Commerce &  
Hutatma Babu Genu Science College**

Manchar, Dist. Pune. (MAHARASHTRA) 410 503



**PERSONAL RECORD**

Name of the Teacher : Prof. Pardhi Akash Suresh

Qualification : M. Com.

Department : Department of Commerce

Designation : Assistant Professor

Date of appointment : ~~16~~ 16/01/2022

Present garde : \_\_\_\_\_

Residential address : ALP-Shinoli Tal-Ambegaon Dist-Pune

Phone Number : 7030793877

Blood Group : AB<sup>+</sup>

PAN No. : \_\_\_\_\_

Saving A/c. No. : \_\_\_\_\_

P.E.A/c. No. \_\_\_\_\_

## DAILY RECORD

Date: 01/09/2022

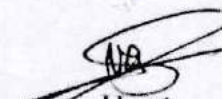
Day: Thursday

| Class/Time                            | Topic   | Synopsis  |
|---------------------------------------|---|---|
| S.Y.B.com (A)<br>9.45 am to 10.25 am  | व्यवसाय<br>व्यवस्थापन<br>प्र. 1 -<br>व्यवस्थापन   | Business Management - I<br>या विषयाचे syllabus, CO, PO लिहून दिला.<br>प्र-01 व्यवस्थापन<br>प्र-02 व्यवस्थापनात नियोजन आणि निर्णय प्रक्रिया समजून घेणे.<br>प्र-03 व्यवस्थापनाची कार्ये: संघटन प्रक्रिया आणि कर्मचारी नियुक्ती<br>प्र-04 परिणाम अभिमुख- निर्देशन आणि सांघिक कार्ये. |
| S.Y.B.com (B)<br>10.25 am to 11.00 am | कंपनी<br>कायद्याची<br>मुलतत्वे - I<br>प्र. 1<br>कंपनी -<br>ओळख,<br>संकल्पना<br>व<br>निर्मिती. | Elements of Company Law - I<br>या विषयाचे syllabus लिहून दिला.<br>प्र-01 कंपनी कायदा, 2013<br>कंपनी: ओळख, संकल्पना व निर्मिती<br>प्र-02 कंपनीची स्थापना व नोंदणी<br>प्र-03 कंपनीचे मुख्य दर्शनरेषेवज<br>प्र-04 कंपनीचे भांडवल.  |

Teaching Methods / Teaching Aids :

Books / References :

  
 01/09/2022  
 Signature Teacher

  
 Head  
 Department of Commerce

Rayat Shikshan Sanstha's  
**Annasaheb Awate Arts, Commerce &  
Hutatma Babu Genu Science College**



Manchar, Dist. Pune. (MAHARASHTRA) 410 503

**PERSONAL RECORD**

Name of the Teacher : Wagh Asha Sahebrao.

Qualification : M. com.

Department : Commerce.

Designation : Assist. Prof.

Date of oppointment : 12 Sept. 2022.

Present garde : \_\_\_\_\_

Residential address : At - Nagapur Post - Ranjani, Tal - Ambegaon.

Phone Number : 7709926241

Blood Group : A<sup>+</sup>

PAN No. : \_\_\_\_\_

Saving A/c. No. : \_\_\_\_\_

P.E.A/c. No. \_\_\_\_\_

# DAILY RECORD

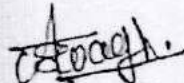
Date: 18/09/2022

Day: Tuesday


| Class/Time    | Topic                               | Synopsis   |
|---------------|-------------------------------------|--|
| I) T. Y. Bcom | (1)<br>जाहिरातीची<br>ओळख/<br>परिचय. | Syllabus, Co. Po, Discussion<br>प्रस्तावना, व्याख्या, जाहिरातीची<br>उद्दिष्ट्ये,<br>जाहिरातीची कार्ये.<br><br>- विक्रयवृद्धी घडवून आणणे.<br><br>- वितरण खयति कथत<br><br>- उत्पादनाला चाळना देणे.<br><br>- ग्राहकांना शिक्षण देणे.<br><br>- विक्रेत्याला सहाय्य करणे.<br><br>- बौक्तिक मूल्य तयार करणे. |

Teaching Methods/Teaching Aids :

Books / References :

  
Signature Teacher



  
Head  
Head Department of Commerce  
Department of Commerce, Manchar,  
Tal. Ambegaon, Dist. Pune

Rayat Shikshan Sanstha's  
**Annasaheb Awate Arts, Commerce &  
Hutatma Babu Genu Science College**

Manchar, Dist. Pune. (MAHARASHTRA) 410 503

**PERSONAL RECORD**

Name of the Teacher : Prof. Bhagat D.M.

Qualification : M.C.A

Department : B.B.A.C.A)

Designation : Assi. Professor.

Date of appointment : 02/12/2018

Present grade : \_\_\_\_\_

Residential address : A.P. Ranjani, Tal-Ambegoan, Dist-Pune

Phone Number : 9860902012

Blood Group : \_\_\_\_\_

PAN No. : \_\_\_\_\_


Saving A/c. No. : \_\_\_\_\_

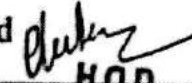
P.E.A/c. No. \_\_\_\_\_

## ALLOTMENT OF WORK LOAD

class (Sem-I)

| So. No.  | <del>Class</del> | Subject                        | Paper | Work load                       |
|----------|------------------|--------------------------------|-------|---------------------------------|
| 1)       | A4BBAC(A)        | C language                     | 103   | $03 \times 4 = 4$               |
| 2)       | S4BBAC(A)        | Big Data                       | 305   | $03 \times 4 = 4$               |
| 3)       | T4BBAC(A)        | Core Java                      | 503   | $4 + 4 = 8$<br><u><u>16</u></u> |
| sem - II |                  |                                |       |                                 |
| 4)       | A4BBA<br>(CA)    | web tech<br>(HTML, CSS<br>JSS) | 205   | $04 + 04 = 8$                   |
| 5)       | S4BBA<br>(CA)    | Add-on                         | 307   | $02 = 2$                        |
| 6)       | T4BBA<br>(CA)    | Advanced<br>Java               | 603   | $4 + 4 = 8$<br><br>$= 18$       |

  
Signature  
of the Teacher

Head   
Department of H.O.D.  
BBA(CA) Department  
A A College

**PRINCIPAL**  
ANNASAHEB AWATE COLLEGE  
MANCHAR. (DIST. PUNE)  
Principal

# DAILY RECORD

Date: 19/9/2022

Day: Monday

| Class/Time | Topic                     | Synopsis   | Class/Time |
|------------|---------------------------|--|------------|
| 14BBA02A   | matrix.                   | matrix in e-program<br>① Addition of two numbers matrices.<br>② multiplication of two matrices |            |
| 34BBA02A   | Introduction to Big Data. | Introduction to Big Data.<br>• Discuss about what is Big Data.<br>• concept of Big.            | Big Data.  |

Teaching Methods / Teaching Aids: Blackboard, Lectures, IET

Books / References: Nirali, NPSP, publication

  
Signature Teacher

Head  
Department of   
Signature Teacher



Rayat Shikshan Sanstha's  
**Annasaheb Awate Arts, Commerce &  
Hutatma Babu Genu Science College**

Manchar, Dist. Pune. (MAHARASHTRA) 410 503



**PERSONAL RECORD**

Name of the Teacher : Temkar Monali Tukaram

Qualification : MBA Finance, HR

Department : B.Voc (Account & Taxation) Dep of comm & mangt

Designation : Assistance Proffeser.

Date of oppointment : 7/10/2022

Present garde : \_\_\_\_\_

Residential address : A/P Awasari khurd.

Phone Number : 9730346144 / 9730606144

●od Group : B<sup>ve</sup>

PAN No. : AYEPT6956J

Saving A/c. No. : \_\_\_\_\_

P.E.A/c. No. \_\_\_\_\_

# ALLOTMENT OF WORK LOAD

| So. No. | Calss      | Subject                     | Paper                       | Work load |
|---------|------------|-----------------------------|-----------------------------|-----------|
| 1       | S.Y.B Voc  | Risk Management             | Risk Management             | 04/48     |
| 2       | T.Y.B.Voc  | Indian finance system       | Indian Finance system       | 04/48     |
| 3       | T.Y.B.Voc  | finishing school            | finishing school            | 04/48     |
| 4       | P.Y.B.Voc  | Indirect Tax                | Indirect Tax                | 04/48     |
| 5       | P.Y.B.Voc  | Lab in Indirect Tax         | Lab in Indirect Tax         | 04/10     |
| 6       | S.Y.B.Voc  | Company Law :- Business Law | company Law :- Business Law | 04/48     |
| 7       | T.Y.B.Voc  | E-commerce                  | E-commerce                  | 04/48     |
| 8       | T.Y.B. Voc | Lab in IFRS                 | Lab in IFRS                 | 04/48     |



Signature  
of the Teacher



Head **HOD**

Department of Department of B.Voc (Acco & Tax)  
Annasaheb Amate College  
Mumbai, Tal. Ambegaon, Dist. Pune



Principal

(Semester / Annual I)

| Sr. No | Time             | Mon.                    | Tue.             | Wed.             | Thu.             | Fri.             | Sat.             |
|--------|------------------|-------------------------|------------------|------------------|------------------|------------------|------------------|
| 1      | 8.00 - 8.45      | S.Y.<br>B<br>Voc        | S.Y.<br>B<br>Voc | S.Y.<br>B<br>Voc | -                | -                | -                |
| 2      | 8.45 - 9.30      | T.Y.<br>B<br>Joc        | T.Y.<br>B<br>Voc | T.Y.B<br>Voc     | T.Y.<br>B<br>Voc | T.Y.<br>B<br>Voc | T.Y.<br>B<br>Voc |
| 3      | 9.45 - 10.30     |                         |                  |                  |                  |                  |                  |
| 4      | 10.30 - 11.15    | T.Y.<br>B<br>Voc        | T.Y.<br>B<br>Voc | T.Y.<br>B<br>Voc |                  | T.Y.<br>B<br>Voc | T.Y.<br>B<br>Voc |
| 5      | 11.15 - 12.00    |                         |                  |                  |                  |                  | T.Y.<br>B<br>Voc |
|        |                  |                         |                  |                  |                  |                  |                  |
|        | S.Y.<br>B<br>Voc | Risk Management         |                  |                  |                  |                  |                  |
|        | T.Y.<br>B<br>Joc | finishing school        |                  |                  |                  |                  |                  |
|        | T.Y.<br>B<br>Voc | Indian financial system |                  |                  |                  |                  |                  |
|        |                  |                         |                  |                  |                  |                  |                  |

HOD

Department of Finance & Tax  
 Government College  
 Bangalore District

Signature

**TIME TABLE 2022 - 2023**  
(Semester / Annual II )

| Sr. No. | Time             | Mon.                       | Tue.             | Wed.             | Thu.             | Fri.             | Sat.             |
|---------|------------------|----------------------------|------------------|------------------|------------------|------------------|------------------|
| 1       | 8-00<br>8-45     | S.Y.<br>B<br>VOC           | S.Y.<br>B<br>VOC | S.Y.<br>B<br>VOC |                  |                  |                  |
| 2       | 8-45<br>9-30     | T.Y.<br>B<br>VOC           | T.Y.<br>B<br>VOC | T.Y.<br>B<br>VOC | F.Y.<br>B<br>VOC | F.Y.<br>B<br>VOC | F.Y.<br>B<br>VOC |
| 3       | 9-30<br>10-15    | T.Y.B<br>VOC               | T.Y.<br>B<br>VOC | T.Y.<br>B<br>VOC | F.Y.<br>B<br>VOC | F.Y.<br>B<br>VOC | F.Y.<br>B<br>VOC |
|         | 10-30<br>11-10   | S.Y.<br>B.VOC              | T.Y.<br>B.VOC    | T.Y.<br>B.VOC    |                  |                  | F.Y.<br>B<br>VOC |
|         |                  |                            |                  |                  |                  |                  |                  |
|         | S.Y.B<br>VOC     | Business Law & company Law |                  |                  |                  |                  |                  |
|         | T.Y.<br>B<br>VOC | E-commerce                 |                  |                  |                  |                  |                  |
|         | T.Y.<br>B<br>VOC | Lab in IFRS                |                  |                  |                  |                  |                  |
|         | F.Y.<br>B<br>VOC | Indirect Tax               |                  |                  |                  |                  |                  |
|         | F.Y.<br>B<br>VOC | Lab in Indirect Tax        |                  |                  |                  |                  |                  |

Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce &  
Hutatma Babu Genu Science College  
Manchar, Dist. Pune. (MAHARASHTRA) 410 503

**PERSONAL RECORD**

Name of the Teacher : Professor Bhor P.B.  
Qualification : M.com  
Department : B.Voc Account & Taxation.  
Designation : Assistance Professor  
Date of oppointment : 3/10/2022.  
Present garde :  
Residential address : A/p Awassi khurd.  
Phone Number : 7447832827.  
Blood Group : B<sup>+</sup>  
PAN No. :  
Saving A/c. No. :  
P.E.A/c. No. :

| So. No. | Calss     | Subject                             | Paper  | Work load |
|---------|-----------|-------------------------------------|--|-----------|
| 1)      | FY B.Voc  | Tally (lab in tally)                | lab intally practical                            | 4/48      |
| 2)      | FY B.Voc  | Macro economics                     | Macro economics Theory.                          | 4/48      |
| 3)      | SY B.voc  | payroll Inv. & A/c Man. (Theory)    | Payroll Inventory & Accounting Management Theory | 4/48      |
| 4)      | SY B.voc  | payroll Inv. & A/c Man. (practical) | - practical                                      | 4/48.     |
| 5)      | SY B.com  | enviromental studies                | enviromental studies                             | 4/48      |
| 6)      | FY B.voc  | lab in tally                        | lab intally.                                     | 4/48      |
| 7)      | SY B.VOC  | CGST (cent. ral Goods & Ser. tax)   | Central Goods & Service tax.                     | 4/48      |
| 8)      | TY B.voc  | entrepreneurship dev. lab           | entrepreneurship developement.                   | 4/48      |
| 9)      | SY B.com. | EVS.                                | enviromental studies.                            | 4/48.     |

*[Handwritten signature]*

**HOD**

Department of B Voc (Acco & Tax)  
 Annasaher Awale College  
 Manchar Tal. Ambegaon Dist. Pune  
 Head

Department of \_\_\_\_\_

*[Handwritten signature]*  
 Signature  
 of the Teacher



*[Handwritten signature]*  
 Principal

# TIME TABLE 20 22 - 20 23

(Semester / Annual I )

| Sr. No. | Time               | Mon.        | Tue.        | Wed.        | Thu.                           | Fri.         | Sat.                 |
|---------|--------------------|-------------|-------------|-------------|--------------------------------|--------------|----------------------|
| 1       | 8 to 8 45          | FY<br>B.Voc | FY<br>B.Voc | FY<br>B.Voc | FY B.Voc<br>Macro<br>economics | Macro<br>Eco | Macro<br>Eco<br>FY B |
| 2       | 8 45 to<br>9.30    |             |             |             | SY<br>B.Voc                    | SY<br>B.Voc  | SY<br>B.V            |
| 3       | 9.45 to<br>10.30   |             |             |             |                                |              |                      |
| 4       | 10.30 to<br>11.15. |             |             |             | 1 SY B.Voc                     |              |                      |
|         | 11.15 to<br>12.    | EVS         | EVS         | EVS         |                                |              |                      |
|         |                    |             |             |             |                                |              |                      |
|         |                    |             |             |             |                                |              |                      |
|         |                    |             |             |             |                                |              |                      |
|         |                    |             |             |             |                                |              |                      |
|         |                    |             |             |             |                                |              |                      |
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|         |                    |             |             |             |                                |              |                      |
|         |                    |             |             |             |                                |              |                      |

HOD  
 Department of Economics & Tax  
 Government College  
 Bangalore



## TIME TABLE 20 22 - 20 23

(Semester / Annual II. )

| Sr. No. | Time            | Mon.             | Tue.                     | Wed.                | Thu.               | Fri.            | Sat.            |
|---------|-----------------|------------------|--------------------------|---------------------|--------------------|-----------------|-----------------|
| 1]      | 8 to 8.45       | TY B.voc<br>ED   | entrepreneurship<br>Dev. | TY<br>ED<br>Theory. | TY<br>(prac)<br>ED | TY (prac)<br>ED | TY (prac)<br>ED |
| 2]      | 8.45 to 9.30    | FY<br>Tally      | FY<br>Tally              | FY<br>Tally         |                    |                 |                 |
| 3]      | 9.30 to 10.15.  | SY B.voc<br>CGST | CGST                     | SY B.voc<br>CGST    |                    |                 |                 |
| 4]      | 10.30 to 11.10  |                  |                          |                     |                    |                 |                 |
|         | 11.15 to 11.45. |                  | FY.<br>Tally             |                     | TY B.voc<br>ED.    |                 |                 |
|         |                 |                  |                          |                     |                    |                 |                 |
|         |                 |                  |                          |                     |                    |                 |                 |
|         |                 |                  |                          |                     |                    |                 |                 |
|         |                 |                  |                          |                     |                    |                 |                 |
|         |                 |                  |                          |                     |                    |                 |                 |
|         |                 |                  |                          |                     |                    |                 |                 |
|         |                 |                  |                          |                     |                    |                 |                 |
|         |                 |                  |                          |                     |                    |                 |                 |
|         |                 |                  |                          |                     |                    |                 |                 |

Director  
 Institute of Management Studies  
 Bangalore






**Rayat Shikshan Sanstha's**  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar, Tal. Ambegaon,**  
**Dist. Pune 410503**  
**Academic Year 2022-2023**

**Information of PPT's Available**

Department: **Botany**

| Sr. No.     | Name of The Teacher     | Number of PPT's Available |
|-------------|-------------------------|---------------------------|
| 1           | Prof. Dr. Bolbhat S. N. | 52                        |
| 2           | Mr. Kumawat V. S.       | 40                        |
| 3           | Dr. Admuthe N. B.       | 39                        |
| 4           | Mr. Bhor A. K.          | 40                        |
| 5           | Mr. Naik P. D.          | 20                        |
| 6           | Ms. Barve S. V.         | 10                        |
| Total PPT's |                         | 201                       |

  
**Head**  
**Department of Botany**  
Annasaheb Awate Arts, Commerce and Hutatma Babu Genu  
Science College, Manchar, Tal. Ambegaon, Dist. Pune

Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar, Tal. Ambegaon, Dist. Pune  
410503

Academic Year 2022-2023

List of PPT's



Name of the Teacher: **Dr. N. B. Admuthe**

Department: **Botany**


| Sr. No. | Class        | Subject | Topic          | Sub-topic  | Number of PPT's |
|---------|--------------|---------|----------------|--|-----------------|
| 1       | F. Y. B. Sc. | Botany  | Algae          | General outline of plant kingdom                 | 01              |
| 2       | F. Y. B. Sc. | Botany  | Algae          | Algae- Introduction, General Characters          | 01              |
| 3       | F. Y. B. Sc. | Botany  | Algae          | Algae- Classification                            | 01              |
| 4       | F. Y. B. Sc. | Botany  | Algae          | Life Cycle of Spirogyra                          | 01              |
| 5       | F. Y. B. Sc. | Botany  | Lichens        | Lichens- Introduction, General Characters forms  | 01              |
| 6       | F. Y. B. Sc. | Botany  | Fungi          | Fungi- Introduction, General Characters          | 01              |
| 7       | F. Y. B. Sc. | Botany  | Fungi          | Fungi- Classification                            | 01              |
| 8       | F. Y. B. Sc. | Botany  | Fungi          | Life Cycle of Mushroom- <i>Agaricus bisporus</i> | 01              |
| 9       | F. Y. B. Sc. | Botany  | Bryophytes     | Bryophytes- Introduction, General Characters     | 01              |
| 10      | F. Y. B. Sc. | Botany  | Bryophytes     | Bryophytes- Classification                       | 01              |
| 11      | F. Y. B. Sc. | Botany  | Bryophytes     | Life Cycle of <i>Riccia</i>                      | 01              |
| 12      | T. Y. B. Sc. | Botany  | Algae          | Study of life cycle of <i>Nostoc</i>             | 01              |
| 13      | T. Y. B. Sc. | Botany  | Algae          | Study of life cycle of <i>Chara</i>              | 01              |
| 14      | T. Y. B. Sc. | Botany  | Algae          | Study of life cycle of <i>Sargassum</i>          | 01              |
| 15      | T. Y. B. Sc. | Botany  | Algae          | Study of life cycle of <i>Batrachospermum</i> .  | 01              |
| 16      | T. Y. B. Sc. | Botany  | Fungi          | Study of life cycle <i>Rhizopus</i>              | 01              |
| 17      | T. Y. B. Sc. | Botany  | Fungi          | Study of life cycle <i>Saccharomyces</i>         | 01              |
| 18      | T. Y. B. Sc. | Botany  | Fungi          | Study of life cycle of <i>Puccinia</i>           | 01              |
| 19      | T. Y. B. Sc. | Botany  | Fungi          | Study of life cycle of <i>Cercospora</i> .       | 01              |
| 20      | T. Y. B. Sc. | Botany  | Bryophytes     | Study of life cycle <i>Marchantia</i>            | 01              |
| 21      | T. Y. B. Sc. | Botany  | Bryophytes     | Study of life cycle of <i>Anthoceros</i>         | 01              |
| 22      | T. Y. B. Sc. | Botany  | Bryophytes     | Study of life cycle of <i>Polytrichum</i> .      | 01              |
| 23      | T. Y. B. Sc. | Botany  | Plant Breeding | Introduction, scope and importance               | 01              |
| 24      | T. Y. B. Sc. | Botany  | Plant Breeding | Plant introduction and acclimatization           | 01              |
| 25      | T. Y. B. Sc. | Botany  | Plant Breeding | Selection methods- Mass selection                | 01              |
| 26      | T. Y. B. Sc. | Botany  | Plant Breeding | Selection methods- Pure Line selection           | 01              |
| 27      | T. Y. B. Sc. | Botany  | Plant Breeding | Hybridization                                    | 01              |

**Rayat Shikshan Sanstha's**  
**Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College, Manchar, Tal. Ambegaon,**  
**Dist. Pune 410503**  
**Academic Year 2022-2023**

**Information of YouTube Videos**

Department: **Botany**

| Sr. No.      | Name of The Teacher     | Number of Youtube videos |
|--------------|-------------------------|--------------------------|
| 1            | Prof. Dr. Bolbhat S. N. | 04                       |
| 2            | Mr. Kumawat V. S.       | 02                       |
| 3            | Dr. Admuthe N. B.       | 08                       |
| 4            | Mr. Bhor A. K.          | 04                       |
| 5            | Mr. Naik P. D.          | 01                       |
| 6            | Ms. Barve S. G.         | 00                       |
| Total Videos |                         | 19                       |

  
**Head**  
**Department of Botany**  
Annasaheb Awate Arts, Commerce and Hutatma Babu Genu  
Science College, Manchar, Tal. Ambegaon, Dist. Pune

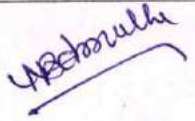
**Rayat Shikshan Sanstha's**  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar, Tal. Ambegaon, Dist.**  
**Pune 410503**  
**Academic Year 2022-2023**


**List of YouTube Video**

Name of the Teacher: **Dr. N. B. Admuthe**

Department: **Botany**

| Sr. No.            | Class        | Subject | Topic | Sub-topic                            | Link  | Views as on 01/02/2024 |
|--------------------|--------------|---------|-------|--------------------------------------|---|------------------------|
| 1                  | T. Y. B. Sc. | Botany  | Algae | General Characters of Algae          | <a href="https://youtu.be/7eJ2qmyn58">https://youtu.be/7eJ2qmyn58</a>   | 311                    |
| 2                  | T. Y. B. Sc. | Botany  | Algae | Life Cycle of <i>Nostoc</i>          | <a href="https://youtu.be/V5gAtNvcms">https://youtu.be/V5gAtNvcms</a>   | 167                    |
| 3                  | T. Y. B. Sc. | Botany  | Algae | Life Cycle of <i>Chara</i>           | <a href="https://youtu.be/rvUZ1dibbmQ">https://youtu.be/rvUZ1dibbmQ</a> | 170                    |
| 4                  | T. Y. B. Sc. | Botany  | Algae | Life Cycle of <i>Batrachospermum</i> | <a href="https://youtu.be/7DPyRmbeFlg">https://youtu.be/7DPyRmbeFlg</a> | 200                    |
| 5                  | T. Y. B. Sc. | Botany  | Algae | Life Cycle of <i>Sargassum</i>       | <a href="https://youtu.be/yG6NdPOkFMk">https://youtu.be/yG6NdPOkFMk</a> | 357                    |
| 6                  | T. Y. B. Sc. | Botany  | Fungi | General Characters of Fungi          | <a href="https://youtu.be/U8QdR4ouS0w">https://youtu.be/U8QdR4ouS0w</a> | 254                    |
| 7                  | T. Y. B. Sc. | Botany  | Fungi | Life Cycle of <i>Rhizopus</i>        | <a href="https://youtu.be/TbXwULBTxEw">https://youtu.be/TbXwULBTxEw</a> | 204                    |
| 8                  | T. Y. B. Sc. | Botany  | Fungi | Life Cycle of <i>Cercospora</i>      | <a href="https://youtu.be/Jpry0nSUPwY">https://youtu.be/Jpry0nSUPwY</a> | 284                    |
| <b>Total Views</b> |              |         |       |                                      |   | <b>1,947</b>           |

  
Subject Teacher

  
Head  
Department of Botany  
Annasaheb Awate Arts, Commerce and Hutatma Babu Genu  
Science College, Manchar, Tal. Ambegaon, Dist. Pune

Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College,  
Manchar, Tal. Ambegaon, Dist. Pune 410503

Department of Electronic Science

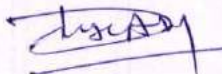
ICT RECORDS: 2022-23

List of Presentations

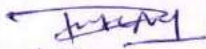
Name of Faculty: Ms. Afroj M Dange

Class: TYBSc (Theory)

| Sr. No | Topic   |
|--------|---|
| 1      | Sensors & Transducers Introduction              |
| 2      | Types of Sensors                                |
| 3      | Classification of sensors                       |
| 4      | Temperature Sensors: Introduction<br>Types: RTD |
| 5      | RTD Explanation, Advantages, Disadvantages      |
| 6      | Thermocouple                                    |
| 7      | Thermistors, Light Sensors                      |
| 8      | Vibration Sensors, Gas Sensors                  |
| 9      | Smart Sensors                                   |
| 10     | Stress  |
| 11     | Sensors Characteristics                         |
| 13     | Instrumentation Amplifier                       |
| 14     | Modern Communication Electronics                |
| 15     | PCM, PCM Methods,                               |
| 16     | Delta Modulation, Adaptive Delta Modulation     |
| 17     | TDM, FDM  |
| 18     | Mobile and Cellular Communication               |
| 19     | GSM, CDMA, 2G, 3G & 4G Concepts                 |
| 20     | Satellite Communication                         |

  
A. M. Dange



  
Head  
Dept. of Electronic Science  
A. A. College, Manchar

Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College,  
Manchar, Tal. Ambegaon, Dist. Pune 410503

Department of Electronic Science

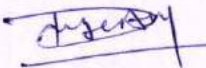
ICT RECORDS: 2022-23

List of Presentations

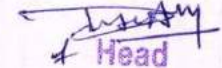
Name of Faculty: Ms. Afroj M Dange

Class: SYBSc (Theory)

| Sr. No | Topic   |
|--------|---|
| 1      | Introduction to Microcontroller, Difference Between UC and UP |
| 2      | Arduino Pin configuration, description                        |
| 3      | Features, ATMEGA328P  |
| 4      | RAM, ROM, Timer, Address Bus, Data Bus                        |
| 5      | IDE tools, Software's introduction and use                    |
| 6      | ATMEGA 328P Pin Configuration                                 |
| 7      | Software Installation   |
| 8      | Building Blocks of Arduino Program                            |
| 9      | Variables & Data Types  |
| 10     | Control Structure   |
| 11     | Functions   |
| 12     | Python  |
| 13     | Python functions, Modules                                     |

  
A.M. Dange



  
Head  
Department of Electronic Science  
A. A. College, Manchar

Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College,  
Manchar, Tal. Ambegaon, Dist. Pune 410503

Department of Electronic Science

ICT RECORDS: 2022-23

List of Presentations

Name of Faculty: Ms. J B Khilari

Class: TYBSc (Theory)

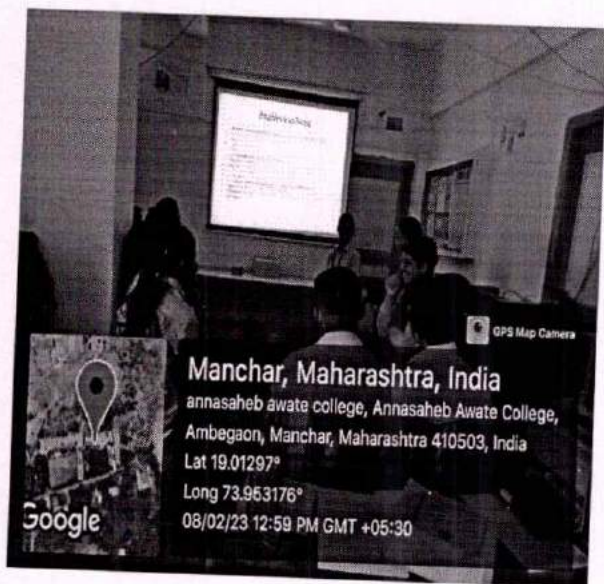
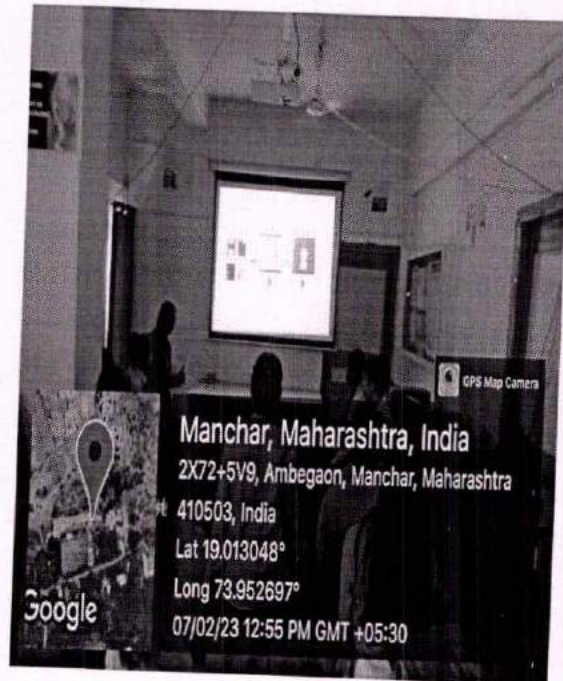
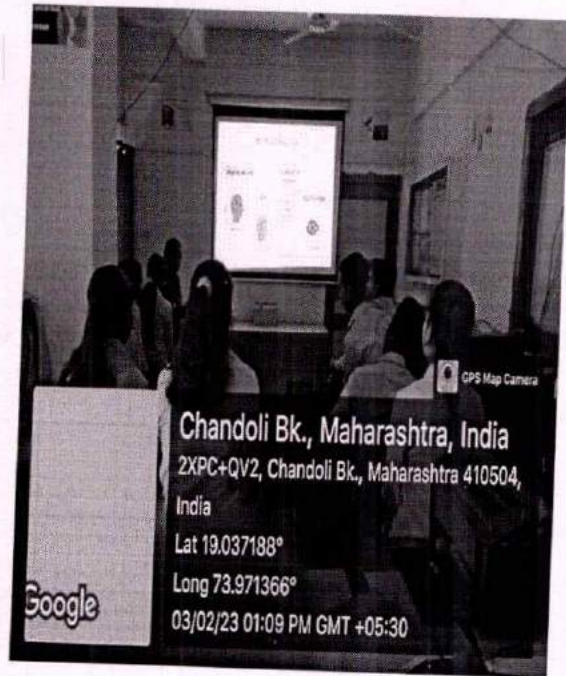
| Sr. No | Topic  |
|--------|--|
| 1      | Introduction to Verilog                                |
| 2      | PAL, PLA   |
| 3      | Introduction to EDT Tools                              |
| 4      | Power Devices: Power Diode, Power Transistor, SCR, PUT |
| 5      | Power Circuits: Controlled Rectifier                   |
| 6      | Half and Full wave Inverter                            |
| 7      | Cycloconverter   |
| 8      | SMPS, UPS  |
| 9      | Classification of Motors                               |
| 10     | Optical Source and Detectors                           |
| 11     | Optical Fiber Network                                  |
| 13     | Optical Fiber Source                                   |
| 14     | Introduction to Nanoelectronics                        |
| 15     | CPLD and CPGA  |

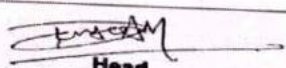
Incharge: B. Khilari



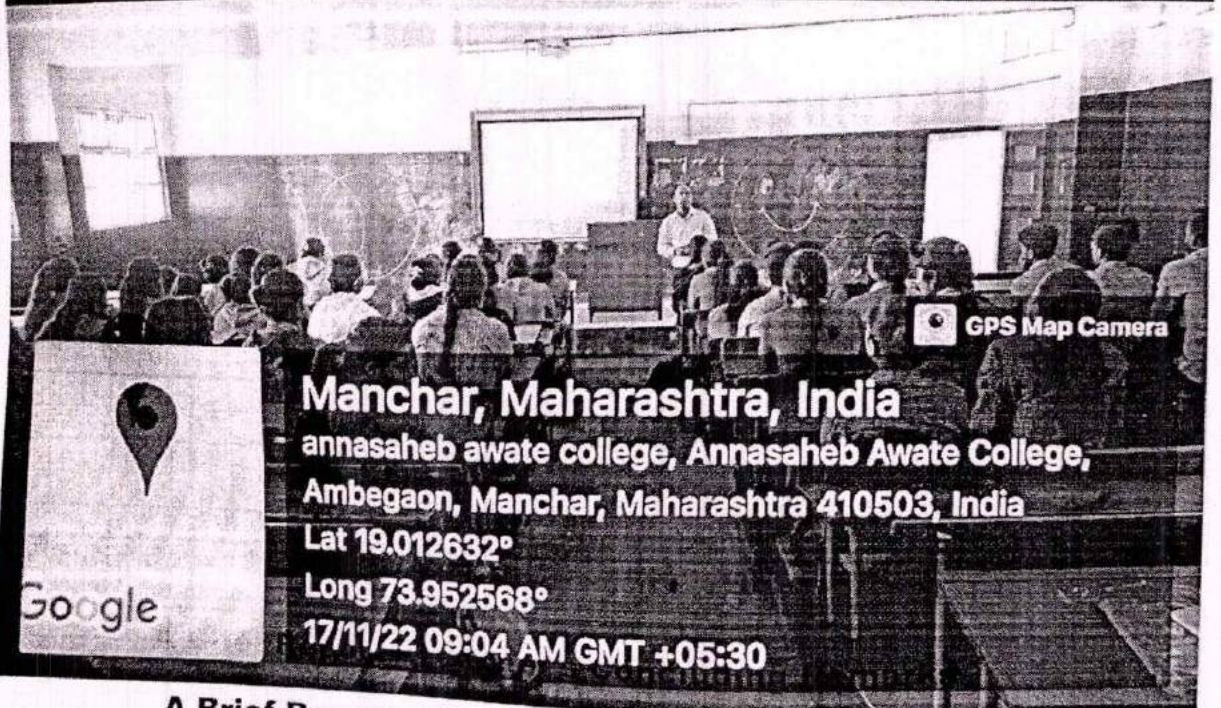
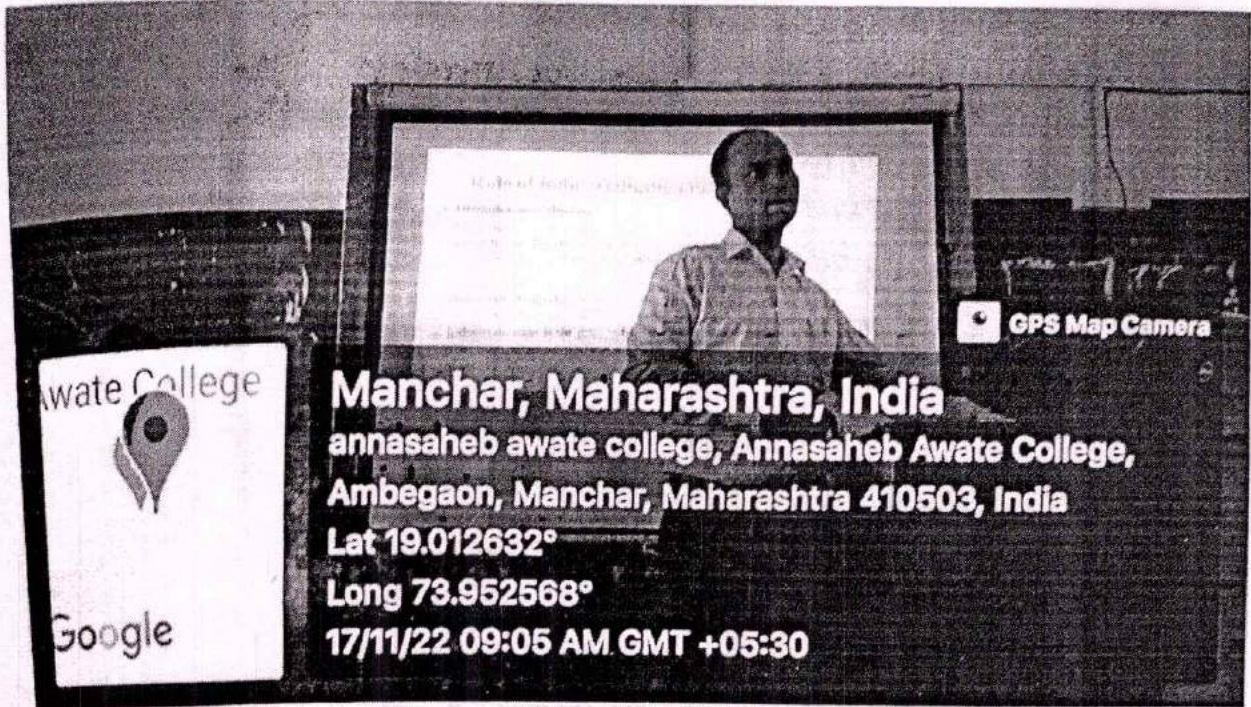
J. B. Khilari  
Head  
Dept. of Electronic Science  
A. A. College, Manchar

Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College,  
Manchar, Tal. Ambegaon, Dist.Pune 410503  
Department of Electronic Science  
ICT RECORDS: 2022-23  
Photos



  
Head  
Dept. of Electronic Science  
A. A. College, Manchar





**A Brief Report / Teacher's Concluding Remarks**

ICT Lecture was taken on 17<sup>th</sup> November 2022 for the students of T.Y.B.Com A & B on Role of Industrialisation in Economic Development. A Total 87 Students were present for this ICT Lecture. The Students approach to ICT Lecture was positive.

Signature of the Teacher

*[Handwritten Signature]*

Signature of the HoD  
Head

Department Of Economics



Signature of the Principal

**Rayat Shikshan Sanstha's**

**ANNASAHEB AWATE COLLEGE MANCHAR**

Online lecture series by

**Prof. Fasale V.B.**

| <b>Sr.No.</b> | <b>Class</b> | <b>Name of topic</b>                    | <b>Link</b>   |
|---------------|--------------|---|---|
| 1             | F.Y.B.Sc     | The Sphere                              | <a href="https://youtu.be/s5bddoqj12U">https://youtu.be/s5bddoqj12U</a> |
| 2             | F.Y.B.Sc     | The Integers                            | <a href="https://youtu.be/yKXzPZBnXzQ">https://youtu.be/yKXzPZBnXzQ</a> |
| 3             | S.Y.B.Sc     | Vector Spaces                           | <a href="https://youtu.be/ablvycxaKOk">https://youtu.be/ablvycxaKOk</a> |
| 4             | T.Y.B.Sc     | Ordinary<br>Differential<br>Equations 1 | <a href="https://youtu.be/XgtjPi8-UX4">https://youtu.be/XgtjPi8-UX4</a> |
| 5             | T.Y.B.Sc     | Ordinary<br>Differential<br>Equations 2 | <a href="https://youtu.be/x2BU7Qq8CWY">https://youtu.be/x2BU7Qq8CWY</a> |
| 6             | T.Y.B.Sc     | Ordinary<br>Differential<br>Equations 3 | <a href="https://youtu.be/4hCBbwd2seQ">https://youtu.be/4hCBbwd2seQ</a> |
| 7             | T.Y.B.Sc     | Ordinary<br>Differential<br>Equations 4 | <a href="https://youtu.be/OWl5xdjTLII">https://youtu.be/OWl5xdjTLII</a> |
| 8             | T.Y.B.Sc     | Ordinary<br>Differential<br>Equations 5 | <a href="https://youtu.be/scZkxo2dC50">https://youtu.be/scZkxo2dC50</a> |
| 9             | S.Y.B.Sc     | Limit and<br>Continuity                 | <a href="https://youtu.be/HV2iZ7ZS3iY">https://youtu.be/HV2iZ7ZS3iY</a> |
| 10            | S.Y.B.Sc     | Partial<br>Derivatives                  | <a href="https://youtu.be/aRdV lEl83g">https://youtu.be/aRdV lEl83g</a> |
| 11            | S.Y.B.Sc     | Differentiability<br>1                  | <a href="https://youtu.be/wIMZFwPK6 k">https://youtu.be/wIMZFwPK6 k</a> |
| 12            | S.Y.B.Sc     | Differentiability<br>2                  | <a href="https://youtu.be/IMOEVK5cyvU">https://youtu.be/IMOEVK5cyvU</a> |
| 13            | S.Y.B.Sc     | Differentiability<br>3                  | <a href="https://youtu.be/A BH0wPxsVo">https://youtu.be/A BH0wPxsVo</a> |

*Rayat Shikshan Sanstha's*  
Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist Pune

DEPARTMENT OF ZOOLOGY

Prof. S. T. Pokale

Video Lecture Link

You tube links:

T.Y.B. Sc. Zoology

<https://www.youtube.com/watch?v=zBTsO3Gy5Y&t=0s>

<https://www.youtube.com/watch?v=NUmZwD6tODQ&t=0s>

[https://www.youtube.com/watch?v=1GD\\_IfOljxQ&t=0s](https://www.youtube.com/watch?v=1GD_IfOljxQ&t=0s)

<https://www.youtube.com/watch?v=KIIbf4nuCi4&t=0s>

<https://youtu.be/uS64Z5jBxPs>

[https://youtu.be/\\_zBTsO3Gy5Y](https://youtu.be/_zBTsO3Gy5Y)

<https://youtu.be/KIIbf4nuCi4>



*S.T. Pokale*  
Head  
Department Of Zoology  
Department Of Zoology  
A.A. College, Manchar

Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatama Babu Genu Science college, Manchar  
E- CONTENT RECORD

Video Lecture

Teacher Name- Dr. Swapna Sachin Patil

| Sr. No. | E- Content                             | You tube link   |
|---------|--|---|
| 1       | Epithelial Tissue-Part 1               | <a href="https://youtu.be/klt8O0nFJug">https://youtu.be/klt8O0nFJug</a> |
| 2       | Epithelial Tissue-Part 2               | <a href="https://youtu.be/w_kLzObnsfY">https://youtu.be/w_kLzObnsfY</a> |
|         | Connective Tissue                      | <a href="https://youtu.be/-M27_vEY_Xg">https://youtu.be/-M27_vEY_Xg</a> |
| 4       | Muscular Tissue1                       | <a href="https://youtu.be/Sjd1rQ-Z86s">https://youtu.be/Sjd1rQ-Z86s</a> |
| 5       | Muscular Tissue2                       | <a href="https://youtu.be/GQY9fdaKQt8">https://youtu.be/GQY9fdaKQt8</a> |
| 6       | Economic Zoology -General Introduction | <a href="https://youtu.be/L7PsPVguxq4">https://youtu.be/L7PsPVguxq4</a> |
| 7       | Economic Zoology-II                    | <a href="https://youtu.be/ZgmL2OeuVxs">https://youtu.be/ZgmL2OeuVxs</a> |



*Dr. Swapna Sachin Patil*  
Head  
Department. of Zoology

*Rayat Shikshan Sanstha's*  
**Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College**  
**Manchar, Tal. Ambegaon, Dist Pune**

**ANNASAHEB AWATE COLLEGE, MANCHAR**

**DEPARTMENT OF BIOTECHNOLOGY**

**2022-23**

| <b>Sr No</b> | <b>Types Of ICT Tools</b> |
|--------------|---------------------------|
| 1            | Google Form               |
| 2            | Projector                 |
| 3            | Virtual Lab               |
| 4            | Google Map                |
| 5            | Google Classroom          |

  
**HOD**

Department of Biotechnology  
Annasaheb Awate College, Manchar

*Rayat Shikshan Sanstha's*  
**Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science  
College**  
**Manchar, Tal. Ambegaon, Dist Pune**

**DEPARTMENT OF BIOTECHNOLOGY**

**2022-23**

LIST OF POWER POINT PRESENTATION AND VIDEOS.

| SR.NO | TOPIC NAME                    | VIDEO/ PPT |
|-------|-------------------------------|------------|
| 1.    | MICROBIAL CLASSIFICATION      | PPT        |
| 2.    | DNA REPLICATION               | PPT        |
| 3.    | FERMENTATION MODEL AND TYPES  | PPT        |
| 4.    | PHOTOSYNTHESIS PROCESS        | VIDEO      |
| 5.    | INTRODUCTION TO IMMUNO SYSTEM | VIDEO      |
| 6.    | FOOD ADITIVES                 | PPT        |
| 7.    | GLYCOLYSIS                    | PPT        |
| 8.    | CITRIC ACID CYCLE             | PPT        |
| 9.    | TRANSCRIPTION                 | VIDEO      |
| 10.   | PROTEIN SYSNTHESIS            | VIDEO      |
| 11.   | CELL ORGANELLES               | PPT        |
| 12.   | GMO,S                         | PPT        |
| 13.   | GENETIC CODE                  | PPT        |
| 14.   | GENOME ORGANIZATION           | PPT        |
| 15.   | CELL CYCLE                    | VIDEO      |
| 16.   | MITOSIS                       | VIDEO      |
| 17.   | MEIOSIS                       | VIDEO      |

  
**HOD**

Department of Biotechnology  
Annasaheb Awate College, Manchar

*Rayat Shikshan Sanstha's*

**ANNASAHEB AWATE COLLEGE, MANCHAR, TAL-AMBEGAON, DIST-PUNE**

**B.Voc Food Processing and Quality Management**

**Year 2022-23**

**List of Computers, Wi-Fi Routers, Projectors and laptops**

| <b>Sr. No.</b> | <b>ICT based Tools</b> | <b>Quantity</b> |
|----------------|------------------------|-----------------|
| 1              | Computer               | 1               |
| 2              | Printer                | 1               |
| 3              | Projector              | 1               |
| 4              | Wi-Fi Router           | 1               |



Head

Dept. of B. Voc

(Food Processing & Quality Management,  
Annasaheb Awate College, Manchar)



Rajat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune  
Department of Zoology  
Certificate Course in Apiculture 2022-23  
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DEPARTMENT OF ZOOLOGY  
SHORT TERM COURSE IN APICULTURE  
2022 - 23  
REPORT

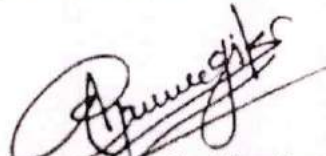
1. *Date/ Duration* : April, 2023 – June, 2023
2. *Mode* : Onsite
3. *No. of Beneficiaries* : 14
4. *Program Coordinator* : Ms. H. J. Gavit
5. *Organizing Team* : Mr. S. T. Pokale  
Dr. S. S. Patil  
Ms. Sayyed S. A. R.  
Ms. Kale S. V.
6. *Resource Persons with Affiliation* -
7. *Objective*

The short-term course in Apiculture was conducted with following objectives:

1. It helps to provide /or upgrade specific skills and knowledge required for enhanced performance of expected duties and responsibilities.
2. It facilitate or enhance the development of a critical mass of trained human resources able to work or contribute effectively towards specified nutritional improvements.
3. It also helps to inculcate comprehensive training (basic and advanced) and research activities about Honey Bees and Create Awareness on Bee hive products.

8. *Program Report*

Short term course was organized from Short Term Course on "Apiculture" in the months of April, May and June 2022. Total 14 students benefited from the course. All the lectures and practical's was conducted via onsite mode. Students were enlightened with the role of honey bee in ecology and significance of apiculture. A field visit was organized for reinforcing experiential and relational learning. Students were exposed to the real-life handling of bee colonies and identifying polymorphism in bees by field visit. In performance assessment, theory exam was conducted. Students were also evaluated Continuous Internal Evaluation method. Overall, the course was an eye opener for students and an extremely enjoyable experience. The course was concluded with collection of feedback from students. The feedback from the students was very good.

  
STC Co-Ordinator  
(Dept.)



  
Head  
Department Of Zoology  
A.A.College, Manchar

Rayat Shikshan Sanstha,  
Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College,  
Manchar

Department of Zoology

Short Term Course in Apiculture  
Board of Studies  
Meeting

Date: 08/04

Minutes of Meeting

Prof. S. T. Pokale, Head, Department of Zoology, extended a warm welcome to all members of Board of Studies.

**Reading of agenda:**

1. Presentation of proposed syllabus of Short-Term Course in Apiculture.
2. Evaluation pattern.
3. Any other.

**Minutes:**

**Meeting started at 11:30 AM**

- Motion 1: Presentation of restructured syllabus of Short-Term Course in Apiculture.**
- Ms. H. J. Gavit, presented the restructured syllabus on Short-Term Course in Apiculture.
  - Detailed unit wise syllabus was presented.
  - The additions of new topics and deletion of redundant topics were specified.
  - It was conveyed that the syllabus was restructured as per the suggestions by BOS members of previous year.
  - It was informed that the entire course is of 3 credits (45 lectures) of which 1 credit (15 lectures) is theory and 2 credits (30 lectures) practical classes.

**Motion 2: Evaluation Pattern.**

- Evaluation pattern of 60:40 will be followed (30 marks Semester End exam and 20 Marks Internal Assessment).
- Students will be evaluated based on theory and practical exam.
- Various assessment methods depending on type of exam were discussed.
- BOS members suggested taking exams via online mode.

on 3: Any other.

BOS members discussed including a compulsory visit to an Apiculture Center.  
They suggested taking two lectures per week to keep continuity of syllabus.

proposed syllabus on Short Term Course in Apiculture was approved by the BOS members

ate of thanks was proposed by Prof. H. J. Gavit

meeting adjourned at 12:30 pm.

*H. J. Gavit*

Prepared by

(Prof. H. J. Gavit)



Approved by *S. T. Pokale*

(Prof. S. T. Pokale)

Head of Department  
Department Of Zoology  
A.A.College, Manchar



Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce and Htatma Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune, 410503



Department of Zoology  
SHORT TERM COURSE IN APICULTURE  
2022-23

SYLLABUS DISTRIBUTION

|           | Title of Unit  | Name of Faculty     |
|-----------|--|---------------------|
| Theory    | UNIT-I<br>Introduction & Understanding Bee Biology and Behaviour   | Ms. H. J. Gavit     |
|           | UNIT-II<br>Bee-Keeping Tools, Maintenance and Beehive Management   | Ms. S. A. R. Sayyed |
|           | UNIT-III<br>Insects, Diseases and Nuisances in beehive and their Management  | Ms. S. V. Kale      |
|           | UNIT-IV<br>Bee Products  | Ms. S. A. R. Sayyed |
|           | UNIT-V<br>Harvesting, Processing of Bee Products and Economic Importance   | Ms. S. V. Kale      |
| Practical | 1. Study of Bee Biology<br>2. Study of Social Behaviour of Honey Bee<br>3. Study of Bee Keeping Equipments and tools<br>4. Study of Assembling of the Beehive<br>5. Management of beehive<br>6. Study of Methods of Rearing Honey Bees | Ms. S. A. R. Sayyed |
|           | 7. Handling of a Honey Bee Colony and Maintenance of Apiary Record<br>8. Study of Seasonal Management of Honey Bee<br>9. Study of Queen Bee Rearing<br>10. Economics of Bee Keeping  | Ms. S. V. Kale      |

  
Apiculture STC Co-ordinator



  
Head  
Head  
Department of Zoology  
Department of Zoology  
A.A. College, Manchar



Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune, 410503



## Department of Zoology

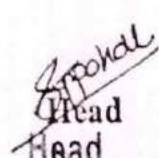
### SHORT TERM COURSE IN APICULTURE 2022-23

#### SYLLABUS DISTRIBUTION

| Sr. No. | Name of Faculty     | Total Number of Lectures |            |
|---------|---------------------|--------------------------|------------|
|         |                     | Theory                   | Practicals |
| 1.      | Ms. H. J. Gavit     | 3                        | -          |
| 2.      | Ms. S. A. R. Sayyed | 6                        | 18         |
| 3.      | Ms. S. V. Kale      | 6                        | 12         |

  
Apiculture STC Co-ordinator



  
Head  
Department of Zoology  
Department of Zoology  
A.A. College, Manchar

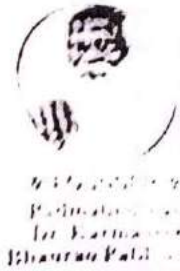


PRINCIPAL  
Dr. Kamal K. G.  
M.B. A.P.S. P.D.

Education through self help for all - PARMAZEE  
Rajawade Sanshodhan Samithi's  
**ANNASAHAB AWATE ARTS, COMMERCE &  
HUTATMA BABU GENU SCIENCE COLLEGE**  
Manchar, Tal. Ambegaon, Dist. Pune, Maharashtra - 410 503

**ACCREDITED BY NAAC**

ID No. PE/PS/AAC/01/1996/ANNABE/1/41221



Ref No. JUN/21/2022-22

Date: 1.10.2022

Dr. R. J. Jambadar  
Head (Zoology),  
Arts Commerce Science College,  
Naryangaon,  
410504.

**Subject: Invitation as a member of Board of Studies**

Greetings. Rajawade Sanshodhan Samithi's Annasaheb Awate College, Manchar, is the leading college in Ambegaon district and is committed to provide quality education to students from all the sections of society. It is a multi-faculty college with strong force of dedicated teachers. In 2017, the college is re-accredited by NAAC in third cycle with A grade. The college was adjudged as the Best College of the Savitribai Phule Pune University, Pune in 2014 in the Rural category.

Apart from core subjects, college also offers short term courses. Short Term Course in Apiculture is offered by Department of Zoology since last year. According to the guidelines, we are in a process of restructuring curricula for the same. In view of this, I have a great pleasure in inviting you as a member of Board of Studies.

Your experience, expertise and proficiency will be of great value in designing the curricula. We shall be highly obliged if you kindly accept our invitation in this respect.  
Thanking you and with kind regards,

Sincerely yours,



*(Signature)*  
Principal  
Annasaheb Awate College,  
Manchar, Dist. Pune

ESTD 1966



ANNASAHEB AWATE  
COLLEGE  
MANCHAR

"Education through self help for our Mother KARNATAK"  
Rayat Shikshan Sanstha's

**ANNASAHEB AWATE ARTS, COMMERCE &  
HUTATMA BABU GENU SCIENCE COLLEGE**  
Manchar, Tal. Ambegaon, Distt. Pune, Maharashtra - 410 503.

**ACCREDITED BY NAAC**

ID No. - PU/PN/ASC/017/1966 A.S.H.E. - C - 41221



\* FOUNDER \*  
Padmabhushan  
Dr. Karmaveer  
Bhaurao Patil

Date: 17/04/2023

To,  
Dr. R. J. Jamadar  
Head, (Zoology),  
Arts, Commerce, Science College,  
Narayangaon,  
410504.

**Subject: Appreciation Letter**

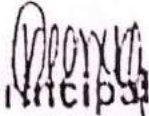
On behalf of Rayat Shikshan Sanstha's Annasaheb Awate College, Manchar, I express my sincere gratitude to you for accepting our invitation as a Member of Board of Studies (BOS) in the Short-Term Course in Apiculture. I would like to thank you for taking the time out from your busy schedule to attend the BOS meeting on 17/04/23. I really appreciate the fact that you shared your knowledge and insight about the curricula of short-term course and evaluation pattern that we plan to implement from the current academic year.

Also, I really appreciate the advice you were able to give us on implementation of our curricula in order to increase the employability of the students in the future. I assure you that the department will re-work on your recommendations.

Thanking you,



Sincerely yours,

  
Principal  
Annasaheb Awate College,  
Manchar, Dist. Pune


Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune

**DEPARTMENT OF ZOOLOGY**

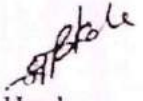
**NOTICE**

**Date : 20/04/2023**

All the students are informed that from 26/04/2023 the lectures of short term course apiculture will be held at 9.00am students should be present on time.

  
STC Co-Ordinator  
(Dept.)




  
Head  
Head  
Department Of Zoology  
Department Of Zoology  
A.A.College, Manchar



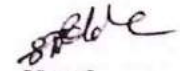
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Manchar, Tal. Ambegaon, Dist. Pune, 410503

**Department of Zoology**  
**SHORT TERM COURSE IN APICULTURE**  
**2022-23**  
**TIME - TABLE**

| Day/ Time          | Monday | Tuesday | Wednesday | Thursday  | Friday | Saturday |
|--------------------|--------|---------|-----------|-----------|--------|----------|
| 8:00AM – 9:00AM    |        |         | Practical | Practical |        |          |
| 9:00AM – 10:00AM   | Theory | Theory  | Practical | Practical |        |          |
| 10:00 AM – 11:00AM |        |         | Practical | Practical |        |          |

  
Co-ordinator, STC in Apiculture



  
Head  
Head  
Department Of Zoology  
A.A.College, Manchar



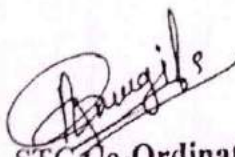
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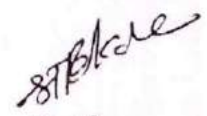
Department of Zoology

SHORT TERM COURSE IN APICULTURE  
2022-23

| Sr. No. |                    | Name of Faculty     |
|---------|--------------------|---------------------|
| 1.      | Course Coordinator | Ms. H. J. Gavit     |
| 2.      | Organizing Team    | Mr. S. T. Pokale    |
|         |                    | Dr. S. S. Patil     |
|         |                    | Ms. S. A. R. Sayyed |
|         |                    | Ms. S. V. Kale      |

  
STC Co-Ordinator  
(Dept.)



  
Head  
Head  
Department of Zoology  
A.A. College, Manchar

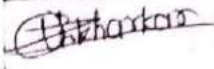
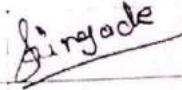
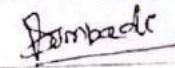
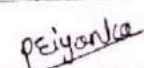

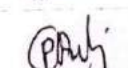
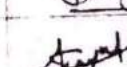
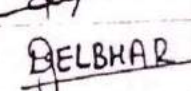
Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce and Hutatma Babu Genu  
Science College

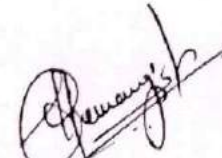
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Department of Zoology  
SHORT TERM COURSE IN APICULTURE

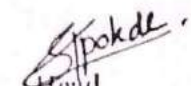
2022-23

List of Students

| Sr. No. | Roll. No. | Student ID | Name                          | Signature   |
|---------|-----------|------------|-------------------------------|---|
| 1.      | 4050      | 20226878   | Pokharkar Utkarsha Ashok      |    |
| 2.      | 4052      | 20227547   | Shelkande Shashikala Jalindar | Ab  |
| 3.      | 4053      | 20227548   | Shelkande Sonali Jalindar     | Ab  |
| 4.      | 4054      | 20227454   | Shelkande Pratik Devram       | Ab  |
| 5.      | 4055      | 20228158   | Shelke Arti Govind            | Ab  |
| 6.      | 4056      | 20228129   | Shewale Anjali Santosh        | Ab  |
| 7.      | 4059      | 20226941   | Shingade Pranita Baban        |  |
| 8.      | 4060      | 20227031   | Talekar Komal Harishchandra   | Ab  |
| 9.      | 4061      | 20226896   | Tambade Vaishnavi Suresh      |  |
| 10.     | 4063      | 20226962   | Tawhare Priyanka Sayaji       |  |
| 11.     | 4066      | 20226905   | Totre Samruddhi Ramdas        |  |
| 12.     | 4069      | 20227348   | Walunj Pranali Avinash        |  |
| 13.     | 4070      | 20227953   | Wayal Shubham Savaleram       |  |
| 14.     | 4071      | 20228221   | Yelbhar Diksha Deepak         |  |
| 15.     | 4072      | 20228221   | Yelbhar Diksha Deepak         | Ab  |

  
Course Co-ordinator



  
Head  
Head  
Department of Zoology  
A.A. College, Manchar

Rayat Shikshan Sanstha's  
**Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College**  
 Manchar, Tal. Ambegaon, Dist. Pune, 410503

**Department of Zoology**  
**SHORT TERM COURSE IN APICULTURE**  
 2022-23  
 Attendance (Theory)

| Roll. No. | Name                          | 26/04   | 27/04   | 28/04   | 29/04   | 01/05   | 2/05    | 3/05    | 4/05    | 5/05    | 6/05    | 9/05    | 11/05   | 12/05   | 14/05   | 15/05   |
|-----------|-------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 4050      | Pokharkar Utkarsha Ashok      | Present | Present | Present | Present | Present | Present | Present | Ab      | Present | Present | Present | Present | Present | Present | Present |
| 4052      | Shelkande Shashikala Jalindar |         |         |         |         |         |         |         | Ab      |         |         |         |         |         |         |         |
| 4053      | Shelkande Sonali Jalindar     |         |         |         |         |         |         |         | Ab      |         |         |         |         |         |         |         |
| 4054      | Shelkande Pratik Devram       |         |         |         |         |         |         |         | Ab      |         |         |         |         |         |         |         |
| 4055      | Shelke Arti Govind            |         |         |         |         |         |         |         | Ab      |         |         |         |         |         |         |         |
| 4056      | Shewale Anjali Santosh        |         |         |         |         |         |         |         | Ab      |         |         |         |         |         |         |         |
| 4059      | Shingade Pranita Baban        | Present | Present | Present | Present | Present | Present | Present | Present | Ab      | Present | Present | Present | Present | Present | Present |
| 4060      | Talekar Komal Harishchandra   |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 4061      | Tambade Vaishnavi Suresh      | Present | Present | Present | Al      | Present | Present | Present | Al      | Present | Present | Present | Al      | Present | Present | Present |
| 4063      | Tawhare Priyanka Sayaji       | Present | Present | Present | Present | Present | Al      | Present | Present | Present | Present | Present | Present | Present | Present | Present |



|     |      |                         |                            |                     |                    |  |                       |                     |                             |                                      |                                     |                        |                              |                     |                        |                    |                           |                    |                    |
|-----|------|-------------------------|----------------------------|---------------------|--------------------|--|-----------------------|---------------------|-----------------------------|--------------------------------------|-------------------------------------|------------------------|------------------------------|---------------------|------------------------|--------------------|---------------------------|--------------------|--------------------|
|     | 4066 | Totre Samruddhi Ramdas  | <del>Ab</del>              | <del>Ab</del>       | <del>Ab</del>      | <del>Ab</del>                            | <del>Ab</del>         | <del>Ab</del>       | <del>Ab</del>               | <del>Ab</del>                        | <del>Ab</del>                       | <del>Ab</del>          | <del>Ab</del>                | <del>Ab</del>       | <del>Ab</del>          | <del>Ab</del>      | <del>Ab</del>             | <del>Ab</del>      | <del>Ab</del>      |
| 12. | 4069 | Walunj Pranali Avinash  | <del>Ab</del>              | <del>Ab</del>       | <del>Ab</del>      | <del>Ab</del>                            | <del>Ab</del>         | <del>Ab</del>       | <del>Ab</del>               | <del>Ab</del>                        | <del>Ab</del>                       | <del>Ab</del>          | <del>Ab</del>                | <del>Ab</del>       | <del>Ab</del>          | <del>Ab</del>      | <del>Ab</del>             | <del>Ab</del>      | <del>Ab</del>      |
| 13. | 4070 | Wayal Shubham Savaleram | <del>Ab</del>              | <del>Ab</del>       | <del>Ab</del>      | <del>Ab</del>                            | <del>Ab</del>         | <del>Ab</del>       | <del>Ab</del>               | <del>Ab</del>                        | <del>Ab</del>                       | <del>Ab</del>          | <del>Ab</del>                | <del>Ab</del>       | <del>Ab</del>          | <del>Ab</del>      | <del>Ab</del>             | <del>Ab</del>      | <del>Ab</del>      |
| 14. | 4072 | Yelbhar Diksha Deepak   | <del>Ab</del>              | <del>Ab</del>       | <del>Ab</del>      | <del>Ab</del>                            | <del>Ab</del>         | <del>Ab</del>       | <del>Ab</del>               | <del>Ab</del>                        | <del>Ab</del>                       | <del>Ab</del>          | <del>Ab</del>                | <del>Ab</del>       | <del>Ab</del>          | <del>Ab</del>      | <del>Ab</del>             | <del>Ab</del>      | <del>Ab</del>      |
|     |      | Topic                   | Introduction to Apiculture | Types of Honey Bees | Bee Biology        | Honey Bee Behaviour & Bee keeping Tools. | Honey Bee Maintenance | Bee-Hive Management | Introduction to Bee product | Details of Bee product & application | Various application of Bee products | Handling of Honey bee. | Study of seasonal management | Insect, literature. | Nuisance in beekeeping | Harvesting.        | Processing of Bee product |                    |                    |
|     |      | Teacher                 | <del>Pranali</del>         | <del>Pranali</del>  | <del>Pranali</del> | <del>Pranali</del>                       | <del>Pranali</del>    | <del>Pranali</del>  | <del>Pranali</del>          | <del>Pranali</del>                   | <del>Pranali</del>                  | <del>Pranali</del>     | <del>Pranali</del>           | <del>Pranali</del>  | <del>Pranali</del>     | <del>Pranali</del> | <del>Pranali</del>        | <del>Pranali</del> | <del>Pranali</del> |

*(Signature)*  
Co-ordinator  
STC in Apiculture



*(Signature)*  
Head  
Head  
Department of Zoology  
Department of Zoology  
A.A. College, Manchar

Rajawade Sanshodhan Sanstha's  
Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College

Manchar, Tal. Ambegaon, Dist. Pune, 410503











**Department of Zoology**  
**SHORT TERM COURSE IN APICULTURE**


2022-23

Attendance (Practicals)

| Sr. No. | Roll. No. | Name                          | 11/05              | 12/05              | 15/05              | 16/05              | 17/05              | 19/05              | 22/05              | 24/05              | 25/05              | 26/05              |
|---------|-----------|-------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1       | 4050      | Pokharkar Utkarsha Ashok      | <del>Present</del> | <del>Present</del> | <del>Present</del> | <del>Present</del> | <del>Present</del> | <del>Present</del> | <del>Present</del> | <del>Present</del> | <del>Present</del> | <del>Present</del> |
| 2       | 4052      | Shelkande Shashikala Jalindar | _____              | _____              | _____              | _____              | Ab                 | _____              | _____              | _____              | _____              | _____              |
| 3       | 4053      | Shelkande Sonali Jalindar     | _____              | _____              | _____              | _____              | Ab                 | _____              | _____              | _____              | _____              | _____              |
| 4       | 4054      | Shelkande Pratik Devram       | _____              | _____              | _____              | _____              | Ab                 | _____              | _____              | _____              | _____              | _____              |
| 5       | 4055      | Shelke Arti Govind            | _____              | _____              | _____              | _____              | Ab                 | _____              | _____              | _____              | _____              | _____              |
| 6       | 4056      | Shewale Anjali Santosh        | _____              | _____              | _____              | _____              | Ab                 | _____              | _____              | _____              | _____              | _____              |
| 7       | 4059      | Shingade Pranita Baban        | Shingade           | Shingade           | Shingade           | Shingade           | Shingade           | Shingade           | Shingade           | Shingade           | Shingade           | Shingade           |
| 8       | 4060      | Talekar Komal Harishchandra   | _____              | _____              | _____              | _____              | Ab                 | _____              | _____              | _____              | _____              | _____              |
| 9       | 4061      | Tambade Vaishnavi Suresh      | Tambade            | Tambade            | Tambade            | Tambade            | Tambade            | Tambade            | Tambade            | Tambade            | Tambade            | Tambade            |
| 10      | 4063      | Tawhare Priyanka Sayaji       | Priyanka           | Priyanka           | Priyanka           | Priyanka           | Priyanka           | Priyanka           | Priyanka           | Priyanka           | Priyanka           | Priyanka           |



|         |                         |  |   |  |  |  |  |  |  |  |  |
|---------|-------------------------|--|---|--|--|--|--|--|--|--|--|
| 4066    | Totre Samruddhi Ramdas  | <del>Asst</del>  | <del>Asst</del>   | <del>Asst</del>  | <del>Asst</del>  | <del>Asst</del>  | <del>Asst</del>  | <del>Asst</del>  | <del>Asst</del>  | <del>Asst</del>  |  |
| 4069    | Walunj Pranali Avinash  | PA's   | PA's  | PA's   | PA's   | PA's   | PA's   | PA's   | PA's   | PA's   |  |
| 4070    | Wayal Shubham Savaleram | Asst   | Asst  | Asst   | Asst   | Asst   | Asst   | Asst   | Asst   | Asst   |  |
| 4072    | Yelbhar Diksha Deepak   | JELBHAR  | JELBHAR   | JELBHAR  | JELBHAR  | JELBHAR  | JELBHAR  | JELBHAR  | JELBHAR  | JELBHAR  |  |
| Topic   |                         | study of Bee Biology.  | study of Social Behaviour of Honey Bee.   | Handling of Honey Bee.   | Study of Seasonal Management   | Study of Bee keeping equipment   | Study of queen Bee   | Behavior of Honey Bee  | Study of Assesment of Honey Behaviour  | management of Bee hive   | Study of Method of rearing Bee   |
| Teacher |                         |  |  |  |  |  |  |  |  |  |  |

  
 Co-ordinator  
 STC in Apiculture



Head  
 Head  
 Head  
 Department Of Zoology  
 Department Of Zoology  
 A.A. College, Manchar  
 A.A. College, Manchar

Rayat Shikshan Sanstha's

Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune

DEPARTMENT OF ZOOLOGY

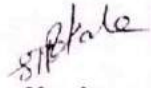
NOTICE

Date : 01/06/2023

All the students are informed that short term apiculture examination will be conducted on 06/05/2023 but all the students should be present. The students themselves will be responsible for the damages caused in case of absence.

  
STC Co-Ordinator  
(Dept.)



  
Head  
Head  
Department Of Zoology  
Department Of Zoology  
A.A. College, Manchar  
A.A. College, Manchar



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Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune

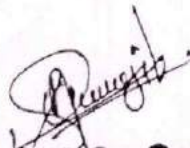
Department of Zoology

Short Term Course

Grade sheet

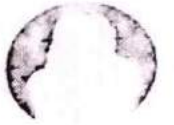
2022-23

| Sr. No. | Students name              | Marks out of 20 |
|---------|----------------------------|-----------------|
| 1.      | Tawhare Priyanka           | A+              |
| 2.      | Shingade Pranita           | A+              |
| 3.      | Walunj Pranali             | A+              |
| 4.      | Yelbhar Diksha             | A+              |
| 5.      | Totre Samruddhi            | A+              |
| 6.      | Tambade Vaishnavi Suresh   | A+              |
| 7.      | Shelke Arti Govind         | A               |
| 8.      | Wayal Shubham<br>Savaleram | A               |
| 9.      | Pokharkar Utkarsha Ashok   | A               |

  
STC Co-Ordinator



  
Head  
Department of Zoology  
A.A.C. College, Manchar

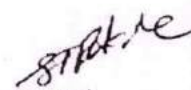


**Department of Zoology**  
**SHORT TERM COURSE IN APICULTURE**  
2022-23

| Examination Attendance |          |                               | Signature            |                      |
|------------------------|----------|-------------------------------|----------------------|----------------------|
| Sr. No.                | Roll No. | Student Name                  |                      |                      |
| 1.                     | 4050     | Pokharkar Utkarsha Ashok      | <del>Pokharkar</del> | <del>Pokharkar</del> |
| 2.                     | 4052     | Shelkande Shashikala Jalindar | — Ab —               |                      |
| 3.                     | 4053     | Shelkande Sonali Jalindar     | — Ab —               |                      |
| 4.                     | 4054     | Shelkande Pratik Devram       | — Ab —               |                      |
| 5.                     | 4055     | Shelke Arti Govind            | — Ab —               |                      |
| 6.                     | 4056     | Shewale Anjali Santosh        | — Ab —               |                      |
| 7.                     | 4059     | Shingade Pranita Baban        | <u>Shingade</u>      | <u>Shingade</u>      |
| 8.                     | 4060     | Talekar Komal Harishchandra   | — Ab —               |                      |
| 9.                     | 4061     | Tambade Vaishnavi Suresh      | <del>Tambade</del>   | <del>Tambade</del>   |
| 10.                    | 4063     | Tawhare Priyanka Sayaji       | <u>Priyanka</u>      | <u>Priyanka</u>      |
| 11.                    | 4066     | Totre Samruddhi Ramdas        | <del>Totre</del>     | <del>Totre</del>     |
| 12.                    | 4069     | Walunj Pranali Avinash        | <u>Walunj</u>        | <u>Walunj</u>        |
| 13.                    | 4070     | Wayal Shubham Savaleram       | <u>Wayal</u>         | <u>Wayal</u>         |
| 14.                    | 4071     | Yelbhar Diksha Deepak         | <u>YELBHAR</u>       | <u>YELBHAR</u>       |

  
Course Co-ordinator

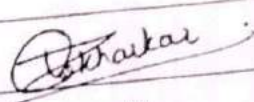
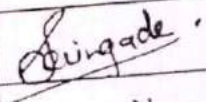
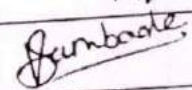
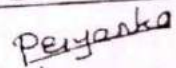
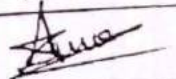
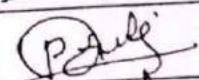
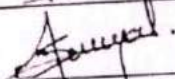
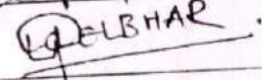


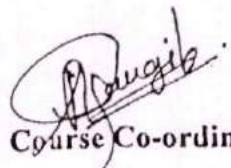
  
Head  
Department of Zoology  
A.A. College, Manchar

Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce and Hutatma Babu Genu  
Science College

Manchar, Tal. Ambegaon, Dist. Pune, 410503

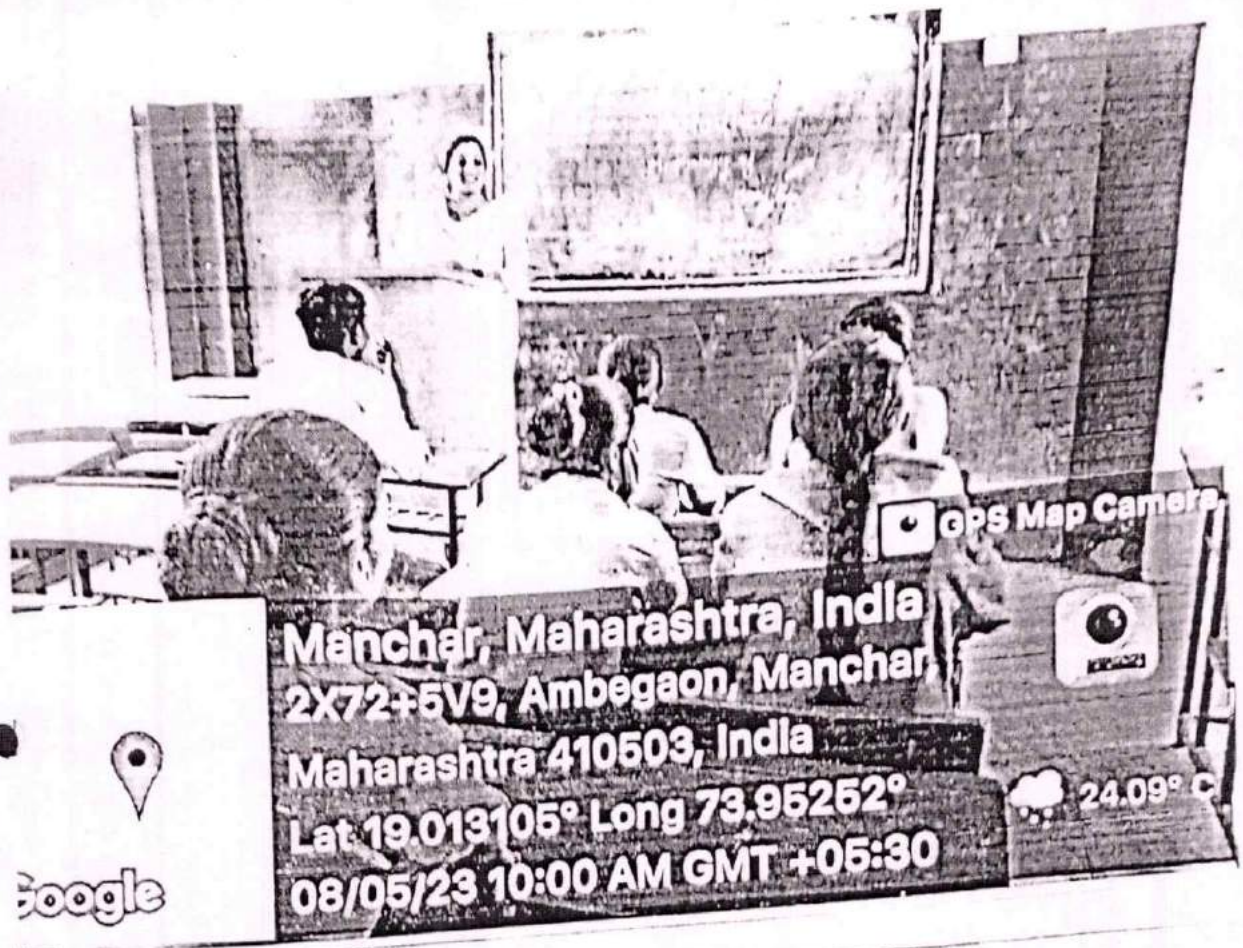
Department of Zoology  
SHORT TERM COURSE IN APICULTURE  
2022-23  
Certificate Distribution List

| Sr. No. | Roll. No. | Student ID | Name                          | Signature   |
|---------|-----------|------------|-------------------------------|---|
| 1.      | 4050      | 20226878   | Pokharkar Utkarsha Ashok      |    |
| 2.      | 4052      | 20227547   | Shelkande Shashikala Jalindar | Ab  |
| 3.      | 4053      | 20227548   | Shelkande Sonali Jalindar     | Ab  |
| 4.      | 4054      | 20227454   | Shelkande Pratik Devram       | Ab  |
| 5.      | 4055      | 20228158   | Shelke Arti Govind            | Ab  |
| 6.      | 4056      | 20228129   | Shewale Anjali Santosh        | Ab  |
| 7.      | 4059      | 20226941   | Shingade Pranita Baban        |  |
| 8.      | 4060      | 20227031   | Talekar Komal Harishchandra   | Ab  |
| 9.      | 4061      | 20226896   | Tambade Vaishnavi Suresh      |  |
| 10.     | 4063      | 20226962   | Tawhare Priyanka Sayaji       |  |
| 11.     | 4066      | 20226905   | Totre Samruddhi Ramdas        |  |
| 12.     | 4069      | 20227348   | Walunj Pranali Avinash        |  |
| 13.     | 4070      | 20227953   | Wayal Shubham Savaleram       |  |
| 14.     | 4071      | 20228221   | Yelbhar Diksha Deepak         |  |
| 15.     | 4072      | 20228221   | Yelbhar Diksha Deepak         | Ab  |

  
Course Co-ordinator



  
Head of Department  
Department of Zoology  
A.A. College, Manchar

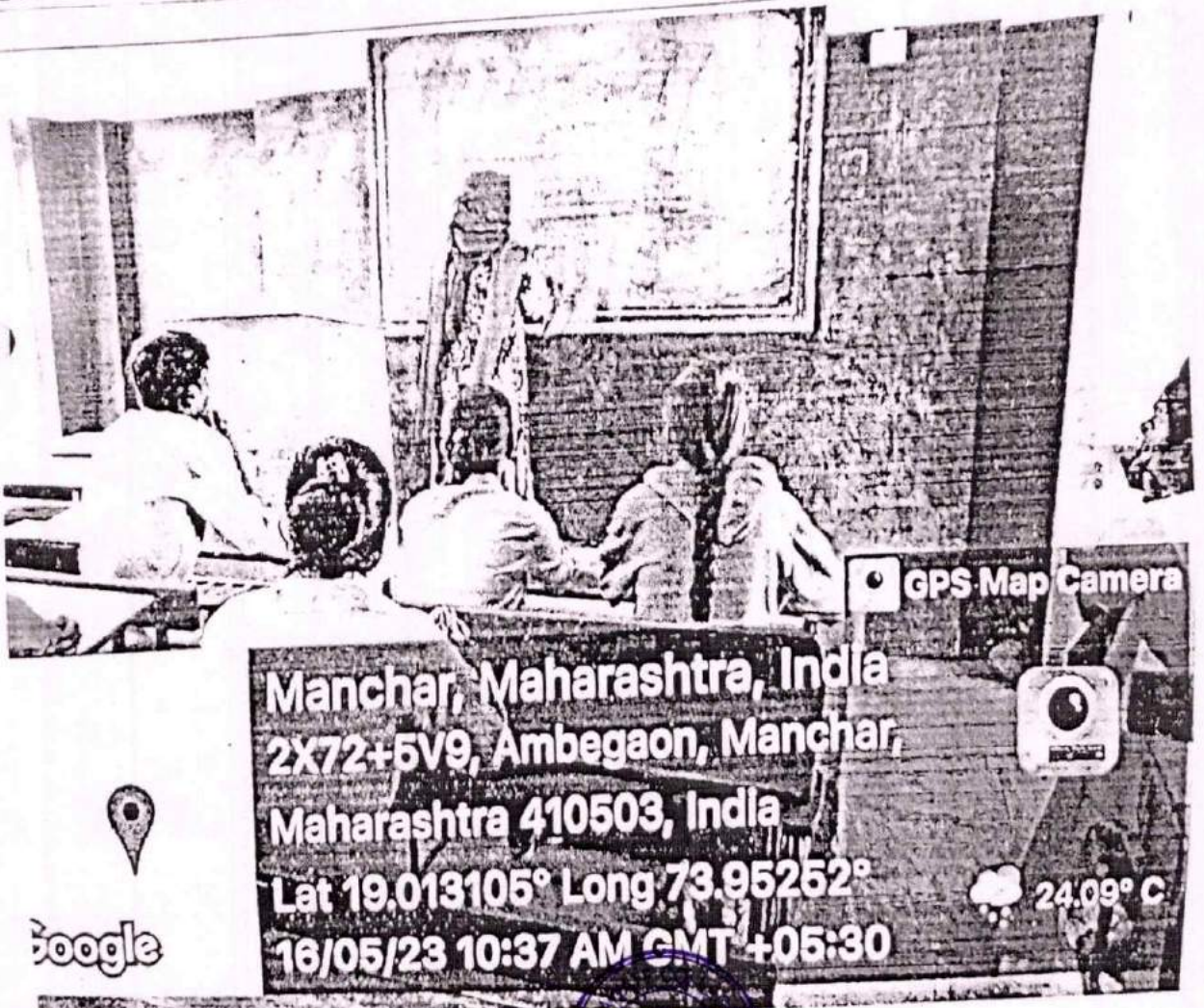


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2X72+5V9, Ambegaon, Manchar,  
Maharashtra 410503, India  
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08/05/23 10:00 AM GMT +05:30

GPS Map Camera



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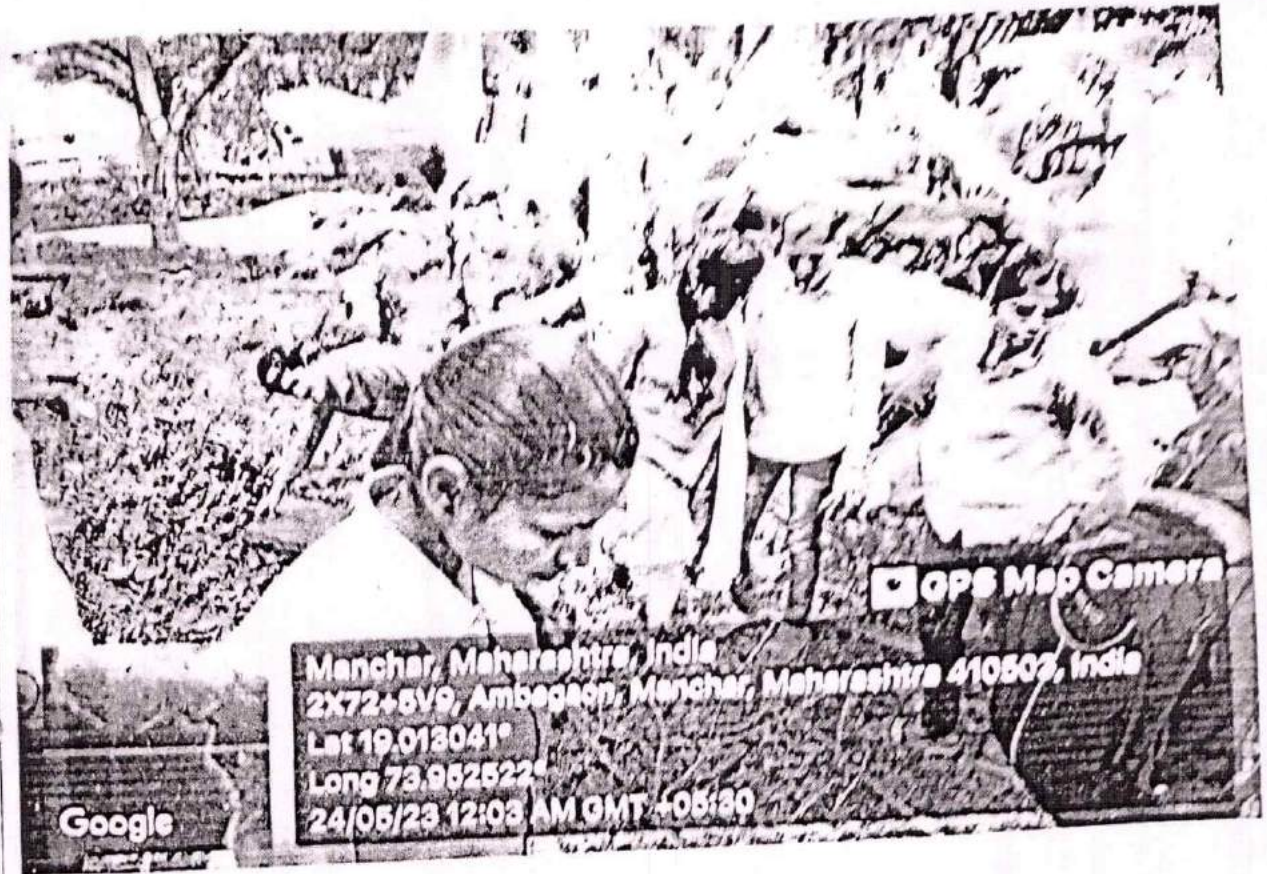
Manchar, Maharashtra, India  
2X72+5V9, Ambegaon, Manchar,  
Maharashtra 410503, India  
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16/05/23 10:37 AM GMT +05:30

GPS Map Camera



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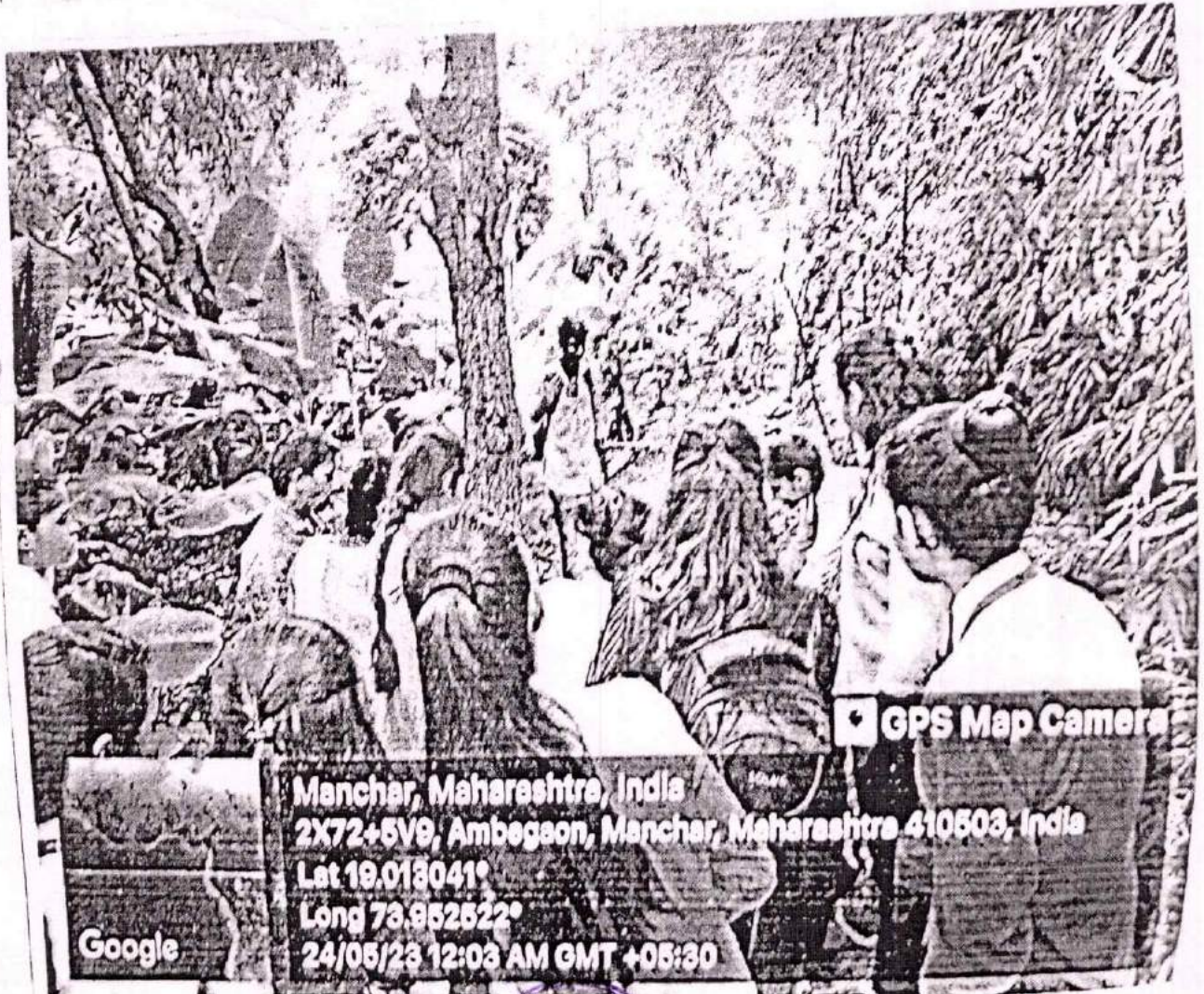




Google

GPS Map Camera

Manchar, Maharashtra, India  
2X72+5V9, Ambegaon, Manchar, Maharashtra 410503, India  
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24/05/23 12:03 AM GMT +05:30



Google

GPS Map Camera


Manchar, Maharashtra, India  
2X72+5V9, Ambegaon, Manchar, Maharashtra 410503, India  
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Long 73.952522°  
24/05/23 12:03 AM GMT +05:30




**Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science  
College, Manchar, Tal. Ambegaon, Dist. Pune  
Department of Botany  
Certificate Course in Organic Farming  
Report 2022-2023**

Date 29/04/2023

Department of Botany has organized Certificate Course in Organic Farming in the academic year 2022-23. Lectures has been started from 05/01/2023. There are 16 students from F. Y. B. Sc. enrolled in this course. The course has been taken by Prof. Dr. S. N. Bolbhat, Mr. V. S. Kumawat, Dr. N. B. Admuthe, Mr. P.D. Naik, Mr. A. K. Bhor and Ms. S. V. Barve. Students were benefited with that course. Student's learned Principles of organic farming, benefits and scope of organic farming, chemical farming vs organic farming, crop rotation, composting and manuring, bio-fertilizers, bio-pesticides, bio-control agents, economics and marketing of organic produce. Students were benefited with that course.

  
Course Co-ordinator


  
**Department of Botany**  
Annasaheb Awate Arts, Commerce and Hutatma Babu Genu  
Science College, Manchar, Tal. Ambegaon, Dist. Pune

  
**Principal**  
Annasaheb Awate Arts, Commerce &  
Hutatma Babu Genu Science College,  
Manchar, Tal. Ambegaon, Dist. Pune

**Rayat Shikshan Sanstha's**  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science**  
**College, Manchar, Tal. Ambegaon, Dist. Pune PIN 410503**  
**Department of Botany**  
**Certificate Course in Organic Farming**  
**Class- F. Y. B. Sc. Students List 2022-2023**

| S<br>N | Roll.<br>No. | Name of the student            | M/<br>F | Catego<br>ry | Mobile No. |
|--------|--------------|--------------------------------|---------|--------------|------------|
| 1      | 4027         | INAMDAR AQSA SAMIR             | F       | OBC          | 8421598357 |
| 2      | 4028         | KALEKAR SHREYA SANTOSH         | F       | OBC          | 9892278072 |
| 3      | 4029         | KANADE AKSHADA PRABHAKAR       | F       | OBC          | 8421657235 |
| 4      | 4031         | KAROTE ANKUSH KASHINATH        | M       | ST           | 8263078981 |
| 5      | 4033         | KONDHAWALE RAJLAXMI RAMCHANDRA | F       | ST           | 9699287716 |
| 6      | 4034         | LANGOTE ANUSHKA KALURAM        | F       | OBC          | 9172997069 |
| 7      | 4038         | MANDALE SUJATA MACHINDRA       | F       | OPEN         | 9028711642 |
| 8      | 4039         | MATE MAHESH KESHAV             | M       | ST           | 7499875665 |
| 9      | 4040         | MENGADE SHILPA BHAUSAHEB       | F       | OPEN         | 8208829230 |
| 10     | 4041         | MULANI NIHAL JAVID             | M       | OBC          | 7758007650 |
| 11     | 4042         | NIGHOT APURVA ARUN             | F       | OPEN         | 8080540578 |
| 12     | 4044         | NIGHOT PRASHANT DINKAR         | M       | OPEN         | 7758820347 |
| 13     | 4045         | NIGHOT SHARAU DASHARATH        | F       | OPEN         | 8010687514 |
| 14     | 4047         | PAWALE GAURI GULAB             | F       | OPEN         | 7843020523 |
| 15     | 4048         | POKHARKAR SAKSHI RAJU          | F       | OPEN         | 7972509496 |
| 16     | 4046         | Pathan Arshiya Riyajkhan       | F       | OPEN         | 8446755426 |

  
Course Co-ordinator

  
Head  
Department of Botany  
Annasaheb Awate Arts, Commerce and Hutatma Babu Genu  
Science College, Manchar, Tal. Ambegaon, Dist. Pune

  
Principal  
Annasaheb Awate Arts, Commerce &  
Hutatma Babu Genu Science College,  
Manchar, Tal. Ambegaon, Dist. Pune ;

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Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar, Tal. Ambegaon, Dist. Pune

Department of Botany  
Certificate Course in Organic Farming  
Attendance 2022-2023

Theory/ Practical:

| S  | Roll No. | Name of the student             | 5/1/23 | 7/1/23 | 12/1/23 | 14/1/23 | 19/1/23 | 23/1/23 | 28/1/23 | 2/2/23 | 4/2/23 | 9/2/23 | 11/2/23 |
|----|----------|---------------------------------|--------|--------|---------|---------|---------|---------|---------|--------|--------|--------|---------|
| 1  | 4027     | INAMDAR AQSA SAMIR              | A      | A      | A       | A       | A       | A       | A       | A      | A      | A      | A       |
| 2  | 4028     | KALEKAR SHREYA SANTOSH          | A      | A      | A       | A       | A       | A       | A       | A      | A      | A      | A       |
| 3  | 4029     | KANADE AKSHADA PRABHAKAR        | P      | P      | P       | P       | P       | P       | P       | P      | P      | P      | P       |
| 4  | 4031     | KAROTE ANKUSH KASHINATH         | P      | P      | P       | P       | P       | P       | P       | P      | P      | P      | P       |
| 5  | 4033     | KONDIHAWALE RAJLAXMI RAMCHANDRA | P      | P      | P       | P       | P       | P       | P       | P      | P      | P      | P       |
| 6  | 4034     | LANGOTE ANUSHKA KALURAM         | P      | P      | P       | P       | P       | P       | P       | P      | P      | P      | P       |
| 7  | 4038     | MANDALE SUJATA MACHINDRA        | P      | P      | P       | P       | P       | P       | P       | P      | P      | P      | P       |
| 8  | 4039     | MATE MAHESH KESHAV              | A      | A      | A       | A       | A       | A       | A       | A      | A      | A      | A       |
| 9  | 4040     | MENGADE SHILPA BHAUSAHEB        | A      | A      | A       | A       | A       | A       | A       | A      | A      | A      | A       |
| 10 | 4041     | MULANI NIHAL JAVID              | P      | P      | P       | P       | P       | P       | P       | P      | P      | P      | P       |
| 11 | 4042     | NIGHT APURVA ARUN               | P      | P      | P       | P       | P       | P       | P       | P      | P      | P      | P       |
| 12 | 4044     | NIGHT PRASHANT DINKAR           | A      | A      | A       | A       | A       | A       | A       | A      | A      | A      | A       |
| 13 | 4045     | NIGHT SHARAU DASHARATH          | P      | P      | P       | P       | P       | P       | P       | P      | P      | P      | P       |
| 14 | 4047     | PAWALE GAURI GULAB              | P      | P      | P       | P       | P       | P       | P       | P      | P      | P      | P       |
| 15 | 4048     | POKHARKAR SAKSHI RAJU           | P      | P      | P       | P       | P       | P       | P       | P      | P      | P      | P       |
| 16 | 4046     | Pathan Arshiya Riyanjhan        | P      | P      | P       | P       | P       | P       | P       | P      | P      | P      | P       |

Course Co-ordinator

*Head*  
Head  
Department of Botany  
Annasaheb Awate Arts, Commerce and Hutatma Babu Genu  
Science College, Manchar, Tal. Ambegaon, Dist. Pune



Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar, Tal. Ambegaon, Dist. Pune

Department of Botany  
Certificate Course in Organic Farming  
Attendance 2022-2023

Theory/ Practical:

| S<br>N | Roll.<br>No. | Name of the student            | 16/2/23 | 18/2/23 | 23/2/23 | 25/2/23 | 11/3/23 |  |  |  |  |  |  |
|--------|--------------|--------------------------------|---------|---------|---------|---------|---------|--|--|--|--|--|--|
| 1      | 4027         | INAMDAR AQSA SAMIR             | A       | A       | A       | A       | A       |  |  |  |  |  |  |
| 2      | 4028         | KALEKAR SHREYA SANTOSHI        | A       | A       | A       | A       | A       |  |  |  |  |  |  |
| 3      | 4029         | KANADE AKSHADA PRABHAKAR       | P       | P       | P       | P       | P       |  |  |  |  |  |  |
| 4      | 4031         | KAROTE ANKUSH KASHINATHI       | P       | P       | P       | P       | P       |  |  |  |  |  |  |
| 5      | 4033         | KONDHAWALE RAJLAXMI RAMCHANDRA | P       | P       | P       | P       | P       |  |  |  |  |  |  |
| 6      | 4034         | LANGOTE ANUSHKA KALURAM        | P       | P       | P       | P       | P       |  |  |  |  |  |  |
| 7      | 4038         | MANDALE SUJATA MACHINDRA       | P       | P       | P       | P       | P       |  |  |  |  |  |  |
| 8      | 4039         | MATE MAHESH KESHAV             | A       | A       | A       | A       | A       |  |  |  |  |  |  |
| 9      | 4040         | MENGADE SHILPA BHAUSAHEB       | A       | A       | A       | A       | A       |  |  |  |  |  |  |
| 10     | 4041         | MULANI NIHAL JAVID             | P       | P       | P       | P       | P       |  |  |  |  |  |  |
| 11     | 4042         | NIGHOT APURVA ARUN             | P       | P       | P       | P       | P       |  |  |  |  |  |  |
| 12     | 4044         | NIGHOT PRASHANT DINKAR         | A       | A       | A       | A       | A       |  |  |  |  |  |  |
| 13     | 4045         | NIGHOT SHARAU DASHARATHI       | P       | P       | P       | P       | P       |  |  |  |  |  |  |
| 14     | 4047         | PAWALE GAURI GULAB             | P       | P       | P       | P       | P       |  |  |  |  |  |  |
| 15     | 4048         | POKHARKAR SAKSHI RAJU          | P       | P       | P       | P       | P       |  |  |  |  |  |  |
| 16     | 4046         | Pathan Arshiya Riyaj Khan      | P       | P       | P       | P       | P       |  |  |  |  |  |  |

*U. B. Mulk*  
Course Co-ordinator

*Arshia*  
Head  
Department of Botany  
Annasaheb Awate Arts, Commerce and Hutatma Babu Genu  
Science College, Manchar, Tal. Ambegaon, Dist. Pune

Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar, Tal. Ambegaon, Dist. Pune  
Department of Botany  
Certificate Course in Organic Farming  
Attendance 2022-2023

Theory/ Practical:

| S<br>N | Roll.<br>No. | Name of the student            | 19/1/23 | 21/1/23 | 28/1/23 | 11/2/23 | 16/2/23 | 18/2/23 | 22/2/23 |  |  |  |  |
|--------|--------------|--------------------------------|---------|---------|---------|---------|---------|---------|---------|--|--|--|--|
| 1      | 4027         | INAMDAR AQSA SAMIR             | A       | A       | A       | A       | A       | A       | A       |  |  |  |  |
| 2      | 4028         | KALEKAR SHREYA SANTOSH         | A       | A       | A       | A       | A       | A       | A       |  |  |  |  |
| 3      | 4029         | KANADE AKSHADA PRABHAKAR       | P       | P       | P       | P       | P       | P       | P       |  |  |  |  |
| 4      | 4031         | KAROTE ANKUSH KASHINATH        | P       | P       | P       | P       | P       | P       | P       |  |  |  |  |
| 5      | 4033         | KONDHAWALE RAJLAXMI RAMCHANDRA | P       | P       | P       | P       | P       | P       | P       |  |  |  |  |
| 6      | 4034         | LANGOTE ANUSHKA KALURAM        | P       | P       | P       | P       | P       | P       | P       |  |  |  |  |
| 7      | 4038         | MANDALE SUJATA MACHINDRA       | P       | P       | P       | P       | P       | P       | P       |  |  |  |  |
| 8      | 4039         | MATE MAHESH KESHAV             | A       | A       | A       | A       | A       | A       | A       |  |  |  |  |
| 9      | 4040         | MENGADE SHILPA BHUSAHEB        | A       | A       | A       | A       | A       | A       | A       |  |  |  |  |
| 10     | 4041         | MULANI NIHAL JAVID             | P       | P       | P       | P       | P       | P       | P       |  |  |  |  |
| 11     | 4042         | NIGHOT APURVA ARUN             | P       | P       | P       | P       | P       | P       | P       |  |  |  |  |
| 12     | 4044         | NIGHOT PRASHANT DINKAR         | A       | A       | A       | A       | A       | A       | A       |  |  |  |  |
| 13     | 4045         | NIGHOT SHARAU DASHARATH        | P       | P       | P       | P       | P       | P       | P       |  |  |  |  |
| 14     | 4047         | PAWALE GAURI GULAB             | P       | P       | P       | P       | P       | P       | P       |  |  |  |  |
| 15     | 4048         | POKHARKAR SAKSHI RAJU          | P       | P       | P       | P       | P       | P       | P       |  |  |  |  |
| 16     | 4046         | Pathan Arshiya Riyajkhan       | P       | P       | P       | P       | P       | P       | P       |  |  |  |  |

*U. Beharwalke*

Course Co-ordinator

*U. Beharwalke*  
Head

**Department of Botany**  
Annasaheb Awate Arts, Commerce and Hutatma Babu Genu  
Science College, Manchar, Tal. Ambegaon, Dist. Pune

**Rayat Shikshan Sanstha's**  
**Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science**  
**College, Manchar, Tal. Ambegaon, Dist. Pune PIN 410503.**  
**Department of Botany**  
**Certificate Course in Organic Farming**  
**Class- F. Y. B. Sc. 2022-2023**

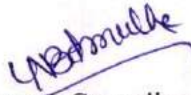
**NOTICE**


Date- 05/11/2022


Students of F. Y. B. Sc. Botany are here by informed that Department of Botany will arrange "**Certificate Course in Organic Farming.**" The student to participate in this course please contact to Dr. N. B. Admuthe Department of Botany.

**Note:**

- |                         |   |
|-------------------------|---|
| 1] Class                | : F. Y. B.Sc.   |
| 2] Duration of course   | : 3 Months  |
| 3] Time                 | : Theory- Thursday<br>10.20 am to 1.20 pm<br>: Practical- Saturday<br>10.20 am to 1.20 pm |
| 4] Medium               | : English/ Marathi  |
| 5] Practical's based on | : Organic Farming.  |

  
Course Co-ordinator

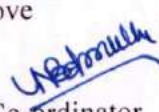
  
**Head**  
**Department of Botany**  
Annasaheb Awate Arts, Commerce and Hutatma Babu Genu  
Science College, Manchar, Tal. Ambegaon, Dist. Pune

  
**Principal**  
Annasaheb Awate Arts, Commerce &  
Hutatma Babu Genu Science College,  
Manchar, Tal. Ambegaon, Dist. Pune

Rayat Shikshan Sanstha's  
**Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science  
College, Manchar, Tal. Ambegaon, Dist. Pune-410503.**  
**Department of Botany**  
**Certificate Course in Organic Farming**  
**Result with Marks and Grades 2022-2023**


| S N | Roll. No. | Name of the student            | Theory 50 | Practical 50 | Total 100 | Grade  |
|-----|-----------|--------------------------------|-----------|--------------|-----------|--------|
| 1   | 4027      | INAMDAR AQSA SAMIR             | Absent    | Absent       | Absent    | Absent |
| 2   | 4028      | KALEKAR SHREYA SANTOSH         | Absent    | Absent       | Absent    | Absent |
| 3   | 4029      | KANADE AKSHADA PRABHAKAR       | 40        | 42           | 82        | A      |
| 4   | 4031      | KAROTE ANKUSH KASHINATH        | 38        | 42           | 80        | A      |
| 5   | 4033      | KONDHAWALE RAJLAXMI RAMCHANDRA | 36        | 44           | 80        | A      |
| 6   | 4034      | LANGOTE ANUSHKA KALURAM        | 42        | 40           | 82        | A      |
| 7   | 4038      | MANDALE SUJATA MACHINDRA       | 38        | 50           | 88        | A      |
| 8   | 4039      | MATE MAHESH KESHAV             | Absent    | Absent       | Absent    | Absent |
| 9   | 4040      | MENGADE SHILPA BHAUSAHEB       | Absent    | Absent       | Absent    | Absent |
| 10  | 4041      | MULANI NIHAL JAVID             | 40        | 42           | 82        | A      |
| 11  | 4042      | NIGHOT APURVA ARUN             | 38        | 40           | 78        | A      |
| 12  | 4044      | NIGHOT PRASHANT DINKAR         | Absent    | Absent       | Absent    | Absent |
| 13  | 4045      | NIGHOT SHARAU DASHARATH        | 36        | 38           | 74        | A      |
| 14  | 4047      | PAWALE GAURI GULAB             | 40        | 50           | 90        | A      |
| 15  | 4048      | POKHARKAR SAKSHI RAJU          | 36        | 40           | 76        | A      |
| 16  | 4046      | PATHAN ARSHIYA RIYAJKHAN       | 50        | 30           | 80        | A      |

|             |       |
|-------------|-------|
| Marks       | Grade |
| 00 to 39    | D     |
| 40 to 49    | C     |
| 50 to 59    | B     |
| 60 to above | A     |

  
Course Co-ordinator

  
Head

Department of Botany  
Annasaheb Awate Arts, Commerce and Hutatma Babu Genu  
Science College, Manchar, Tal. Ambegaon, Dist. Pune

  
Principal  
Annasaheb Awate Arts, Commerce &  
Hutatma Babu Genu Science College,  
Manchar, Tal. Ambegaon, Dist. Pune

Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College  
Manchar, Pune

Department of Electronic Science  
Certificate Course in Artificial Intelligence 2022-23

**CONTENTS**

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| 4      | Course Syllabus<br>➤ BOS Documents- Letters       |         |
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Rayat Shikshan Sanstha's  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College**  
**Manchar, Pune**

**Department of Electronic Science**

**Short-Term Course Artificial Intelligence Report 2022-23**

|  |
|--|
| <b>Course Name:</b> Artificial Intelligence  |
| <b>No of Beneficiaries:</b> 16   |
| <b>Name of Coordinator:</b> Ms. Afroj M Dange  |
| <b>Name of Teacher In charge:</b> Ms. Jayashree B Khilari  |
| <b>Objective:</b> To prepare students for innovation in the area of Artificial Intelligence, in two ways: firstly, the creation of innovative techniques and methods within the research area of Artificial Intelligence and, secondly, the application of these techniques and methods relative to social and business reality as well as creating processes and innovative computer solutions. |

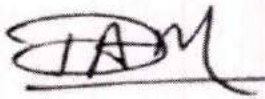
The Department of Electronic Science has organized Short Term Course on “**Artificial Intelligence**” in the academic year 2022-23. The lecture has been started on 2<sup>nd</sup> February 2023 via online mode. There are 16 students enrolled in this course. The course has been taken by **Ms. Jayashree B Khilari, Department of Electronic Science**, under the guidance of the and Afroj M Dange.

The lectures were conducted offline mode. At the end of the lecture, feedback was also taken. The examination was also conducted on the date 3<sup>rd</sup> May 2023.

Students benefited from that course. The primary objective of this program is to enhance the skills of students in advanced domains of Information Technology keeping pace with the IT industry. The students may be exposed to the needs of the IT industry so that they can in turn nurture, educate and mould their career while they are still in college.

**Outcomes:** Students have gained extensive details of subject knowledge along with practical knowledge. Case studies and practical examples enrich concepts on that topic and that will help to make projects.

**Enclosed: 1] Photos of Short-term Course**  
**2] BOS Meeting Report**



**Ms. Afroj M Dange**  
Course Coordinator



**Head**  
Dept. of Electronic Science  
A. A. College, Manchar

# Certificate Course in Artificial Intelligence

Class: FYBSc

|                         |   |
|-------------------------|---|
| Co-ordinated by         | Department of Electronic Science  |
| Co-ordinator            | Ms. A M Dange   |
| Faculty                 | Mr. S A Belage<br>Ms. J B Khilari   |
| Batch Capacity          | 16  |
| No of Students Admitted | 16  |
| Duration of the Course  | 3 Months  |
| Scope of the Course     | <ul style="list-style-type: none"><li>• To learn various types of algorithms useful in Artificial Intelligence (AI).</li><li>• To convey the ideas in AI research related to emerging technology.</li><li>• To introduce ideas and techniques underlying the design of intelligent computer systems</li></ul> |



Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College  
Manchar, Pune

Department of Electronic Science

Short Term Course 2022-23

### BOS Meeting Report

BOS meeting for short term course on Artificial Intelligence held on 17<sup>th</sup> November 2022 at 11.30 a.m. that are carried out through online mode.

The following persons were present in the meeting:

- 1] Mr. Belage S A, Chairman, DOES, AA College Manchar
- 2] Ms. Shivarkar S Y, Outside Expert (Attended Online)
- 3] Mrs. Patil S S, Outside Expert (Attended Online)
- 4] Ms. Dange A M, Member
- 5] Ms. Khilari J B, Member

At the onset, the Chairman welcomed the members to the in the meeting of BOS and placed the agenda for the deliberations of the members. The following deliberations were made as per the items of the circulated agenda:

1. Finalization of Syllabus for Short term course for FYBSc
2. Total number of credits and marks distribution for the course
3. Any other, with approval of the Chair

The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the curriculum and syllabi.

The members approved the curricula for consideration of Faculty of Electronics. The matter regarding the implementation of this course for academic year 2022-23 was also discussed and it was decided that the new scheme can be implemented for FYBSc students for 3 credits on Artificial Intelligence.

Ms. Dange A M thanked all the members for their kind cooperation and meeting came to end up.



*Belage S A*  
Head

Dept. of Electronic Science  
A. A. College, Manchar



Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma  
Babu Genu Science College Manchar, Pune

## Syllabus

For  
Short Term Course on Artificial Intelligence  
in  
Electronic Science

Prepared by

Board of Studies in Electronic Science

### Members

- 1) **Miss. Sonali Shivarkar**  
HOD, & Assistant Professor  
S M Joshi College, Hadapsar 28
- 2) **Mrs. S S Patil**  
Assistant Professor,  
BJS ASC College, Wagholi Pune
- 3) **Mr. S.A Belage**  
HOD & Associate Professor,  
AAC Manchar
- 4) **Miss. A.M. Dange**  
Assistant Professor,  
AAC Manchar
- 5) **Miss. J. B. Khilari**  
Assistant Professor,  
AAC Manchar

DES, AAC MANCHAR



*Belage*

Head

Dept. of Electronic Science  
A. A. College, Manchar

Short Term Course 2022-23

Artificial Intelligence

Class- F.Y.B.Sc.

Credit: 3

Artificial Intelligence

Total Lectures: 45

Course Objectives:

- To learn various types of algorithms useful in Artificial Intelligence (AI).
- To convey the ideas in AI research related to emerging technology.
- To introduce ideas and techniques underlying the design of intelligent computer systems

Course Outcomes:

After successful completion of this course, learner will be able to:

- Apply the suitable algorithms to solve AI problems
- Identify and apply suitable Intelligent agents for various AI applications
- Build smart system using different informed search / uninformed search or heuristic approaches
- Represent complex problems with expressive language of representation

| Course Contents |  |              |
|-----------------|--|--------------|
| <b>Unit I</b>   | <b>Introduction to Artificial Intelligence</b>   | <b>5Hrs</b>  |
|                 | 1.1 Introduction to AI<br>1.2 Comparison of AI, Machine Learning, Deep Learning<br>1.3 Applications of AI<br>1.4 AI Techniques<br>1.5 Intelligent Agents, Agents and Environments, Structure of Agents   |              |
| <b>Unit II</b>  | <b>Problems, Problem Spaces and search</b>   | <b>5 Hrs</b> |
|                 | 2.1 Defining problem as a State Space Search<br>2.2 Production System<br>2.3 Problem Characteristics<br>2.4 Search & Control Strategies<br>2.5 Problems – Water Jug problem, Missionary Cannibal Problem, Block words Problem, Monkey & Banana problem |              |
| <b>Unit III</b> | <b>Searching Algorithms</b>  | <b>6 Hrs</b> |
|                 | 3.1 Uninformed Search Algorithms/Blind Search Techniques<br>3.1.1 Breadth-first Search<br>3.1.2 Depth-first Search<br>3.2 Informed (Heuristic) search Techniques<br>3.2.1 Generate-and-test<br>3.2.2 Simple Hill Climbing                              |              |



|  |  |              |
|--|--|--------------|
|  | 3.2.3 Best First Search<br>3.2.4 Constraint Satisfaction<br>3.2.5 Means End Analysis<br>3.2.6 A* and AO*   |              |
| <b>Unit IV</b>   | <b>Knowledge Representation</b>  | <b>7 Hrs</b> |
|  | 4.1 Definition of Knowledge<br>4.2 Types of knowledge (Procedural and Declarative knowledge)<br>4.3 Approaches to Knowledge Representation<br>4.4 Knowledge representation using Propositional and Predicate logic<br>4.5 Conversion to clause form<br>4.6 Resolution in Propositional logic<br>4.7 Resolution in Predicate logic  |              |
| <b>Unit V</b>  | <b>Slot and Filler Structures</b>  | <b>4 Hrs</b> |
|  | 5.1 Weak structures (Semantic networks and Frame)<br>5.2 Strong structures (Conceptual dependencies and Script)  |              |
| <b>Unit VI</b>   | <b>Recent Trends in AI and Applications</b>  | <b>4 Hrs</b> |
|  | 6.1 Introduction to Machine Learning,<br>6.2 Types of Learning, (Supervised, Unsupervised and Reinforcement Learning),<br>6.3 Predictive Analytics (Weather Forecasting)<br>6.4 AI-Powered Chat bots (SBI card chat boot (ILA))  |              |
| <b>Practical's</b>   |  | <b>14 H</b>  |
|  | Use of Chebesiv Distance Measurement Route<br>Use of Array<br>Use of operating point, entry point, exist point, Operator<br>Program Water Jug problem, Missionary Cannibal Problem, Block words Problem, Monkey & Banana problem<br>Program for Weak structures (Semantic networks and Frame)<br>Strong structures (Conceptual dependencies and Script)<br>Write a program of Predictive Analytics (Weather Forecasting)<br>AI-Powered Chat bots (SBI card chat boot (ILA))<br>Use of AI |              |
| <b>Reference Books:</b><br>1) Artificial Intelligence- A Modern Approach (3rd edition)<br>2) Artificial Intelligence By Example-2nd edition<br>3) Artificial Intelligence Engines: A Tutorial Introduction to the Mathematics of Deep Learning<br>4) Artificial Intelligence and Machine Learning 1st Edition<br>5) A First Course in Artificial Intelligence<br>6) Artificial Intelligence: A Modern Approach , Russel & Norving Pearson Education<br><b>E-Reference:</b><br>1) <a href="https://www.oracle.com/in/chatbots/what-is-a-chatbot/">https://www.oracle.com/in/chatbots/what-is-a-chatbot/</a><br>2) <a href="https://www.dataversity.net/case-study-predictive-analytics-and-science-keep-an-eye-on-the-weather/">https://www.dataversity.net/case-study-predictive-analytics-and-science-keep-an-eye-on-the-weather/</a> |  |              |



Estd. 1966



\* PRINCIPAL \*  
Dr. Kanade K. G.  
M.Sc., M.Phil., Ph.D.

"Education through self help is our Motto." KARMAVEER  
Rayat Shikshan Sanstha's

**ANNASAHEB AWATE ARTS, COMMERCE &  
HUTATMA BABU GENU SCIENCE COLLEGE**  
Manchar, Tal. Ambegaon, Distt. Pune, Maharashtra - 410 503.

**ACCREDITED 'A' BY NAAC**

ID. No. - PU/PN/ASC/017/1966 A.I.S.H.E. - C - 41221



\* FOUNDER \*  
Padmabhushan  
Dr. Karmaveer  
Bhaurao Patil, D. Litt.

Ref. No. 702/2021-22

Date: 12/11/21

To,  
Ms. S. Y. Shivarkar,  
Assistant Professor,  
S M Joshi College, Hadapsar  
Pune 411028

**Subject: Invitation as a member of Board of Studies in the subject of short term  
course in Artificial Intelligence.**

Respected Madam,

With reference to the subject mention above, we are happy to inform you that the department of Electronic Science of our college is going to start Short Term course in "Artificial Intelligence." The duration of course is one months. We cordially invite you as BOS member to design the syllabus for the course the meeting regarding the syllabus formation will be held on 13<sup>th</sup> November 2021 at 11.30a.m. We here by humbly request you spare the time at attend the meeting we also look forward to the positive response and co-operation from you.

Thanking you and with kind regards.

Yours Sincerely,



*[Signature]*  
Principal

Annasaheb Awate College,  
Manchar, Distt. Pune

Phone No. - S.T.D. (02133) Office : 223160 Principal : 225721 Computer : 223860 Resi.: 223312 Fax : 223160  
Website : aacmanchar.com E-mail : annasahebawate2007@yahoo.com / aac.manchar@gmail.com skype : aac.manchar1

Estd.1966



\* PRINCIPAL \*  
Dr. Kanade K. G.  
M.Sc., M.Phil., Ph.D.

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**ANNASAHEB AWATE ARTS, COMMERCE &  
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Manchar, Tal. Ambegaon, Distt. Pune, Maharashtra - 410 503.

**ACCREDITED 'A' BY NAAC**

ID. No. - PU/PN/ASC/017/1966 A.I.S.H.E. - C - 41221



\* FOUNDER \*  
Padmabhushan  
Dr. Karmaveer  
Bhaurao Patil, D. Litt.

Ref. No. 703/2021-22

Date : 12/11/21

To,  
Mrs. S. S. Patil,  
Assistant Professor,  
BJS ASC College, Wagholi  
Pune

Subject: Invitation as a member of Board of Studies in the subject of short term  
course in Artificial Intelligence.

Respected Madam,

With reference to the subject mention above, we are happy to inform you that the department of Electronic Science of our college is going to start Short Term course in "Artificial Intelligence." The duration of course is one months. We cordially invite you as BOS member to design the syllabus for the course the meeting regarding the syllabus formation will be held on 13<sup>th</sup> November 2021 at 11.30a.m. We here by humbly request you spare the time at attend the meeting we also look forward to the positive response and co-operation from you.

Thanking you and with kind regards.

Yours Sincerely,



*Dr. Kanade*  
Principal

Annasaheb Awate College,  
Manchar, Dist. Pune

Phone No. - S.T.D. (02133) Office : 223160 Principal : 225721 Computer : 223860 Resi.: 223312 Fax : 223160  
Website : aacmanchar.com E-mail : annasahebawate2007@yahoo.com / aac.manchar@gmail.com skype : aac.manchar1

Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College  
Manchar, Pune

Department of Electronic Science

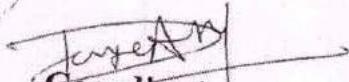
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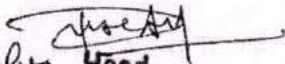
Date – 01/02/2023


All students of F.Y.B.Sc. are hereby informed that the Short-Term Course on "Artificial Intelligence" will commence from 02/02/2023. All the students of this course should remain present for the classes and practicals as per the timetable. It is mandatory for all enrolled students.

Venue: Electronic Science Lab

Time: 12.15 PM to 1.15PM

  
Coordinator

  
Head  
Dept. of Electronic Science  
A. A. C. Head Manchar

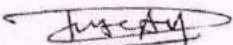
  
Principal  
Annasaheb Awate College,  
Manchar, Pune.

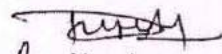


Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College  
Manchar, Pune

Short Term Course on Artificial Intelligence  
For  
First Year B.Sc. Electronic Science  
2022-23

| Time                   | Monday | Tuesday | Wednesday | Thursday | Friday    | Saturday |
|------------------------|--------|---------|-----------|----------|-----------|----------|
| 10.00 -<br>11.00<br>AM |        |         | Theory    | Theory   | Practical |          |

  
Course - Coordinator

  
Head  
Dept. of Electronic Science  
A. A. College, Manchar



Rayat Shikshan Santha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College Manchar

Department of Electronic Science

Short Term Course - 2022-23

Certificate Course in Artificial Intillgence

Class: FYBSc

List of Students

| Sr. No | Roll No | Student Name               | Gender | Phone No.  |
|--------|---------|----------------------------|--------|------------|
| 1      | 4002    | ABHANG PRASAD DILIP        | M      | 9860927100 |
| 2      | 4003    | ABHANG SAYALI SACHIN       | F      | 8975216532 |
| 3      | 4004    | BHAWARI ADINATH SANTOSH    | M      | 9834938546 |
| 4      | 4005    | CHASKAR ATHARV ANIL        | M      | 8625851044 |
| 5      | 4008    | CHIKHALE SHWETA TUKARAM    | F      | 9657348127 |
| 6      | 4013    | DHARADE VAISHALI SANTOSH   | F      | 8208382074 |
| 7      | 4014    | DHENGALE KARISHMA LALCHAND | F      | 7709962116 |
| 8      | 4020    | GAWARI KISHORI TULASHIRAM  | F      | 8010416728 |
| 9      | 4022    | GHEVADE SIDDHIKA SANTOSH   | F      | 9022407596 |
| 10     | 4023    | GHULE SOMESH NILESH        | M      | 8600580828 |
| 11     | 4026    | HULE ASHWINI ANIL          | F      | 7028700725 |
| 12     | 4030    | KANADE ATAHRV MOHAN        | M      | 9175336434 |
| 13     | 4032    | KAROTE PALLAVI SUBHASH     | F      | 9322737217 |
| 14     | 4035    | LOHAKARE POOJA KANTARAM    | F      | 9322342536 |



*[Signature]*  
for Head  
Dept. of Electronic Science  
A. A. College, Manchar



Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College  
Manchar, Pune

Department of Electronic Science  
Certificate Course in Artificial Intelligence 2022-23

|                      |  |
|----------------------|--|
| Name of Co-ordinator | Ms. A M Dange                                      |
| Name of Teachers     | Mr. S A Belage<br>Ms. A M Dange<br>Ms. J B Khilari |
| Lecture In charge    | Ms. J B Khilari                                    |



*[Signature]*  
Head of the Department  
Dept. of Electronic Science  
A.A. College, Manchar

Rayat Shikshan Santha's  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College Manchar**


**Department of Electronic Science**  
**Short Term Course - 2022-23**  
**Certificate Course in Artificial Intelligence**

**Class: FYBSc**

**Theory Attendance**

| Sr. No | Roll No | Student Name               | 2/2/23  | 3/2/23  | 4/2/23  | 8/2/23  | 9/2/23  | 15/2/23 | 16/2/23 | 17/2/23 | 22/2    | 23/2    | 24/2    | 27/2    | 28/2    | 3/3/23  | 9/3/23  |
|--------|---------|----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1      | 4002    | ABHANG PRASAD DILIP        | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 2      | 4003    | ABHANG SAYALI SACHIN       | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 3      | 4004    | BHAWARI ADINATH SANTOSH    | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 4      | 4005    | CHASKAR ATHARV ANIL        | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 5      | 4008    | CHIKHALE SHWETA TUKARAM    | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 6      | 4013    | DHARADE VAISHALI SANTOSH   | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 7      | 4014    | DHENGALE KARISHMA LALCHAND | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 8      | 4020    | GAWARI KISHORI TULASHIRAM  | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 9      | 4022    | GHEVADE SIDDHIKA SANTOSH   | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 10     | 4023    | GHULE SOMESH NILESH        | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 11     | 4026    | HULE ASHWINI ANIL          | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 12     | 4030    | KANADE ATAHRV MOHAN        | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 13     | 4032    | KAROTE PALLAVI SUBHASH     | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 14     | 4035    | LOHAKARE POOJA KANTARAM    | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |



  
**For Head**  
**Dept. of Electronic Science**  
**A. A. College, Manchar**

Rayat Shikshan Santha's  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College Manchar**

**Department of Electronic Science**  
**Short Term Course - 2022-23**  
**Certificate Course in Artificial Intillgence**

**Class: FYBSc**  
**Theory Attendance**

| Sr. No | Roll No | Student Name               | 10/3/22 | 11/3/22 | 14/3    | 15/3    | 16/3    | 17/3    | 18/3    | 21/3    | 23/3    | 24/3    | 28/3    | 29/3    | 31/3    | 5/4/22  | 6/4/22  |
|--------|---------|----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1      | 4002    | ABHANG PRASAD DILIP        | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 2      | 4003    | ABHANG SAYALI SACHIN       | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 3      | 4004    | BHAWARI ADINATH SANTOSH    | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 4      | 4005    | CHASKAR ATHARV ANIL        | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 5      | 4008    | CHIKHALE SHWETA TUKARAM    | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 6      | 4013    | DHARADE VAISHALI SANTOSH   | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 7      | 4014    | DHENGALE KARISHMA LALCHAND | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 8      | 4020    | GAWARI KISHORI TULASHIRAM  | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 9      | 4022    | GHEVADE SIDDHIKA SANTOSH   | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 10     | 4023    | GHULE SOMESH NILESH        | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 11     | 4026    | HULE ASHWINI ANIL          | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 12     | 4030    | KANADE ATAH RV MOHAN       | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 13     | 4032    | KAROTE PALLAVI SUBHASH     | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 14     | 4035    | LOHAKARE POOJA KANTARAM    | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |



for Head  
**Dept. of Electronic Science**  
 A. A. College, Manchar

Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College Manchar

Department of Electronic Science

Short Term Course - 2022-23

Certificate Course in Artificial Intillgence

Class: FYBSc

Practical Attendance

| Sr. No | Roll No | Student Name               | 2/2/23   | 3/2/23   | 7/2/23   | 8/2/23   | 8/4/23   | 10/4     | 11/4     | 12/4     | 13/4     | 17/4     | 18/4     | 19/4     | 20/4     | 24/4     | 25/4     |
|--------|---------|----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1      | 4002    | ABHANG PRASAD DILIP        | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   |
| 2      | 4003    | ABHANG SAYALI SACHIN       | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   |
| 3      | 4004    | BHAWARI ADINATH SANTOSH    | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   | Abhang   |
| 4      | 4005    | CHASKAR ATHARV ANIL        | Chaskar  | Chaskar  | Chaskar  | Chaskar  | Chaskar  | Chaskar  | Chaskar  | Chaskar  | Chaskar  | Chaskar  | Chaskar  | Chaskar  | Chaskar  | Chaskar  | Chaskar  |
| 5      | 4008    | CHIKHALE SHWETA TUKARAM    | Chikhale | Chikhale | Chikhale | Chikhale | Chikhale | Chikhale | Chikhale | Chikhale | Chikhale | Chikhale | Chikhale | Chikhale | Chikhale | Chikhale | Chikhale |
| 6      | 4013    | DHARADE VAISHALI SANTOSH   | Dhara    | Dhara    | Dhara    | Dhara    | Dhara    | Dhara    | Dhara    | Dhara    | Dhara    | Dhara    | Dhara    | Dhara    | Dhara    | Dhara    | Dhara    |
| 7      | 4014    | DHENGALE KARISHMA LALCHAND | Dhenge   | Dhenge   | Dhenge   | Dhenge   | Dhenge   | Dhenge   | Dhenge   | Dhenge   | Dhenge   | Dhenge   | Dhenge   | Dhenge   | Dhenge   | Dhenge   | Dhenge   |
| 8      | 4020    | GAWARI KISHORI TULASHIRAM  | Gawari   | Gawari   | Gawari   | Gawari   | Gawari   | Gawari   | Gawari   | Gawari   | Gawari   | Gawari   | Gawari   | Gawari   | Gawari   | Gawari   | Gawari   |
| 9      | 4022    | GHEVADE SIDDHIKA SANTOSH   | Gheva    | Gheva    | Gheva    | Gheva    | Gheva    | Gheva    | Gheva    | Gheva    | Gheva    | Gheva    | Gheva    | Gheva    | Gheva    | Gheva    | Gheva    |
| 10     | 4023    | GHULE SOMESH NILESH        | Ghule    | Ghule    | Ghule    | Ghule    | Ghule    | Ghule    | Ghule    | Ghule    | Ghule    | Ghule    | Ghule    | Ghule    | Ghule    | Ghule    | Ghule    |
| 11     | 4026    | HULE ASHWINI ANIL          | Hule     | Hule     | Hule     | Hule     | Hule     | Hule     | Hule     | Hule     | Hule     | Hule     | Hule     | Hule     | Hule     | Hule     | Hule     |
| 12     | 4030    | KANADE ATAH RV MOHAN       | Kanade   | Kanade   | Kanade   | Kanade   | Kanade   | Kanade   | Kanade   | Kanade   | Kanade   | Kanade   | Kanade   | Kanade   | Kanade   | Kanade   | Kanade   |
| 13     | 4032    | KAROTE PALLAVI SUBHASH     | Karote   | Karote   | Karote   | Karote   | Karote   | Karote   | Karote   | Karote   | Karote   | Karote   | Karote   | Karote   | Karote   | Karote   | Karote   |
| 14     | 4035    | LOHAKARE POOJA KANTARAM    | Lohakar  | Lohakar  | Lohakar  | Lohakar  | Lohakar  | Lohakar  | Lohakar  | Lohakar  | Lohakar  | Lohakar  | Lohakar  | Lohakar  | Lohakar  | Lohakar  | Lohakar  |
| 15     | 4016    | Gadhare Atharv Somnath     | Gadhare  | Gadhare  | Gadhare  | Gadhare  | Gadhare  | Gadhare  | Gadhare  | Gadhare  | Gadhare  | Gadhare  | Gadhare  | Gadhare  | Gadhare  | Gadhare  | Gadhare  |



For Head  
 Dept. of Electronic Science  
 A. A. College, Manchar

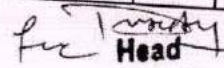
Rayat Shikshan Santha's  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College Manchar**

**Department of Electronic Science**  
**Short Term Course - 2022-23**  
**Certificate Course in Artificial Intillgence**  
**Class: FYBSc**

**Practical Attendance**

| Sr. No | Roll No | Student Name               | 10/4    | 11/4    | 12/4    | 13/4    | 14/4    | 15/4    | 16/4    | 17/4    | 18/4    | 19/4    | 20/4    | 21/4    | 22/4    | 23/4    | 24/4    | 25/4    | 26/4    | 27/4    | 28/4    | 29/4    | 30/4    |         |
|--------|---------|----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1      | 4002    | ABHANG PRASAD DILIP        | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 2      | 4003    | ABHANG SAYALI SACHIN       | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 3      | 4004    | BHAWARI ADINATH SANTOSH    | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 4      | 4005    | CHASKAR ATHARV ANIL        | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 5      | 4008    | CHIKHALE SHWETA TUKARAM    | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 6      | 4013    | DHARADE VAISHALI SANTOSH   | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 7      | 4014    | DHENGALE KARISHMA LALCHAND | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 8      | 4020    | GAWARI KISHORI TULASHIRAM  | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 9      | 4022    | GHEVADE SIDDHIKA SANTOSH   | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 10     | 4023    | GHULE SOMESH NILESH        | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 11     | 4026    | HULE ASHWINI ANIL          | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 12     | 4030    | KANADE ATAH RV MOHAN       | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 13     | 4032    | KAROTE PALLAVI SUBHASH     | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |
| 14     | 4035    | LOHAKARE POOJA KANTARAM    | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present | Present |



  
**Head**  
**Dept. of Electronic Science**  
**A. A. College, Manchar**

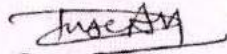
Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College  
Manchar, Pune

Department of Electronic Science  
Certificate Course in Artificial Intelligence 2022-23

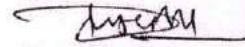
## EXAM NOTICE

Date - 29/04/2023

All students of F.Y.B.Sc. are hereby informed that the Short-Term Course Exam on "Artificial Intelligence" will be held on May 03, 2023. All the students of this course should remain present for the Exam. It is mandatory for all enrolled students.



Course Co-ordinator



for Head  
Dept. of Electronic Science  
A. A. College, Manchar



Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College Manchar

Rayat Shikshan Santha's

Department of Electronic Science

Short Term Course - 2022-23

Class: F.Y.B.Sc.

Certificate Course in Artificial Intelligence

Exam Attendance

Date: 3/5/2023

| Sr. No | Roll No | Student Name               | Signature             |
|--------|---------|----------------------------|-----------------------|
| 1      | 4002    | ABHANG PRASAD DILIP        | <i>Abhang</i>         |
| 2      | 4003    | ABHANG SAYALI SACHIN       | <i>Abhang</i>         |
| 3      | 4004    | BHAWARI ADINATH SANTOSH    | <i>Adinath</i>        |
| 4      | 4005    | CHASKAR ATHARV ANIL        | <i>Chaskar</i>        |
| 5      | 4008    | CHIKHALE SHWETA TUKARAM    | <i>Chikhale</i>       |
| 6      | 4013    | DHARADE VAISHALI SANTOSH   | <i>Dharade</i>        |
| 7      | 4014    | DHENGALE KARISHMA LALCHAND | <i>Dhengale</i>       |
| 8      | 4020    | GAWARI KISHORI TULASHIRAM  | <i>Gawari</i>         |
| 9      | 4022    | GHEVADE SIDDHIKA SANTOSH   | —                     |
| 10     | 4023    | GHULE SOMESH NILESH        | <i>Ghule</i>          |
| 11     | 4026    | HULE ASHWINI ANIL          | <i>Ashwini</i>        |
| 12     | 4030    | KANADE ATAHRV MOHAN        | —                     |
| 13     | 4032    | KAROTE PALLAVI SUBHASH     | <i>Karote</i>         |
| 14     | 4035    | LOHAKARE POOJA KANTARAM    | <i>Pooja Lohakare</i> |

*[Signature]*  
Course - Coordinator



*[Signature]*  
for Head  
Dept. of Electronic Science  
A. A. College, Manchar

Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College Manchar

Rayat Shikshan Santha's

Department of Electronic Science

Short Term Course - 2022-23

Class: F.Y.B.Sc.

Certificate Course in Artificial Intillgence

Exam Result

Date: 3/5/2023

| Sr. No | Roll No | Student Name               | Marks out of 60 | Grades |
|--------|---------|----------------------------|-----------------|--------|
| 1      | 4002    | ABHANG PRASAD DILIP        |                 |        |
| 2      | 4003    | ABHANG SAYALI SACHIN       | 44              | A      |
| 3      | 4004    | BHAWARI ADINATH SANTOSH    | 36              | B      |
| 4      | 4005    | CHASKAR ATHARV ANIL        | 52              | O      |
| 5      | 4008    | CHIKHALE SHWETA TUKARAM    | 52              | A      |
| 6      | 4013    | DHARADE VAISHALI SANTOSH   | 36              | B      |
| 7      | 4014    | DHENGALE KARISHMA LALCHAND | 54              | A      |
| 8      | 4020    | GAWARI KISHORI TULASHIRAM  | 52              | A      |
| 9      | 4022    | GHEVADE SIDDHIKA SANTOSH   | 58              | O      |
| 10     | 4023    | GHULE SOMESH NILESH        |                 |        |
| 11     | 4026    | HULE ASHWINI ANIL          | 34              | B      |
| 12     | 4030    | KANADE ATAHV MOHAN         | 56              | O      |
| 13     | 4032    | KAROTE PALLAVI SUBHASH     |                 |        |
| 14     | 4035    | LOHAKARE POOJA KANTARAM    | 48              | A      |
|        |         |                            | 38              | B      |

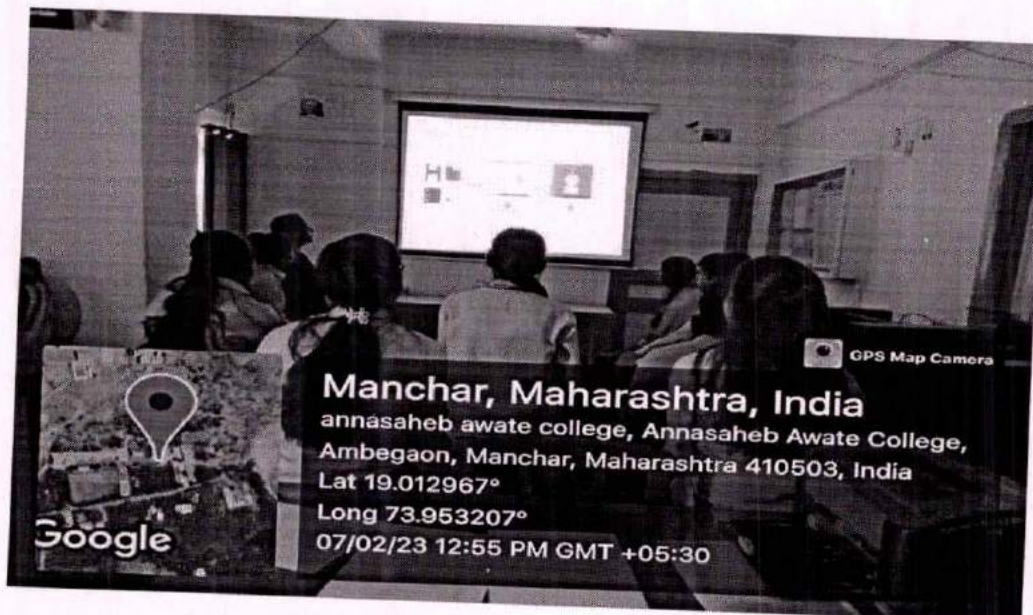
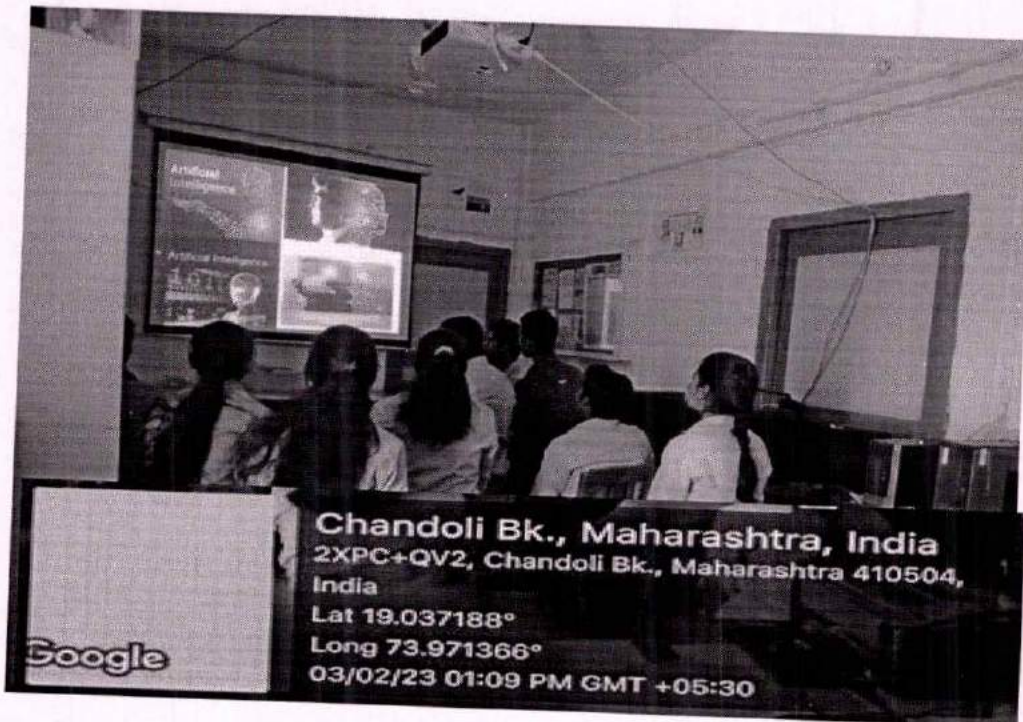
*[Signature]*  
Course - Coordinator

*[Signature]*  
for Head  
Dept. of Electronic Science  
A. A. College, Manchar

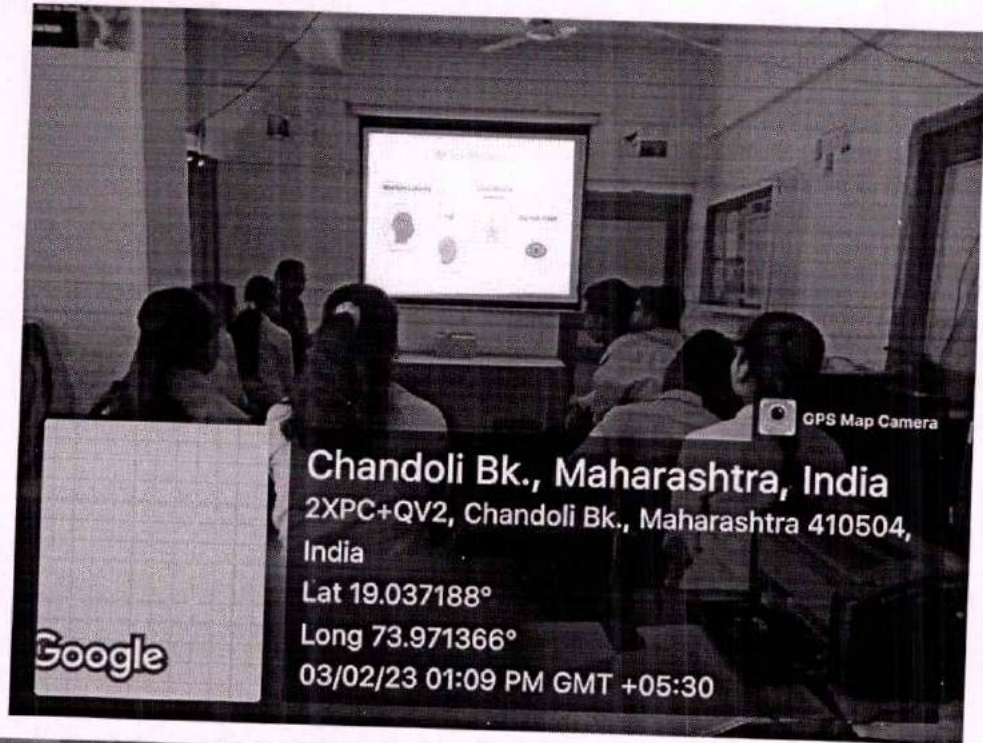




Photos for STC Artificial Intelligence



*Belur*  
Head  
Dept. of Electronic Science  
A. A. College, Manchar



Google

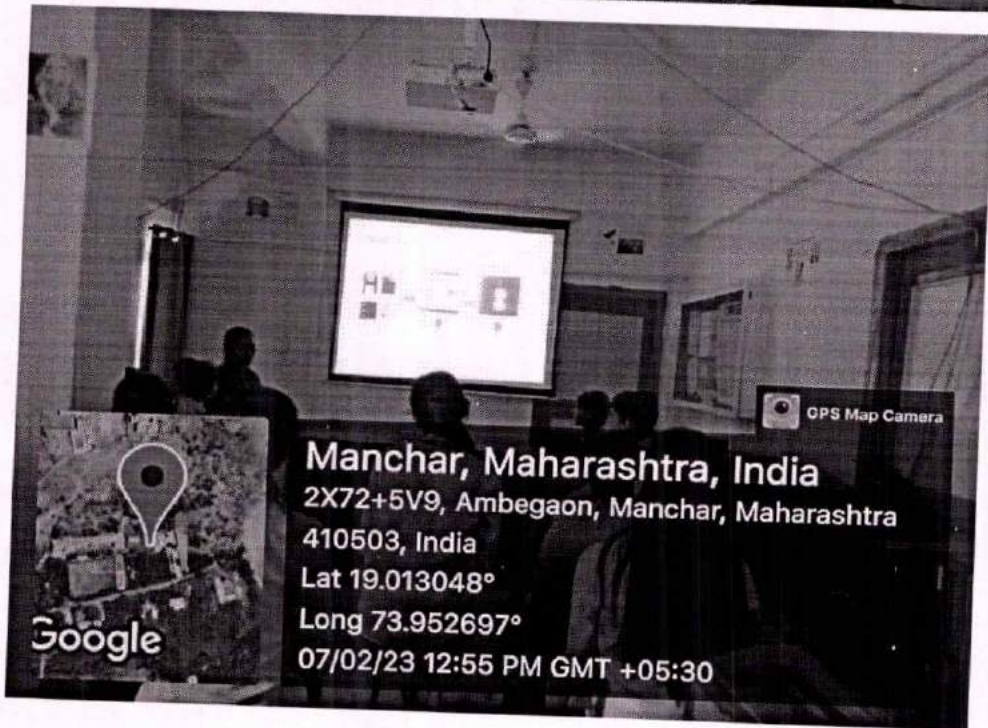
**Chandoli Bk., Maharashtra, India**

2XPC+QV2, Chandoli Bk., Maharashtra 410504,  
India

Lat 19.037188°

Long 73.971366°

03/02/23 01:09 PM GMT +05:30



Google

**Manchar, Maharashtra, India**

2X72+5V9, Ambegaon, Manchar, Maharashtra  
410503, India

Lat 19.013048°

Long 73.952697°

07/02/23 12:55 PM GMT +05:30



*Delu*

Head

Dept. of Electronic Science  
A. A. College, Manchar



Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce and Hutatama Babu Genu Science College,  
Manchar, Tal. Ambegaon, Dist. Pune PIN 410503  
**Certificate Courses Science Faculty Academic Year 2022-23**

**NOTICE**

Date 05/11/2022

All Heads of the Science Faculty are here informed that during academic year 2022-23, all Science Short Term Courses and students strength are decided below pattern. All should prepare Short Term Course Time Table and conduct the Course and keep records in their respective departments.

| SN | Dept.       | Certificate Course Title                           | Class and Batch Name Group   | Students Roll Nos.   | Total |
|----|-------------|--|------------------------------|--|-------|
| 1  | Electronics | Certificate Course in Artificial intelligence      | F. Y. B. Sc. Batch- A (PCME) | 4002, 4003, 4004, 4005, 4008, 4013, 4014, 4020, 4022, 4023, 4026, 4030, 4032, 4035       | 14    |
| 2  | Physics     | Certificate Course in Basic GIS and Remote Sensing | F. Y. B. Sc. Batch- B (PCME) | 4036, 4037, 4043, 4046, 4049, 4051, 4057, 4058, 4062, 4064, 4065, 4067, 4068             | 13    |
| 3  | Chemistry   | Certificate Course in Dairy Science                | F. Y. B. Sc. Batch- C (PCBZ) | 4001, 4006, 4007, 4009, 4010, 4011, 4012, 4015, 4016, 4017, 4018, 4019, 4021, 4024, 4025 | 15    |
| 4  | Botany      | Certificate Course in Organic Farming              | F. Y. B. Sc. Batch- D (PCBZ) | 4027, 4028, 4029, 4031, 4033, 4034, 4038, 4039, 4040, 4041, 4042, 4044, 4045, 4047, 4048 | 15    |
| 5  | Zoology     | Certificate Course in Apiculture                   | F. Y. B. Sc. Batch- E (PCBZ) | 4050, 4052, 4053, 4054, 4055, 4056, 4059, 4060, 4061, 4063, 4066, 4069, 4070, 4071, 4072 | 17    |
| 6  | Biotech.    | Certificate Course in Plant Tissue Culture         | F. Y. Biotech. -             | F. Y. Biotech. 4001 to 4010  | 10    |

Chairman  
Short Term Course Committee

Principal  
Annasaheb Awate Arts, Commerce & Hutatama Babu Genu Science College,  
Manchar, Tal. Ambegaon, Dist. Pune



Rayat Shikshan Sanstha's

**Annasaheb Awate College, Manchar**

**Department of Physics**

**Short Term Course 2022-2023**

**Notice**

All the students of F.Y. B.Sc. listed below are hereby informed that the short term course on "**Basic in GIS & Remote Sensing**" organized by Department of Physics will commence from 21/03/2023. All the students of this course should remain present for the classes and practical's as per the timetable. It is mandatory to all enrolled students.

*R. Gulian*  
**Head**  
Department of Physics  
A.A. College, Manchar



Rayat Shikshan Sanstha's  
**Annasaheb Awate College, Manchar**

(NAAC Accredited with 'A' Grade  
Affiliated to Savitribai Phule Pune University, Pune)

**Department of Physics**

**STC-2022-23**

Certificate Course on Course in "Basic in GIS & Remote Sensing"

**Attendance (Lecture)**

| Sr.No. | Name of the Student        | 21/03    | 22/03    | 23/03    | 24/03    | 28/03    | 29/03    | 30/03    |
|--------|----------------------------|----------|----------|----------|----------|----------|----------|----------|
| 1.     | Lohakare Priya Kantaram    | Priya    | Priya    | Priya    | Priya    | A        | Priya    | Priya    |
| 2.     | Lohate Dipali Santosh      | Dipali   | Dipali   | Dipali   | Dipali   | A        | Dipali   | Dipali   |
| 3.     | Nighot Gauri Sambhaji      | Gauri    | Gauri    | Gauri    | Gauri    | Gauri    | Gauri    | Gauri    |
| 4.     | Pathan Arshiya Riyajkhan   | Arshiya  | Arshiya  | Arshiya  | Arshiya  | Arshiya  | Arshiya  | Arshiya  |
| 5.     | Pokharkar Anuj Suresh      | Anuj     | Anuj     | Anuj     | Anuj     | Anuj     | Anuj     | Anuj     |
| 6.     | Shinde Aishwarya Bharat    | Aishu    | Aishu    | Aishu    | Aishu    | A        | Aishu    | Aishu    |
| 7.     | Tawhare Digambar Balasaheb | Digambar | Digambar | Digambar | Digambar | Digambar | Digambar | Digambar |
| 8.     | Thorat Ashish Nitin        | Ashish   | Ashish   | Ashish   | Ashish   | Ashish   | Ashish   | Ashish   |
| 9.     | Thorat Shraddha Bhaguji    | Shraddha | Shraddha | Shraddha | A        | Shraddha | Shraddha | Shraddha |
| 10.    | Wagh Karan Jalinder        | Kifwah   | Kifwah   | Kifwah   | Kifwah   | Kifwah   | Kifwah   | Kifwah   |

*R. S. Wagh*  
**Head**  
Department of Physics  
A.A. College, Manchar



Rayat Shikshan Sanstha's  
**Annasaheb Awate College, Manchar**

(NAAC Accredited with 'A' Grade  
Affiliated to Savitribai Phule Pune University, Pune)

**Department of Physics**

**Skill Based Short Term Course-2022-23**

Certificate Course on Course in "Basic in GIS & Remote Sensing"

Attendance (Practical)

| Sr.No. | Name of the Student        | 25/03               | 26/03               | 01/04               | 02/04               | 08/04               | 09/04               | 15/04               |
|--------|----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 1.     | Lohakare Priya Kantaram    | <del>Priya</del>    | <del>Priya</del>    | <del>Priya</del>    | <del>Priya</del>    | A                   | <del>Priya</del>    | <del>Priya</del>    |
| 2.     | Lohate Dipali Santosh      | Dipali              | Dipali              | Dipali              | Dipali              | A                   | Dipali              | Dipali              |
| 3.     | Nighot Gauri Sambhaji      | Gauri               | Gauri               | Gauri               | Gauri               | Gauri               | Gauri               | Gauri               |
| 4.     | Pathan Arshiya Riyajkhan   | <del>Arshiya</del>  | <del>Arshiya</del>  | <del>Arshiya</del>  | <del>Arshiya</del>  | <del>Arshiya</del>  | <del>Arshiya</del>  | <del>Arshiya</del>  |
| 5.     | Pokharkar Anuj Suresh      | Anuj                | Anuj                | Anuj                | Anuj                | Anuj                | Anuj                | Anuj                |
| 6.     | Shinde Aishwarya Bharat    | Aishu               | Aishu               | Aishu               | A                   | Aishu               | Aishu               | Aishu               |
| 7.     | Tawhare Digambar Balasaheb | <del>Digambar</del> | <del>Digambar</del> | <del>Digambar</del> | <del>Digambar</del> | <del>Digambar</del> | <del>Digambar</del> | <del>Digambar</del> |
| 8.     | Thorat Ashish Nitin        | Ashish              | Ashish              | Ashish              | Ashish              | Ashish              | Ashish              | Ashish              |
| 9.     | Thorat Shraddha Bhaguji    | <del>Shraddha</del> | <del>Shraddha</del> | <del>Shraddha</del> | <del>Shraddha</del> | A                   | <del>Shraddha</del> | <del>Shraddha</del> |
| 10.    | Wagh Karan Jalinder        | KJWagh              | KJWagh              | KJWagh              | KJWagh              | KJWagh              | A                   | KJWagh              |

*R. J. Wagh*  
Head  
Department of Physics  
A.A. College, Manchar



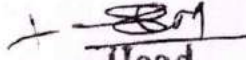
Rayat Shikshan Sanstha's  
**Annasaheb Awate College Manchar**

Department of Physics

2022-2023

**STC – Basic in GIS & Remote Sensing**  
**Mark list**

| Sr.No | Name of the Student        | Mark |
|-------|----------------------------|------|
| 1     | Lohakre Priya Kantaram     | 35   |
| 2     | Lohate Dipoli Santosh      | 38   |
| 3     | Nighot Gauri Sambhaji      | 40   |
| 4     | Pathan Arshiya Riyajkhan   | 59   |
| 5     | Pokharkar Anuj Suresh      | 46   |
| 6     | Shinde Aishwarya Bharat    | 48   |
| 7     | Tawhare Diganbar Balasaheb | 50   |
| 8     | Thorat Ashish Mitin        | 57   |
| 9     | Thorat Shrawan Bhaguji     | 55   |
| 10    | Wagh Karan Jalinder        | 37   |

  
Head  
Department of Physics  
A.A. College, Manchar

Rayat Shikshan Sanstha's  
Annasaheb Awate College Manchar  
Department of Physics



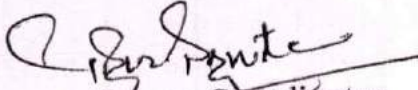
**STC – Basic in GIS & Remote Sensing**

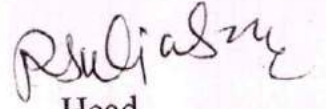
**Report**

Date- 04/05/2023

In academic year 2022-23, Department of Physics has conducted the short term course – **Basic in GIS & Remote Sensing** for F.Y.B.Sc students. Lectures were conducted by Prof. Kurkute. P.V. had guided about the course. Total 10 students were involved in course.

This course was commenced on 23/03/2023 to 03/05/ 2023.

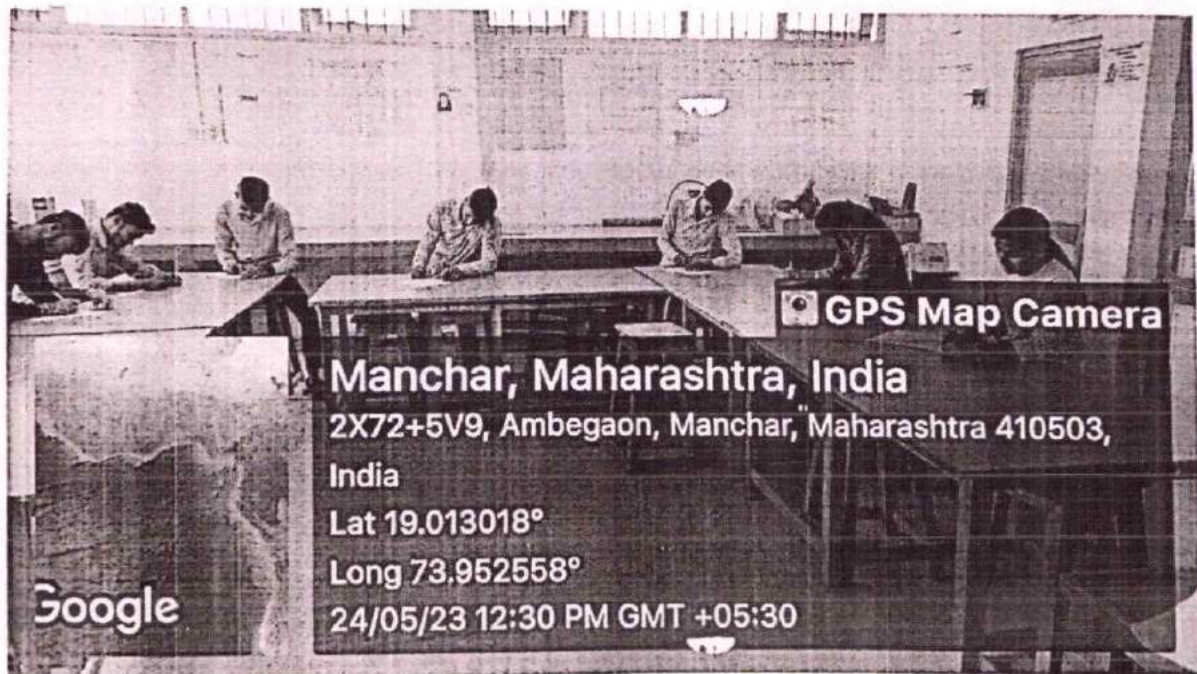
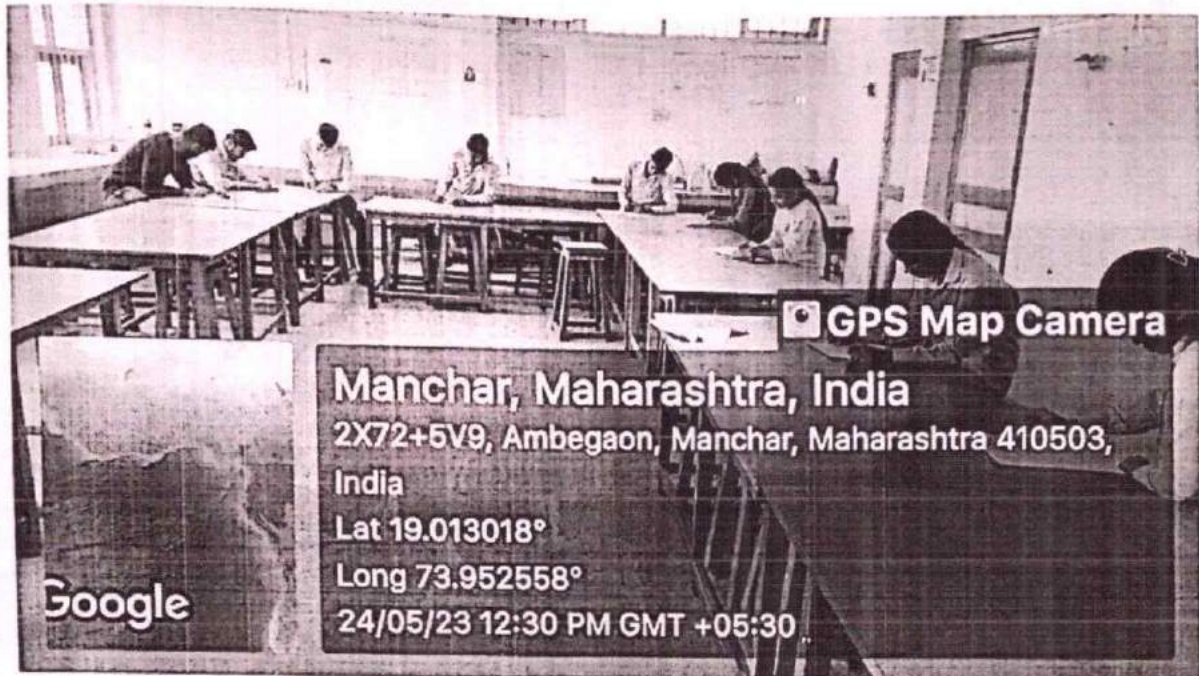
  
Course Coordinator

  
Head

**Head**  
Department of Physics  
A.A. College Manchar



STC – Basic in GIS & Remote Sensing -2022-2023



*Rahulraju*  
**Head**  
Department of Physics  
A.A. College, Manchar

DATE : 15/01/2023

*Rayat Shikshan Sanstha's*

**AnnasahebAwate Arts, Commerce and Hutatma Babu Genu Science College,  
Manchar**

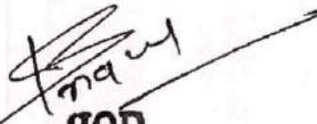
**DEPARTMENT OF BIOTECHNOLOGY**

**NOTICE**

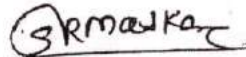
**SHORT TERM COURSE 2022-23**

All the students are hereby informed that the Biotechnology Department going to Organize a Short term course on "PLANT TISSUE CULTURE" From 01 Feb 2023 To 30<sup>st</sup> April 2023

(NOTE -The short term course is compulsory to all F.Y Biotechnology Students)


  
**HOD**  
Department of Biotechnology  
Annasaheb Awate College, Manchar.



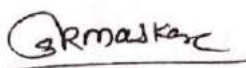
  
Course-Cordinator  
Miss. Markare S.R.

Rayat Shikshan Sanstha's  
**Annasaheb Awate College, Manchar**  
**Department of Biotechnology**  
**Short Term Course Timetable A.Y.2022-23**

| Sr.No. | Duration | Days     | Time              | Teachers Name         |
|--------|----------|----------|-------------------|-----------------------|
| 1.     | 3 Months | Friday   | 01:30 PM-02:30 PM | Asst.Prof.Ingole D.D. |
| 2.     |          | Friday   | 02:30 PM-04:30 PM | Asst.Prof.Maskare S.R |
| 3.     |          | Saturday | 01:30 PM-02:30 PM | Asst.Prof.Maskare S.R |
| 4.     |          | Saturday | 02:30 PM-04:30 PM | Asst.Prof.Ingole D.D. |

  
**HOD**  
Department of Biotechnology  
Annasaheb Awate College, Manchar



  
Course - Coordinator.  
Miss - Maskare S.R

*Rayat Shikshan Sanstha's*

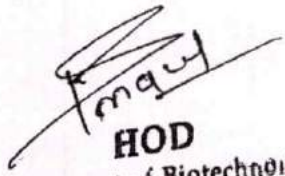
**AnnasahebAwate Arts, Commerce and Hutatma Babu Genu Science College,  
Manchar**

**DEPARTMENT OF BIOTECHNOLOGY**

**SHORT TERM COURSE 2022-23**

**STUDENTS LIST**

| SR.No | Students Name             | Class             |
|-------|---------------------------|-------------------|
| 1.    | Aher Abhay Raosaheb       | F.Y Biotechnology |
| 2.    | Chaudhari Pratik Vijay    | F.Y Biotechnology |
| 3.    | Kopare Aditya Gorakshnath | F.Y Biotechnology |
| 4.    | Shinde Akash Rajendra     | F.Y Biotechnology |

  
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Department of Biotechnology  
Annasaheb Awate College, Manchar



Short Term Course (PLANT TISSUE CULTURE) Syllabus

A.Y.-2022-23

(Theory+Practicals-2 Credits)

Department of Biotechnology

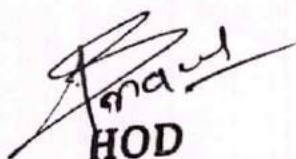
Theory : 1 Credit

| Sr.No. | Contents  | Lectures |
|--------|---|----------|
| 1      | Introduction and History of Plant Tissue Culture  | 1        |
| 2      | Infrastructure And Organization of PTC Laboratory- General & aseptic laboratory, different work areas, equipments & instruments required. | 1        |
| 3      | Aseptic Techniques- sterilization, aseptic work station, precaution to maintain aseptic conditions.                                       | 1        |
| 4      | Culture Media- Nutritional requirements of the explants, PGRs and their in vitro roles, media preparation.                                | 3        |
| 5      | Callus Culture technique  | 2        |
| 6      | Anther and pollen culture   | 2        |
| 7      | Suspension culture technique.   | 2        |
| 8      | Organ culture technique.  | 2        |
| 9      | Applications of PTC / visit to PTC Laboratory.  | 1        |



**Practicals: 2 Credits**

| Sr.No. | Title   | No.of Practical |
|--------|---|-----------------|
| 1      | Asceptic manipulation washing,capping,packing and sterilization | 06              |
| 2      | Preparation of Media  | 06              |
| 3      | Callus culture Technique  | 06              |
| 4      | Suspension culture  | 03              |
| 5      | Shoot tip culture   | 03              |
| 6      | Organ culture   | 03              |
| 7      | Anther Culture  | 03              |

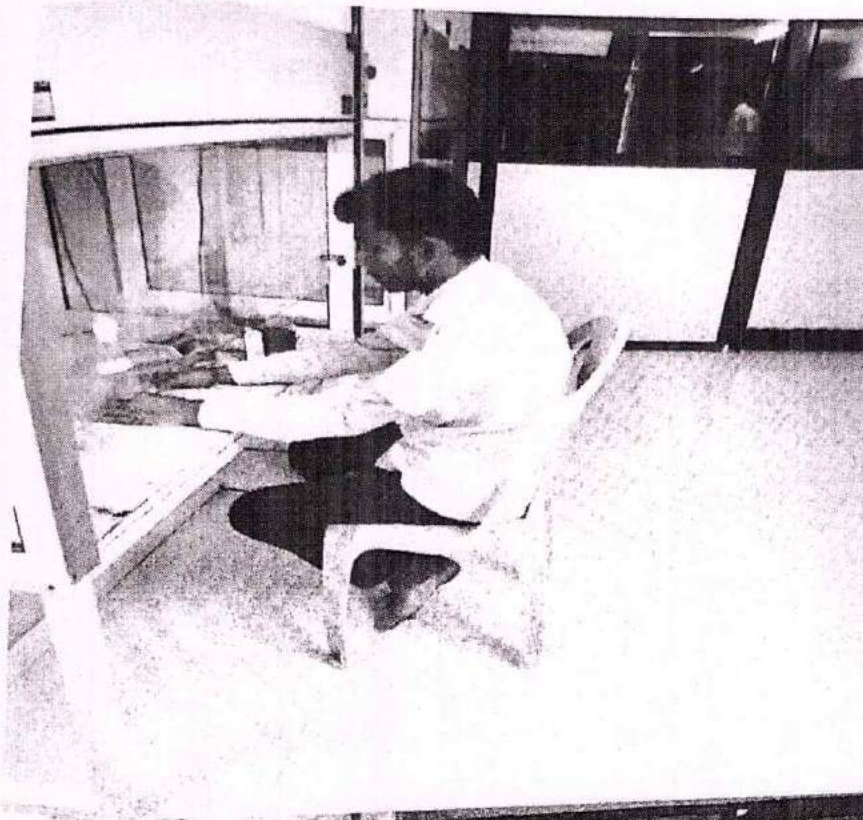
  
**HOD**

Department of Biotechnology  
Anasaheb Awate College, Manchar



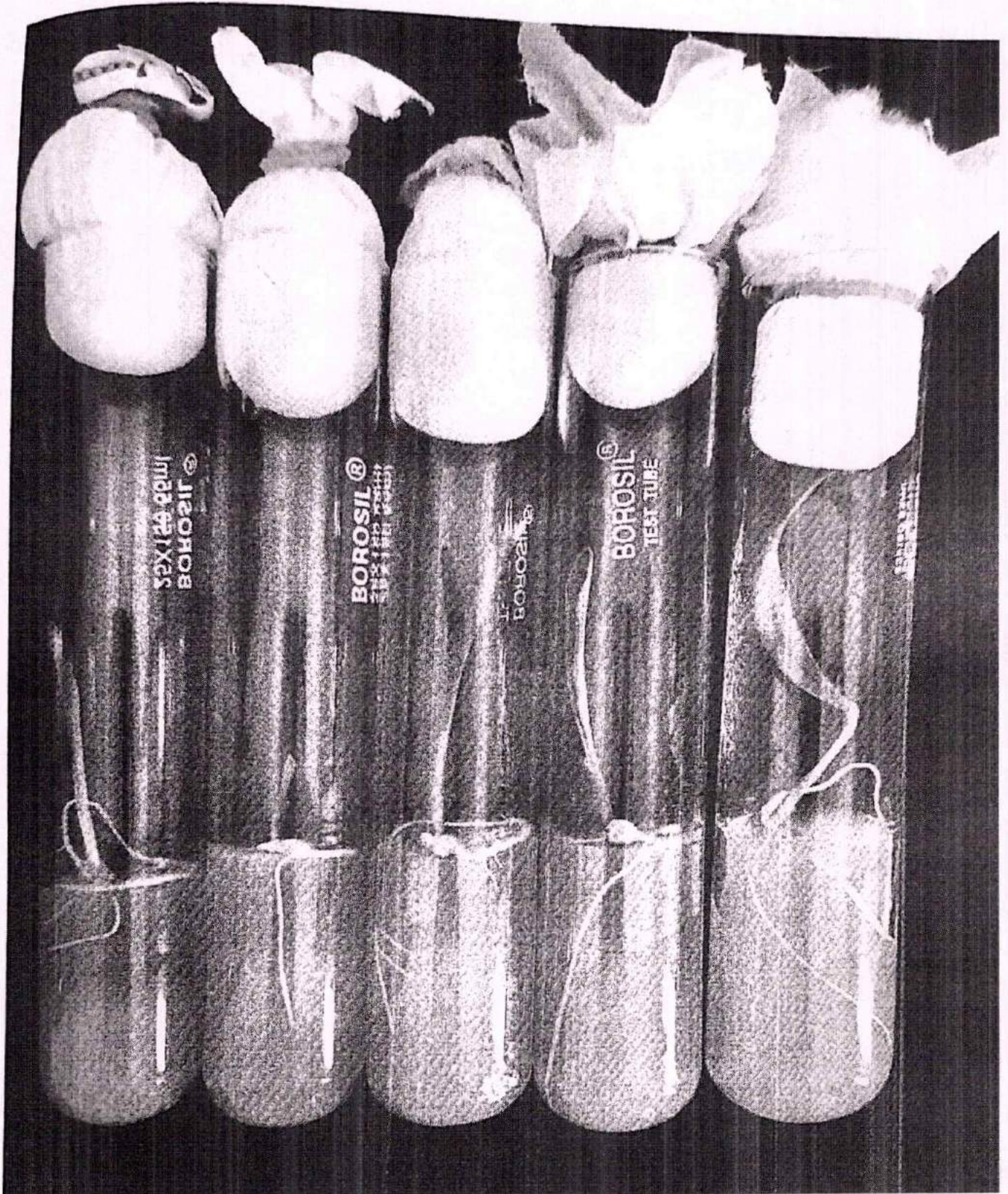
DEPARTMENT OF BIOTECHNOLOGY  
SHORT TERM COURSE 2022-23

PHOTOGRAPHS



DEPARTMENT OF BIOTECHNOLOGY  
SHORT TERM COURSE 2022-23

PHOTOGRAPHS






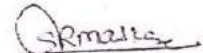
Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, comm. & H. B. G. Science, College, Manchar  
Short Term Course Student List

A.Y.2022-23 (3 hours/Day)

| Sr.No | Name                      | 03/02             | 04/02             | 10-02             | 11-02             | 17-02             | 24-02             | 25-02             | 03-03             | 04-03             | 11-03             | 01-04             | 08-04             | 15-04             | 21-04             | 28-04             |
|-------|---------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 1     | Aher Abhay Raosaheb       | <del>Abhay</del>  | <del>Abhay</del>  | <del>Abhay</del>  | <del>Abhay</del>  | <del>Abhay</del>  | <del>Abhay</del>  | <del>Abhay</del>  | <del>Abhay</del>  | <del>Abhay</del>  | <del>Abhay</del>  | <del>Abhay</del>  | <del>Abhay</del>  | <del>Abhay</del>  | <del>Abhay</del>  | <del>Abhay</del>  |
| 2     | Chaudhari Pratik Vijay    | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> | <del>Pratik</del> |
| 3     | Kopare Aditya Gorakshnath | <del>Kopare</del> | <del>Kopare</del> | <del>Kopare</del> | <del>Kopare</del> | <del>Kopare</del> | <del>Kopare</del> | <del>Kopare</del> | <del>Kopare</del> | <del>Kopare</del> | <del>Kopare</del> | <del>Kopare</del> | <del>Kopare</del> | <del>Kopare</del> | <del>Kopare</del> | <del>Kopare</del> |
| 4     | Shinde Akash Rajendra     | <del>Shinde</del> | <del>Shinde</del> | <del>Shinde</del> | <del>Shinde</del> | <del>Shinde</del> | <del>Shinde</del> | <del>Shinde</del> | <del>Shinde</del> | <del>Shinde</del> | <del>Shinde</del> | <del>Shinde</del> | <del>Shinde</del> | <del>Shinde</del> | <del>Shinde</del> | <del>Shinde</del> |

  
**HOD**  
Department of Biotechnology  
Annasaheb Awate College, P. Manchar

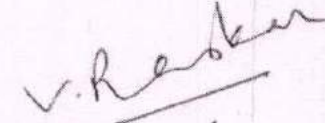


  
S-T-C  
Co-coordinator  
(Biotechnology Department)  
Miss. Maskare. S.R.

**The member of the Board of Studies-**

Prin.Dr. K. G. Kanade

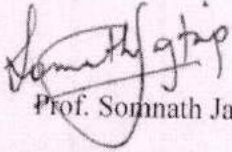
Annasaheb Awate College, Manchar



Dr. Vikas Raskar

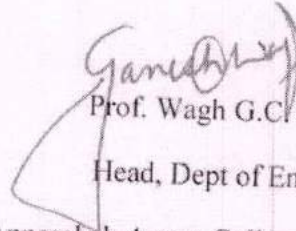
Hutatma Rajguru Mahavidyalay

(Arts, Science and Commerce) Rajgurunagar



Prof. Somnath Jagtap

B.D. Kale College, Ghodegaon



Prof. Wagh G.C.

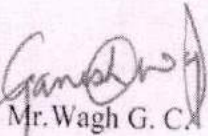
Head, Dept of English

Annasaheb Awate College, Manchar

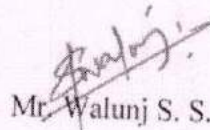
Placement Officer

Annasaheb Awate College, Manchar

**The Faculties of the department of English**



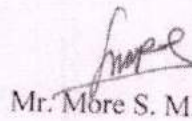
Mr. Wagh G. C.



Mr. Walunj S. S.



Mr. Dhone T.E.



Mr. More S. M.

**Rayat Shikshan Sanstha's**  
**Annasaheb Awate College, Manchar**

**Department of English**

**Syllabus for Certificate Course in Communication Skills**

| <b>Sr. No</b> | <b>Module</b>   | <b>No. of Lectures</b> |
|---------------|---|------------------------|
| 1             | Introduction to Communication:<br>Need for Effective Communication.   | 02                     |
| 2             | The Process of Communication: Levels of communication:<br>Significance of technical communication.<br>Barriers to Communication:<br><br>Flow of communication; Use of language in communication;  | 02                     |
| 3             | Barriers to Communication:<br><br>Types of barriers; Miscommunication; Noise; Overcoming measures.  | 03                     |
| 4             | Listening Skills: Listening as an active skill; Types of Listeners; Listening for general content; Listening to fill up information; Intensive Listening, Listening for specific information;<br>Developing effective listening skills; Barriers to effective listening skills. | 04                     |
| 5             | Reading Skills Previewing techniques; Skimming; Scanning; Understanding the gist of an argument; identifying the topic sentence; Inferring lexical and contextual meaning, recognizing coherence and sequencing of sentences; Improving comprehension skills.                   | 03                     |
| 6             | Writing Skills : Sentence formation; Use of appropriate diction; Paragraph and Essay Writing; Coherence and Cohesion  | 02                     |

|                                 |  |           |
|---------------------------------|--|-----------|
| 7                               | Letter Writing: Formal, informal and business letters.   | 03        |
| 8                               | Job Application: Cover letter, Differences between bio-data, CV and Resume.  | 04        |
| 9                               | Report Writing: Basics of Report Writing; Structure of a report; Types of reports  | 03        |
| 10                              | Non-verbal Communication and Body Language: Norms of non-verbal communication; Interpreting body- language Cues; Kinesics; Proxemics; Chronemics; Effective use of body language | 04        |
| 11                              | Interview Skills: Types of Interviews; Ensuring success Job interviews; Appropriate use of non-verbal communication.   | 04        |
| 12                              | Group Discussion Group discussion as a type of presentation, Ensuring success in group discussions.  | 04        |
| 13                              | Presentation Skills: Oral presentation and public speaking skills, business presentations  | 03        |
| 14                              | Technology-based Communication : Netiquettes: effective e-mail messages, power-point presentation; enhancing editing skills  | 04        |
| <b>Total Number of Lectures</b> |  | <b>45</b> |

**Evaluation Pattern:**

- Online MCQ Examination Through Google form: 50 marks
- Oral Examination through Google meet: 50 marks

**Total: 100 Marks**

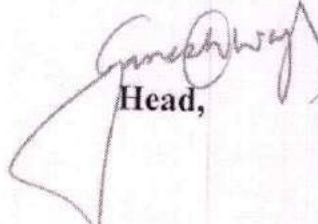
*Ganesh*

## Department of English

### Syllabus Distribution of short term course 2022-23

| Name of the Teacher | Topics   |    |
|---------------------|--|----|
| Prof. Wagh G. C.    | 1)Introduction to Communication:<br>Need for Effective Communication.<br><br>2)The Process of Communication: Levels of communication:<br>Significance of technical communication.<br>Barriers to Communication:<br><br>3)Flow of communication; Use of language in communication;<br><br>4)Barriers to Communication:<br><br>5) Types of barriers; Miscommunication; Noise; Overcoming measures. | 11 |
| Prof. Walunj S. S.  | 1) Letter Writing: Formal, informal and business letters.<br><br>2)Job Application: Cover letter, Differences between bio-data, CV and Resume.<br><br>3)Report Writing: Basics of Report Writing; Structure of a report; Types of reports<br><br>4) Interview Skills : Types of Interviews; Ensuring success Job interviews; Appropriate use of non-verbal communication.                        | 12 |

|                                 |   |           |
|---------------------------------|---|-----------|
| <b>Prof. More. S. M.</b>        | <p>1) Non-verbal Communication and Body Language: Norms of non-verbal communication; Interpreting body- language Cues; Kinesics; Proxemics; Chromatics; Effective use of body language</p> <p>2) Group Discussion Group discussion as a type of presentation, Ensuring success in group discussions.</p> <p>3) Presentation Skills: Oral presentation and public speaking skills, business presentations</p> <p>4) Technology-based Communication : Netiquettes: effective e-mail messages, power-point presentation; enhancing editing skills</p>  | <b>11</b> |
| <b>Prof. Dhone T.E.</b>         | <p>1) Listening Skills: Listening as an active skill; Types of Listeners; Listening for general content; Listening to fill up Information; Intensive Listening, Listening for specific information; Developing effective listening skills; Barriers to effective listening skills.</p> <p>2) Reading Skills Previewing techniques; Skimming; Scanning; Understanding the gist of an argument; identifying the topic sentence; Inferring lexical and Contextual meaning, recognizing coherence and sequencing of sentences; Improving comprehension skills.</p> <p>3) Writing Skills : Sentence formation; Use of appropriate diction; Paragraph and Essay Writing; Coherence and Cohesion</p> | <b>11</b> |
| <b>Total Number of Lectures</b> |   | <b>45</b> |

  
**Head,**

Rayat Shikshan Sanstha's

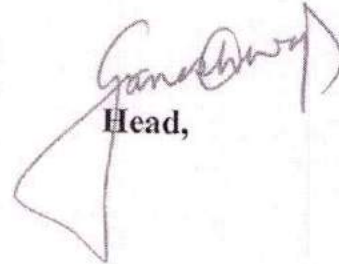
**Annasheb Awate College, Manchar.**

Department of English

Certificate Course in Communication Skills (2022-2023)

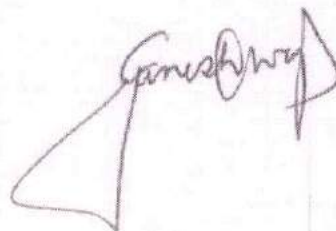
Time Table 2<sup>nd</sup> January to 31<sup>st</sup> March 2023

| Time                | Monday     | Tuesday      | Wednesday  | Thursday   |
|---------------------|------------|--------------|------------|------------|
| 12:30<br>to<br>1:30 | Wagh G. C. | Walunj S. S. | Dhone T.E. | More S. M. |

  
Head,

**Rayat Shikshan Sanstha's,**  
**Annasaheb Awate College Manchar**  
**Department of English**  
**Certificate Course in Communication Skills**  
**Short term Course (2022-23)**  
**List of Students enrolled**

| Sr.no. | Name of The Students.      |
|--------|----------------------------|
| 1      | Bambale Karan Machindra    |
| 2      | Bambale Pramila Ratnakar   |
| 3      | Dhindale Surekha Rewaji    |
| 4      | Dudhane Shital Rajendra    |
| 5      | Gawade Payal Vilas         |
| 6      | Ghule Prajakta Bhausahab   |
| 7      | Girange Purnima Sunil      |
| 8      | Gode Renuka Sitaram        |
| 9      | Gunjal Saiprasad Makrand   |
| 10     | Jumnake Komal Manohar      |
| 11     | Kale Kamal Ramdas          |
| 12     | Kambale Abhishek Narayan   |
| 13     | Kirve Vaishnavi Dagadu     |
| 14     | Memane Nirmla Bhagu        |
| 15     | Paradhi Maya Baban         |
| 16     | Rajgurav Saksh Chandrakant |
| 17     | Thigale Yadnesh Mangesh    |
| 18     | Totre Mohini Baban         |
| 19     | Vale Prajakta Suresh       |
| 20     | Varpe Sneha Santosh        |
| 21     | Zare Pallavi Madhavrao     |
| 22     | Shelake Varsha Vijay       |
| 23     | Jadhav Shivani Vaman       |





|     |                            | 02/01 | 03/01 | 04/01 | 05/01 | 09/01 | 10/01 | 11/01 | 12/01 | 16/01 | 17/01 | 18/01 | 19/01 | 23/01 | 24/01 |
|-----|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11. | Kale Kamal Ramdas          | P     | P     | P     | Ab    | P     | P     | Ab    | P     | P     | P     | P     | Ab    | P     | Ab    |
| 12. | Kambale Abhishek Narayan   | Ab    | Ab    | P     | P     | P     | P     | P     | Ab    | P     | P     | Ab    | P     | P     | P     |
| 13. | Kirve Vaishnavi Dagadu     | P     | P     | Ab    | Ab    | P     | P     | P     | P     | Ab    | P     | P     | Ab    | P     | P     |
| 14. | Memane Nirmala Bhagu       | P     | Ab    | P     | P     | P     | Ab    | P     | P     | P     | Ab    | P     | P     | P     | Ab    |
| 15. | Paradhi Maya Baban         | Ab    | P     | Ab    | P     | P     | P     | P     | P     | Ab    | Ab    | P     | P     | P     | Ab    |
| 16. | Rajgurav Saksh Chandrakant |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 17. | Thigale Yadnesh Mangesh    | Ab    | P     | P     | P     | P     | Ab    | P     | P     | P     | Ab    | P     | Ab    | P     | P     |
| 18. | Totre Mohini Baban         | P     | Ab    | P     | P     | P     | P     | Ab    | Ab    | P     | P     | P     | P     | Ab    | P     |
| 19. | Vale Prajakta Suresh       | Ab    | P     | P     | P     | P     | Ab    | P     | P     | P     | Ab    | P     | P     | P     | Ab    |
| 20. | Varpe Sneha Santosh        | P     | Ab    | P     | P     | P     | P     | Ab    | P     | P     | P     | Ab    | Ab    | P     | P     |
| 21. | Zare Pallavi Madhavrao     | P     | P     | Ab    | Ab    | P     | P     | P     | P     | P     | Ab    | P     | P     | P     | Ab    |
| 22. | Shelake Varsha Vijay       | Ab    | P     | P     | P     | Ab    | Ab    | P     | P     | Ab    | P     | P     | Ab    | P     | P     |
| 23. | Jadhav Shivani Vaman       | Ab    | Ab    | P     | P     | Ab    | P     | P     | P     | Ab    | P     | Ab    | P     | P     | P     |

Gandhi





|     |                            | 25/01 | 30/01 | 31/01 | 01/02 | 02/02 | 06/02 | 07/02 | 08/02 | 09/02 | 13/02 | 14/02 | 16/02 | 20/02 | 21/02 |
|-----|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 11. | Kale Kamal Ramdas          | P     | P     | Ab    | P     | P     | P     | Ab    | P     | P     | P     | P     | Ab    | P     | P     |
| 12. | Kambale Abhishek Narayan   | Ab    | Ab    | P     | P     | P     | Ab    | P     | P     | P     | P     | Ab    | P     | P     | P     |
| 13. | Kirve Vaishnavi Dagadu     | Ab    | P     | P     | P     | P     | Ab    | P     | P     | P     | Ab    | P     | P     | P     | P     |
| 14. | Memane Nirmala Bhagu       | P     | P     | P     | P     | Ab    | P     | P     | P     |       | P     | P     | P     | P     | P     |
| 15. | Paradhi Maya Baban         | P     | P     | P     | P     | P     | Ab    | P     | P     | P     | Ab    | P     | P     | P     | P     |
| 16. | Rajgurav Saksh Chandrakant |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 17. | Thigale Yadnesh Mangesh    | P     | Ab    | P     | P     | P     | Ab    | P     | P     | Ab    | P     | P     | P     | P     | P     |
| 18. | Totre Mohini Baban         | P     | P     | P     | P     | Ab    | P     | P     | P     | Ab    | P     | P     | P     | P     | P     |
| 19. | Vale Prajakta Suresh       | P     | P     | P     | Ab    | P     | P     | P     | P     | Ab    | P     | P     | P     | P     | P     |
| 20. | Varpe Sneha Santosh        | P     | P     | P     | P     | P     | Ab    | P     | P     | P     | P     | Ab    | P     | P     | P     |
| 21. | Zare Pallavi Madhavrao     | P     | P     | P     | P     | Ab    | P     | P     | P     | P     | Ab    | P     | P     | P     | P     |
| 22. | Shelake Varsha Vijay       | P     | P     | P     | Ab    | P     | P     | P     | P     | P     | Ab    | P     | P     | P     | P     |
| 23. | Jadhav Shivani Vaman       | P     | P     | Ab    | P     | P     | P     | P     | P     | Ab    | P     | P     | P     | P     | P     |

Ganesh Dwivedi



|     |                            | 22/02 | 23/02 | 27/02 | 28/02 | 01/03 | 02/03 | 06/03 | 09/03 | 13/03 | 14/03 | 15/03 | 16/03 | 20/03 | 21/03 |  |
|-----|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| 11. | Kale Kamal Ramdas          | P     | P     | P     | Ab    | P     | P     | P     | P     | Ab    | Ab    | P     | P     | P     | Ab    |  |
| 12. | Kambale Abhishek Narayan   | Ab    | P     | P     | P     | P     | Ab    | Ab    | P     | P     | P     | P     | Ab    | P     | P     |  |
| 13. | Kirve Vaishnavi Dagadu     | P     | P     | P     | P     | Ab    | P     | P     | P     | Ab    | P     | Ab    | P     | P     | P     |  |
| 14. | Memane Nirmala Bhagu       | Ab    | P     | P     | P     | P     | Ab    | P     | P     | P     | Ab    | P     | P     | P     | Ab    |  |
| 15. | Paradhi Maya Baban         | P     | P     | P     | P     | Ab    | P     | P     | P     | Ab    | Ab    | P     | P     | P     | Ab    |  |
| 16. | Rajgurav Saksh Chandrakant | <hr/> |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
| 17. | Thigale Yadnesh Mangesh    | Ab    | P     | P     | P     | Ab    | P     | P     | P     | P     | Ab    | Ab    | P     | P     | P     |  |
| 18. | Totre Mohini Baban         | P     | P     | P     | P     | Ab    | Ab    | P     | P     | P     | P     | P     | P     | Ab    | Ab    |  |
| 19. | Vale Prajakta Suresh       | Ab    | P     | P     | P     | P     | Ab    | P     | P     | P     | Ab    | P     | P     | P     | Ab    |  |
| 20. | Varpe Sneha Santosh        | P     | P     | P     | Ab    | P     | P     | P     | P     | P     | Ab    | Ab    | P     | Ab    | P     |  |
| 21. | Zare Pallavi Madhavrao     | Ab    | P     | P     | P     | P     | Ab    | P     | P     | Ab    | P     | P     | P     | P     | Ab    |  |
| 22. | Shelake Varsha Vijay       | P     | P     | P     |       | Ab    | P     | P     | P     | P     | Ab    | P     | P     | P     | P     |  |
| 23. | Jadhav Shivani Vaman       | Ab    | P     | P     | P     | P     | Ab    | P     | P     | P     | Ab    | Ab    | P     | P     | P     |  |

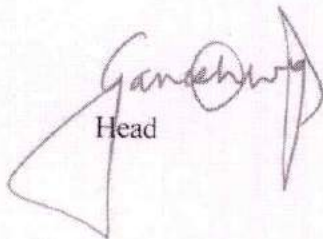
Ganesh Waj

**Rayat Shikshan Sanstha's,**  
**Annasaheb Awate College Manchar**  
**Department of English**  
**A Certificate Course in Communication Skills**  
**Short Term Course Report (2022-23)**

The department of English conducted the short term course '**A Certificate Course in Communication Skills**' for F.Y.B.A. students during the months of January- March 2023. Some of the aims and objectives of the short term course are as follows:

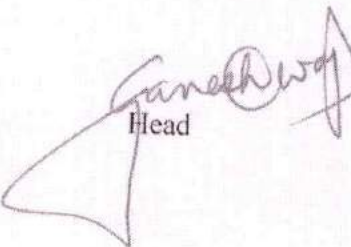
1. To help learners acquire the basic skills of effective listening, speaking, reading and writing
2. To introduce students to Spoken English
3. To create awareness about using language according to the situation/context
4. To create an awareness among students about mispronunciation
5. To reinforce grammar studied up to std. XII
6. To enhance employability of the students by developing their linguistic competence and communicative skills

All the faculty of the department conducted the lectures and arranged theoretical as well as practical sessions to inculcate the skills among the students. In total, **23** students were enrolled for the course. Out of them, **21** students appeared for the evaluative examinations in oral and written formats. After successful completion of the course, students were benefited with the certificates.

  
Head

Rayat Shikshan Sanstha's,  
Annasaheb Awate College Manchar  
Department of English  
Short term Course  
Certificate Course in Communication Skills  
2022-23  
RESULT

| Sr.no. | Name of The Students        | Class    | Oral Examination (Out of 50) | Online Written Examination (Out of 50) | Total Marks (100) | Grade |
|--------|-----------------------------|----------|------------------------------|--|-------------------|-------|
| 1      | Bambale Karan Machindra     | F.Y.B.A. | 32                           | 25                                     | 57                | B+    |
| 2      | Bambale Pramila Ratnakar    | F.Y.B.A. | 36                           | 28                                     | 64                | A     |
| 3      | Dhindale Surekha Rewaji     | F.Y.B.A. | 31                           | 30                                     | 61                | A     |
| 4      | Dudhane Shital Rajendra     | F.Y.B.A. | 38                           | 30                                     | 68                | A     |
| 5      | Gawade Payal Vilas          | F.Y.B.A. | 33                           | 29                                     | 62                | A     |
| 6      | Ghule Prajakta Bhausahab    | F.Y.B.A. | 41                           | 35                                     | 76                | A+    |
| 7      | Girange Purnima Sunil       | F.Y.B.A. | 36                           | 29                                     | 65                | A     |
| 8      | Gode Renuka Sitaram         | F.Y.B.A. | 28                           | 29                                     | 57                | B+    |
| 9      | Gunjal Saiprasad Makrand    | F.Y.B.A. | 26                           | 31                                     | 57                | B+    |
| 10     | Jumnake Komal Manohar       | F.Y.B.A. | AB                           | AB                                     | AB                | AB    |
| 11     | Kale Kamal Ramdas           | F.Y.B.A. | 37                           | 30                                     | 67                | A     |
| 12     | Kambale Abhishek Narayan    | F.Y.B.A. | 38                           | 32                                     | 70                | A+    |
| 13     | Kirve Vaishnavi Dagadu      | F.Y.B.A. | 26                           | 24                                     | 50                | B     |
| 14     | Memane Nirmala Bhagu        | F.Y.B.A. | 27                           | 25                                     | 52                | B     |
| 15     | Paradhi Maya Baban          | F.Y.B.A. | 30                           | 29                                     | 59                | B+    |
| 16     | Rajgurav Sakshi Chandrakant | F.Y.B.A. | AB                           | AB                                     | AB                | AB    |
| 17     | Thigale Yadnesh Mangesh     | F.Y.B.A. | 24                           | 26                                     | 50                | B     |
| 18     | Totre Mohini Baban          | F.Y.B.A. | 30                           | 25                                     | 55                | B+    |
| 19     | Vale Prajakta Suresh        | F.Y.B.A. | 27                           | 26                                     | 53                | B     |
| 20     | Varpe Sneha Santosh         | F.Y.B.A. | 36                           | 33                                     | 69                | A     |
| 21     | Zare Pallavi Madhavrao      | F.Y.B.A. | 24                           | 26                                     | 50                | B     |
| 22     | Shelake Varsha Vijay        | F.Y.B.A. | 27                           | 27                                     | 54                | B     |
| 23     | Jadhav Shivani Vaman        | F.Y.B.A. | 28                           | 29                                     | 57                | B+    |

  
 Head





**Rayat Shikshan Sanstha Satara**  
**Karmaveer Vidya Prabodhini**

# CERTIFICATE

This is to certify that Shri / Smt. \_\_\_\_\_

\_\_\_\_\_ (Class \_\_\_\_\_) of \_\_\_\_\_

\_\_\_\_\_ has successfully completed

a short term course in \_\_\_\_\_

Academic year 20 \_\_\_\_\_ 20 \_\_\_\_\_ ( From \_\_\_\_\_ To \_\_\_\_\_ ) and

secured \_\_\_\_\_ Grade.



रयत शिक्षण संस्थेचे,  
अण्णासाहेब आवटे महाविद्यालय, मंचर  
मराठी विभाग  
Short Term Course

रयत शिक्षण संस्थेच्या अण्णासाहेब आवटे महाविद्यालयातील मराठी विभागांतर्गत F.Y.B.A. या वर्गातील विद्यार्थ्यांसाठी 'पत्रकारिता' हा शॉर्ट टर्म कोर्स सुरू आहे. सदर कोर्स दि.01/08/2022 पासून प्रारंभ झाला आहे. सन 2022-23 मध्ये या कोर्सला 20 विद्यार्थी प्रवेशित झाले आहेत.


- १) २०२२-२३ मधील कोर्सचे नाव : पत्रकारिता
- २) अभ्यासक्रम :
- ३) एकूण क्रेडिट : १ क्रेडिट
- ४) अभ्यास मंडळ :  
प्रा. डॉ. सदाफळ व्ही. डी. (मुख्य समन्वयक)  
प्रा. मुठे आर.पी. (कोर्स समन्वयक)

- १) २०२२-२३ मधील कोर्सचे नाव : पत्रकारिता
- २) अभ्यासक्रम :
- ३) एकूण क्रेडिट : १ क्रेडिट
- ४) अभ्यास मंडळ :  
प्रा. डॉ. सदाफळ व्ही. डी. (मुख्य समन्वयक)  
प्रा. मुठे आर.पी. (कोर्स समन्वयक)

सोबत :

अभ्यासक्रमाची प्रत



  
मराठी विभागप्रमुख  
अण्णासाहेब आवटे महाविद्यालय,  
मंचर, पुणे.

रयत शिक्षण संस्थेचे,  
अण्णासाहेब आवटे कॉलेज मंचर, पुणे  
मराठी विभाग

लघु कालावधी प्रमाणपत्र अभ्यासक्रम अहवाल  
प्रारंभ - ०१ सप्टेंबर २०२२  
विद्यार्थी समाविष्ट - बी.ए. भाग -१  
अभ्यासक्रम स्थिती - ४५ तासिका नियमित सुरू  
अपेक्षित पूर्णता - फेब्रुवारी २०२३

वरीलप्रमाणे सद्यस्थिती असून सूचना होतील त्याप्रमाणे कार्यवाही करण्यात येईल.

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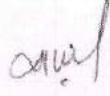


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मराठी विभाग प्रमुख  
अण्णासाहेब आवटे महाविद्यालय,  
मंचर, पुणे.


रयत शिक्षण संस्थेचे  
अण्णासाहेब आवटे कॉलेज मंचर, पुणे  
मराठी विभाग  
नोटीस

दि. २७/०८/२०२२

महाविद्यालयातील एफ. वाय. बी. ए. मधील ज्या विद्यार्थ्यांनी पत्रकारिता या short Term Course ला प्रवेश घेतला आहे. त्यांचे लेक्चर ०१/०९/२०२२ पासून सुरू होणार आहेत. तरी सर्व विद्यार्थ्यांनी तासाला नियमित उपस्थित राहावे.

  
शा. सु. शर. जी.



  
मराठी विभाग प्रमुख  
मराठी विभाग सहायक,  
अण्णासाहेब आवटे महाविद्यालय,  
मंचर, पुणे.

Rayat Shikshan Sanstha's,  
Annasaheb Awate college, Manchar.

मराठी विभाग

पत्रकारिता प्रमाणपत्र कोर्स

TIME-TABLE 2022-23

| TIME             | MON                        | TUE                    | WED                     | THURS                   | FRI                    | SAT                     |
|------------------|----------------------------|------------------------|-------------------------|-------------------------|------------------------|-------------------------|
| 12.00 to<br>1.00 | Prof. Dr.<br>Gardi<br>B.P. | Prof.<br>Muthe<br>R.P. | Prof.<br>Mundhe<br>G.D. | Prof. Dr.<br>Gardi B.P. | Prof.<br>Muthe<br>R.P. | Prof.<br>Mundhe<br>G.D. |

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पत्रकारिता प्रमाणपत्र कोर्स



*Handwritten signature*  
मराठी विभाग प्रमुख  
अण्णसाहेब अवाते शास्त्रिणी मराठी  
संघ, पुणे.

रयत शिक्षण संस्थेचे  
अण्णासाहेब आवटे महाविद्यालय, मंचर  
मराठी विभाग  
पत्रकारिता प्रमाणपत्र कोर्स अभ्यासक्रम

घटक अ - वृत्तसंकलन आणि वृत्तलेखन

०१. बातमीदाराचे गुणधर्म
०२. बातमी आणि बातमीमूल्य
०३. बातमी लेखन पद्धती
०४. बातमीचे प्रकार
०५. वृत्तसंकलनाची क्षेत्रे
०६. प्रिंट मीडिया आणि इलेक्ट्रॉनिक मीडिया ओळख  
(क्रेडीट १, व्याख्यान १५)

घटक ब - प्रात्यक्षिक

०१. बातमी लेखन
  - ०१.१. शैक्षणिक
  - ०१.२. कृषीविषयाक
  - ०१.३ राजकीय
  - ०१.४ संस्कृतिक
- ०२ . मोबाईल पत्रकारिता
०३. प्रिंट मीडिया आणि इलेक्ट्रॉनिक मीडिया (क्षेत्र भेट- मंचर)
०४. प्रिंट मीडियात प्रत्यक्ष बातमी लेखन  
(क्रेडीट१, प्रात्यक्षिक ४)

अभ्यासमंडळ

- प्रा. डॉ.जानेश्वर वाल्हेकर (बी.डी.कॉलेज, घोडेगाव)  
प्रा. डॉ. पुरुषोत्तम काळे (बी.डी.कॉलेज, घोडेगाव)  
प्रा. मुठे आर.पी. (कोर्स समन्वयक)

मराठी विभाग प्रमुख  
विभाग प्रमुख  
अण्णासाहेब आवटे महाविद्यालय,  
मंचर, पुणे.

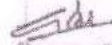


प्राचार्य

Rayat Shikshan Santha  
Annasaheb Awate college Manchar  
F.Y.B.A. 2022-2023  
Department of Marathi  
Short Term Course

| Roll No | ID       | Student Name             | Gender | Category | Phone No.  |
|---------|----------|--------------------------|--------|----------|------------|
| 1021    | 20227328 | CHAUGULE SAMIKSHA SANJAY | Female | OPEN     | 9970375488 |
| 1022    | 20227072 | CHAVARE VAIBHAV VIKAS    | Male   | OPEN     | 7058121864 |
| 1023    | 20227293 | DABHADE NILAM BABAN      | Female | ST       | 9370266954 |
| 1024    | 20227542 | DABHADE SUNIL KALURAM    | Male   | ST       | 9529915559 |
| 1025    | 20227347 | DABHADE VISHAL MANOHAR   | Male   | ST       | 7666586620 |
| 1026    | 20227538 | DAMASE ASHWINI YUVRAJ    | Female | ST       | 7499048521 |
| 1027    | 20227060 | DHENGALE BHAVIK DIGAMBAR | Male   | ST       | 9359075306 |
| 1028    | 20227034 | DHINDALE SUREKHA REWAJI  | Female | ST       | 9209120308 |
| 1029    | 20226928 | DUDHANE SHITAL RAJENDRA  | Female | ST       | 9511223282 |
| 1031    | 20227289 | GAVARI SANKET VITTHAL    | Male   | ST       | 8010141653 |
| 1032    | 20227706 | GAWADE PAYAL VILAS       | Female | OPEN     | 8010081645 |
| 1033    | 20227076 | GAWADE PRADIP RAJU       | Male   | ST       | 9322550047 |
| 1034    | 20227035 | GAWADE DATTA ASHOK       | Male   | ST       | 9657309566 |
| 1035    | 20227450 | GAWARI KOMAL SHANKAR     | Female | ST       | 8411871653 |
| 1036    | 20227534 | GENGAJE SWAPNIL VIJAY    | Male   | ST       | 9022799214 |
| 1037    | 20227059 | GHODE MAYUR RAMDAS       | Male   | ST       | 7822959194 |
| 1038    | 20227037 | GHODEKAR AVISHKAR SANJAY | Male   | OPEN     | 7821983633 |
| 1039    | 20227700 | GHULE PRAJAKTA BHAUSAHEB | Female | OPEN     | 8080003589 |
| 1040    | 20227540 | GHUTE GAYATRI KRUSHNA    | Female | ST       | 8830933703 |
| 1041    | 20227068 | GHUTE NARAYAN NAMDEV     | Male   | ST       | 9322760362 |



  
 वरवी विभाग प्रमुख  
 अण्णासाहेब आठटे महाविद्यालय,  
 मंघर, पुणे.

रयत शिक्षण संस्थेचे

अण्णासाहेब आवटे महाविद्यालय, मंचर

मराठी विभाग

Short Term Course : पत्रकारिता

Student Presenty Sheet 2022-23

Month : September

| Sr.No. | STUDENT NAME             | 01.09.2021 | 02.09.2021 | 03.09.2021 | 04.09.2021 | 05.09.2021 | 06.09.2021 | 07.09.2021 | 08.09.2021 | 09.09.2021 | 10.09.2021 | 11.09.2021 | 12.09.2021 | 13.09.2021 | 14.09.2021 | 15.09.2021 | 16.09.2021 | 17.09.2021 | 18.09.2021 | 19.09.2021 | 20.09.2021 | 21.09.2021 | 22.09.2021 | 23.09.2021 | 24.09.2021 | 25.09.2021 | 26.09.2021 | 27.09.2021 | 28.09.2021 | 29.09.2021 | 30.09.2021 |
|--------|--------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 1021   | CHAUGULE SAMIKSHA SANJAY | P          | P          | P          | P          | P          | P          | P          | P          | P          |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1022   | CHAVARE VAIBHAV VIKAS    | P          | P          |            | P          | P          | P          | P          | P          | P          |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1023   | DABHADE NILAM BABAN      | P          | P          |            | P          | P          | P          | P          | P          | P          |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1024   | DABHADE SUNIL KALURAM    | P          | P          |            | P          | P          | P          | P          | P          | P          |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1025   | DABHADE VISHAL MANOHAR   | P          | P          |            | P          | P          | P          | P          | P          | P          |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1026   | DAMASE ASHWINI YUVRAJ    | P          | P          |            | P          | P          | P          | P          | P          | P          |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1027   | DHENGALE BHAVIK DIGAMBAR | P          | P          |            | P          | P          | P          | P          | P          | P          |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1028   | DHINDALE SUREKHA REWAJI  | P          | P          |            | P          | P          | P          | P          | P          | P          |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1029   | DUDHANE SHITAL RAJENDRA  | P          | P          |            | P          | P          | P          | P          | P          | P          |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1031   | GAVARI SANKET VITTHAL    | P          | P          |            | P          | P          | P          | P          | P          | P          |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1032   | GAWADE PAYAL VILAS       | P          | P          |            | P          | P          | P          | P          | P          | P          |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1033   | GAWADE PRADIP RAJU       | P          | P          |            | P          | P          | P          | P          | P          | P          |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1034   | GAWADE DATTA ASHOK       | P          | P          |            | P          | P          | P          | P          | P          | P          |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1035   | GAWARI KOMAL SHANKAR     | P          | P          |            | P          | P          | P          | P          | P          | P          |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1036   | GENGAJE SWAPNIL VIJAY    | P          | P          |            | P          | P          | P          | P          | P          | P          |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1037   | GHODE MAYUR RAMDAS       | P          | P          |            | P          | P          | P          | P          | P          | P          |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1038   | GHODEKAR AVISHKAR SANJAY | P          | P          |            | P          | P          | P          | P          | P          | P          |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1039   | GHULE PRAJAKTA BHAUSAHEB | P          | P          |            | P          | P          | P          | P          | P          | P          |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1040   | GHUTE GAYATRI KRUSHNA    | P          | P          |            | P          | P          | P          | P          | P          | P          |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1041   | GHUTE NARAYAN NAMDEV     | P          | P          |            | P          | P          | P          | P          | P          | P          |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |

मा. मुख्यालय



मराठी विभाग प्रमुख  
अण्णासाहेब आवटे महाविद्यालय,



रयत शिक्षण संस्थेचे

अण्णासाहेब आवटे महाविद्यालय, मंजर

मराठी विभाग

Short Term Course : पत्रकारिता

Student Presenty Sheet 2022-23

Month : October

| Sr.No. | STUDENT NAME             | 01.10.2021 | 02.10.2021 | 03.10.2021 | 04.10.2021 | 05.10.2021 | 06.10.2021 | 07.10.2021 | 08.10.2021 | 09.10.2021 | 10.10.2021 | 11.10.2021 | 12.10.2021 | 13.10.2021 | 14.10.2021 | 15.10.2021 | 16.10.2021 | 17.10.2021 | 18.10.2021 | 19.10.2021 | 20.10.2021 | 21.10.2021 | 22.10.2021 | 23.10.2021 | 24.10.2021 | 25.10.2021 | 26.10.2021 | 27.10.2021 | 28.10.2021 | 29.10.2021 | 30.10.2021 | 31.10.2021 |
|--------|--------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 1021   | CHAUGULE SAMIKSHA SANJAY |            |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1022   | CHAVARE VAIBHAV VIKAS    |            |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1023   | DABHADE NILAM BABAN      |            |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1024   | DABHADE SUNIL KALURAM    |            |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1025   | DABHADE VISHAL MANOHAR   |            |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1026   | DAMASE ASHWINI YUVRAJ    |            |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1027   | DHENGALE BHAVIK DIGAMBAR |            |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1028   | DHINDALE SUREKHA REWAJI  |            |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1029   | DUDHANE SHITAL RAJENDRA  |            |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1031   | GAVARI SANKET VITTHAL    |            |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1032   | GAWADE PAYAL VILAS       |            |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1033   | GAWADE PRADIP RAJU       |            |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1034   | GAWADE DATTA ASHOK       |            |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1035   | GAWARI KOMAL SHANKAR     |            |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1036   | GENGAJE SWAPNIL VIJAY    |            |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1037   | GHODE MAYUR RAMDAS       |            |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1038   | GHODEKAR AVISHKAR SANJAY |            |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1039   | GHULE PRAJAKTA BHAUSAHEB |            |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1040   | GHUTE GAYATRI KRUSHNA    |            |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |
| 1041   | GHUTE NARAYAN NAMDEV     |            |            | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          | P          |

मा. गुं. आर. सी.



मराठी विभाग प्रमुख  
अण्णासाहेब आवटे महाविद्यालय,  
मंजर, पुणे.

| रयत शिक्षण संस्थेचे                |          |                          |                 |
|------------------------------------|----------|--------------------------|-----------------|
| अण्णासाहेब आवटे महाविद्यालय, मंचर  |          |                          |                 |
| मराठी विभाग                        |          |                          |                 |
| Short Term Course : पत्रकारिता     |          |                          |                 |
| Student Examination Presenty Sheet |          |                          |                 |
| Sr.No.                             | Roll No. | STUDENT NAME             | SIGN            |
| 1                                  | 1021     | CHAUGULE SAMIKSHA SANJAY | <i>Samiksha</i> |
| 2                                  | 1022     | CHAVARE VAIBHAV VIKAS    | <i>Vaibhav</i>  |
| 3                                  | 1023     | DABHADE NILAM BABAN      | <i>Nilam</i>    |
| 4                                  | 1024     | DABHADE SUNIL KALURAM    | <i>Sunil</i>    |
| 5                                  | 1025     | DABHADE VISHAL MANOHAR   | <i>Vishal</i>   |
| 6                                  | 1026     | DAMASE ASHWINI YUVRAJ    | <i>Ashwini</i>  |
| 7                                  | 1027     | DHENGALE BHAVIK DIGAMBAR | <i>Bhavik</i>   |
| 8                                  | 1028     | DHINDALE SUREKHA REWAJI  | <i>Surekha</i>  |
| 9                                  | 1029     | DUDHANE SHITAL RAJENDRA  | <i>Shital</i>   |
| 10                                 | 1031     | GAVARI SANKET VITTHAL    | <i>Sanket</i>   |
| 11                                 | 1032     | GAWADE PAYAL VILAS       | <i>Payal</i>    |
| 12                                 | 1033     | GAWADE PRADIP RAJU       | <i>Pradip</i>   |
| 13                                 | 1034     | GAWADE DATTA ASHOK       | <i>Datta</i>    |
| 14                                 | 1035     | GAWARI KOMAL SHANKAR     | <i>Komal</i>    |
| 15                                 | 1036     | GENGAJE SWAPNIL VIJAY    | <i>Swapnil</i>  |
| 16                                 | 1037     | GHODE MAYUR RAMDAS       | <i>Mayur</i>    |
| 17                                 | 1038     | GHODEKAR AVISHKAR SANJAY | <i>Avishkar</i> |
| 18                                 | 1039     | GHULE PRAJAKTA BHAUSAHEB | <i>Prajakta</i> |
| 19                                 | 1040     | GHUTE GAYATRI KRUSHNA    | <i>Gayatri</i>  |
| 20                                 | 1041     | GHUTE NARAYAN NAMDEV     | <i>Narayan</i>  |

*सुनील*  
मा. सु. भार. व. र.

| रयत शिक्षण संस्थेचे                |          |                          |                    |
|------------------------------------|----------|--------------------------|--------------------|
| अण्णासाहेब आवटे महाविद्यालय, मंचर  |          |                          |                    |
| मराठी विभाग                        |          |                          |                    |
| Short Term Course : पत्रकारिता     |          |                          |                    |
| Student Examination Presenty Sheet |          |                          |                    |
| Sr.No.                             | Roll No. | STUDENT NAME             | SIGN               |
| 1                                  | 1021     | CHAUGULE SAMIKSHA SANJAY | <i>[Signature]</i> |
| 2                                  | 1022     | CHAVARE VAIBHAV VIKAS    | <i>[Signature]</i> |
| 3                                  | 1023     | DABHADE NILAM BABAN      | <i>N. Dabade</i>   |
| 4                                  | 1024     | DABHADE SUNIL KALURAM    | <i>[Signature]</i> |
| 5                                  | 1025     | DABHADE VISHAL MANOHAR   | <i>[Signature]</i> |
| 6                                  | 1026     | DAMASE ASHWINI YUVRAJ    | <i>[Signature]</i> |
| 7                                  | 1027     | DHENGALE BHAVIK DIGAMBAR | <i>[Signature]</i> |
| 8                                  | 1028     | DHINDALE SUREKHA REWAJI  | <i>[Signature]</i> |
| 9                                  | 1029     | DUDHANE SHITAL RAJENDRA  | <i>[Signature]</i> |
| 10                                 | 1031     | GAVARI SANKET VITTHAL    | <i>[Signature]</i> |
| 11                                 | 1032     | GAWADE PAYAL VILAS       | <i>[Signature]</i> |
| 12                                 | 1033     | GAWADE PRADIP RAJU       | <i>[Signature]</i> |
| 13                                 | 1034     | GAWADE DATTA ASHOK       | <i>[Signature]</i> |
| 14                                 | 1035     | GAWARI KOMAL SHANKAR     | <i>Komal G.S</i>   |
| 15                                 | 1036     | GENGAJE SWAPNIL VIJAY    | <i>[Signature]</i> |
| 16                                 | 1037     | GHODE MAYUR RAMDAS       | <i>[Signature]</i> |
| 17                                 | 1038     | GHODEKAR AVISHKAR SANJAY | <i>G. A. S</i>     |
| 18                                 | 1039     | GHULE PRAJAKTA BHAUSAHEB | <i>P.Ba</i>        |
| 19                                 | 1040     | GHUTE GAYATRI KRUSHNA    | <i>[Signature]</i> |
| 20                                 | 1041     | GHUTE NARAYAN NAMDEV     | <i>[Signature]</i> |

*[Signature]*  
सा. मु. म. र. जी.

*Rayat Shikshan Sanstha's*  
**Annasaheb Awate College, Manchar, Pune**  
**Department of Marathi**  
**Short Term Course - Patrkarita**  
**Marksheet- 2022-23**

| Sr. No. | Roll No. | Name of the Students     | Grade |
|---------|----------|--------------------------|-------|
| 1       | 1021     | CHAUGULE SAMIKSHA SANJAY | B     |
| 2       | 1022     | CHAVARE VAIBHAV VIKAS    | B     |
| 3       | 1023     | DABHADE NILAM BABAN      | A     |
| 4       | 1024     | DABHADE SUNIL KALURAM    | A     |
| 5       | 1025     | DABHADE VISHAL MANOHAR   | B     |
| 6       | 1026     | DAMASE ASHWINI YUVRAJ    | B     |
| 7       | 1027     | DHENGALE BHAVIK DIGAMBAR | A     |
| 8       | 1028     | DHINDALE SUREKHA REWAJI  | B     |
| 9       | 1029     | DUDHANE SHITAL RAJENDRA  | A     |
| 10      | 1031     | GAVARI SANKET VITTHAL    | B     |
| 11      | 1032     | GAWADE PAYAL VILAS       | A     |
| 12      | 1033     | GAWADE PRADIP RAJU       | B     |
| 13      | 1034     | GAWADE DATTA ASHOK       | B     |
| 14      | 1035     | GAWARI KOMAL SHANKAR     | B     |
| 15      | 1036     | GENGAJE SWAPNIL VIJAY    | A     |
| 16      | 1037     | GHODE MAYUR RAMDAS       | A     |
| 17      | 1038     | GHODEKAR AVISHKAR SANJAY | B     |
| 18      | 1039     | GHULE PRAJAKTA BHAUSAHEB | A     |
| 19      | 1040     | GHUTE GAYATRI KRUSHNA    | B     |
| 20      | 1041     | GHUTE NARAYAN NAMDEV     | B     |

*सवि*  
श्री. सुदेवराव

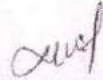


*सवि*  
अण्णसाहेब आवाटे महाविद्यालय  
Department of Marathi  
मंजर, पुणे.


रयत शिक्षण संस्थेचे  
अण्णासाहेब आवटे महाविद्यालय, मंचर  
मराठी विभाग

Report Of Short Term Course : 2022-23

रयत शिक्षण संस्थेच्या अण्णासाहेब आवटे महाविद्यालयातील मराठी विभागांतर्गत F.Y.B.A. या वर्गातील विद्यार्थ्यांसाठी 'पत्रकारिता' हा Short Term Course दिनांक 01/09/2022 ते 30/11/2023 पर्यंत कोर्स कालावधी असून सदर कोर्ससाठी F.Y.B.A. च्या वर्गातील हजेरी क्रमांक 1020 ते 1041 असे एकूण 20 विद्यार्थी या वर्षी या कोर्सला प्रविष्ट आहेत. संबंधित कोर्सच्या तसिका विभागातील प्राध्यापकांनी नियमितपणे घेऊन अभ्यासक्रम पूर्ण केलेला आहे.

  
कोर्स समन्वयक  
(प्रा.मुठे आर.पी.)



  
प्राचार्य  
(अ.अ.कॉलेज,मंचर)

Rayat Shikshan Sanstha's  
**Annasaheb Awate College, Manchar, Pune**  
**Department of Marathi**  
**Short Term Course**  
पत्रकारिता प्रमाणपत्र कोर्स  
**Annual Report 2022-23**

Department of Marathi had started certificate course in Journalism from academic year 2022-23. Above course was started for the students of first year of B.A.

To fulfill the aims and objectives of course, in this academic year twenty students were admitted for course. Out of that eight girls and twelve boys were admitted. After success completion of course twenty students were evaluated by exam. Certificates have been given to all passed students.

*[Handwritten Signature]*  
प्रा. सुठे आर जी




*[Handwritten Signature]*  
बराठी विभाग प्रमुख  
अभियांत्रिकी शाखा, मराठी  
मंथर, पुणे.

Rayat Shikshan Sanstha's  
**Annasaheb Awate Art's Commerce Hutatma Babu Genu Science  
College, Manchar, Pune  
Department of Political Science  
Short Term Course  
Certificate Course of Human Rights**

**Annual Report 2022-23**

Department of Political Science had started certificate course in Human Rights from academic year 2022-23. Above course was started for the students of first year to inculcate the Human Rights among them.

To fulfill the aims and objectives of course, in this academic year 20 students were admitted for course. Out of that 12 girls and 8 boys were admitted. After successful completion of course students were evaluated by exam. Certificates have been given to passed students.

  
**Head**  
**Dept. of Politics**  
A. A. College, Manchar

*Rayat Shikshan Sanstha's,*

**AnnasahebAwateArts, Commerce & HutatmaBabu Genu Science college,  
Manchar Tal- AmbegaoDist- Pune**

**Department of Political Science**

**Certificate Course of Human Rights**

**TIME-TABLE 2022-23**

**(30 Hrs)**

| <b>TIME</b>       | <b>MON</b>      | <b>TUE</b>      | <b>WED</b>      | <b>THURS</b> | <b>FRI</b>      | <b>SAT</b>      |
|-------------------|-----------------|-----------------|-----------------|--------------|-----------------|-----------------|
| 11.00 to<br>12.00 | Human<br>Rights | Human<br>Rights | Human<br>Rights | Human Rights | Human<br>Rights | Human<br>Rights |

**Name of the Faculty  
Prof. M. G. Gunjal**

**Head  
Dept. of Politics  
A. A. College, Manchar**



**Rayat Shikshan Sanstha's,**  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science college,**  
**Manchar Tal- Ambegao Dist- Pune**  
**Department of Political Science**  
**Certificate Course of Human Rights**  
**Syllabus 2022-23**  
**Certificate Course in Human Rights**

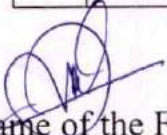
**Total Credit-02**

|   |           |
|---|-----------|
| <b>UNIT-I:- Human Rights: History, Concept &amp; Theory</b> | <b>10</b> |
| a) Meaning & Nature   |           |
| b) Origin & Development                                     |           |
| c) Types of Human Rights                                    |           |
| <b>UNIT-II: U.N. &amp; Human Rights</b>                     | <b>10</b> |
| a) Universal Declaration of Human Rights                    |           |
| b) Human Rights Council                                     |           |
| c) Role of UNO In Human Rights                              |           |
| <b>UNIT-III: - India &amp; Human Rights</b>                 | <b>05</b> |
| a) Indian Constitution: Provisions of Human Rights          |           |
| b) Protection of Human Rights Act 1993                      |           |
| c) National Commission for Minorities                       |           |
| <b>UNIT-IV:- Issues in Human Rights</b>                     | <b>05</b> |
| a) Women  |           |
| b) Dalit  |           |
| c) Minority   |           |

**Head**  
**Dept. of Politics**  
**A. A. College, Manchar**

*Rayat Shikshan Sanstha's*  
**Annasaheb Awate Art's, Commerce & Hutatma Babu Genu Science College,**  
**Manchar, Pune**  
**Department of Political Science**  
**Short Term Course Human Rights**  
**Mark sheet- 2022-23**

| Sr. No. | Roll No. | Name of the Students           | Marks<br>30 |
|---------|----------|--------------------------------|-------------|
| 1       | 1061     | KUNJIR SIDDHI SADANAND         | 21          |
| 2       | 1062     | LANGHI DIGAMBAR VISHNU         | 22          |
| 3       | 1063     | LANGHI VISHAL TAWJI            | 21          |
| 4       | 1064     | MAGHADE ARTI VILAS             | 23          |
| 5       | 1065     | MALI ASHWINI BUDDHA            | 23          |
| 6       | 1066     | MANKAR SHRUTI SANDIP           | 25          |
| 7       | 1067     | MARADE RUPALI NIVRUTTI         | 24          |
| 8       | 1068     | MAVKAR SAKSHI JAYSING          | 22          |
| 9       | 1069     | MECHAKAR NIKITA ARUN           | 25          |
| 10      | 1070     | MEMANE NIRMALA BHAGU           | 23          |
| 11      | 1071     | MIDAGULE RUSHIKESH KALURAM     | 24          |
| 12      | 1072     | MOHITEE PRITI RAJARAM          | 24          |
| 13      | 1073     | MUTHE ROHAN BUDHAJI            | 24          |
| 14      | 1074     | NIGHOT DHANESH BABAJI          | 23          |
| 15      | 1075     | PARADHI AKSHAY EKNATH          | 23          |
| 16      | 1076     | PARADHI MAYA BABAN             | 25          |
| 17      | 1077     | PARADHI TANUJA CHANDRAKANT     | 23          |
| 18      | 1078     | PINGALE SUSHANT BARKU          | 22          |
| 19      | 1079     | PINGALE VISHAL VISHWAS         | 23          |
| 20      | 1080     | PINGALE DNYANESHVARI DATTATRAY | AB          |

  
Name of the Faculty  
Prof. T. Y. Randive

**Head**  
**Dept. of Politics**  
A. A. College, Manchar

Rayat Shikshsan Sanstha's

**ANNASAHEB AWATE ARTS, COMMERCE AND HUTATMA  
BABU GENU SCIENCE COLLEGE, MANCHAR**

**Department of BBA(CA)  
Certificate Course 2022-23  
Name of Course- Cyber Law**

**NOTICE**

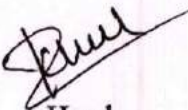
Date: 27 Oct 2022

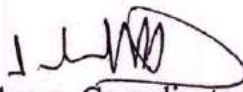
All the student of F. Y. B. B.A (CA) are hereby informed that Department of BBA(CA) will be start **Certificate Course in Cyber Law** from a date 31th October 2022.

The schedule of the lecture has been attached herewith for your kind information. All students should present in time. Please note.

**Note:**


1. Class : F.Y.BBA(CA)
2. Duration of Course: 30 Hrs.
3. Lecture Time : Theory- Monday To Saturday 1.00 pm to 2.00 pm

  
Head

  
Course Co-ordinator

**H.O.D.**  
BBA(CA) Department  
A.A.College, Manchar 410503



  
**PRINCIPAL**  
ANNASAHEB AWATE COLLEGE  
MANCHAR. (DIST.PUNE)

Rayat Shikshan Santha's  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science  
College, Manchar**

**Department –BBA(CA)**

**Report on Short Term**

**Name of Course:** Cyber Law

**Date:** 31<sup>st</sup> October 2022

**Duration:** 30 Hrs.

**Expert:** Prof. Chaskar R. R. & Prof. Bhagat D. M.

**No of Beneficiary:** 83

The Short Term Course on “Cyber Law” was organized by BBA-CA Department under the Guidance of principal Dr. K. G. Kanade. The talk was given by Prof Chaskar R. R. & Prof. Bhagat D. M. It was organized with the focus to transfer the knowledge on higher education, directly from the people who mastered the current requirements of the industry to the grooming students of BBA-CA.

  
H.O.D.

BBA(CA) Department  
A.A.College, Manchar 410 503

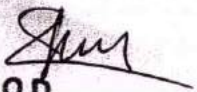






|      |                           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
|------|---------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 3668 | SHELKE JUI RAJARAM        | <del>Shelke</del>     | <del>Shelke</del>     | <del>Shelke</del>     | <del>Shelke</del>     | <del>Shelke</del>     | <del>Shelke</del>     | <del>Shelke</del>     | <del>Shelke</del>     | <del>Shelke</del>     | <del>Shelke</del>     |
| 3669 | SHINDE SAMIKSHA MANGESH   | <del>Shinde</del>     | <del>Shinde</del>     | <del>Shinde</del>     | <del>Shinde</del>     | <del>Shinde</del>     | <del>Shinde</del>     | <del>Shinde</del>     | <del>Shinde</del>     | <del>Shinde</del>     | <del>Shinde</del>     |
| 3670 | SHINDE SANSKRUTI SANTOSH  | <del>Shinde</del>     | <del>Shinde</del>     | <del>Shinde</del>     | <del>Shinde</del>     | <del>Shinde</del>     | <del>Shinde</del>     | <del>Shinde</del>     | <del>Shinde</del>     | <del>Shinde</del>     | <del>Shinde</del>     |
| 3671 | SHINDE VRUSHALI BHAUSAHEB |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| 3672 | SHINGTE VISHAL MACHHINDRA | Vishal                | Vishal                | Vishal                | Vishal                | Vishal                | Vishal                | Vishal                | Vishal                | Vishal                | Vishal                |
| 3673 | SHINOLIKAR PRATIKSHA BALU | <del>Shinolikar</del> | <del>Shinolikar</del> | <del>Shinolikar</del> | <del>Shinolikar</del> | <del>Shinolikar</del> | <del>Shinolikar</del> | <del>Shinolikar</del> | <del>Shinolikar</del> | <del>Shinolikar</del> | <del>Shinolikar</del> |
| 3674 | SOLAT SAHIL SUBHASH       |                       |                       |                       |                       |                       |                       |                       |                       | AB                    |                       |
| 3675 | SUPEKAR SUSHANT VIKAS     | <del>Supekar</del>    | <del>Supekar</del>    | <del>Supekar</del>    | <del>Supekar</del>    | <del>Supekar</del>    | <del>Supekar</del>    | <del>Supekar</del>    | <del>Supekar</del>    | <del>Supekar</del>    | <del>Supekar</del>    |
| 3677 | TEMKAR SIDDHESH SHIVAJI   | AB                    | AB                    | AB                    | AB                    | AB                    | AB                    | AB                    |                       |                       |                       |
| 3678 | THORAT TANMAY POPAT       | <del>Thorat</del>     | <del>Thorat</del>     | <del>Thorat</del>     | <del>Thorat</del>     | <del>Thorat</del>     | <del>Thorat</del>     | <del>Thorat</del>     | <del>Thorat</del>     | <del>Thorat</del>     | <del>Thorat</del>     |
| 3679 | THORAT ANISH MARUTI       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| 3680 | TODKAR AZAD RAVINDRA      | AB                    |                       |                       |                       | AB                    |                       | AB                    |                       | AB                    | AB                    |
| 3681 | UNDE OMKAR BALU           | AB                    | AB                    | AB                    | AB                    |                       |                       |                       |                       | AB                    |                       |
| 3682 | VARHADI SHRUSHTI PRADEEP  | SR                    | SR                    | SR                    | SR                    | SR                    | SR                    | SR                    | SR                    | SR                    | SR                    |
| 3683 | WALASE MONIKA DINESH      | <del>Walase</del>     | <del>Walase</del>     | <del>Walase</del>     | <del>Walase</del>     | <del>Walase</del>     | <del>Walase</del>     | <del>Walase</del>     | <del>Walase</del>     | <del>Walase</del>     | <del>Walase</del>     |
| 3684 | WAYKAR PURVA PRAMOD       | <del>Waykar</del>     | <del>Waykar</del>     | <del>Waykar</del>     | <del>Waykar</del>     | <del>Waykar</del>     | <del>Waykar</del>     | <del>Waykar</del>     | <del>Waykar</del>     | <del>Waykar</del>     | <del>Waykar</del>     |
| 3685 | ZODAGE SANKET NARAYAN     | <del>Zodage</del>     | <del>Zodage</del>     | <del>Zodage</del>     | <del>Zodage</del>     | <del>Zodage</del>     | <del>Zodage</del>     | <del>Zodage</del>     | <del>Zodage</del>     | <del>Zodage</del>     | <del>Zodage</del>     |
| 3686 | HAKIM MUZAMMIL NAZIM      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| 3687 | SHINDE NAMRATA BALU       | <del>Shinde</del>     | <del>Shinde</del>     | <del>Shinde</del>     | <del>Shinde</del>     | <del>Shinde</del>     | <del>Shinde</del>     | <del>Shinde</del>     | <del>Shinde</del>     | <del>Shinde</del>     | <del>Shinde</del>     |
| 3688 | NIGHOT SAKSHI BALASAHEB   | <del>Nighot</del>     | <del>Nighot</del>     | <del>Nighot</del>     | <del>Nighot</del>     | <del>Nighot</del>     | <del>Nighot</del>     | <del>Nighot</del>     | <del>Nighot</del>     | <del>Nighot</del>     | <del>Nighot</del>     |
| 3689 | PINGALE SNEHA SANTOSH     | <del>Pingale</del>    | <del>Pingale</del>    | <del>Pingale</del>    | <del>Pingale</del>    | <del>Pingale</del>    | <del>Pingale</del>    | <del>Pingale</del>    | <del>Pingale</del>    | <del>Pingale</del>    | <del>Pingale</del>    |
| 3690 | HINGE SHWETA BHIKAJI      | <del>Hinge</del>      | <del>Hinge</del>      | <del>Hinge</del>      | <del>Hinge</del>      | <del>Hinge</del>      | <del>Hinge</del>      | <del>Hinge</del>      | <del>Hinge</del>      | <del>Hinge</del>      | <del>Hinge</del>      |
| 3691 | GAWARI SAYALI SANTOSH     | <del>Sayali</del>     | <del>Sayali</del>     | <del>Sayali</del>     | <del>Sayali</del>     | <del>Sayali</del>     | <del>Sayali</del>     | <del>Sayali</del>     | <del>Sayali</del>     | <del>Sayali</del>     | <del>Sayali</del>     |
| 3692 | SHENDE SAI SUNIL          |                       |                       |                       | AB                    |                       |                       |                       |                       | AB                    |                       |



  
 H.O.D.  
 BBA(CA) Department  
 A.A.College, Manchar 410 503

Rayat Shikshsan Sanstha's

**ANNASAHEB AWATE ARTS, COMMERCE AND HUTATMA  
BABU GENU SCIENCE COLLEGE, MANCHAR**

Tal- Ambegaon, Dist- Pune-410503

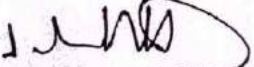
Certificate Course 2022-23


**Department of BBA(CA)**

**EXAM NOTICE**

**Date:18/02/2023**

All student of F.Y.BBA(CA) are hereby informed that the Short Term Course Exam on "Cyber Law" organized on date 25/02/2023. All the students of this course should remain present for the exam. It is mandatory for all enrolled students.

  
Course Co-ordinator

  
H.O.D.  
BBA(CA) Department  
A.A.College, Manchar 410 503





Rayat Shikshsan Sanstha's

ANNASAHEB AWATE ARTS, COMMERCE AND HUTATMA BABU GENU SCIENCE  
COLLEGE, MANCHAR

Department of BBA(CA)

Short Term Course - 2022-23  
Certificate Course in Cyber Law  
Exam Attendance

Class : F.Y.BBA(CA)

Date:25/02/2023

| Sr. No | Roll No. | Name of Student           | Signature |
|--------|----------|---------------------------|-----------|
| 1      | 3601     | ARGADE MANASI RAJENDRA    |           |
| 2      | 3602     | ATAR SIDDHI DATTATRAY     |           |
| 3      | 3603     | BARAVKAR SHWETA SANDIP    |           |
| 4      | 3604     | BHAGAT SHRAVANI BABAN     |           |
| 5      | 3605     | BHEKE SANIYA SUNIL        |           |
| 6      | 3606     | BHONDAVE ROHAN NANDKUMAR  |           |
| 7      | 3607     | BHOR ADITI UTTAM          |           |
| 8      | 3609     | BHOR SIDDHI BABAJI        |           |
| 9      | 3610     | BHOR ANUJA SUBHASH        |           |
| 10     | 3611     | BHOSALE SIDDHESH BABAN    |           |
| 11     | 3612     | BHOSALE VAIBHAVI MANGESH  |           |
| 12     | 3613     | CHASKAR GAURI BHANUDAS    |           |
| 13     | 3614     | CHAUHAN ABHISHEK SAHABLAL |           |
| 14     | 3615     | CHIKHALE ANUJA SHIVAJI    |           |
| 15     | 3616     | DAS PRIYA RAMCHANDRA      |           |
| 16     | 3617     | DATKHILE SUSHAMA VISHAL   |           |
| 17     | 3618     | DHONGE RUTUJA BALU        |           |
| 18     | 3619     | DHUMAL SAKSHI NANDKUMAR   |           |
| 19     | 3620     | DHUMAL SAMRUDDHI ANIL     |           |

|    |      |                          |                  |
|----|------|--------------------------|------------------|
| 20 | 3621 | DOKE ANUJ MAHENDRA       | <u>Andoke</u>    |
| 21 | 3622 | GADE ANAMIKA ANIL        |                  |
| 22 | 3623 | GADE YASH SUNIL          |                  |
| 23 | 3624 | GADHAVE GAURI SHARAD     | <u>Ggadhave</u>  |
| 24 | 3625 | GAIKWAD VAISHNAVI SANDIP | <u>Perikwad</u>  |
| 25 | 3626 | GANDHI PIYUSH DEEPAK     | AB               |
| 26 | 3627 | GAVALI AKASH ARUN        | <u>Gavali</u>    |
| 27 | 3628 | GAWADE VAISHNAVI LAXMAN  | <u>Gawade</u>    |
| 28 | 3629 | GODSE VAIBHAVI DATTATRAY | AB               |
| 29 | 3630 | GUNJAL PRANIT BAPUSAHEB  | <u>Gunjal</u>    |
| 30 | 3631 | GUPTA AKASH VIRENDRA     | <u>Gupta</u>     |
| 31 | 3632 | HINGE ADESH PRABHAKAR    | <u>Hinge</u>     |
| 32 | 3633 | INDORE PRANJAL SWAPNIL   | <u>Indore</u>    |
| 33 | 3634 | JADHAV DARSHAN JAYSING   | <u>Jadhav</u>    |
| 34 | 3635 | JADHAV PIYUSH SANTOSH    | <u>Jadhav</u>    |
| 35 | 3636 | KAHADANE SHRADDHA SANDIP | <u>Kahadane</u>  |
| 36 | 3637 | KALE PRACHI MOHAN        | <u>Kale</u>      |
| 37 | 3638 | KALE YASH ANIL           | <u>Kale Yash</u> |
| 38 | 3639 | KANADE VAIBHAVI VILAS    | <u>Kanade</u>    |
| 39 | 3640 | KATHE KANCHAN MAHADEV    | <u>Kathe</u>     |
| 40 | 3641 | KHAMKAR OMKAR VILAS      | <u>Khamkar</u>   |
| 41 | 3642 | KHANDESHE SAMRUDDHI ANIL | <u>Khandeshe</u> |
| 42 | 3643 | KHILARI SAKSHI SANTOSH   | <u>Khilari</u>   |
| 43 | 3644 | KUDALE POOJA DNYANESHWAR |                  |
| 44 | 3645 | LOHAKARE ROHIT SURESH    | <u>Lohakare</u>  |
| 45 | 3647 | LONDHE SAKSHI SANTOSH    | <u>Londhe</u>    |
| 46 | 3648 | MAUSKAR YASH YOGESH      | <u>Mauskar</u>   |
| 47 | 3649 | MENGADE BHUMIKA KAILAS   | <u>Mengade</u>   |
| 48 | 3650 | MHASKE ROHIT BABAJI      | <u>Mhaske</u>    |
| 49 | 3651 | MULE SAHIL SHARAD        | <u>Mule</u>      |

|    |      |                           |                   |
|----|------|---------------------------|-------------------|
| 50 | 3652 | NAVLE SAKSHI BABAN        | <u>Navle</u>      |
| 51 | 3653 | NIGHOT SAYALI BALASAHEB   | <u>Sayali</u>     |
| 52 | 3654 | NIGHOT VAISHNAVI NITIN    | <u>Nighot</u>     |
| 53 | 3655 | NIGHUT SANKALP DATTATRAY  | <u>Nighut</u>     |
| 54 | 3656 | PADWAL SAKSHI PRAVIN      | <u>Padwal</u>     |
| 55 | 3657 | PADWAL SARTHAK ANIL       | <u>Padwal</u>     |
| 56 | 3658 | PALEKAR ANISHA SANJAY     | <u>Anisha</u>     |
| 57 | 3659 | PALGHADMAL VARSHA ASHOK   | AB                |
| 58 | 3661 | PINGALE SUJAL SUDAM       | <u>Sujal</u>      |
| 59 | 3662 | POKHARKAR AVIRAJ LAXMAN   | <u>Aviraj</u>     |
| 60 | 3663 | POKHARKAR DISHA VILAS     | <u>Disha</u>      |
| 61 | 3664 | POKHARKAR SAKSHI SUDHIR   | <u>Sakshi</u>     |
| 62 | 3665 | POKHARKAR SHUBHAM SANTOSH | <u>Shubham</u>    |
| 63 | 3666 | RAKSHE ROHAN SANTOSH      | <u>Rakhe</u>      |
| 64 | 3667 | SAWANT SNEHAL MANGESH     | <u>Snehal</u>     |
| 65 | 3668 | SHELKE JUI RAJARAM        | <u>Jui</u>        |
| 66 | 3669 | SHINDE SAMIKSHA MANGESH   | <u>Samiksha</u>   |
| 67 | 3670 | SHINDE SANSKRUTI SANTOSH  | <u>Sanskriti</u>  |
| 68 | 3671 | SHINDE VRUSHALI BHAUSAHEB | AB                |
| 69 | 3672 | SHINGTE VISHAL MACHHINDRA | <u>Shingte</u>    |
| 70 | 3673 | SHINOLIKAR PRATIKSHA BALU | <u>Pratiksha</u>  |
| 71 | 3674 | SOLAT SAHIL SUBHASH       | <u>Solat</u>      |
| 72 | 3675 | SUPEKAR SUSHANT VIKAS     | <u>Supekar</u>    |
| 73 | 3677 | TEMKAR SIDDHESH SHIVAJI   | <u>T. Sippesh</u> |
| 74 | 3678 | THORAT TANMAY POPAT       | <u>Thorat</u>     |
| 75 | 3679 | THORAT ANISH MARUTI       | <u>Thorat</u>     |
| 76 | 3680 | TODKAR AZAD RAVINDRA      | <u>Todkar</u>     |
| 77 | 3681 | UNDE OMKAR BALU           | <u>Unde</u>       |
| 78 | 3682 | VARHADI SHRUSHTI PRADEEP  | <u>Varhadi</u>    |
| 79 | 3683 | WALASE MONIKA DINESH      | <u>Walase</u>     |

|    |      |                         |                         |
|----|------|-------------------------|-------------------------|
| 80 | 3684 | WAYKAR PURVA PRAMOD     | <i>Waykar</i>           |
| 81 | 3685 | ZODAGE SANKET NARAYAN   | <i>Zodage</i>           |
| 82 | 3686 | HAKIM MUZAMMIL NAZIM    | AB                      |
| 83 | 3687 | SHINDE NAMRATA BALU     | <i>Shinde</i>           |
| 84 | 3688 | NIGHOT SAKSHI BALASAHEB | <i>Niksh</i>            |
| 85 | 3689 | PINGALE SNEHA SANTOSH   | <i>Pingale</i>          |
| 86 | 3690 | HINGE SHWETA BHIKAJI    | <del><i>Hinge</i></del> |
| 87 | 3691 | GAWARI SAYALI SANTOSH   | <i>Sayali</i>           |
| 88 | 3692 | SHENDE SAI SUNIL        | <i>Sai</i>              |

*[Signature]*  
**HOD**  
**BBA(CA)**  
**H.O.D.**  
 BBA(CA) Department  
 A.A.College, Manchar 410 503

**Principal**  
**PRINCIPAL**  
 ANNASAHEB WATE COLLEGE  
 MANCHAR. (DIST.PUNE)

Rayat Shikshsan Sanstha's

ANNASAHEB AWATE ARTS, COMMERCE & HUTATMA BABU GENU SCIENCE  
COLLEGE, MANCHAR

Department of BBA(CA)

Short Term Course - 2022-23  
Certificate Course in Cyber Law  
Exam Result

Class : F.Y. BBA(CA)

Date:1/03/2023

| Sr. No | Roll No. | Name of Student           | Marks Out of 60 | Grades         | Signature |
|--------|----------|---------------------------|-----------------|----------------|-----------|
| 1      | 3601     | ARGADE MANASI RAJENDRA    | 55              | A <sup>+</sup> |           |
| 2      | 3602     | ATAR SIDDHI DATTATRAY     | 40              | A              |           |
| 3      | 3603     | BARAVKAR SHWETA SANDIP    | 45              | A              |           |
| 4      | 3604     | BHAGAT SHRAVANI BABAN     | 30              | B <sup>+</sup> |           |
| 5      | 3605     | BHEKE SANIYA SUNIL        | 42              | B              |           |
| 6      | 3606     | BHONDAVE ROHAN NANDKUMAR  | 35              | B <sup>+</sup> |           |
| 7      | 3607     | BHOR ADITI UTTAM          | 50              | A <sup>+</sup> |           |
| 8      | 3609     | BHOR SIDDHI BABAJI        | 40              | B              |           |
| 9      | 3610     | BHOR ANUJA SUBHASH        | 42              | B              |           |
| 10     | 3611     | BHOSALE SIDDHESH BABAN    | 43              | B              |           |
| 11     | 3612     | BHOSALE VAIBHAVI MANGESH  | 40              | B              |           |
| 12     | 3613     | CHASKAR GAURI BHANUDAS    | 50              | A <sup>+</sup> |           |
| 13     | 3614     | CHAUHAN ABHISHEK SAHABLAL | 49              | B <sup>+</sup> |           |
| 14     | 3615     | CHIKHALE ANUJA SHIVAJI    | 48              | B <sup>+</sup> |           |
| 15     | 3616     | DAS PRIYA RAMCHANDRA      | 52              | A <sup>+</sup> |           |
| 16     | 3617     | DATKHILE SUSHAMA VISHAL   | 50              | A <sup>+</sup> |           |
| 17     | 3618     | DHONGE RUTUJA BALU        | 40              | A              |           |

|    |      |                          |                  |    |                     |
|----|------|--------------------------|------------------|----|---------------------|
| 18 | 3619 | DHUMAL SAKSHI NANDKUMAR  | <del>29</del> 29 | E  | <del>Primal</del>   |
| 19 | 3620 | DHUMAL SAMRUDDHI ANIL    | <del>29</del> 29 | E  |                     |
| 20 | 3621 | DOKE ANUJ MAHENDRA       | <del>29</del> 29 | E  | <del>Andok</del>    |
| 21 | 3622 | GADE ANAMIKA ANIL        | 40               | B  |                     |
| 22 | 3623 | GADE YASH SUNIL          | 40               | B  |                     |
| 23 | 3624 | GADHAVE GAURI SHARAD     | 42               | B  | <del>Ggadhave</del> |
| 24 | 3625 | GAIKWAD VAISHNAVI SANDIP | 45               | A  | <del>Pr</del>       |
| 25 | 3626 | GANDHI PIYUSH DEEPAK     | AB               |    |                     |
| 26 | 3627 | GAVALI AKASH ARUN        | 58               | B+ | <del>Primal</del>   |
| 27 | 3628 | GAWADE VAISHNAVI LAXMAN  | 59               | B+ | <del>Primal</del>   |
| 28 | 3629 | GODSE VAIBHAVI DATTATRAY | AB               |    |                     |
| 29 | 3630 | GUNJAL PRANIT BAPUSAHEB  | 29               | E  | <del>Primal</del>   |
| 30 | 3631 | GUPTA AKASH VIRENDRA     | 58               | B+ | <del>Primal</del>   |
| 31 | 3632 | HINGE ADESH PRABHAKAR    | 40               | B  | <del>Primal</del>   |
| 32 | 3633 | INDORE PRANJAL SWAPNIL   | 42               | B  | <del>Prindore</del> |
| 33 | 3634 | JADHAV DARSHAN JAYSING   | 43               | B  | <del>Prindore</del> |
| 34 | 3635 | JADHAV PIYUSH SANTOSH    | 30               | E  | <del>Prindore</del> |
| 35 | 3636 | KAHADANE SHRADDHA SANDIP | 42               | B  | <del>Prindore</del> |
| 36 | 3637 | KALE PRACHI MOHAN        | 52               | A+ | <del>Prindore</del> |
| 37 | 3638 | KALE YASH ANIL           | 52               | A+ | <del>Prindore</del> |
| 38 | 3639 | KANADE VAIBHAVI VILAS    | 50               | A+ | <del>Prindore</del> |
| 39 | 3640 | KATHE KANCHAN MAHADEV    | 40               | B  | <del>Prindore</del> |
| 40 | 3641 | KHAMKAR OMKAR VILAS      | 40               | B  | <del>Prindore</del> |
| 41 | 3642 | KHANDESHE SAMRUDDHI ANIL | 50               | A+ | <del>Prindore</del> |
| 42 | 3643 | KHILARI SAKSHI SANTOSH   | 50               | A+ | <del>Prindore</del> |
| 43 | 3644 | KUDALE POOJA DNYANESHWAR | 52               | A+ | <del>Prindore</del> |
| 44 | 3645 | LOHAKARE ROHIT SURESH    | 54               | A+ | <del>Prindore</del> |
| 45 | 3647 | LONDHE SAKSHI SANTOSH    | 55               | A+ | <del>Prindore</del> |

|    |      |                           |    |    |    |           |
|----|------|---------------------------|----|----|----|-----------|
| 46 | 3648 | MAUSKAR YASH YOGESH       |    | 50 | A+ | Yash      |
| 47 | 3649 | MENGADE BHUMIKA KAILAS    |    | 40 | B  | Bmangade  |
| 48 | 3650 | MHASKE ROHIT BABAJI       |    | 29 | C  | Rohit     |
| 49 | 3651 | MULE SAHIL SHARAD         |    | 44 | B  | Sharad    |
| 50 | 3652 | NAVLE SAKSHI BABAN        |    | 58 | O+ | Sakshi    |
| 51 | 3653 | NIGHT SAYALI BALASAHEB    |    | 46 | B+ | Sayali    |
| 52 | 3654 | NIGHT VAISHNAVI NITIN     |    | 47 | B+ | Night     |
| 53 | 3655 | NIGHT SANKALP DATTATRAY   |    | 48 | B+ | Sankalp   |
| 54 | 3656 | PADWAL SAKSHI PRAVIN      |    | 59 | O+ | Padwal    |
| 55 | 3657 | PADWAL SARTHAK ANIL       |    | 51 | A+ |           |
| 56 | 3658 | PALEKAR ANISHA SANJAY     |    | 45 | B  | Anisha    |
| 57 | 3659 | PALGHADMAL VARSHA ASHOK   | AB |    |    |           |
| 58 | 3661 | PINGALE SUJAL SUDAM       |    | 43 | B  |           |
| 59 | 3662 | POKHARKAR AVIRAJ LAXMAN   |    | 55 | A+ | Aviraj    |
| 60 | 3663 | POKHARKAR DISHA VILAS     |    | 59 | O+ |           |
| 61 | 3664 | POKHARKAR SAKSHI SUDHIR   |    | 45 | B+ | Sakshi    |
| 62 | 3665 | POKHARKAR SHUBHAM SANTOSH |    | 52 | A  | Shubham   |
| 63 | 3666 | RAKSHE ROHAN SANTOSH      |    | 29 | C  |           |
| 64 | 3667 | SAWANT SNEHAL MANGESH     |    | 48 | B+ | Snehal    |
| 65 | 3668 | SHELKE JUI RAJARAM        |    | 50 | A  | Jshelke   |
| 66 | 3669 | SHINDE SAMIKSHA MANGESH   |    | 53 | A  | Shinde    |
| 67 | 3670 | SHINDE SANSKRUTI SANTOSH  |    | 45 | B+ |           |
| 68 | 3671 | SHINDE VRUSHALI BHAUSAHEB | AB |    |    |           |
| 69 | 3672 | SHINGTE VISHAL MACHHINDRA |    | 50 | A  |           |
| 70 | 3673 | SHINOLIKAR PRATIKSHA BALU |    | 52 | A  | Pratiksha |
| 71 | 3674 | SOLAT SAHIL SUBHASH       |    | 40 | B  |           |
| 72 | 3675 | SUPEKAR SUSHANT VIKAS     |    | 42 | B  | Sushant   |

|    |      |                          |    |    |    |                    |
|----|------|--------------------------|----|----|----|--------------------|
| 73 | 3677 | TEMKAR SIDDHESH SHIVAJI  |    | 25 | F  |                    |
| 74 | 3678 | THORAT TANMAY POPAT      |    | 45 | B+ | <i>[Signature]</i> |
| 75 | 3679 | THORAT ANISH MARUTI      |    | 46 | B+ |                    |
| 76 | 3680 | TODKAR AZAD RAVINDRA     |    | 38 | C  |                    |
| 77 | 3681 | UNDE OMKAR BALU          |    | 20 | F  |                    |
| 78 | 3682 | VARHADI SHRUSHTI PRADEEP |    | 50 | B  | <i>[Signature]</i> |
| 79 | 3683 | WALASE MONIKA DINESH     |    | 59 | O+ | <i>[Signature]</i> |
| 80 | 3684 | WAYKAR PURVA PRAMOD      |    | 47 | B+ | <i>[Signature]</i> |
| 81 | 3685 | ZODAGE SANKET NARAYAN    |    | 50 | A  | <i>[Signature]</i> |
| 82 | 3686 | HAKIM MUZAMMIL NAZIM     | AB |    |    |                    |
| 83 | 3687 | SHINDE NAMRATA BALU      |    | 43 | B  | <i>[Signature]</i> |
| 84 | 3688 | NIGHOT SAKSHI BALASAHEB  |    | 40 | B  | <i>[Signature]</i> |
| 85 | 3689 | PINGALE SNEHA SANTOSH    |    | 50 | B  | <i>[Signature]</i> |
| 86 | 3690 | HINGE SHWETA BHIKAJI     |    | 52 | A  | <i>[Signature]</i> |
| 87 | 3691 | GAWARI SAYALI SANTOSH    |    | 47 | B+ | <i>[Signature]</i> |
| 88 | 3692 | SHENDE SAI SUNIL         |    | 29 | C  |                    |

*[Signature]*

HOD

BBA(CA)

BBA(CA) Department  
A.A. College, Manchar 410 503

*[Signature]*

Principal  
PRINCIPAL

ANNASAHEB COLLEGE  
MANCHAR. (DIST. PUNE)



## STUDENT CENTRIC ACTIVITIES

Name of department : Zoology

Academic Year: 2022-23

### SUMMARY

| Sr. No.                            | Student Centric Activities | Activities organized  | Date/ No.  | No. of Beneficiaries |
|------------------------------------|----------------------------|---|------------|----------------------|
| 1.                                 | Experiential Learning      | <b>Example</b>  | Yes        | All                  |
|                                    |                            | 1. Practicums   | 12/11/2022 | 39                   |
|                                    |                            | 2. Field visit to Water Body College Campus                 | 24/05/2023 | 15                   |
|                                    |                            | 3. Hands on workshops - Apiculture                          | Yes        | 09                   |
| 2.                                 | Participative Learning     | <b>Example</b>  | 05/12/2022 | 08                   |
|                                    |                            | 1. Group discussion   |            |                      |
|                                    |                            | 2. Departmental fests                                       |            |                      |
|                                    |                            | 3. International Webinar on Wetland Birds                   | 07/10/2022 | 12                   |
|                                    |                            | 4. Guest Lecture on "Snakes Awareness"                      | 13/10/2022 | 90                   |
|                                    |                            | 5. Yuvtarang  | 03/03/2023 | 08                   |
|                                    |                            | 6. Students' seminars                                       |            |                      |
| 7. Short term course in Apiculture | 01/12/2022                 | 05  |            |                      |
| 3.                                 | Problem Solving Methods    | <b>Example</b><br>1. Assignments on problem-based questions | Yes        | 09                   |
| 4.                                 | ICT methods used           | <b>Examples</b>   | 80         | 09                   |
|                                    |                            | 1. PPT Bank   |            |                      |
|                                    |                            | 2. Number of videos on YouTube                              | 17         | 09                   |
|                                    |                            | 3. Google Classroom   | 04         | 09                   |
|                                    |                            | 4. Personal Zoom  | 05         | 09                   |

Prepared by

Approved by



Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune  
DEPARTMENT OF ZOOLOGY

| Student Name                  | Model/Project | Title   | Class        | Mobile Number |
|-------------------------------|---------------|---|--------------|---------------|
| Akshay Navnath Bankhele       | Poster        | Biodiversity of Odoneta from the Annasaheb Awate College<br>Campus, Manchar | T. Y. B. Sc. | 8767331377    |
| Siddhant Sangram Gaikwad      | Model         | Blood Compatibility in Humans   | T. Y. B. Sc. | 9172813230    |
| Alisha Shabbir Mulani         | Poster        | Biodiversity Of Lepidoptera from Annasaheb Awate College<br>Campus, Manchar | T. Y. B. Sc. | 9699157087    |
| Aamina Hussain Khan Pathan    | Poster        | Extraction and Application Of Chitosan from Fish Scale                      | T. Y. B. Sc. | 9156114554    |
| Sarfarazkhan Yusufkhan Pathan | Poster        | Extraction and Application Of Chitosan from Fish Scale                      | T. Y. B. Sc. | 9307220407    |
| Kartiki Rajaram Rajguru       | Poster        | Assessment of larvicidal Activity of <i>Aphanomyxis polystachya</i>         | T. Y. B. Sc. | 7387191330    |
| Shubham Nandraj Sabale        | Model         | Blood Compatibility in Humans   | T. Y. B. Sc. | 7057116477    |
| Shivani Ramchandra Lohakare   | Poster        | Assessment of larvicidal Activity of <i>Aphanomyxis polystachya</i>         | T. Y. B. Sc. | 9028488685    |
| Aamina Hussain Khan Pathan    | Model         | Human Anatomy   | T. Y. B. Sc. | 9156114554    |
| Sarfarazkhan Yusufkhan Pathan | Model         | Human Anatomy   | T. Y. B. Sc. | 9307220407    |
| Alisha Shabbir Mulani         | Model         | Preparation of Medicament from fruit Peels                                  | T. Y. B. Sc. | 9699157087    |
| Aamina Hussain Khan Pathan    | Model         | Preparation of Medicament from fruit Peels                                  | T. Y. B. Sc. | 9156114554    |
| Kartiki Rajaram Rajguru       | Model         | Preparation of Medicament from fruit Peels                                  | T. Y. B. Sc. | 7387191330    |
| Shivani Ramchandra Lohakare   | Model         | Preparation of Medicament from fruit Peels                                  | T. Y. B. Sc. | 9028488685    |
| Pooja R. Shinde               | Model         | Preparation of Medicament from fruit Peels                                  | T. Y. B. Sc. | 7219598494    |



S. R. Sabale  
Head  
Department Of Zoology  
A.A. College, Manchar



Rayat Shikshan Sanstha's

Annasaheb Awate Arts, Commerce and Hutatma Babu Genu  
Science College, Manchar, Tal Ambegaon, Dist- Pune  
Yuva- Tarang: 2023

| Prize No                       | Project Name   | Student Name   |
|--------------------------------|--|--|
| I                              | Pain Reliver ( Model- Physics)   | Mourya Rohit Chandrabhan   |
| II                             | Bioplastic from Corn Starch<br>(Poster- Biotech)                             | Mandalik Uttara Rajendra<br>Chavan Rutuja Shivaji.   |
| II ✓                           | Extraction and Application Of Chitosan<br>from Fish Scale<br>Poster- Zoology | Sarfarazkhan Yusufkhan Pathan<br>Siddhant Sangram Gaikwad  |
| III                            | Important of Millets<br>Poster-Botany  | CHIKANE MAHIMA GORAKSHANATH<br>GHEVADE SIDDHIKA SANTOSH<br>PATHAN ARSHIYA RIYAJKHAN<br>PAWALE GAURI GULAB<br>TOTARE SAMRUDDHI RAMDAS |
| III                            | Electrolysis of Water  | Badakh Vishal<br>Thite Rushikesh<br>Pokharkar Kajal  |
| IV (1 <sup>st</sup> Runner Up) | Automatic Hand Sanitizer Dispenser<br>Poster-Electronic Science              | Ms.Burse Akanksha Sunil<br>Ms.Doke Komal Rajendra  |
| IV (1 <sup>st</sup> Runner Up) | Preparation of Medicament from fruit<br>Peels<br>Model-Zoology               | Alisha Shabbir Mulani<br>Aamina Hussain Khan Pathan<br>Kartiki Rajaram Rajguru<br>Shivani Ramchandra Lohakare                        |
| V (2 <sup>nd</sup> Runner Up)  | Generation of Hydrogen Gas<br>Poster-Chemistry                               | Navale Kunal<br>Sangpal Rohit<br>Bagal Sanket  |
| V (2 <sup>nd</sup> Runner Up)  | Application Of Mathematics-<br>Sterographic projection                       | Thorat Divya   |



*SRB*  
Head  
Department Of Zoology  
AAA College, Manchar

**DEPARTMENT OF ZOOLOGY**

International Webinar on occasion of World Wildlife Week on the topic  
"Birds in Wetland"

**REPORT**

1. **Date** : 07/10/2022 (Friday)
2. **Mode** : Online
3. **No. of Beneficiaries** : 108
4. **Head of the Department** : Prof. S. T. Pokale
5. **Program Coordinator** : Prof. H. J. Gavil
6. **Program Convener** : Dr. S. S. Patil
7. **Organizing Team** : Prof. S. A. R. Sayyed  
Prof. S. V. Kale
8. **Resource person with affiliation** : Dr. D. S. Kumbhar  
(Asst. Prof., Dada Patil College, Karjat,  
Dist. Ahmednagar)

9. **Objective:**

One day international webinar was organized under the following Objectives

- To involve more and more people to observe the wetland birds where they visit regularly.
- To sensitize students on significance of birds in the maintenance of natural food chain and need for conservation.

10. **Program Report:**

Rayat Shikshan Sanstha's, Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College, Manchar, organized International webinar on "Birds in Wetland" on the occasion of world wild life week . Webinar was conducted on 7<sup>th</sup> October 2022, from 12 noon to 2pm in hybrid mode. The online participants were joint via Zoom platform. Total 108 students and faculties were registered from different National and International institutes.

The webinar was started with offering floral tribute to Padmabhushan Karmveer Bhaurao Patil and Sou Laxmibai Bhaurao Patil. Prof. S.T.Pokale, Head, Department of Zoology delivered welcome address to all participant and Speaker of program. Dr. S. S. Patil,

Dept. of Zoology\_Conference/Workshop/Seminar Organized 2022-23

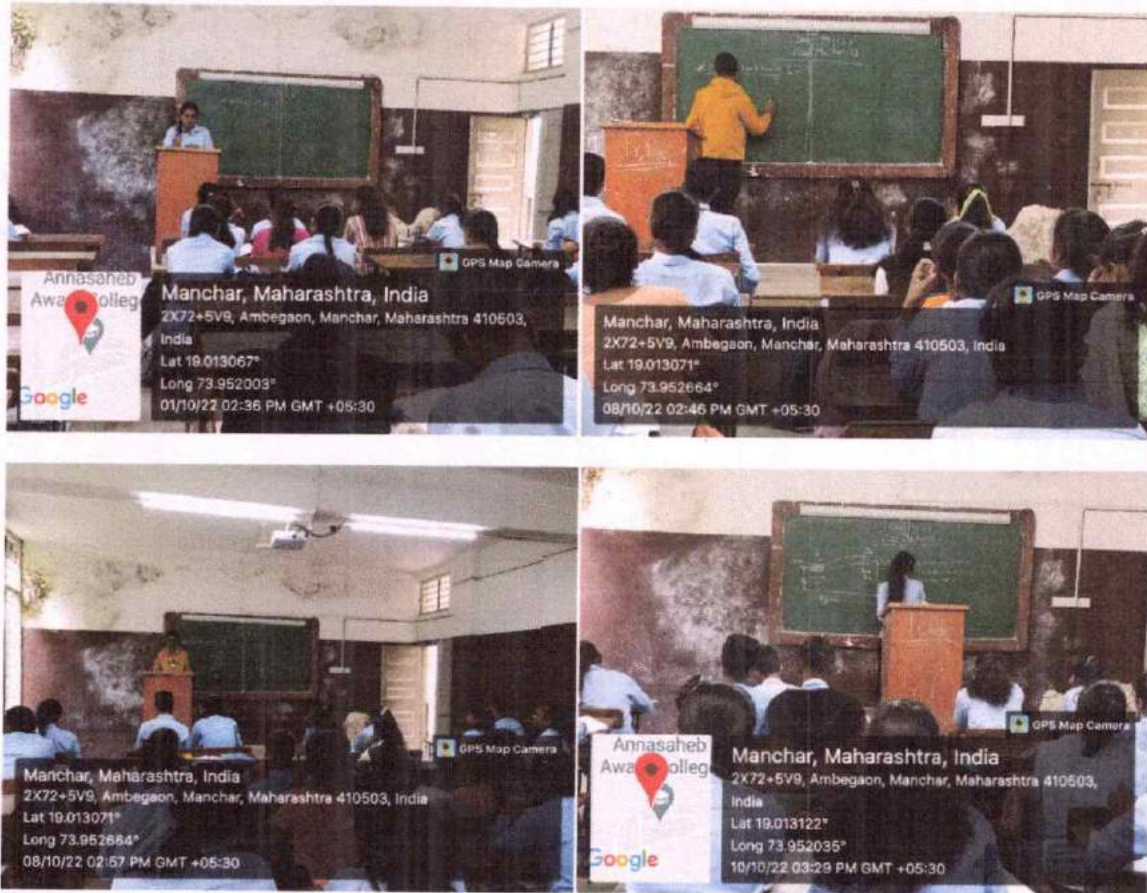


Rayat Shikshan Sanstha's  
**Annasaheb Awate, Arts, Commerce & Hutatma Babu Genu College Manchar**  
**Department of Physics**  
**F.Y.B.Sc Student Seminar -: 2022-23**

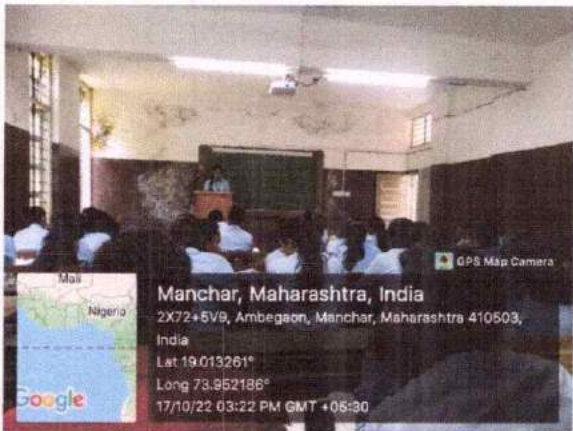
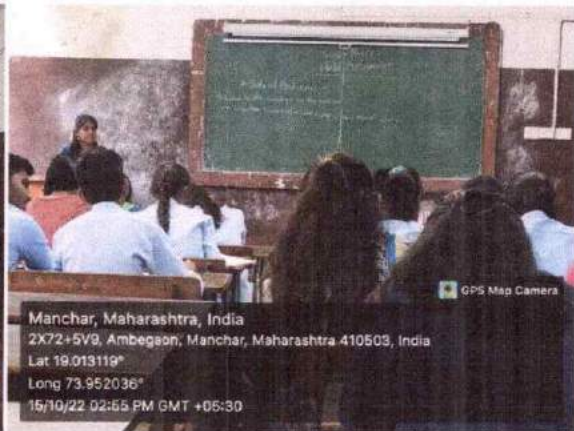
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Report

The Department of Physics has organized the student seminars in academic year 2022-23. The seminar for FYBSc Class was conducted on 01<sup>st</sup> to 22<sup>th</sup> October 2022. The student was individually assigned the topic for the seminar and 10 minutes were given to them. All students have participated enthusiastically for seminar. The students have submitted the synopsis of the topic for their seminar. The photographs of the program were taken.



*R. Gulabani*  
**Head**  
**Department of Physics**  
**A.A. College Manchar**



*R. N. D. S. Me*  
**Head**  
Department of Physics  
A.A. College. Manchar

Rayat Shikshan Sanstha's  
Annasaheb Awate, Arts, Commerce & Hutatma Babu Genu College Manchar, Pune  
Department of Physics  
M.Sc -I (Sem II)

Student Seminar: 2022-23

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### Notice

**Date:** - 24/04/2023

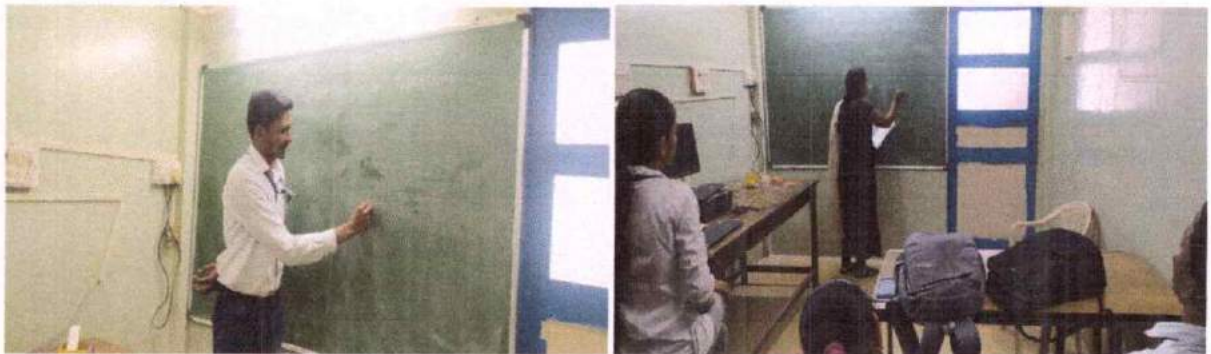
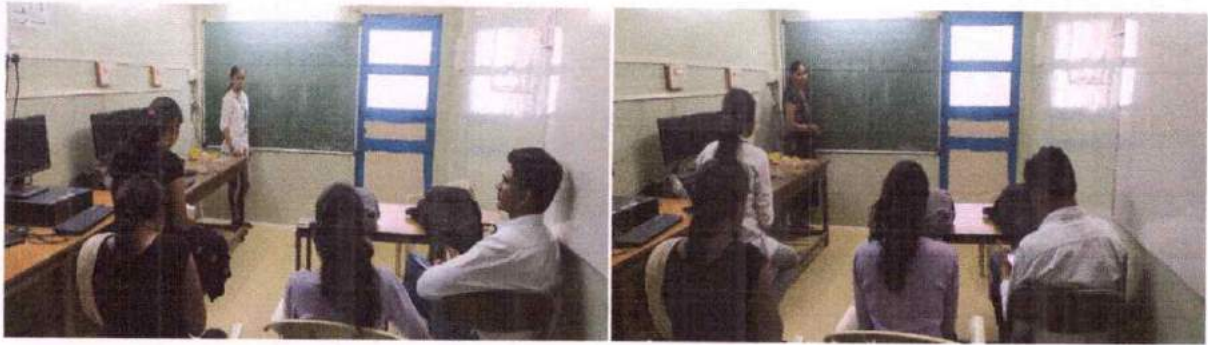
All the students of **M.Sc.-I** Physics are hereby informed that the **Student Seminar** will be conducted 29<sup>th</sup> April, 2023 at 02.00 pm to 03.00 pm in the Physics Lab. The student seminar is compulsory to everyone. It will be accounted for evaluation.

Rayat Shikshan Sanstha's  
Annasaheb Awate, Arts, Commerce & Hutatma Babu Genu College Manchar, Pune  
Department of Physics  
M.Sc-I (Sem II)

Student Seminar -: 2022-23

**Report**

The students of M.Sc.-II have given the seminar in the Physics Lab on 29/04/2023. All student has participated enthusiastically for seminar. The students have submitted the synopsis of the topic for their seminar.



*Rahul*  
**Head**  
Department of Physics,  
A.A. College, Manchar



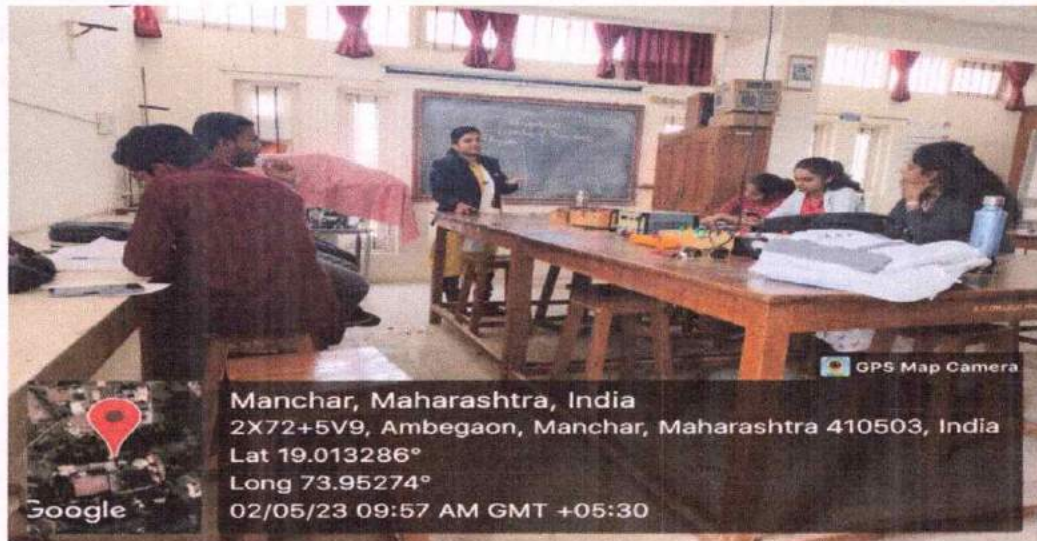
Rayat Shikshan Sanstha's  
Annasaheb Awate, Arts, Commerce & Hutatma Babu Genu College Manchar, Pune  
Department of Physics  
M.Sc-II (Sem IV)

Student Seminar -: 2022-23

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Report

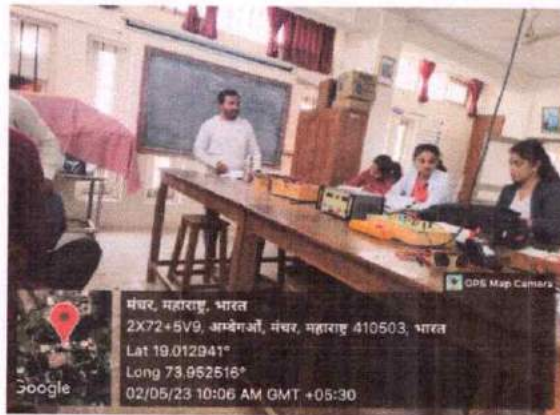
The students of M.Sc.-II have given the seminar in the Physics Lab on 02/05/2023. Every student has participated enthusiastically for seminar. The students have submitted the synopsis of the topic for their seminar.



*Rahul*  
**Head**  
Department of Physics  
A.A. College, Manchar



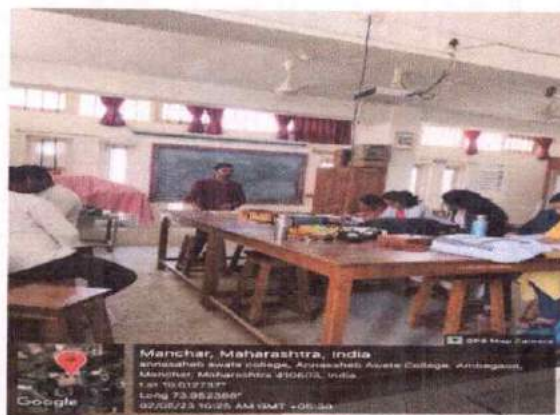
मंचर, महाराष्ट्र, भारत  
 2X72+5V9, अम्बेगाँव, मंचर, महाराष्ट्र 410503, भारत  
 Lat 19.013065°  
 Long 73.952572°  
 02/05/23 09:49 AM GMT +05:30



मंचर, महाराष्ट्र, भारत  
 2X72+5V9, अम्बेगाँव, मंचर, महाराष्ट्र 410503, भारत  
 Lat 19.012941°  
 Long 73.952516°  
 02/05/23 10:06 AM GMT +05:30



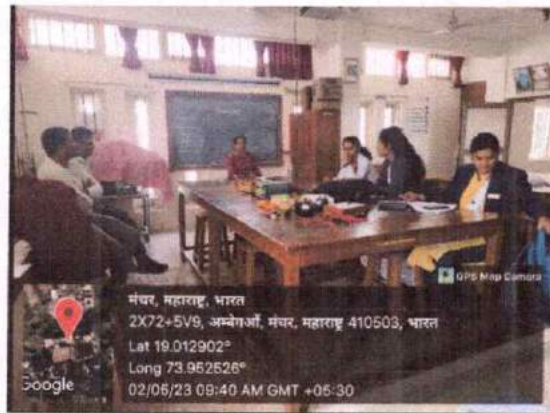
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 2X72+5V9, Ambegaon, Manchar, Maharashtra 410503, India  
 Lat 19.013349°  
 Long 73.952596°  
 02/05/23 10:17 AM GMT +05:30



Manchar, Maharashtra, India  
 Anasahib Awate College, Anasahib Awate College, Ambegaon,  
 Manchar, Maharashtra 410503, India  
 Lat 19.012737°  
 Long 73.952560°  
 02/05/23 10:25 AM GMT +05:30



Manchar, Maharashtra, India  
 2X72+5V9, Ambegaon, Manchar, Maharashtra 410503, India  
 Lat 19.013058°  
 Long 73.952026°  
 02/05/23 10:33 AM GMT +05:30



मंचर, महाराष्ट्र, भारत  
 2X72+5V9, अम्बेगाँव, मंचर, महाराष्ट्र 410503, भारत  
 Lat 19.012902°  
 Long 73.952526°  
 02/05/23 09:40 AM GMT +05:30



**Head**  
 Department of Physics  
 A.A. College, Manchar

Estd.1966



\* PRINCIPAL \*  
Dr. Gaikwad N. S.  
M.Sc., Ph. D.

"Education through self help is our Motto." KARMAVEER

Rayat Shikshan Sanstha's

**ANNASAHEB AWATE ARTS, COMMERCE &  
HUTATMA BABU GENU SCIENCE COLLEGE**

Manchar, Tal. Ambegaon, Distt. Pune, Maharashtra - 410 503.

ACCREDITED 'A' BY NAAC

ID. No. - PU/PN/ASC/017/1966 A.I.S.H.E. - C - 41221



\* FOUNDER \*  
Padmabhushan  
Dr. Karmaveer  
Bhauroo Patil, D. Litt.

Ref. No. 187/2023 - 24

Date: 09/05/2023

To,

The Co-ordinator,

Vidnyan Ashram, Pabal

**Sub-Permission to visit Vidnyan Ashram, Pabal**

Dear Sir/Madam,

Our Annasaheb Awate College is reputed institute for providing the quality education in the Ambegaon tehsil. On behalf of our College, we wish to request permission for the visit to your Vidnyan Ashram with 16 students of S.Y.B.Sc Physics subject. We wish to undertake this visit on 12<sup>th</sup> May 2022 at 11.00am to acquire practical knowledge. Our academic curriculum focuses on engaging students in practical experiences to observe the implementation of what they are taught in the college. We believe that your ashram will give the relevant knowledge to our students during the visit.

Please allow us a visit to your ashram and meet your skilled employee.

Thank you in advance.

Yours faithfully

*Rahul L*  
**Head**  
Department of Physics  
A.A. College Manchar



*f. kumar*  
**Principal**  
Annasaheb Awate Art's Commerce, &  
Hutatma Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune

*b*

Rayat Shikshan Sanstha's  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science  
College, Manchar**  
Department of Physics

**Educational Tour Report: 2022-23**

Department of Physics has organized the educational tour at **Vidnyan Ashram, Pabal** on 12<sup>th</sup> May 2023. Total 16 students of SYBSc class and two teaching faculty have visited to the Ashram. The main motto of this institute is "Development through education" was reflected through the programmes and projects offered to the students in the ashram. To cater and instill the curiosity among the students, the ideas of the projects were arranged in the ashram. Ms. Gayatri, a student of DBRT at Pabal has showed us the events and courses in the ashram. Dr. Arun Dixit sir has communicated to our students regarding the opportunities in the rural areas without pollution. Ms. Gayatri showed us the DIC (Design Innovation Center), Fab Lab, Indusa and Entrepreneurship Accelerator. The DIC at Pabal provides the Workshop to the students for

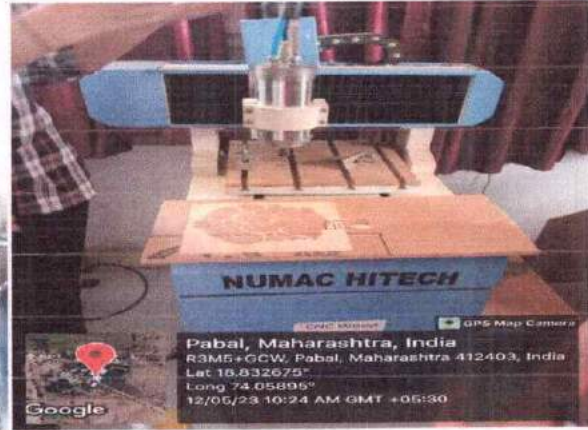
1. Fab-Lab
2. Poly-house
3. Computer and Graphics lab
4. Soil testing laboratory

The Fab Lab is facilitated with the technology of

1. Laser Cutting
2. Vinyl cutting
3. CNC – PCB milling
4. Plasma metal cutting
5. Electronics and micro processors
6. 3D printing & scanning
7. Traditional fabrication tools

This educational tour was very informative and fruitful to the students pertaining to technical training to rural technology, water management, making compost from the kitchen waste and soil testing.





*Rajiv*  
**Head**  
 Department of Physics  
 A.A. College, Manchar

**Rayat Shikshan Sanstha's**

**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College,  
Manchar, Pune**

## **Department of Electronic Science**

**Mind Mapping Activity**

**Class: S.Y.B.Sc. 2022-23**

Department of Electronic Science, Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar, Pune Organized Mind Mapping Activity on topics related to subjects. This Activity was held on 28 April 2023 at Electronic Science lab.

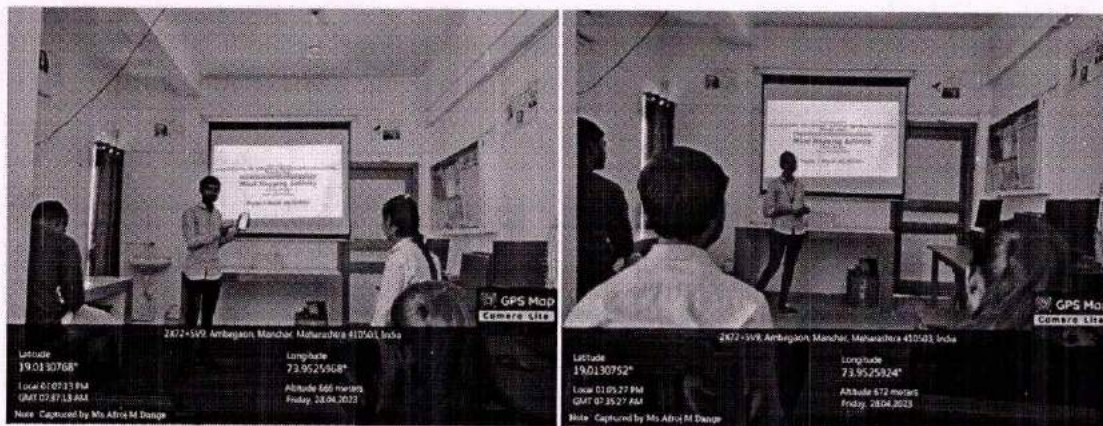
There were 10 students present for this activity. All the students' participants were very enthusiastic. The topic given by the students were well explained. The enthusiasm of the children was very good. The student said that because of this we develop are confidences.

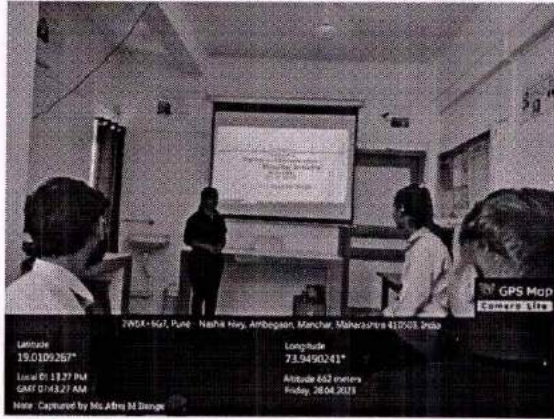
I Know my Mobile witnessed active participation from Electronic Student from S.Y.B.Sc class. The session was very much informative given by student. The discussed areas that were of great benefits of participants as the topic was very much relevant they explained.

### **Outcomes:**

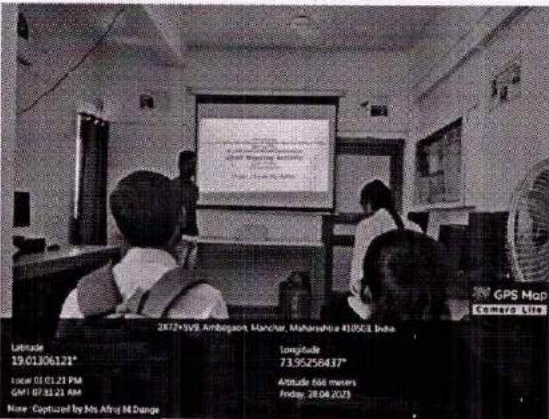
This type of seminar activity provided great benefits for participants. Also, built self confidence to deliver a lecture.

### **Enclosures:**

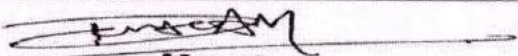




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GMT 01:43:27 AM Friday, 26.04.2023  
Note: Captured by Mr. Atiq M. Dange



2872+399, Ambegaon, Manchar, Maharashtra 412003, India  
Latitude 19.01306121° Longitude 73.55258437°  
Local 01:01:21 PM Altitude 666 meters  
GMT 01:31:21 AM Friday, 26.04.2023  
Note: Captured by Mr. Atiq M. Dange

  
**Head**  
**Dept. of Electronic Science**  
**A. A. College, Manchar**

*Rayat Shikshan Sanstha's*

**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College,  
Manchar, Pune**

## **Department of Electronic Science**

### **A Report on Students Seminar 2022-23**

Department of Electronic Science, Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar, Pune Organized Students Seminar on Different topics related to subjects. The seminar was held on 11 April 2023, 2 May 2023 & 10 May 2023 at lecture time.

There were 26 students present for the seminar. All the students' participants were very enthusiastic. The seminar given by the students were well explained. The enthusiasm of the children was very good. The student said that because of this we develop are confidences.

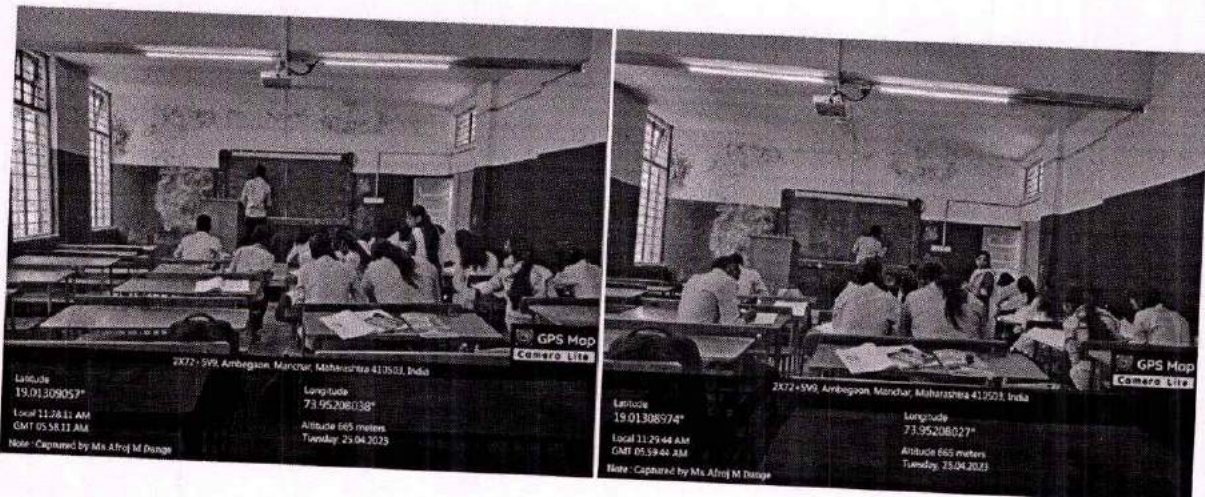
The seminar witnessed active participation from Electronic Student from S.Y.B.Sc and T.Y.B.Sc class. The session was very much informative given by student. The discussed areas that were of great benefits of participants as the topic was very much relevant they explained.

#### **Outcomes:**

This type of seminar activity provided great benefits for participants. Also, built self confidence to deliver a lecture.

#### **Enclosures:**

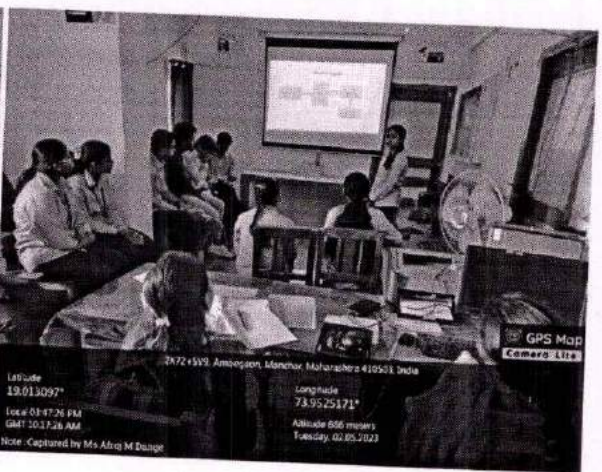
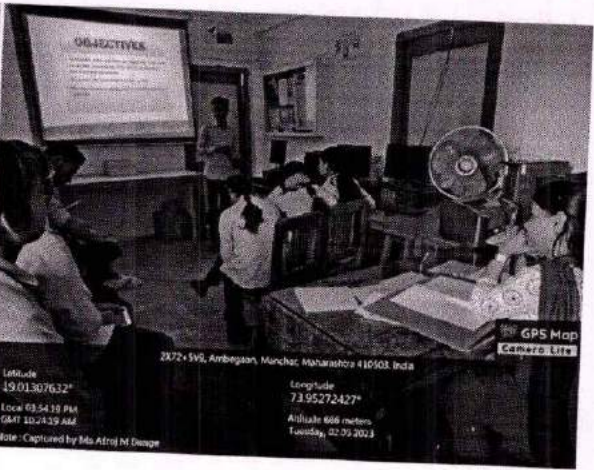
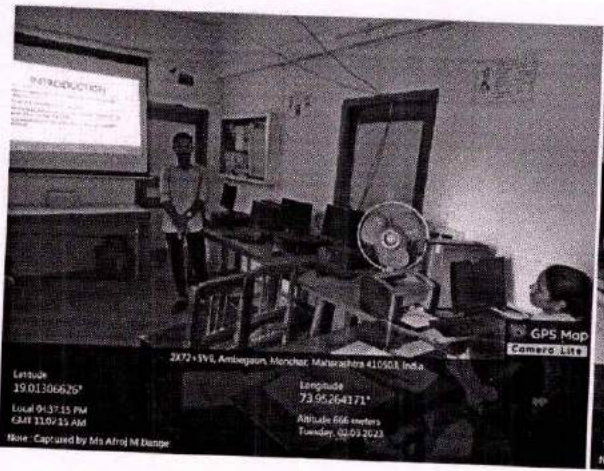
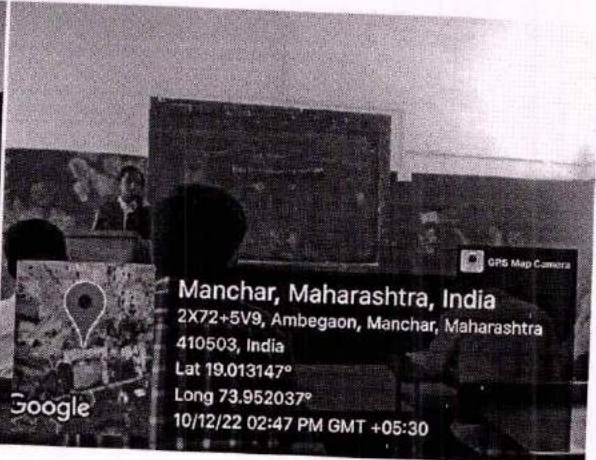
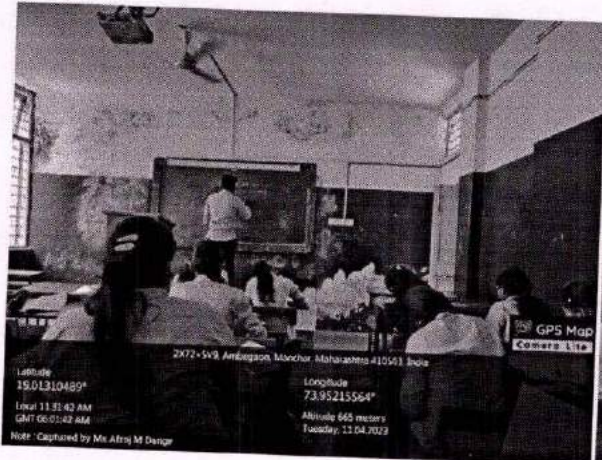
#### **Photos of Student Seminar:**



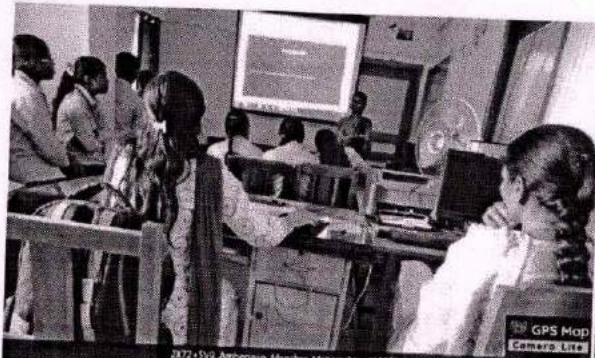
*[Signature]*  
**Head  
Dept. of Electronic Science  
A. A. College, Manchar**



**Photos of Student Seminar  
Class: T.Y.B.Sc. 2022-23**

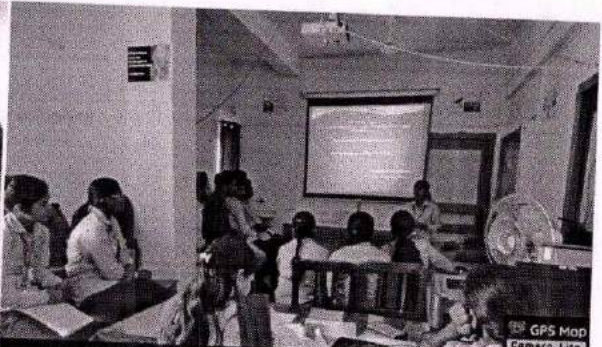


*A. A. College, Manchar*  
**Head  
Dept. of Electronics Science  
A. A. College, Manchar**



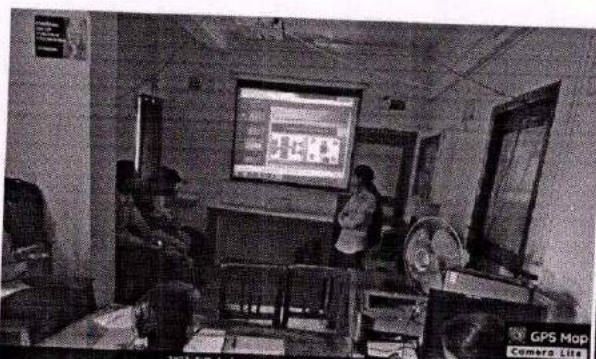
2372+SVL, Ambegaon, Manchar, Maharashtra 410503, India

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 Note: Captured by Ms Afroz M Dange



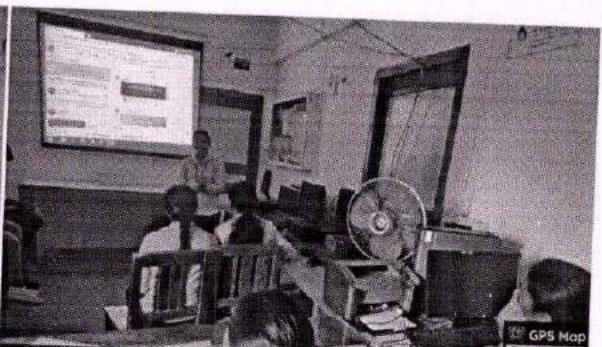
2372+SVL, Ambegaon, Manchar, Maharashtra 410503, India

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 Note: Captured by Ms Afroz M Dange



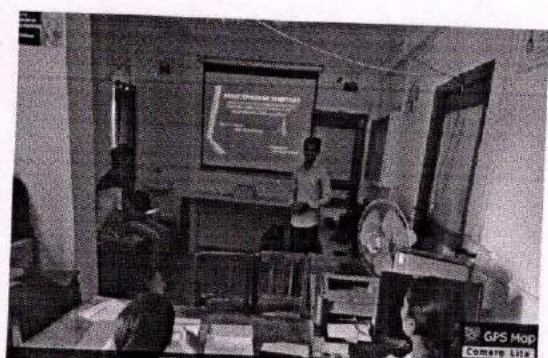
2372+SVL, Ambegaon, Manchar, Maharashtra 410503, India

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 Note: Captured by Ms Afroz M Dange



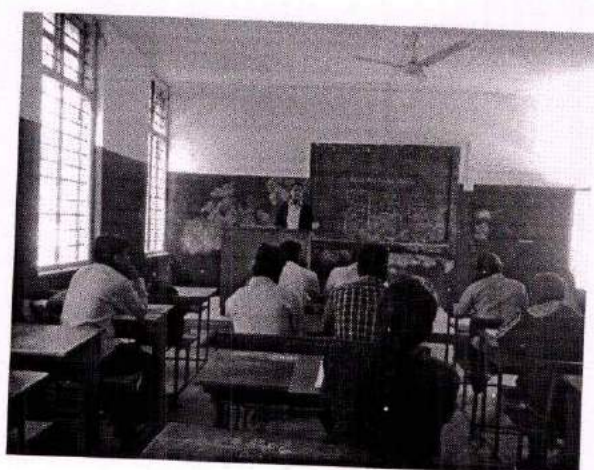
2372+SVL, Ambegaon, Manchar, Maharashtra 410503, India

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 Note: Captured by Ms Afroz M Dange



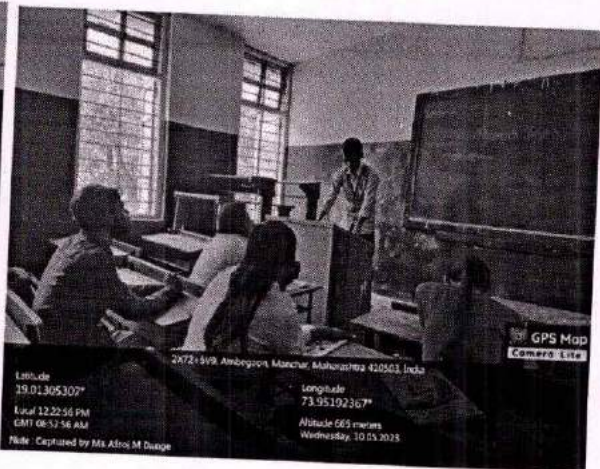
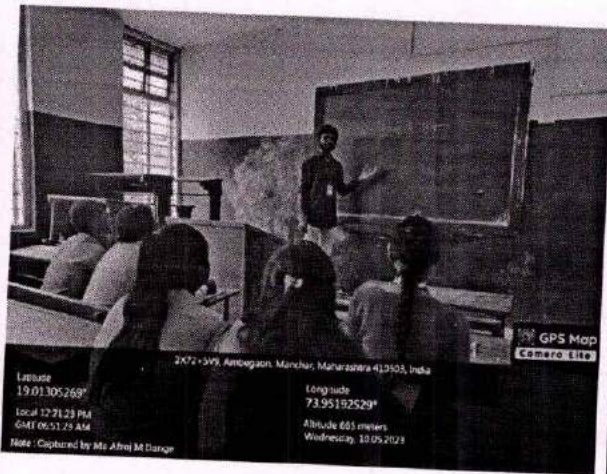
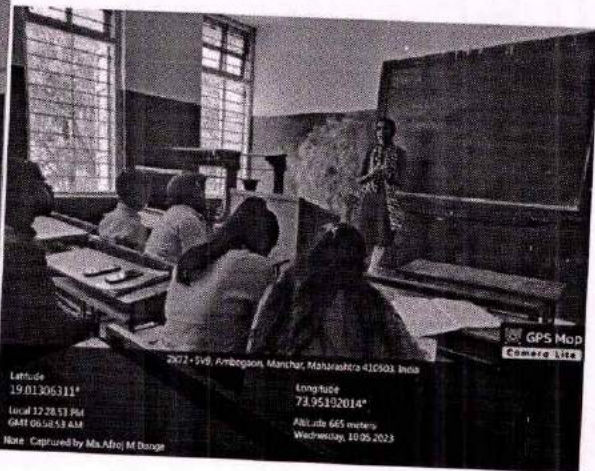
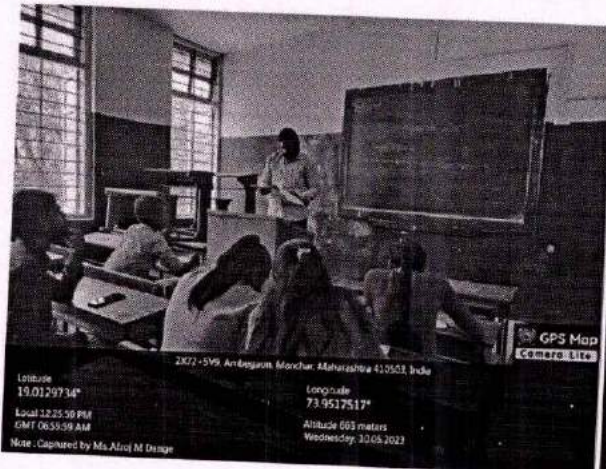
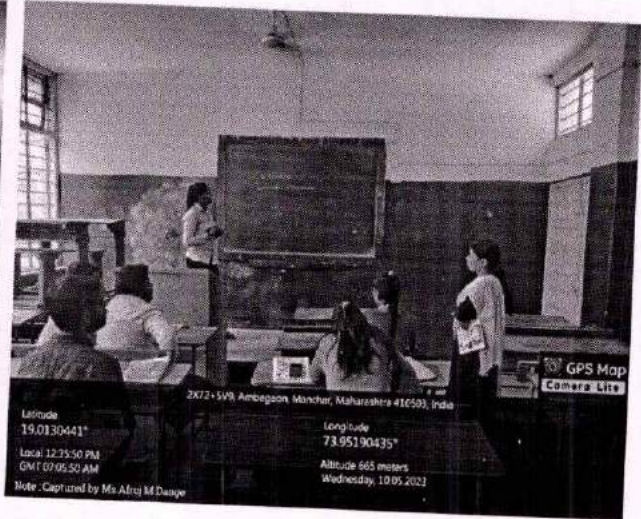
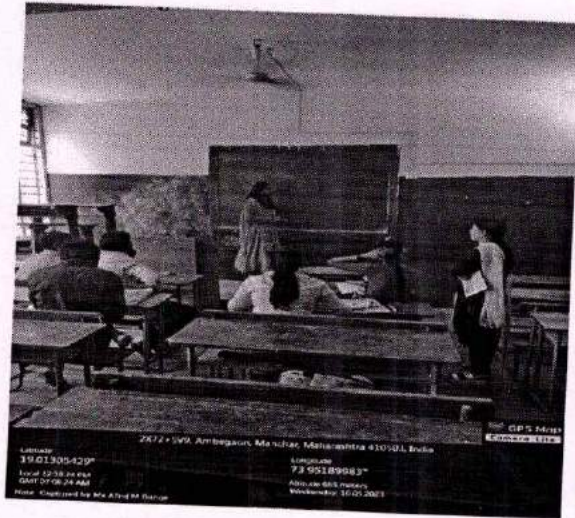
2372+SVL, Ambegaon, Manchar, Maharashtra 410503, India

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 Note: Captured by Ms Afroz M Dange



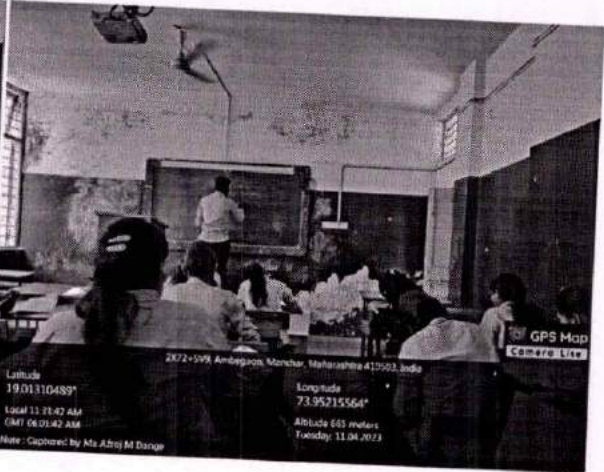
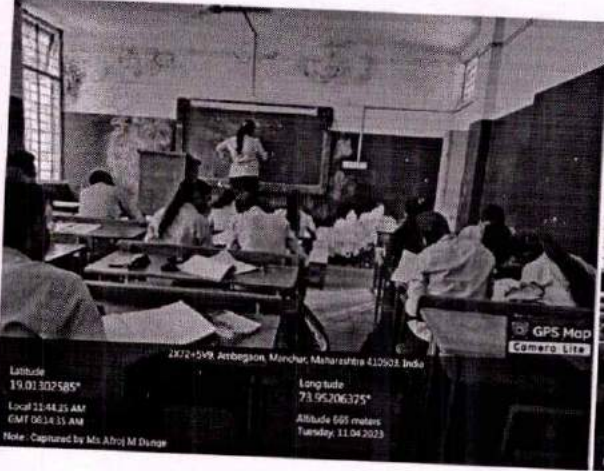
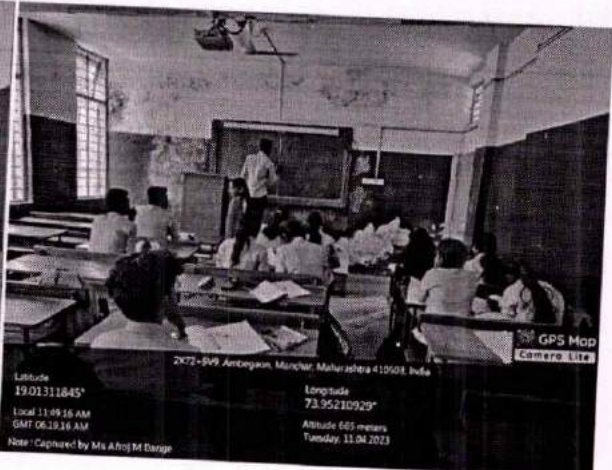
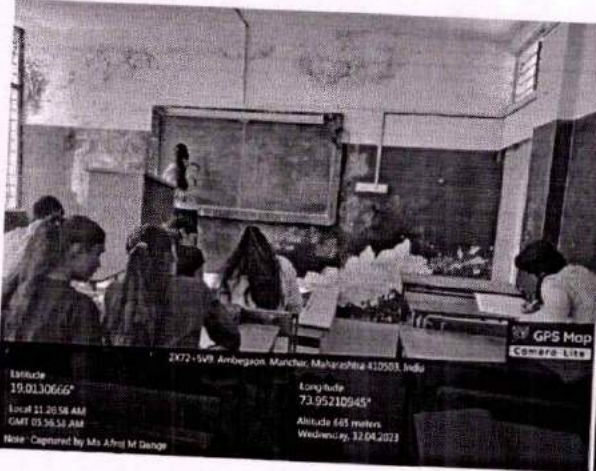
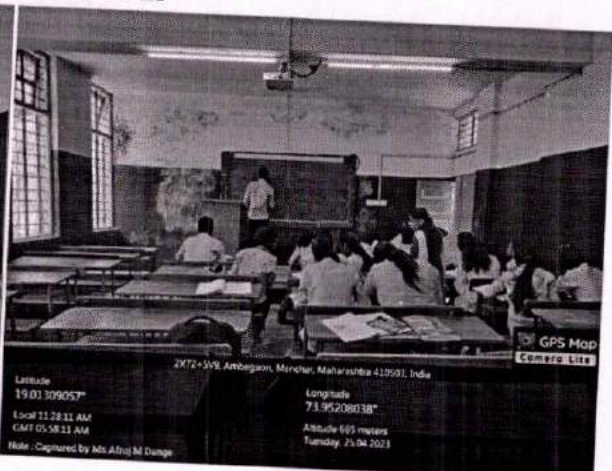
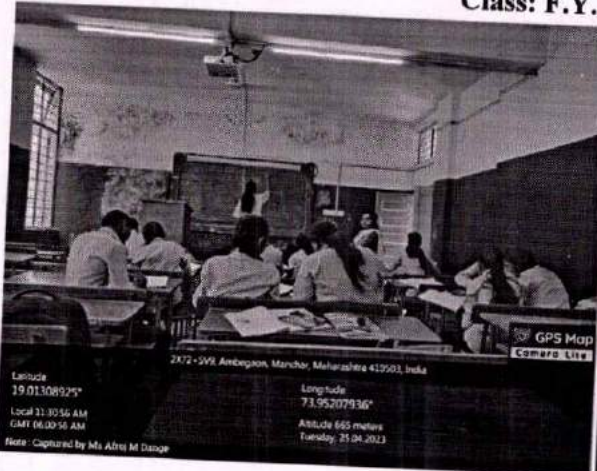
*Afroz M Dange*  
 Head  
 Dept. of Electronics Science  
 A. A. College, Manchar

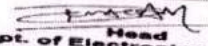
**Photos of Student Seminar  
Class: S.Y.B.Sc. 2022-23**



*A. A. M. Dange*  
**Head  
Dept. of Electronics Science  
A. A. College, Manchar**

**Photos of Student Seminar  
Class: F.Y.B.Sc. 2022-23**



  
**Head**  
 Dept. of Electronics Science  
 A. A. College, Manchar

Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune  
Department of Mathematics

**Student Centric activities (2022-23)**

| Sr. No. | Student Centric Activities | Activities organized   | Date                                   | No. of Beneficiaries |
|---------|----------------------------|--|--|----------------------|
| 1.      | Experiential Learning      | 1. Field visit to Morde foods Pvt Ltd<br>2. Social Survey                            | 23/05/2023                             | 04<br>04             |
| 2.      | Participative Learning     | 1. Workshop<br>2. Avishkar<br>3. Students' seminars                                  | 02/03/2023<br>03/03/2023<br>24/04/2023 | 04<br>04<br>04       |
| 3.      | Problem Solving Methods    | 1. Assignments on problem-based questions  | -                                      | 04                   |
| 4.      | ICT methods used           | 1. List of videos (13)<br>2. Software used - Maxima, Geogebra, Desmos, Python, LaTeX |  |                      |

RAYAT SHIKSHAN SANSTHA'S  
**Annasaheb Awate Arts Commerce & Hutatma Babu Genu Science  
College, manchar  
Department of Mathematics  
INDUSTRIAL VISIT REPORT**

**Date: 23/05/2023**

**Course Objectives:-**

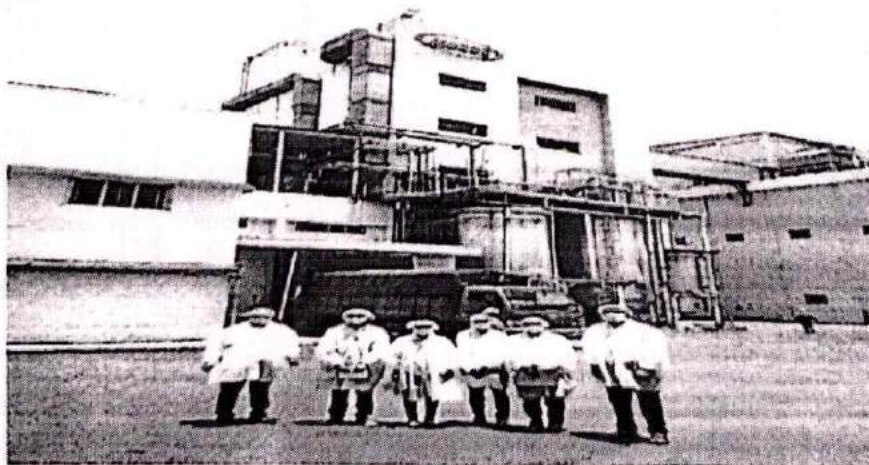
- The objective of this visit is to reinforce experiential and contextual learning.
- This visit will give information about the use of mathematical models to built optimize production scheduling, inventory management.
- To study use of mathematical approaches like statistical process control can be used to monitor and control the quality of production.
- To study mathematical models for minimize cost of product and maximize profit.

**Date of visit :- 23/05/2023**

**Number of Beneficiary:- 04**

**Summary Report:-**

The Department of Mathematics has organized Industrial visit on 23<sup>rd</sup> May 2023 for T.Y.B.Sc Mathematics students at the Morde Foods, Manchar to acquired practical knowledge. Four T.Y.B.Sc students and Two faculty member visited the Morde Food industry to interact with the experts to understand technologies used in this industry. The visit was very fruitful to the students in the context of the career options to them.



*(Signature)*  
Head

Department of Mathematics

Estd.1966

"Education through self help is our Motto." KARMAVEER



\* PRINCIPAL \*  
Dr. Kanade K. G.  
M.Sc., M.Phil., Ph.D.

Rayat Shikshan Sanstha's  
**ANNASAHEB AWATE ARTS, COMMERCE &  
HUTATMA BABU GENU SCIENCE COLLEGE**

Manchar, Tal. Ambegaon, Dist. Pune  
(Maharashtra) - 410 503.

**ACCREDITED 'A' BY NAAC**

ID. No. - PU/PN/ASC/017/1966

A.I.S.H.E. - C - 41221

PUN Code : CAAP010110



\* FOUNDER \*  
Padmabhushan  
Dr. Karmaveer Bhaurao Patil,  
D. Litt.

Ref. No. 232 / 2023 - 24

Date : 15/05/2023

To,  
The HR Department  
Morde Food Industries,  
(Mr. Joshi Sir)  
Manchar

Subject:- Regarding visit to your Industry

Respected Sir,

It is our request to you for arrange the visit to your industry in this week. because according to syllabus of Savitribai Phule Pune University included industrial visit in nearby area. Our T.Y.B.Sc Mathematics students are interested to visit your industry because they are coming from nearby villages and they got 1 credit of this visit. The visitors are 4 girl students and 3 faculty members. In our visit party industry and demo part is included. We have already communicated to one of your official Mr. Prataprao Patil about this visit.

So please do needful for the same.

Thanking you.

Head  
Department of Mathematics

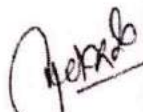
M/s. Morde Foods Pvt. Ltd.  
R.A.E. Manchar, Tal. Ambegaon  
Dist. Pune. Pin-410 503  
Tal. No. (02133) 226355  
Fax No. (02133) 223355

f.

Principal  
Annasaheb Awate Art's Commerce, &  
Hutatma Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune

**Rayat Shikshan Sanstha's**  
**Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College, Manchar**  
**Department of Mathematics**  
**Social Survey Record**

| Exam Seat No. | Students Name                | Class   | Mobile No. | Title                                   |
|---------------|------------------------------|---------|------------|---|
| 4887          | Badhekar<br>Pallavi<br>Gulab | T.Y.BSc | 7219498512 | Impact of Social Media on Mental Health |
| 4888          | Gangarde<br>Shamal<br>Arvind | T.Y.BSc | 7058092269 |   |
| 4889          | Thorat<br>Divya<br>Ganesh    | T.Y.BSc | 7709656438 | Smartphone Usage survey                 |
| 4890          | Thorat<br>Pooja<br>Sharad    | T.Y.BSc | 9004208963 |   |

  
Head  
Department of Mathematics  
HOD

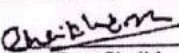


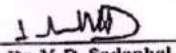
Rajyat Shikshan Sanstha's  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College,**  
 Manchar, Tal. Ambegaon, Dist. Pune, Maharashtra - 410 503, India  
 NAAC Re-accredited with 'A' Grade  
 Affiliated to Savitribai Phule Pune University, Pune  
 Organizes BOD, SPPU, Pune Sponsored  
**Two Day State Level Workshop**  
 on  
**Implementation of New Education Policy 2020:**  
**Adaptation of Guidelines on NHEQF & Curricular Framework & Credit System for Four**  
**Year Undergraduate Programme (FYUP)**  
 2<sup>nd</sup> & 3<sup>rd</sup> March, 2023

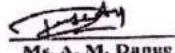
**Certificate**

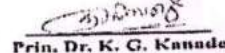
This is to certify that Mr/Ms/Ms/Prof/Dr. Thorat Divya Ganesh of \_\_\_\_\_ has successfully attended the State Level Workshop as a Participant/Member of Organizing Committee/Chairperson. He/She has presented paper entitled choice based credit system: Theoretical study.

His/Her active participation in the workshop is highly appreciated.

  
 Dr. Ezaz Sheikh  
 Coordinator

  
 Dr. V. D. Sndaphal  
 Convener

  
 Ms. A. M. Dange  
 Organising Secretary

  
 Prin. Dr. K. G. Kanude  
 Chairman



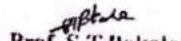
"Education through self-help is our motto" - Karmaveer  
 Rajyat Shikshan Sanstha's  
**Annasaheb Awate Arts, Commerce &  
 Hutatma Babu Genu Science College,**  
 Manchar, Tal. Ambegaon, Dist. Pune, MS, India-410503  
 NAAC (3rd Cycle) 'A' Grade with CGPA 3.09  
 "Best College Award-2018" by SPPU, Pune

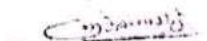


**YUVA TARANG MAHOTSAV-2023**  
 College Level 3rd March 2023

**Certificate**

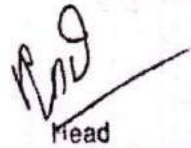
This is to certify that Dr./Mr./Ms. Thorat Divya Ganesh of TYBSc Class has participated and presented the Poster/Model entitled Life with and without Mathematics in the "AVISHIKAR / Yuva Tarang Project/Food Festival" at the college level organized by Rajyat Shikshan Sanstha's Annasaheb Awate College, Manchar on 03<sup>rd</sup> March 2023.

  
 Prof. S.T. Pokale  
 Co-ordinator

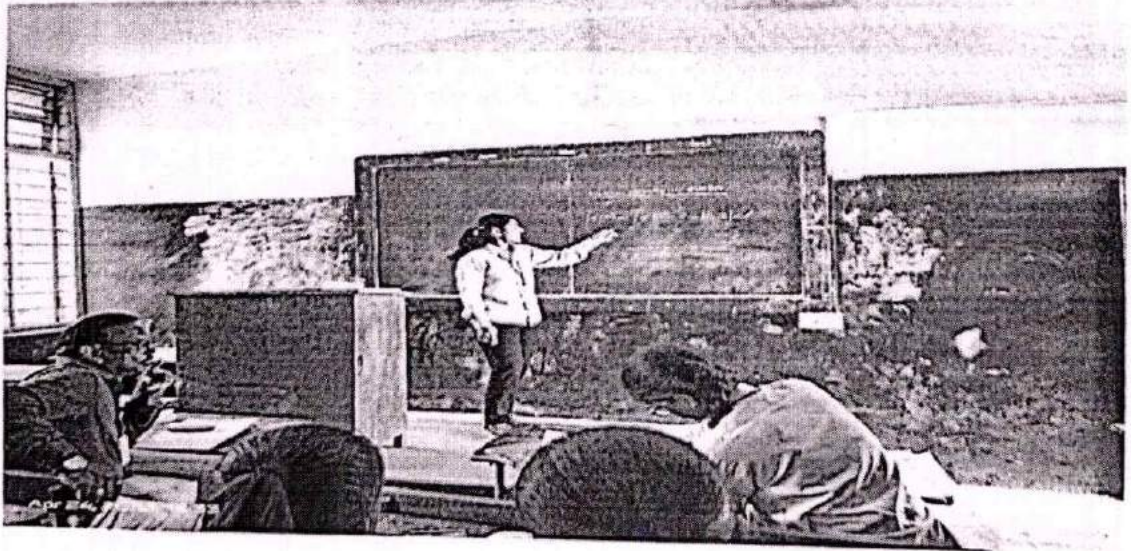
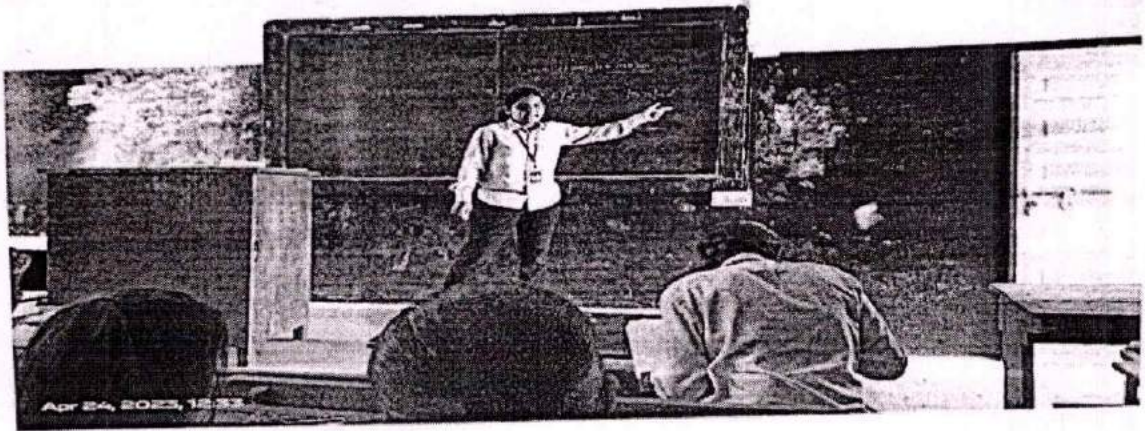
  
 Dr. K. G. Kanude  
 Principal

Rayat Shikshan Sanstha's  
**Annasaheb Awate College, Manchar**  
**Department of Mathematics**  
**T.Y.Bsc Sem II (2022-23)**  
**Seminar by students (5 marks)**

| Sr. No. | Name   | Assessment |                      |                     |             |                                 | Total (5)          |
|---------|--|------------|----------------------|---------------------|-------------|---------------------------------|--------------------|
|         |  | content    | Knowledge of subject | Communication skill | Eye contact | Ability to respond to questions |                    |
|         | BADHEKAR PALLAVI GULAB <small>Badhekar</small> | 1          | $\frac{1}{2}$        | 1                   | 1           | $4\frac{1}{2}$                  | $4\frac{1}{2} = 5$ |
| 2       | GANGARDE SHAMAL ARVIND <small>Gangarde</small> | 1          | 1                    | 1                   | 1           | $\frac{1}{2}$                   | $4\frac{1}{2} = 5$ |
| 3       | THORAT DIVYA GANESH <small>Thorat</small>      | 1          | 1                    | 1                   | 1           | $\frac{1}{2}$                   | $4\frac{1}{2} = 5$ |
| 4       | THORAT POOJA SHARAD <small>Thorat</small>      | 1          | 1                    | $\frac{1}{2}$       | 1           | 1                               | $4\frac{1}{2} = 5$ |



Head  
Department of Mathematics





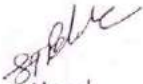


Royal Shikshan Sanstha's


**Annasaheb Awate Arts, Commerce and Hutatma Babu Genu  
Science College, Manchar, TalAmbegaon, Dist- Pune**

**Yuva- Tarang: 2023**

| Prize No                          | Project Name   | Student Name   |
|-----------------------------------|--|--|
| I                                 | Pain Reliver ( Model- Physics)   | Mourya Rohit Chandrabhan   |
| II                                | Bioplastic from Corn Starch<br>(Poster- Biotech)                             | Mandalik Uttara Rajendra<br>Chavan Rutuja Shivaji.   |
| II                                | Extraction and Application Of Chitosan<br>from Fish Scale<br>Poster- Zoology | Sarfarakhan Yusufkhan Pathan<br>Siddhant Sangram Gaikwad   |
| III                               | Important of Millets<br>Poster-Botany  | CHIKANE MAHIMA GORAKSHANATH<br>GHEVADE SIDDHIKA SANTOSH<br>PATHAN ARSHIYA RIYAJKHAN<br>PAWALE GAURI GULAB<br>TOTARE SAMRUDDHI RAMDAS |
| III                               | Electrolysis of Water  | Badakh Vishal<br>Thite Rushikesh<br>Pokharkar Kajal  |
| IV (1 <sup>st</sup> Runner<br>Up) | Automatic Hand Sanitizer Dispenser<br>Poster-Electronic Science              | Ms.Burse Akanksha Sunil<br>Ms.Doke Komal Rajendra  |
| IV (1 <sup>st</sup> Runner<br>Up) | Prepration of Medicament from fruit<br>Peels<br>Model-Zoology                | Alisha Shabbir Mulani<br>Aamina Hussain Khan Pathan<br>Kartiki Rajaram Rajguru<br>Shivani Ramchandra Lohakare                        |
| V (2 <sup>nd</sup> Runner<br>Up)  | Generation of Hydrogen Gas<br>Poster-Chemistry                               | Navale Kunal<br>Sangpal Rohit<br>Bagal Sanket  |
| V (2 <sup>nd</sup> Runner<br>Up)  | Application Of Mathematics-<br>Stereographic projection                      | Thorat Divya   |

  
Head  
Department Of Zoology  
A.A.College, Manchar



  
Principal  
Annasaheb Awate Arts, Commerce &  
Hutaima Babu Genu Science College,  
Manchar, Tal.Ambegaon, Dist.Pune

"Education Through Self-Help is Our Motto"- Karmaveer



*Rayat Shikshan Sanstha's*  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College**  
Manchar, Tal. Ambegaon, Dist. Pune, MS, India

**Department of Zoology**  
**Guest lecture on "Snakes in Manchar"**

Table Programme

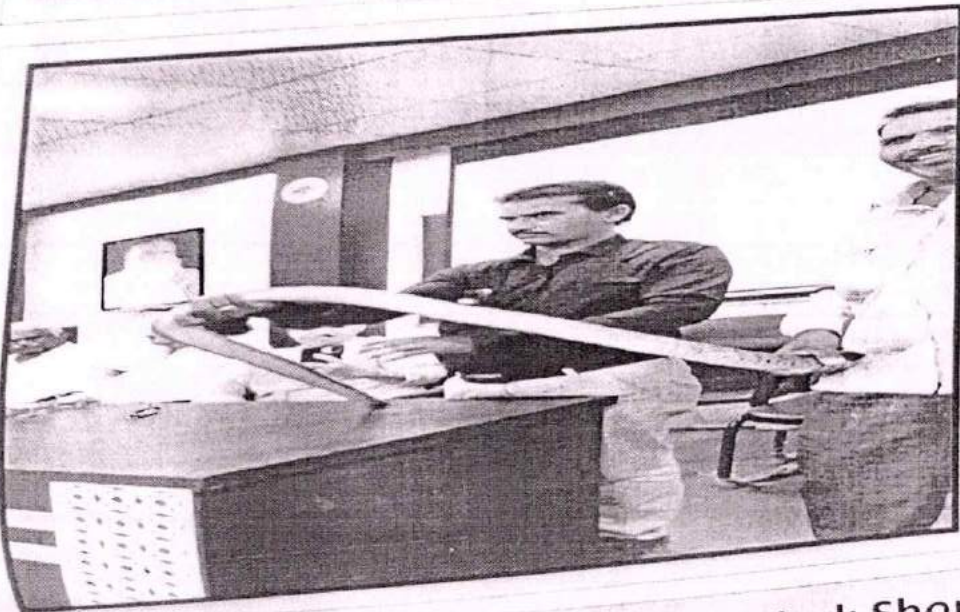
Date: 13/10/2022

Time: 11.00 Am to onwards

1) Rayat Film/ Film on College & Rayat Geet

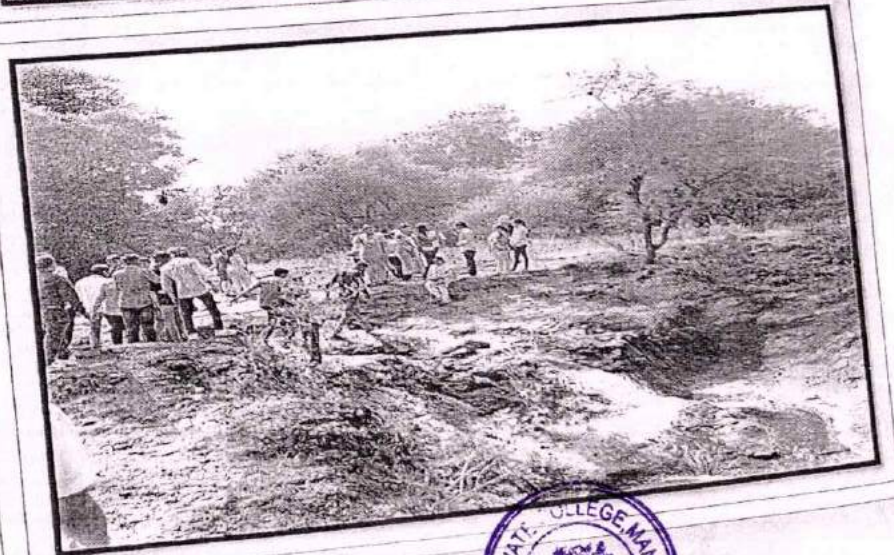
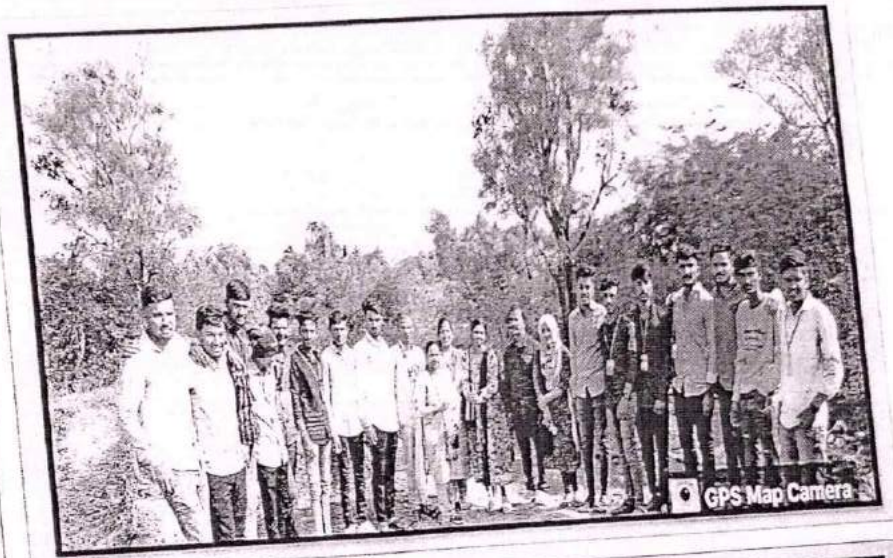
- 2) Welcome Address : **Mr. S. T. Pokale**  
Head, Dept. of Zoology,  
Annasaheb Awate College, Manchar
- 3) Introduction to the Resource Person : **Ms. H. J. Gavit**  
Asst. Prof., Dept. of Zoology  
Annasaheb Awate College, Manchar
- 4) Address by Resource Person : **Hon. Shri. Kapuskar**  
Snake Friend Manchar
- 5) Address by President : **Hon. Prin. Dr. K. G. Kanade**  
Principal,  
Annasaheb Awate College, Manchar
- 6) Vote of Thanks : **Ms. S. A. R Sayyed**  
Asst. Prof., Dept. of Zoology  
Annasaheb Awate College, Manchar
- 7) Anchor : **Dr. S. S. Patil**  
Asst. Prof., Dept. of Zoology  
Annasaheb Awate College, Manchar





Work Shop on Snake Handling

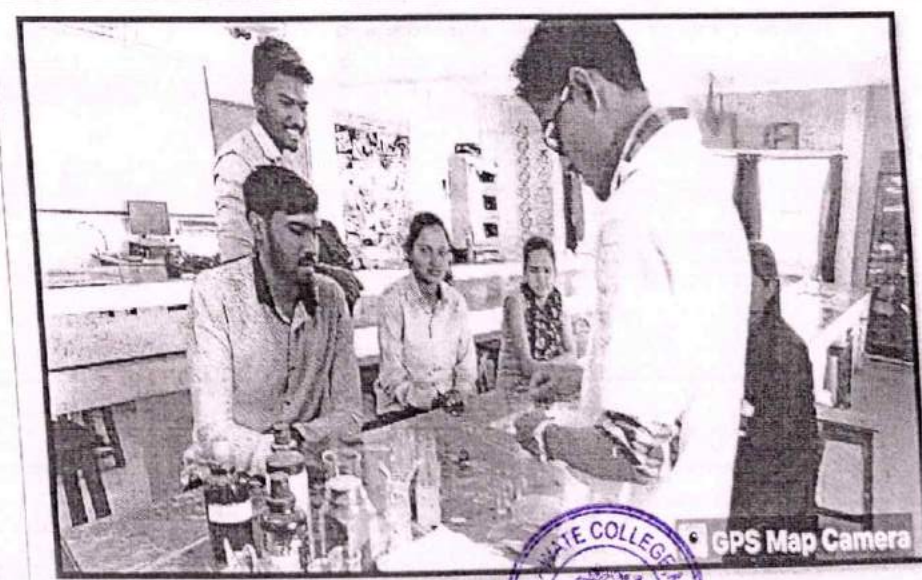
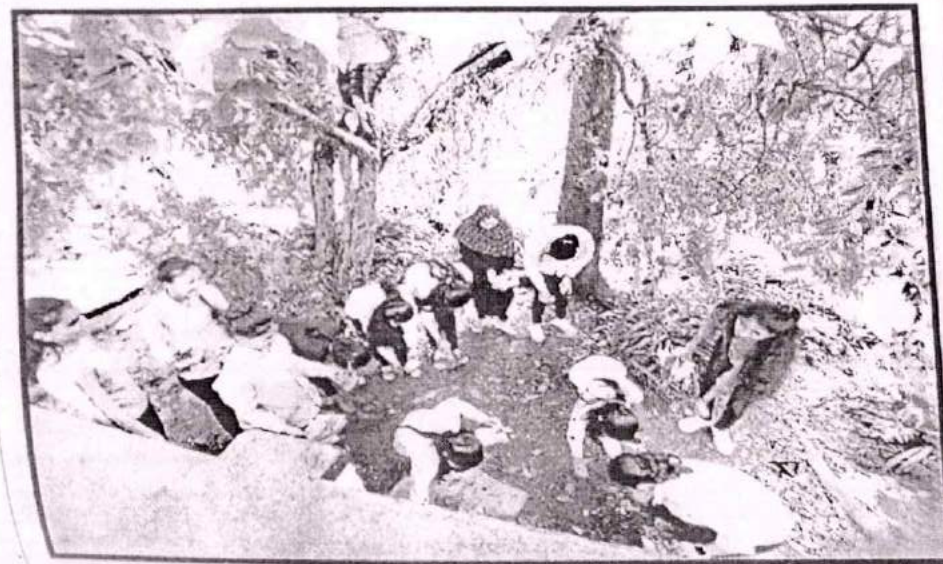
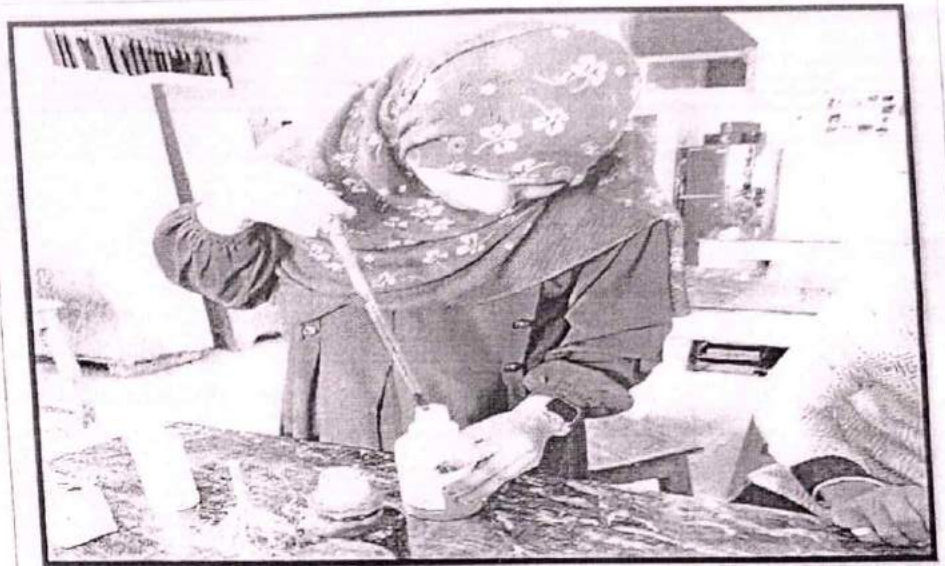




Field Visit





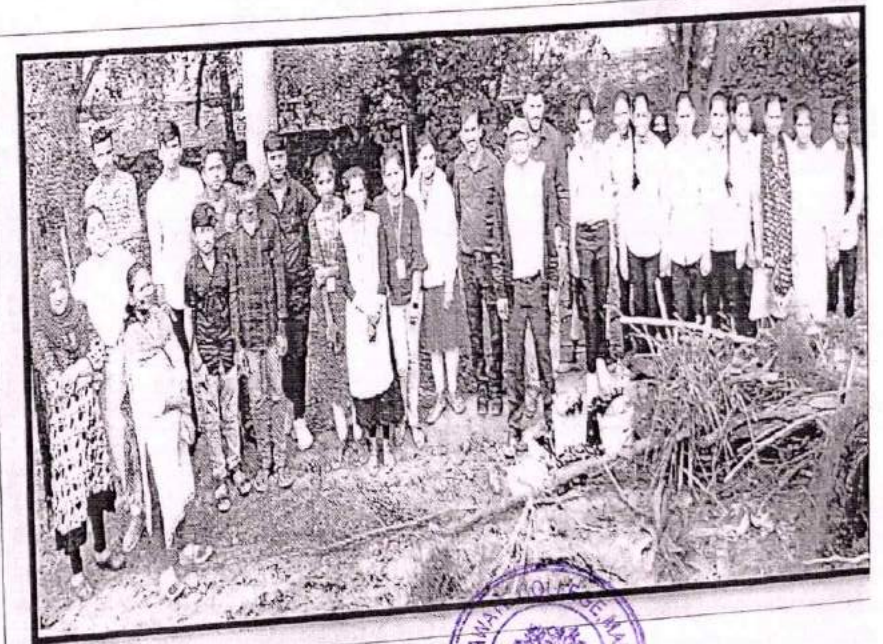
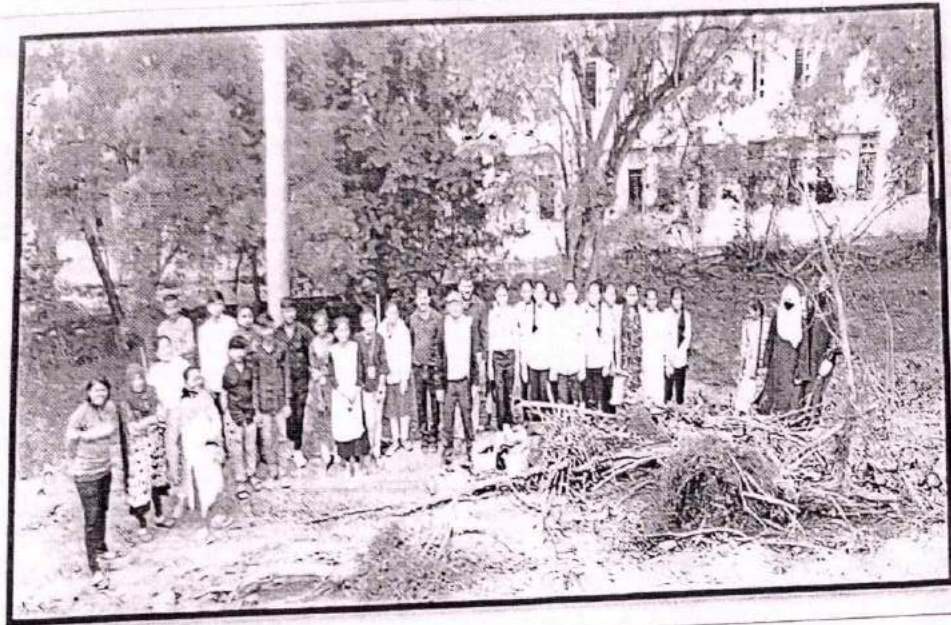


GPS Map Camera

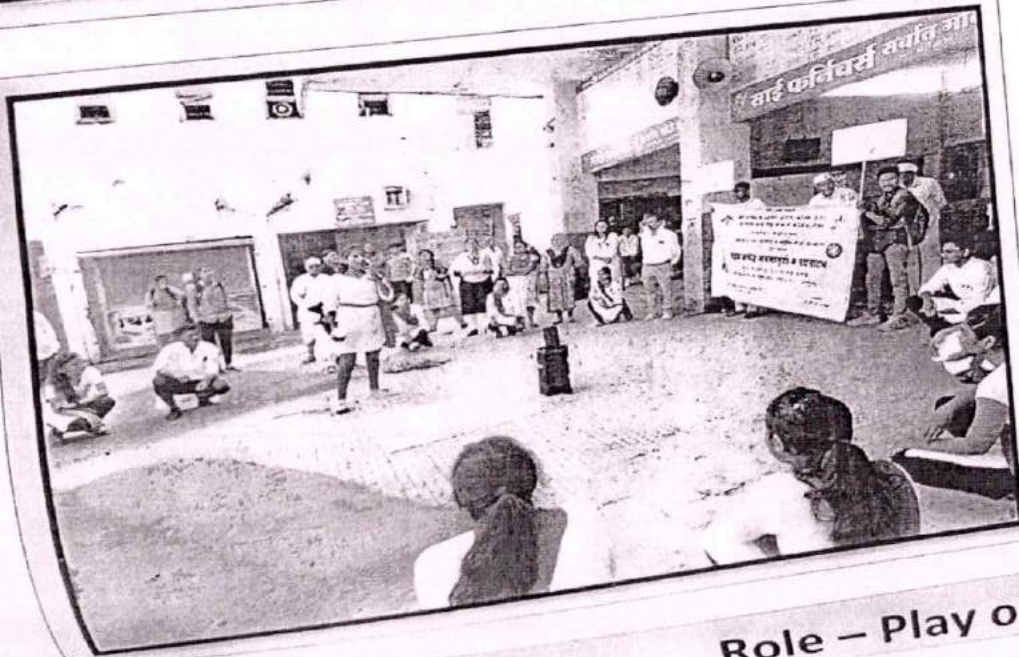
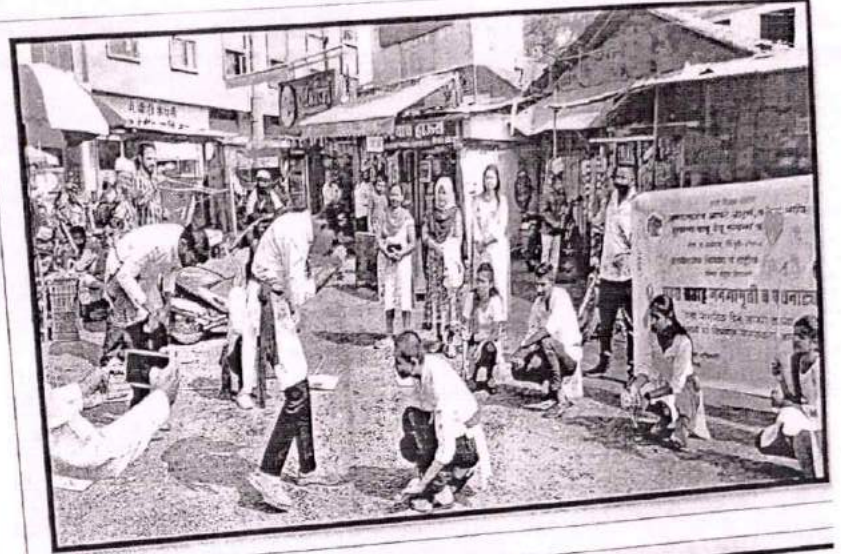


Hands On Training



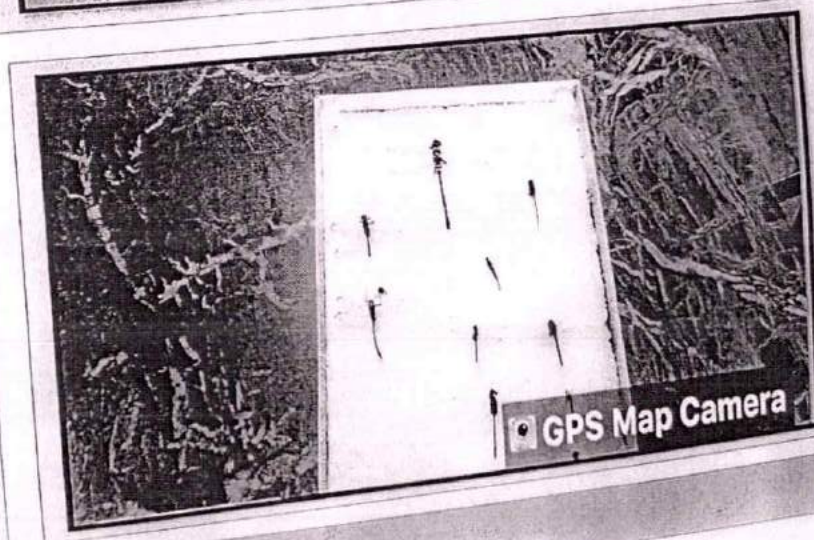
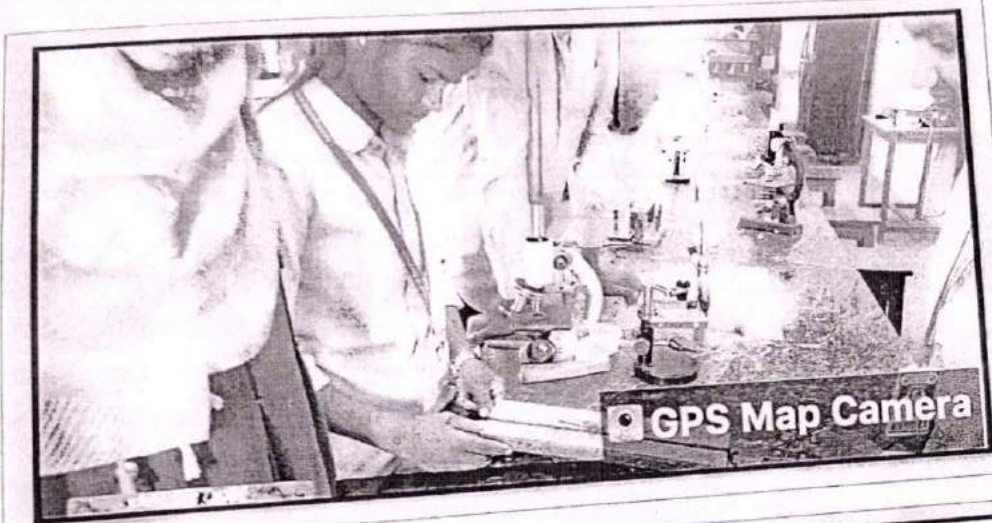


Extension Activity - Plastic Free Campus



Role – Play on AIDs Awareness





Dry Insect Preservation by Students



सुकाळ

# अण्णासाहेब आवटे महाविद्यालयात निसर्ग क्लबची स्थापना मंचरमधील विद्यार्थ्यांमध्ये पर्यावरणाची आवड निर्माण करण्यासाठी अनोखे उपक्रम

मंचर, ता. २३ : पंचमहासमुद्रातील अनेक महाविद्यालयात पर्यावरण संवर्धनाच्या निमित्ताने विद्यार्थ्यांमध्ये पर्यावरण विषयक आवड निर्माण करण्यासाठी अण्णासाहेब आवटे महाविद्यालयात निसर्ग क्लबची स्थापना व वेवसाहटचे उद्घाटन करण्यात आले. पंचमहासमुद्रातील विद्यार्थ्यांनी पर्यावरणासाठी वेळोवेळी पाण्याची व्यवस्था व तयार करून देणे १०० घट्टी झाडावर ठेवली. या उपक्रमाचे सर्वत्र कौतुक होत आहे.



मंचर (ता. अंबेगाव) : अण्णासाहेब आवटे महाविद्यालयात पर्यावरण संवर्धनाच्या निमित्ताने झाडांवर पक्ष्यांसाठी पाण्याची व्यवस्था आणि तयार केलेल्या घाट्यांची पाहणी काताना घान्यवर.

तज्ञ डॉ. प्रवीण तमगो यांच्या कल्पनात आले. "पर्यावरणासाठी हाने निसर्ग क्लबचे उद्घाटन पवित्र्यात असलेले पोके ओळखणे

आपले सावधान राहिले पाहिले महाविद्यालयात युवक-युवतींना पर्यावरण संवर्धनात सहभागी व्हावे," असे आवाहन डॉ. मन्नी यांनी केले.  
महाकुंभ पदवत्त (ता. अंबेगाव) प्राथमिक आरोग्य केंद्राचे डॉ. भास्कर तुकाराम मावळे यांना कोरोनाबाधा पुरस्कार देऊन सन्मानित करण्यात आले. प्राचार्य डॉ. के. जी. कानडे म्हणाले, "अण्णासाहेब आवटे महाविद्यालय परिवाराने १५ एकर क्षेत्रात पर्याय निवाससाठी विंग, बड, जापूळ, हिरडा, उंबर, चिंचळ, बटाण, बोर, आंबा, पेंत अदी तीन

हजारपेक्षा ज्ञान झाडे आहेत. तीन तळव अमलपाने पाण्याची देणगी व्यवस्था टपत आहे."  
पावेळी महाप्रदू पंचमहासमुद्राचे सचिव डॉ. कौतुब मीर, प्राचार्य डॉ. के. जी. कानडे, विज्ञान विभागाचे उपप्राचार्य डॉ. एस. एन. मोरभट्ट, कला विभागाचे उपप्राचार्य डॉ. वाळुसाहेब गाडी, भूगोल विभाग प्रमुख सपना जाले, प्रा. विजय मिडे अदी उपस्थित होते. प्रा. गणेश बाप यानी प्रास्ताविक व प्रा. संजयकुमार पोळळे यांनी आभार मानले. प्रा. डॉ. वैशाली सुपेकर यांनी मुख्यवाचन केले.

पुढारी

# पर्यावरण संवर्धनात सहभागी व्हा : डॉ. कानडे

मंचर : पुढारी वृत्तसेवा  
मानवावर ओढवणारा संपादक धोका विचारात घेऊन महाविद्यालयात युवक-युवतींनी पर्यावरण संवर्धनात सहभागी व्हावे, असे आवाहन प्राचार्य डॉ. के. जी. कानडे यांनी केले. मंचर (ता. अंबेगाव) येथील अण्णासाहेब आवटे महाविद्यालयात पर्यावरण तज्ञ डॉ. प्रवीण तमगो यांच्या हस्ते नेचर क्लबचे उद्घाटन करण्यात आले. याप्रसंगी डॉ. कानडे बोलत होते. महाप्रदू भूगोल परीक्षेचे सचिव डॉ. कौतुब मीर, प्रा. गणेश बाप, विज्ञान



मंचर येथील आवटे महाविद्यालयात बोलताना प्राचार्य डॉ. के. जी. कानडे.

विभाग प्रमुख प्रा. संजयकुमार पोळळे आदी उपस्थित होते. प्रा. विजय मिडे यांनी कार्यक्रमाचे नियोजन केले. प्राथमिक विभाग, भूगोल विभाग व राष्ट्रीय सेवा योजनेच्या विद्यार्थ्यांनी पक्ष्यांचे घाटे तयार करून परिसरातील झाडावर ठेवले. या प्रसंगी महाकुंभ पदवत्त आरोग्य केंद्राचे डॉ. भास्कर मावळे यांना कोविड योद्धा पुरस्काराने सन्मानित केले. युवसवालन प्रा. डॉ. वैशाली सुपेकर, तर प्रास्ताविक प्रा. गणेश बाप यांनी केले. प्रा. संजयकुमार पोळळे यांनी आभार मानले.

विभागाचे उपप्राचार्य डॉ. एस. एन. मोरभट्ट, कला विभागाचे उपप्राचार्य डॉ. वाळुसाहेब गाडी, भूगोल विभागाचे उपप्राचार्य डॉ. एस. एन. मोरभट्ट, कला विभागाचे उपप्राचार्य डॉ. वाळुसाहेब गाडी, भूगोल विभाग प्रमुख सपना जाले, प्रा. विजय मिडे अदी उपस्थित होते. प्रा. गणेश बाप यानी प्रास्ताविक व प्रा. संजयकुमार पोळळे यांनी आभार मानले.

My Green Edition  
Feb. 23, 2022 Page No. 6  
newspaper: pudhari.co.in

सुकाळ

# अण्णासाहेब आवटे महाविद्यालयात निसर्ग क्लबची स्थापना मंचरमधील विद्यार्थ्यांमध्ये पर्यावरणाची आवड निर्माण करण्यासाठी अनोखे उपक्रम

मंचर, ता. २३ : पंचमहासमुद्रातील अनेक महाविद्यालयात पर्यावरण संवर्धनाच्या निमित्ताने विद्यार्थ्यांमध्ये पर्यावरण विषयक आवड निर्माण करण्यासाठी अण्णासाहेब आवटे महाविद्यालयात निसर्ग क्लबची स्थापना व वेवसाहटचे उद्घाटन करण्यात आले. पंचमहासमुद्रातील विद्यार्थ्यांनी पर्यावरणासाठी वेळोवेळी पाण्याची व्यवस्था व तयार करून देणे १०० घट्टी झाडावर ठेवली. या उपक्रमाचे सर्वत्र कौतुक होत आहे.



मंचर (ता. अंबेगाव) : अण्णासाहेब आवटे महाविद्यालयात पर्यावरण संवर्धनाच्या निमित्ताने झाडांवर पक्ष्यांसाठी पाण्याची व्यवस्था आणि तयार केलेल्या घाट्यांची पाहणी काताना घान्यवर.

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आपले सावधान राहिले पाहिले महाविद्यालयात युवक-युवतींना पर्यावरण संवर्धनात सहभागी व्हावे," असे आवाहन डॉ. मन्नी यांनी केले.  
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हजारपेक्षा ज्ञान झाडे आहेत. तीन तळव अमलपाने पाण्याची देणगी व्यवस्था टपत आहे."  
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Departmental Contribution

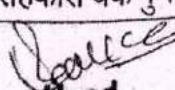


Rayat Shikshan Sanstha's  
**Annasaheb Awate Arts, Commerce & Hutatma  
Babu Genu College, Manchar.**

Department of Economics (2022-23)

M.A. II (Sem. IV) - List of Research Project

| Sr.No. | Name of the Project Guide | Name of the Student       | Name of the Project   |
|--------|---------------------------|---------------------------|---|
| 1      | Prof. Salke S.R           | Bhaiyye Tejashree Sunil   | गाय पालन व्यवसायाचा आर्थिक अभ्यास   |
| 2      | Prof. Salke S.R           | Gawade Akshay Sukhadev    | कराराद्वारे चालणाऱ्या कुकुट पालन व्यवसायाचा चिकित्सक अभ्यास   |
| 3      | Dr. Lamdade B.B.          | Ambawane Baburao Sakharam | आदिवासी विकास विभागांतर्गत आंबेगाव तालुक्यातील आश्रम शाळांचा प्राथमिक अभ्यास                                    |
| 4      | Dr. Lamdade B.B.          | Ichake Rutuja Namdev      | शिरूर तालुक्यातील कांदा उत्पादक शेतकऱ्यांचा अर्थशास्त्रीय अभ्यास  |
| 5      | Dr. Lamdade B.B.          | Jadhav Utkarsha Rajendra  | आंबेगाव तालुक्यातील कांदा उत्पादक शेतकऱ्यांचा अर्थशास्त्रीय अभ्यास  |
| 6      | Dr. Lamdade B.B.          | Kokane Ashwini Sambhaji   | खेड तालुक्यातील तांदूळ उत्पादनाचा आर्थिक अभ्यास   |
| 7      | Dr. Lamdade B.B.          | Nighot Vaishnavi Narayan  | आंबेगाव तालुक्यातील स्वयंसहायता महिला बचत गटाचा चिकित्सक अभ्यास   |
| 8      | Dr. Desai V.R.            | Paradhi Rohit Suryakant   | पुणे जिल्ह्यातील आंबेगाव तालुक्यातील आदिवासी (महादेव कोळी) समाजाचा आर्थिक व सामाजिक अभ्यास                      |
| 9      | Dr. Desai V.R.            | Salve Prasheek Shashikant | Study of Dairy Co-operative in Western Ambegaon Tehsil  |
| 10     | Dr. Desai V.R.            | Shendge Vishal Eknath     | आंबेगाव तालुक्यातील पतसंस्थांचा चिकित्सक अभ्यास   |
| 11     | Dr. Desai V.R.            | Sonavale Shubham Vijay    | भारतातील बांधकाम क्षेत्राचा चिकित्सक अभ्यास (विशेष संदर्भ: आंबेगाव तालुका) 2022-23                              |
| 12     | Prof. Gholap K. S.        | Makare Lakshita Khandu    | मंजर विभागातील वीज लाभधारक शेतकऱ्यांचा चिकित्सक अभ्यास  |
| 13     | Prof. Gholap K. S.        | Thorat Karuna Baban       | आंबेगाव तालुक्यातील दुग्ध उत्पादन   |
| 14     | Prof. Gholap K. S.        | Waghmare Ganesh Satyawan  | कृषी कर्ज आणि अकार्यक्षम मालमतेच्या क्रेडिट मूल्यांकन प्रक्रियेचा अभ्यास; पुणे जिल्हा मध्यवर्ती सहकारी बँक पुणे |

  
Head  
Department of Economics  
A. A. College, Manchar

स्थापना : १९६६



\* प्राचार्य \*

डॉ. गायकवाड एन. एस.  
एन.एस्सी., पी.एच.डी.

"क्वाटर्ली शिक्षण हेच आमचे ड्रीम !" - कर्मवीर  
रयत शिक्षण संस्थेचे,

अण्णासाहेब आवटे आर्ट्स, कॉमर्स, हुतात्मा बाबू गेजू  
सायन्स कॉलेज व सौ. कुसुमबेन कांतीलाल शाह  
आर्ट्स, कॉमर्स, सायन्स ज्युनियर कॉलेज  
मंचर, ता. आंबेगाव, जि. पुणे. पिन - ४१०५०३.

'नॅक' द्वारा प्रमाणित 'अे ग्रेड'

ID. No. - PU/PN/ASC/017/1966 ज्युनियर कॉलेज क्रमांक- J11.01.001  
A.I.S.H.E. - C - 41221



\* संस्थापक \*

पद्मभूषण डॉ. कर्मवीर  
भाऊराव पाटील डी.लिट

जा. क्र. १६८/२०१९-२०

दिनांक : १०/०१/२०२०

प्रति.

मा. शाखा व्यवस्थापक,

दि रयत सेवक को-ऑपरेटिव बँक लि. सातारा,

शाखा - मंचर, ता. आंबेगाव,

जि. पुणे.



विषय : बँकेला भेट देण्याबाबत...

महोदय,

वरील विषयास अनुसरून विनंती की, आमच्या महाविद्यालयातील नियोजन व चर्चा मंडळ व शॉर्ट टर्म कोर्स अंतर्गत FYBA व SYBA या वर्गातील विद्यार्थ्यांना आधुनिक बँकांच्या कामकाजाचे व ई-बँकिंगचे आकलन व्हावे, म्हणून सोमवार दि. १३/०१/२०२० रोजी सकाळी १०.३० वाजता भेट देऊ इच्छितो. तरी आमच्या विद्यार्थ्यांना भेटीची संधी मिळावी हि विनंती कळावे,

आपला विश्वासू,

प्राचार्य

अण्णासाहेब आवटे कॉलेज,

मंचर - ४१० ५०३

10 JAN 2020







EDUCATION THROUGH SELF HELP IS MOTTO KARMAVEER

Rayat Shikshan Sanstha's

# Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College

Manchar, Tal. Ambegaon, Dist. Pune 410503

## CERTIFICATE

THIS IS TO CERTIFY THAT

Mr. / Ms. / Mrs. Maade Nilam Eknath

Of Class T.Y. BA. Has Successfully Completed The ~~Field~~ Visit/ Industrial Visit/ ~~Study~~ tour/ Survey.

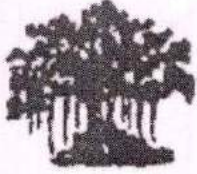
To Place Ozar Department of Economics.

During Academic Year 2022-2023

Head

Department of Economics  
A. A. College, Manchar

Estd.1966



\* PRINCIPAL \*  
Dr. Kanade K. G.  
M.Sc., M.Phil., Ph.D.

"Education through self help is our Motto." KARMAVEER

Rayat Shikshan Sanstha's

ANNASAHEB AWATE ARTS, COMMERCE,  
HUTATMA BABU GENU SCIENCE COLLEGE &  
SOU. KUSUMBEN KANTILAL SHAH ARTS,  
COMMERCE, SCIENCE JUNIOR COLLEGE

Manchar, Tal. Ambegaon, Distt. Pune (Maharashtra) - 410 503.

ACCREDITED 'A' BY NAAC

ID. No. - PU/PN/ASC/017/1966

Junior College No. - J11.01.001

A.I.S.H.E. - C - 41221



\* FOUNDER \*  
Padmabhushan  
Dr. Karmaveer  
Bhaurao Patil, D. Litt.

Ref. No. 1051/2022-23

Date : 08/12/2022

To,

Hon. Manager,

Shiv Baba Food and Beverage Company Limited,  
Hivare Khurd, Taluka - Junnar, District Pune.

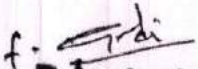
**Subject: Regarding industrial visit ...**

Respected Sir,

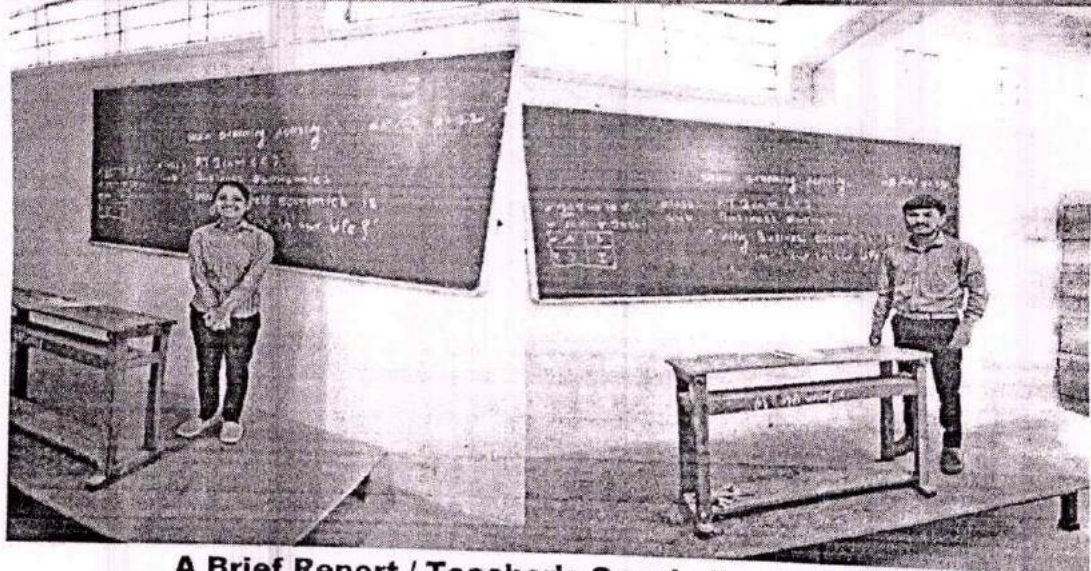
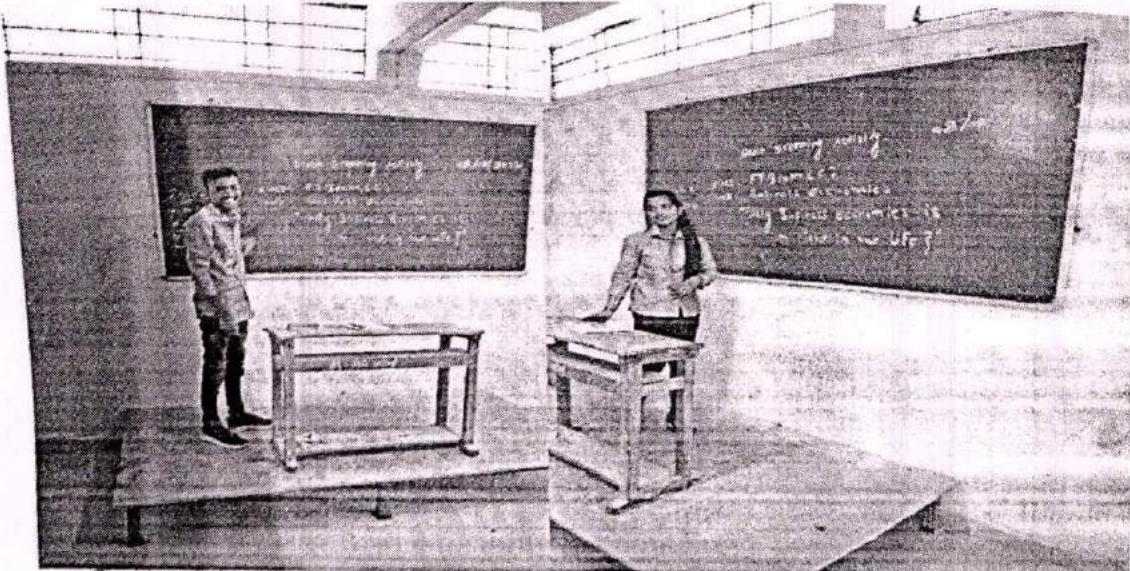
With reference to above mentioned subject our college students from Department of Economics are planned to visit your well known food and beverage Industries. A visit is for the study purpose.

Please allow permission to visit the industry on 9<sup>th</sup> December 2022 at 9:30 a.m.

Thanking you.

f.   
Principal  
Annasaheb Awate College,  
Manchar, Dist. Pune

**Brainstorming Session No.:**



**A Brief Report / Teacher's Concluding Remarks**

डॉ. देसाई जी आर. यांनी FYBcom (C) या वर्गासाठी दि. 8/8/2022 रोजी सकाळी 8.00 - 8.45 मधून वाजता Brain storming Activity घेतली. यासाठी Why Business economics is important in our life या विषयावर विद्यार्थ्यांनी आपली सकारात्मक मते मांडली. बहुतेक विद्यार्थ्यांना सधर विषय समजण्यास व Brain storming होण्यास मदत झाली.

DR  
Signature of the Teacher

*Signature*  
Signature of the HoD  
Head

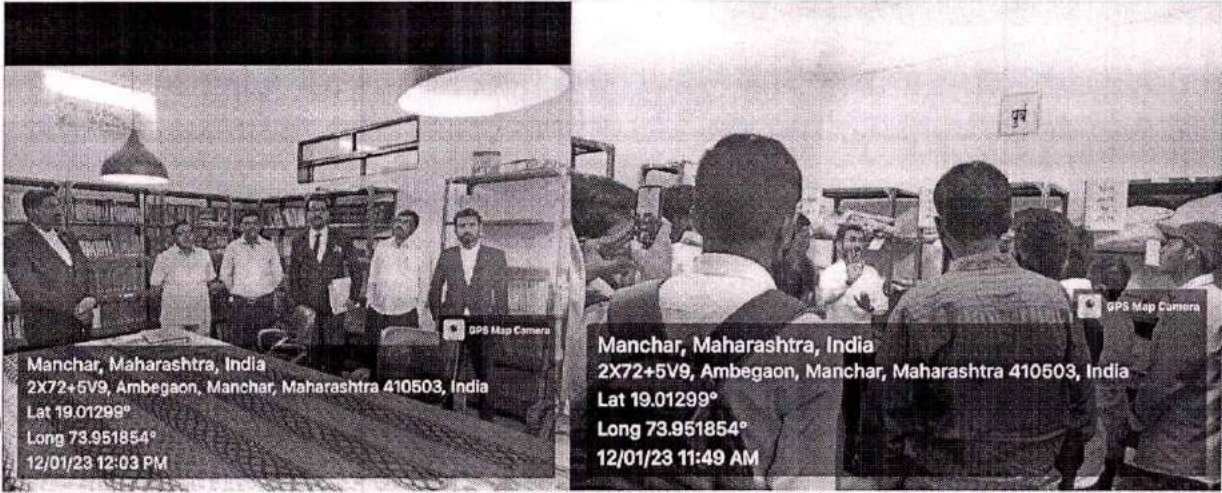


Signature of the Principal


Dr. Desai V R

Department Of Economics  
A. A. College Manchar

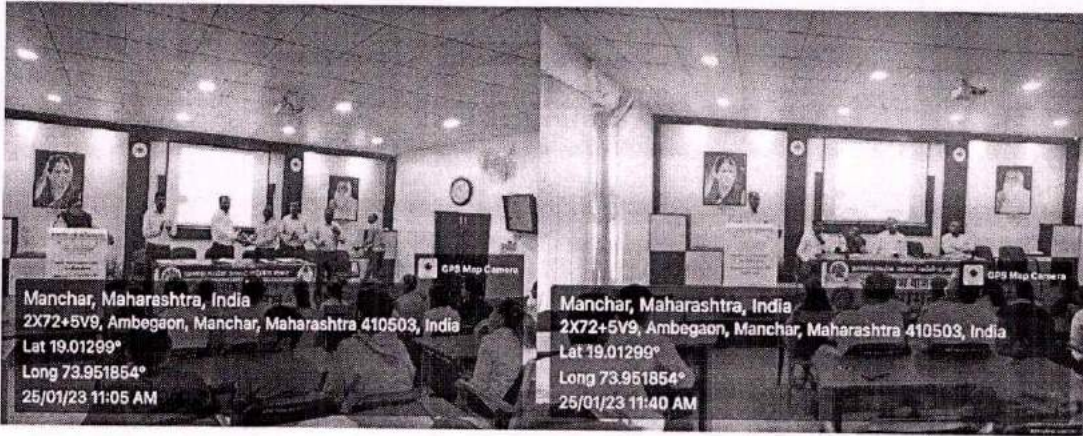
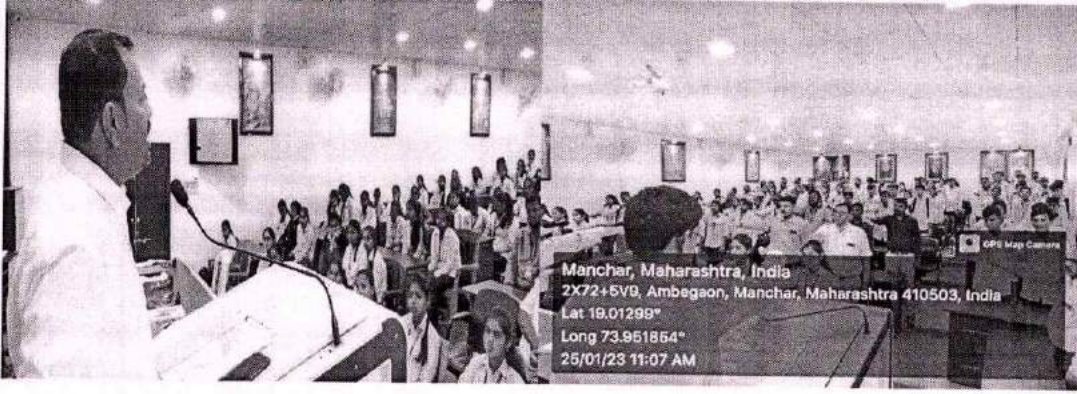
रयत शिक्षण संस्थेचे,  
अण्णासाहेब आवटे आर्ट्स, कॉमर्स, व हुतात्मा बाबू गेणू सायन्स कॉलेज  
सौ.कुसुमबेन कांतीलाल शाह आर्ट्स, कॉमर्स, सायन्स ज्युनिअर कॉलेज  
मंचर, ता. आंबेगाव, जि. पुणे.  
राज्यशास्त्र विभाग  
क्षेत्रभेट- दिवाणी व फौजदारी न्यायालय घोडेगाव



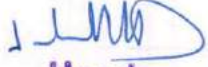
रयत शिक्षण संस्थेचे अण्णासाहेब आवटे महाविद्यालयातील राज्यशास्त्र विभागांतर्गत दि.१२जानेवारी २०२३ रोजी क्षेत्र भेट घेण्यात आली. सदर भेट ही दिवाणी व फौजदारी न्यायालय घोडेगाव ह्या ठिकाणी घेण्यात आली. मा. एम.ए.के.शेख मडम यांनी विद्यार्थ्यांशी कायदेविषयक व न्यायालयीन प्रक्रिये संदर्भात संवाद साधला. सदर भेटीत मुद्देमालकक्ष, अभिलेखकक्ष, सुनावणीकक्ष, ह्यावर विद्यार्थ्यांना मार्गदर्शन करण्यात आले.दिवाणी न्यायालयातील ज्येष्ठ वकिल अॅड. श्रीयुत आर्वीकर,अॅड.गावडे,अॅड.काळे,अॅड.निघोट,अॅड.शेळके यांनी देखील विद्यार्थ्यांना मार्गदर्शन केले. विद्यार्थ्यांना प्रत्यक्ष न्यायालयीन कामकाजाचे प्रात्यक्षिक अनुभवता आले.सदर क्षेत्र भेटीस २४ विद्यार्थ्यांनी सहभाग घेतला.

  
Head  
Dept. of Politics  
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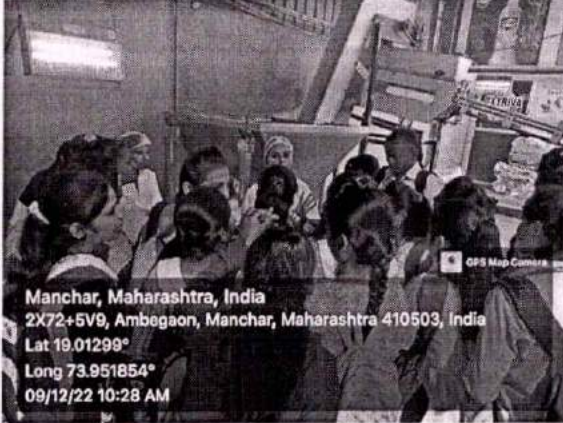
रयत शिक्षण संस्थेचे,  
अण्णासाहेब आवटे आर्ट्स, कॉमर्स, व हुतात्मा बाबू गेणू सायन्स कॉलेज  
सौ.कुसुमबेन कांतीलाल शाह आर्ट्स, कॉमर्स, सायन्स ज्युनिअर कॉलेज  
मंचर, ता. आंबेगाव, जि. पुणे.  
राज्यशास्त्र विभाग व विद्यार्थी विकास मंडळ  
राष्ट्रीय मतदार दिनानिमित्त विशेष व्याख्यान




राज्यशास्त्र विभाग आणि विद्यार्थी विकास मंडळ यांचे संयुक्त विद्यमाने आयोजित दि.२५/२/२०२३ रोजी मतदार जनजागृती दिन कार्यक्रम संपन्न झाला. याप्रसंगी अड. निलेश शेळके यांनी विद्यार्थ्यांना मार्गदर्शन करताना भारतीय निर्वाचन आयोगाची स्थापना, निर्वाचन आयोगाचे अधिकार व कार्य, महत्त्व या गोष्टींचा आढावा घेतला तसेच मताधिकार आणि आपले कर्तव्य याविषयी मार्गदर्शन करताना मतदारांनी लोक लोकशाही मजबूत करण्यासाठी आपला मतदानाचा अधिकार निर्भीडपणे वापरला पाहिजे असे मत त्यांनी व्यक्त केले. कार्यक्रमाच्या अध्यक्षस्थानी महाविद्यालयाचे उपप्राचार्य डॉ. बाळासाहेब गार्डी हे होते त्यांनी आपल्या अध्यक्षीय मनोगतात विद्यार्थ्यांनी मतदार यादीत नाव नोंदणी करणे हे अत्यंत महत्त्वाचे कर्तव्य आहे. त्यानंतरच आपणाला मतदान करता येते. आपले मतदानाचे कर्तव्य लालशेपोटी न करता सदसद विवेक बुद्धीने मतदान करावे तसेच सामाजिक, राजकीय जाणवा लक्षात घेऊन आणि राजकीय प्रक्रिया नीट समजून घेऊन राजकीय प्रक्रियेमध्ये सक्रिय सहभागी होण्याचे आणि अभ्यासू वृत्तीने पुढे जाण्याचे आवाहन विद्यार्थ्यांना केले. कार्यक्रमाचे प्रास्ताविक व स्वागत प्रा. डॉ. विलासराव सदाफळ यांनी केले तसेच याप्रसंगी सामूहिक प्रतिज्ञा वाचन प्रा. तानसेन रणदिवे यांनी केले. तर कार्यक्रमाचे आभार प्रा. मारुती गुंजाळ यांनी केले. सदर कार्यक्रमास प्रा. संजय पोकळे, प्रा. डॉ. गणेश वाघ प्रा. रमेश गावडे, प्रा. सालके, प्रा. आर. पी. मुठे, प्रा. आर. पी. पारधी प्रा. अविनाश झावरे, प्रा. दिनकर थोरात, प्रा. भगवान ढगे यांच्या सहकार्याने हा कार्यक्रम यशस्वी संपन्न झाला. सदर कार्यक्रमात ८४ विद्यार्थी सहभागी झाले.

  
Head  
Dept. of Politics  
A. A. College, Manchar

रयत शिक्षण संस्थेचे,  
अण्णासाहेब आवटे आर्ट्स, कॉमर्स, व हुतात्मा बाबू गेणू सायन्स कॉलेज  
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मंचर, ता. आंबेगाव, जि. पुणे.  
राज्यशास्त्र विभाग  
**Industrial Visit- Oxyriva (Otur)**



रयत शिक्षण संस्थेचे अण्णासाहेब आवटे महाविद्यालयातील राज्यशास्त्र व अर्थशास्त्र विभागांतर्गत दि. ९ डिसेंबर २०२२ रोजी औद्योगिक भेट घेण्यात आली. सदर भेट ही शिव बाबा फूड ऑन्ड बेव्हेरागे कंपनी हिवरे खुर्द ह्या ठिकाणी घेण्यात आली. मा.शुभांगी लासकर यांनी विद्यार्थ्यांना उत्पादन प्रक्रिया कशी होते हे प्रात्यक्षिक दाखवून सांगितले. कंपनीचे व्यवस्थापक मा.सागर वायकर यांनी विद्यार्थ्यांना उद्योगाची स्थापनेपासून ते आता पर्यंत उद्योगाची वाटचाल कशाप्रकारे होत गेली तसेच उद्योगात वाढ करत असताना कोणत्या अडचणी आल्या व त्या कशा प्रकारे सोडवाव्यात ह्यावर विद्यार्थ्यांना मार्गदर्शन करण्यात आले. तसेच कोणाला एखादा लघुउद्योग स्थापन करायचा असल्यास आम्ही सहकार्य करू असे आश्वासन दिले. सदर औद्योगिक भेटीस ४० विद्यार्थी सहभाग घेतला. तसेच राज्यशास्त्र विभाग प्रमुख प्रा. डॉ.सदाफळ सर, प्रा.सालके सर अर्थशास्त्र विभाग प्रमुख, प्रा. रणदिवे सर, प्रा. बांगर मॅडम ह्या शिक्षकांनी सहभाग घेऊन विद्यार्थ्यांना मार्गदर्शन केले.

  
Head  
Dept. of Politics  
A. A. College, Manchar

Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune

**STUDENT CENTRIC ACTIVITIES**

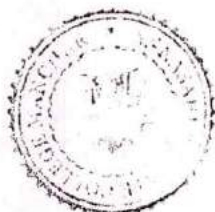
Name of department :BBA-CA

Academic  
Year:2022-23

**SUMMARY**

| Sr. No. | Student Centric Activities     | Activities organized   | Date/ No.  | No. of Beneficiaries |
|---------|--------------------------------|--|------------|----------------------|
| 1.      | <b>Experiential Learning</b>   | <b>Example</b>   | 12/6/2022  | 134                  |
|         |                                | 1. Practicums<br>2. Educational tour to SCC Pvt Ltd                                  |            | 41                   |
| 2.      | <b>Participative Learning</b>  | <b>Example</b>   | 20/10/2022 | 22                   |
|         |                                | 1. Quiz  | 21/10/2022 | 36                   |
|         |                                | 2. Group discussion  | 18/2/2022  |                      |
|         |                                | 3. Seminars/ webinars/ conferences   | 14/4/2022  |                      |
|         |                                | 4. Students' seminars  | 18/11/2023 | 40                   |
|         | 5. Student Seminar Sybba(CA)   |  | 60         |                      |
| 3.      | <b>Problem Solving Methods</b> | <b>Example</b>   |            | 134                  |
|         |                                | 1. Assignments on problem-based questions<br>2. Practical on problem- based question |            | 134                  |
| 4.      | <b>ICT methods used</b>        | <b>Examples</b>  | 57         |                      |
|         |                                | 1. List of ppt<br>2. Softwares used  | 8          |                      |

Prepared by



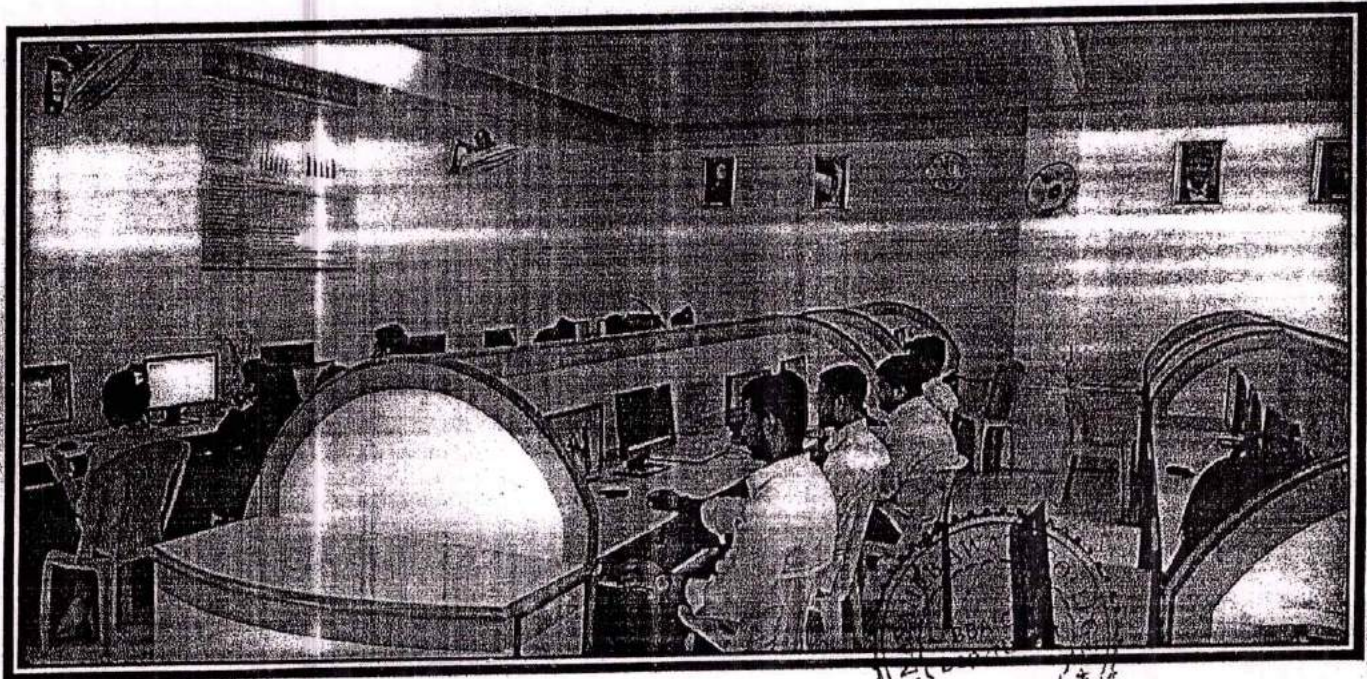
Approved by

Rayat Shikshan Sanstha's  
Annasaheb Awate College, Manchar

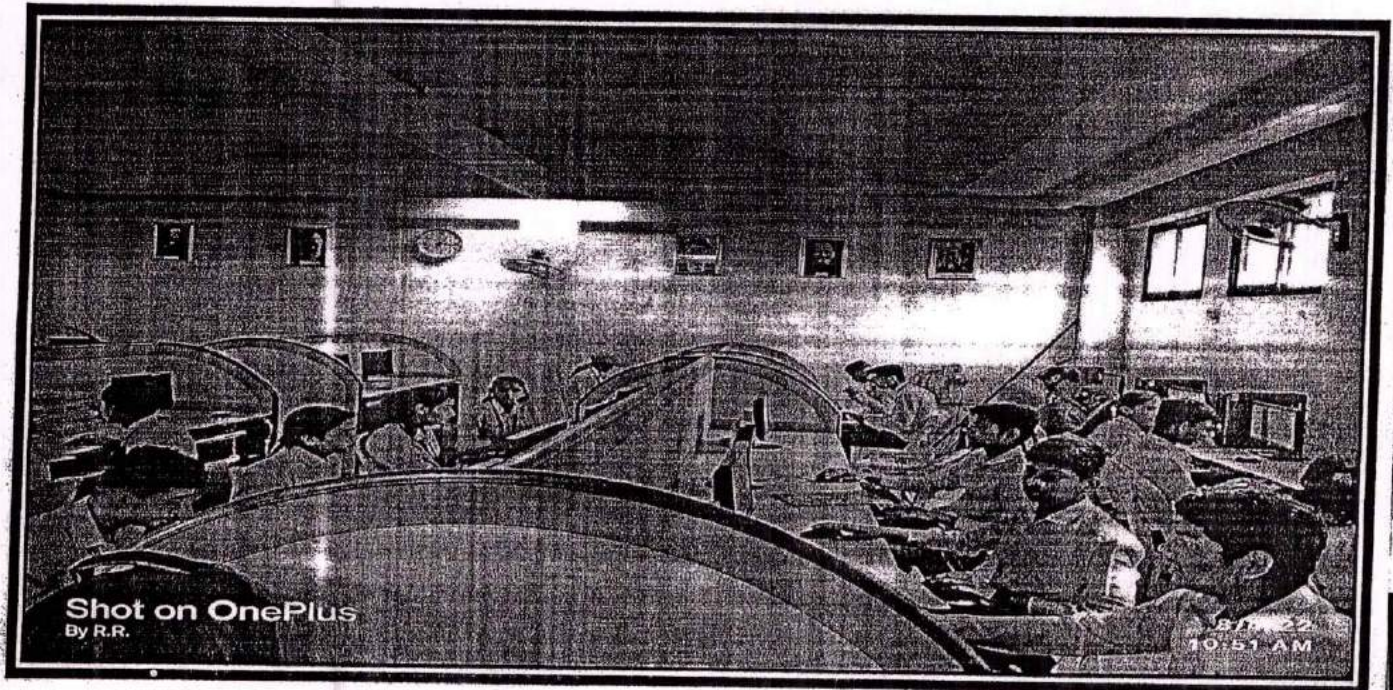
Experimental Learning

To determine the best practices in experiential learning, it is necessary to first define experiential learning.

For the student of TY BBA(CA) arrange a experimental learning method in computer lab on every Friday & Saturday. All 43 student are attended the practical session on time and learn the coding in various language like Android, Python , C++ etc.








When students participate in experiential education opportunities, they gain:

- A better understanding of course material
- A broader view of the world and an appreciation of community
- Insight into their own skills, interests, passions, and values
- Opportunities to collaborate with diverse organizations and people
- Positive professional practices and skill sets
- The gratification of assisting in meeting community needs
- Self-confidence and leadership skills



  
H.O.D.  
BBA(CA) Department  
A.A.College, Manchar 410 503

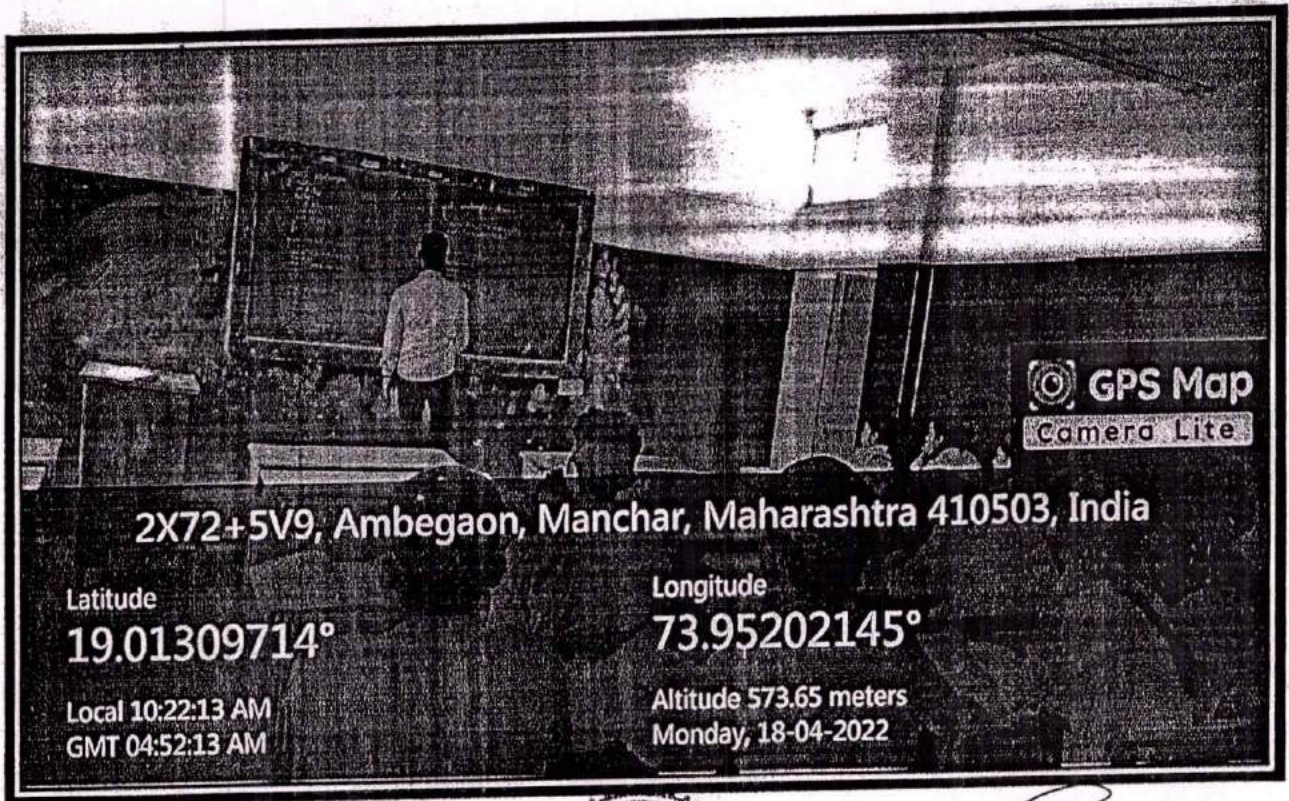
BBA(CA) Dept


Rayat Shikshan Sanstha's  
Annasaheb Awate College, Manchar

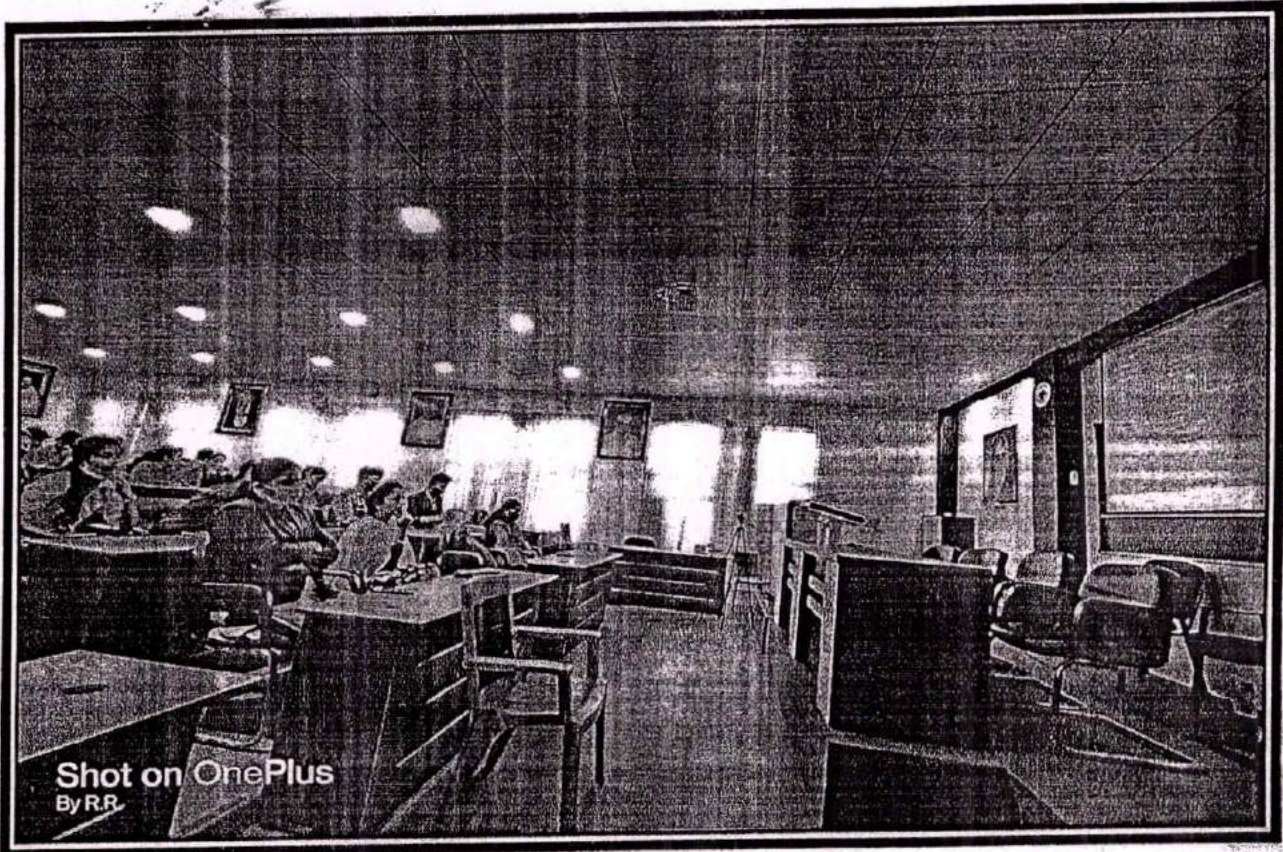
Participative Learning

Participative teaching methods are didactic methods, strategies and techniques that are focused on encouraging students to become actively involved in their learning process.

All the students of FY, SY & TY BBA (CA) are participated in participative Learning method. They understand and solve the concept, methods and problem during this learning method



  
H.O.D.  
BBA(CA) Department  
A.A.College, Manchar 410 503



Head

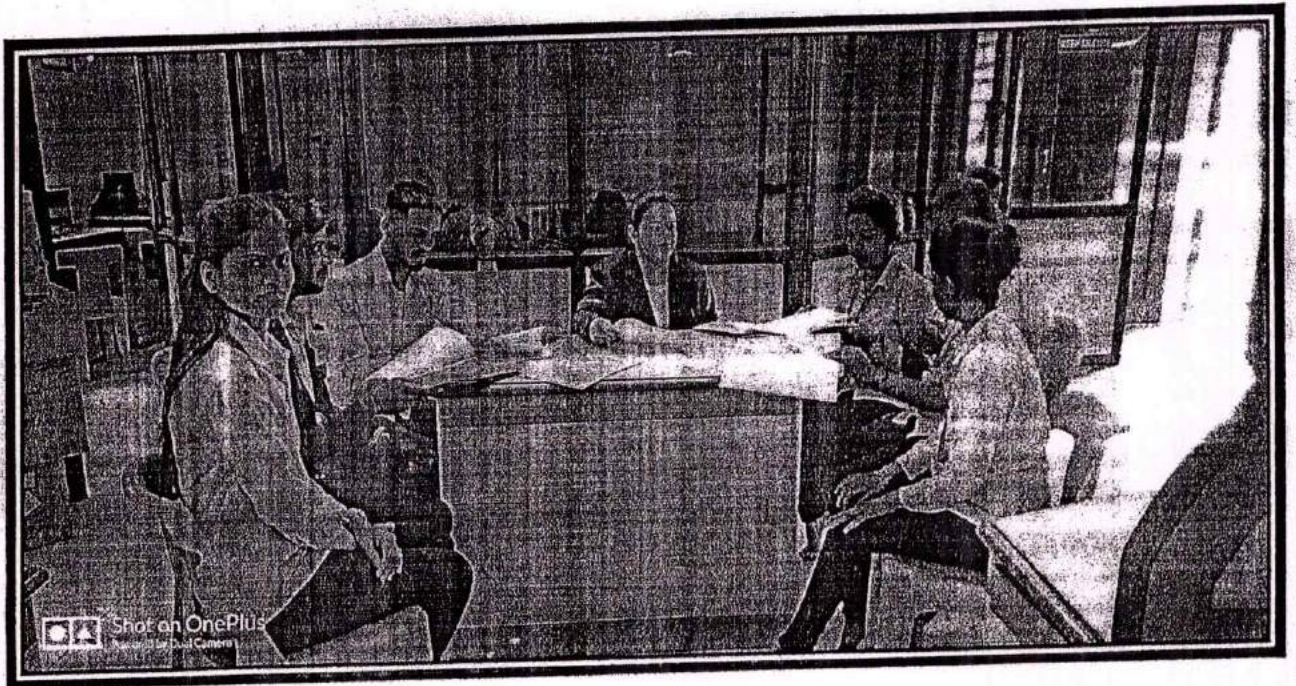
BBA(CA) Dept

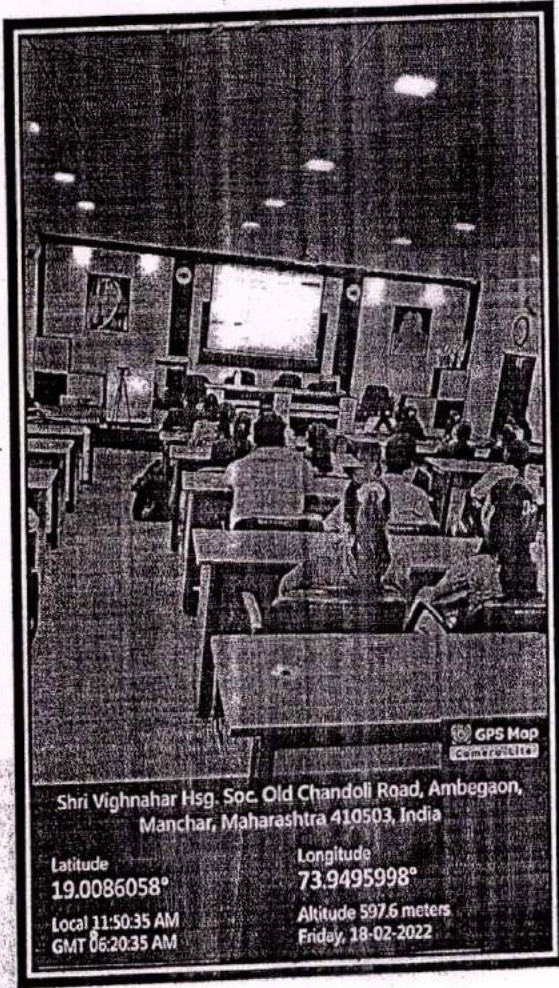
H.O.D.

BBA(CA) Department  
A.A. College, Manchar 410 503

Rayat Shikshan Sanstha's  
Annasaheb Awate College, Manchar  
Problem Solving Methods

All the student of FY, SY, & TYBBA(CA) attend the lecture method problem solving. Student solve various program during the year. Student convert some program in minimum time compilation and data storage






### Principles for teaching problem solving

1. Model a useful problem-solving method. Problem solving can be difficult and sometimes tedious.
2. Teach within a specific context.
3. Help students understand the problem.
4. Take enough time.
5. Ask questions and make suggestions.
6. Link errors to misconceptions.



  
H.O.D.  
BBA(CA) Department  
A.A. College, Manchar 410 503  
BBA(CA) Dept



Estd.1966



\* PRINCIPAL \*  
Dr. Kanade K. G.  
M.Sc., M.Phil., Ph.D.

"Education through self help is our Motto." KARMAVEER

Rayat Shikshan Sanstha's

**ANNASAHEB AWATE ARTS, COMMERCE,  
HUTATMA BABU GENU SCIENCE COLLEGE &  
SOU. KUSUMBEN KANTILAL SHAH ARTS,  
COMMERCE, SCIENCE JUNIOR COLLEGE**

Manchar, Tal. Ambegaon, Distt. Pune (Maharashtra) - 410 503.

ACCREDITED 'A' BY NAAC

ID. No. - PU/PN/ASC/017/1966

Junior College No. - J11.01.001

A.I.S.H.E. - C - 41221



\* FOUNDER \*  
Padmabhushan  
Dr. Karmaveer  
Bhaurao Patil, D. Litt.

Ref. No. 1150/2022

Date : 12/02/2022

To,  
Mrs. Dipali V. Jadhav (Dhumal)  
Assi. Professor,  
Anantrao Thopate College,  
Bhor, Pune

Respected mam,

We are thankful to you for your enlightening and inspiring lecture to our student in "software project development" on 18<sup>th</sup> February 2022. It will certainly help our student to have trust in this area.

Thanking you once again.

Yours Sincerely

*Principal*  
Principal

Annasaheb Awate College,  
Manchar, Dist.Pune

O/C

Phone No. - S.T.D. (02133) Office : 223160 Principal : 225721 Computer : 223860 Resi.: 223312 Fax : 223160  
Website : aacmanchar.com E-mail : annasahebawate2007@yahoo.com / aac.manchar@gmail.com skype : aac.manchar1

Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune

**STUDENT CENTRIC ACTIVITIES**

Name of department :B.voc (Accounting and Taxation) Academic Year:2022-2023

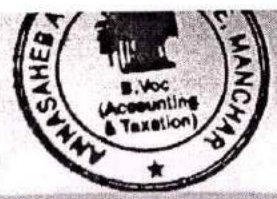


**SUMMARY**

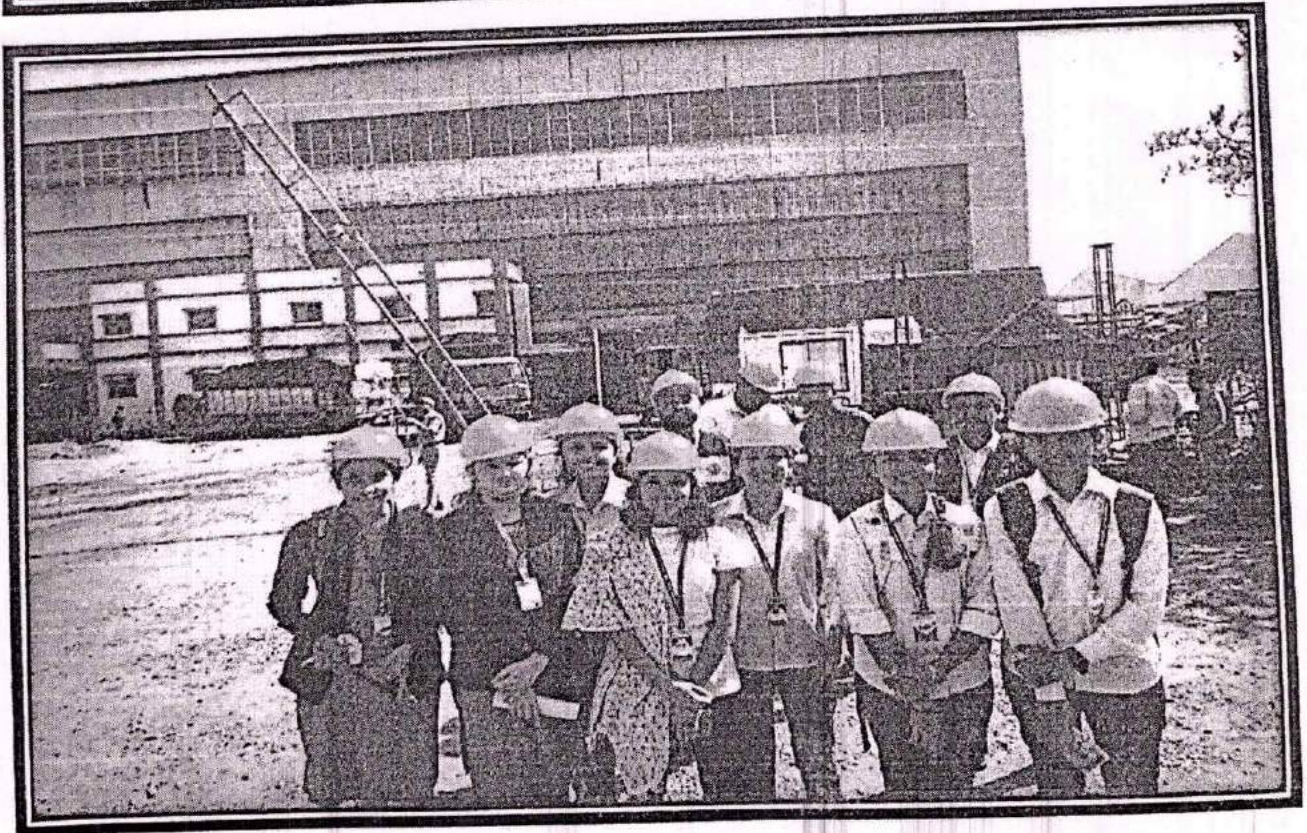
| Sr. No. | Student Centric Activities | Activities organized   | Date/ No.  | No. of Beneficiaries                           |
|---------|----------------------------|--|--|--|
| 1.      | Experiential Learning      | <b>Example</b><br>1. Field visit to .....<br><br>2. On the job training/ internship                            | 1 visit<br><br>51 OJT report<br>12 black books                 | 19<br><br>64                                   |
| 2.      | Participative Learning     | <b>Example</b><br>1. Quiz<br><br>2. Group discussion<br><br>3. Departmental fests<br><br>4. Students' seminars | 1<br><br>1<br><br>Food festival<br><br>PPT                     | 12<br><br>26<br><br>16<br><br>All Student (26) |
| 3.      | Problem Solving Methods    | <b>Example</b><br>1. Assignments on problem-based questions  | Assignments  | All Student (26)                               |
| 4.      | ICT methods used           | <b>Examples</b><br><br>1. Virtual labs<br><br><br><br>2. Softwares used  | 21 COMPUTERS<br>2 PROJECTORS<br><br>Tally ERP-9<br>Tally prime | All Student (26 student)<br><br><br>12         |



**B.Voc. (Accounting and Taxation)**  
**Industrial visit 2022-2023**  
**Bhimashankar Sugar Factory ,Pargaon Shinga**

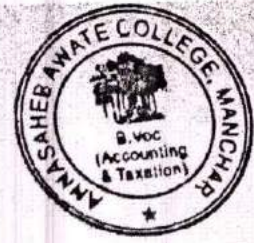


2022

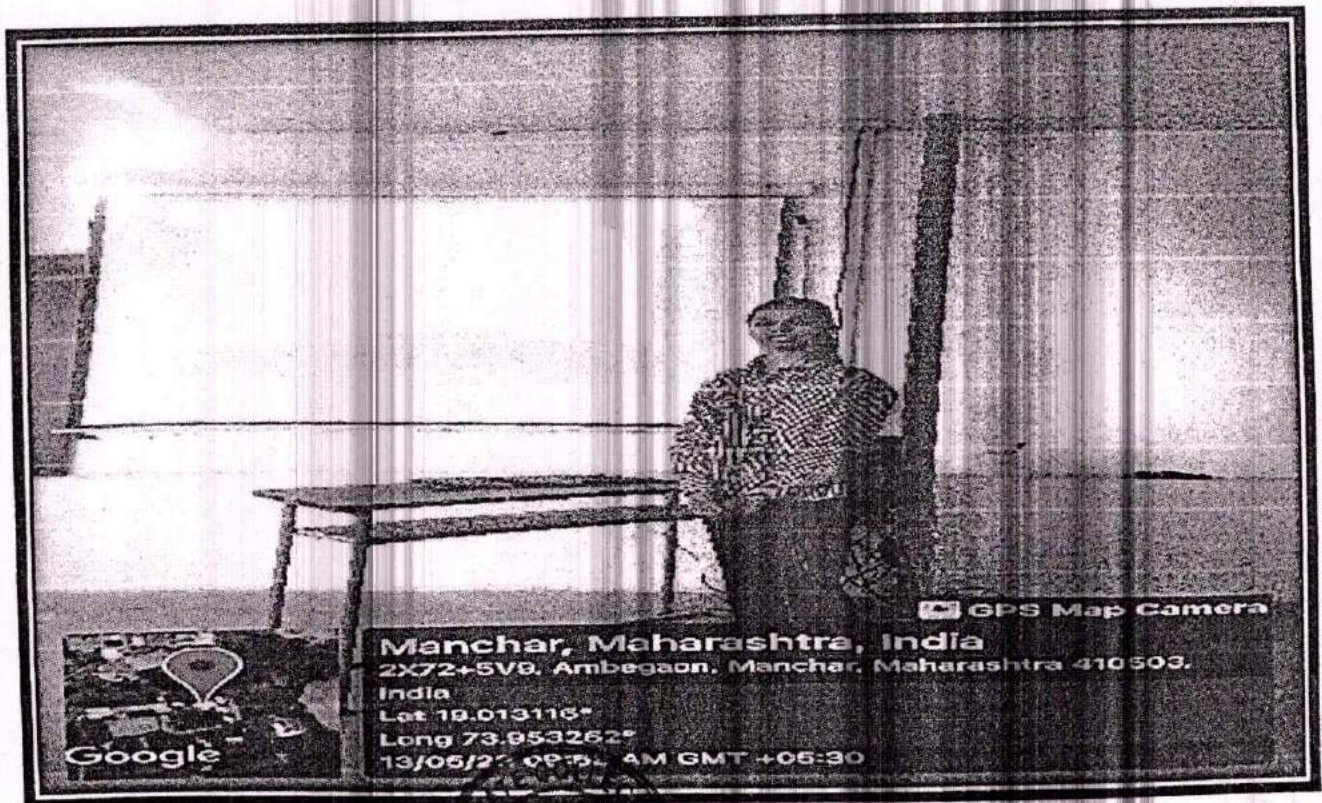
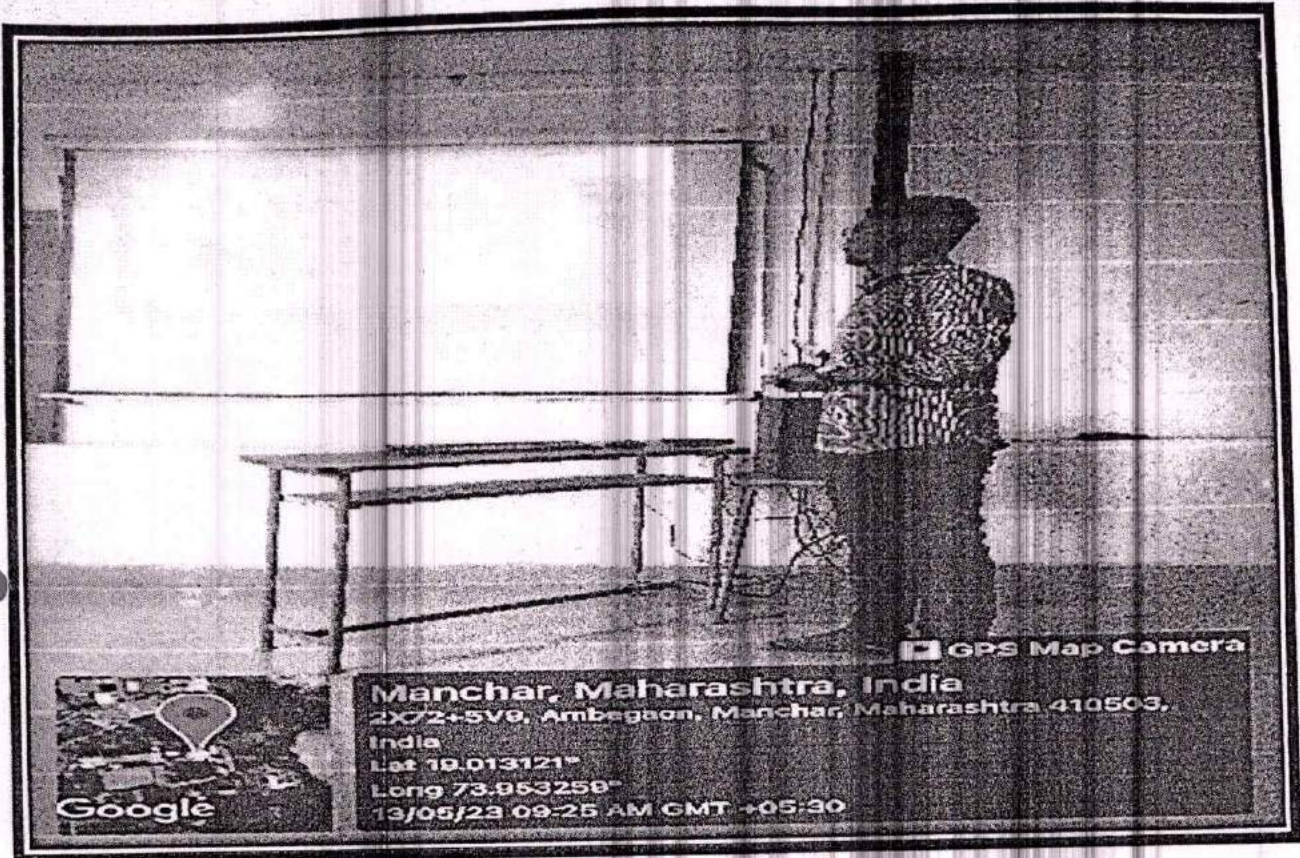




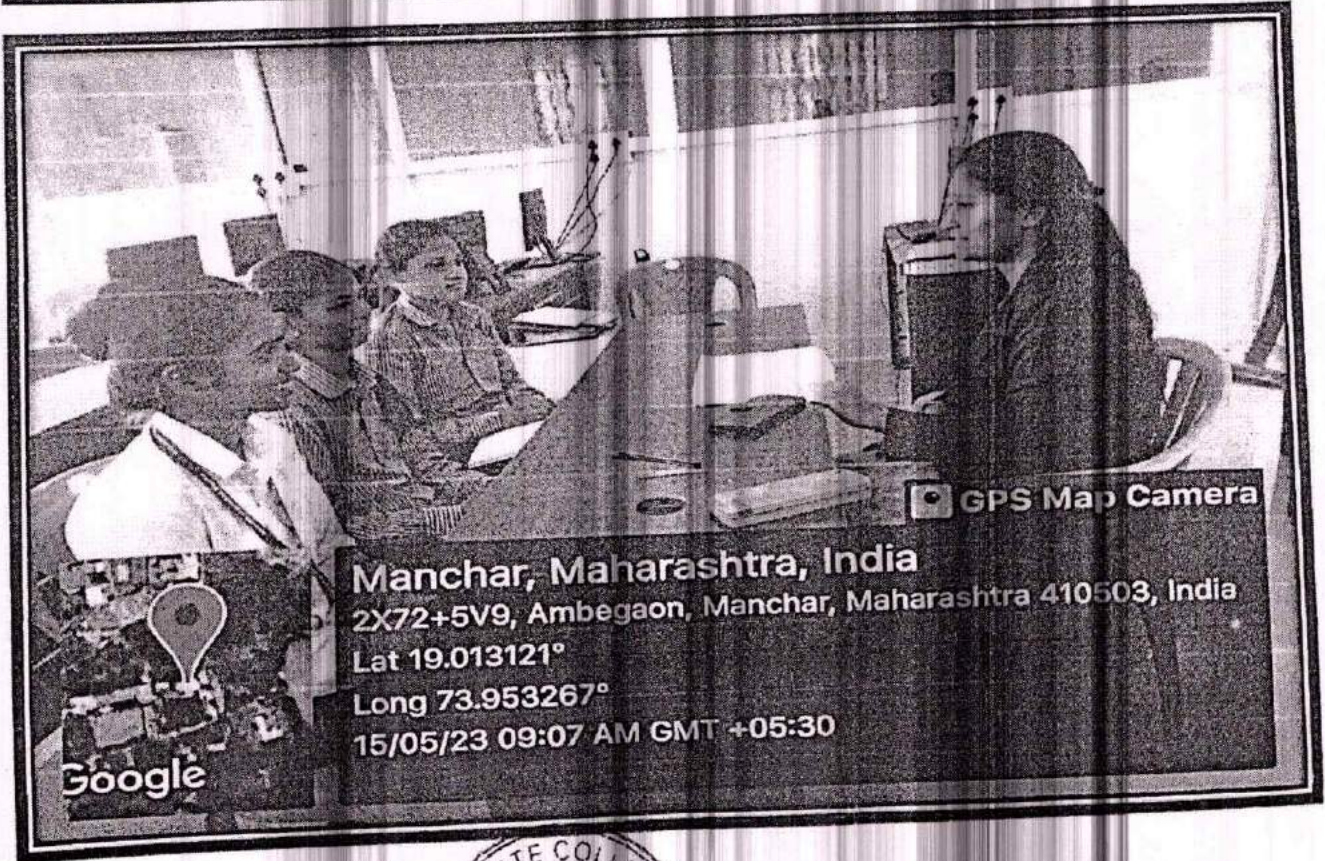
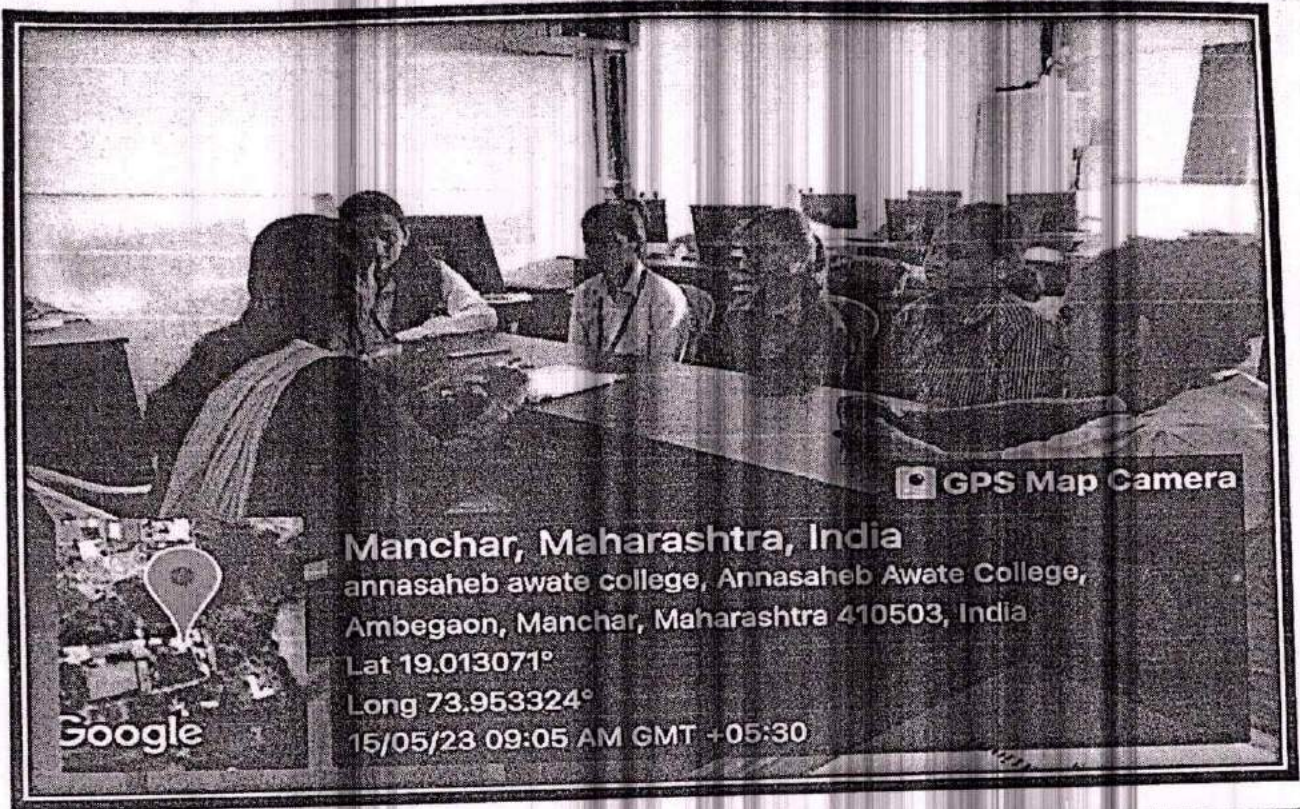
**B.Voc. (Accounting and Taxation)**  
**PPT Presentation**  
**T.Y.B.Voc**



F.Y.B.Voc



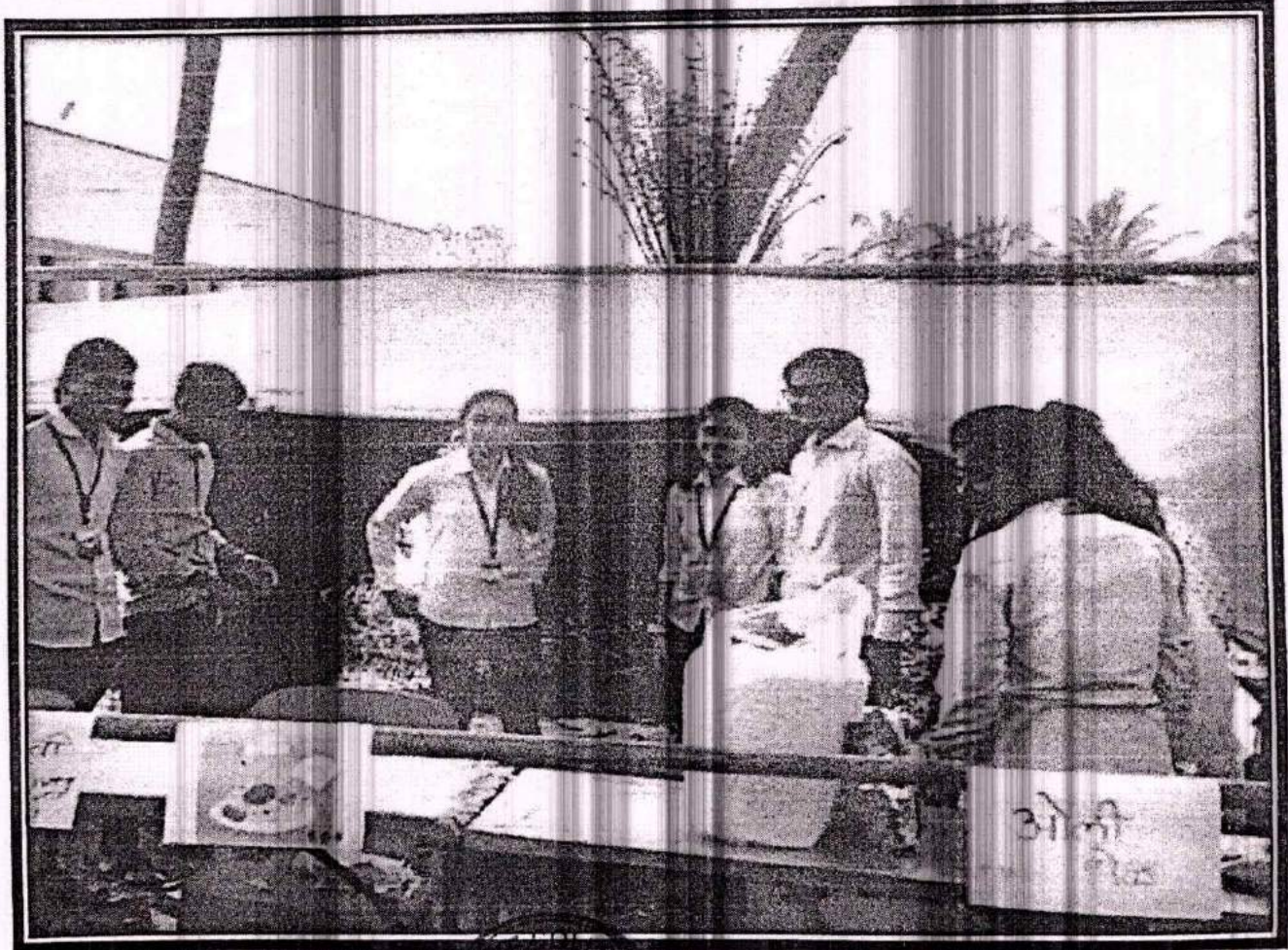
## Group Discussion

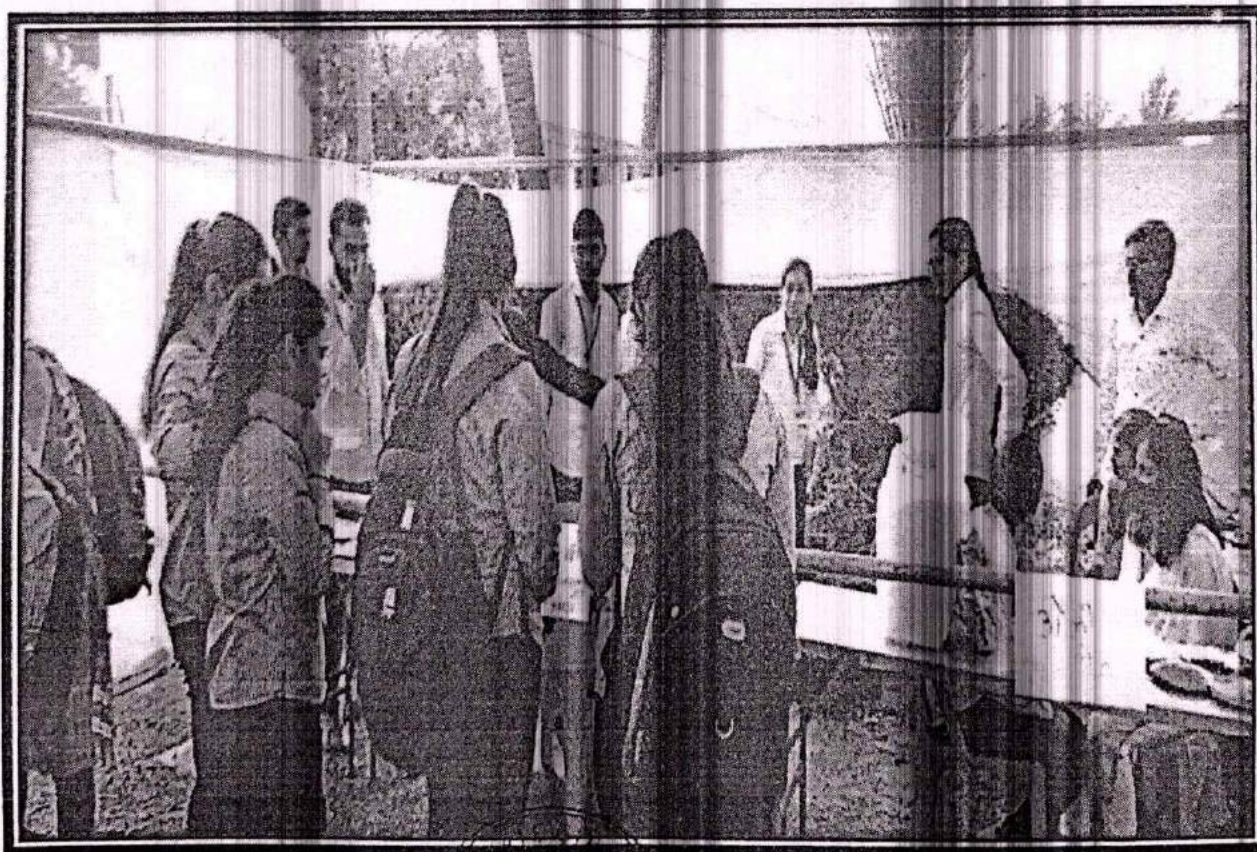


AACM\_Photos A.Y. 20.. - ..



Food Festival-2023







**B.Voc. (Accounting and Taxation)**

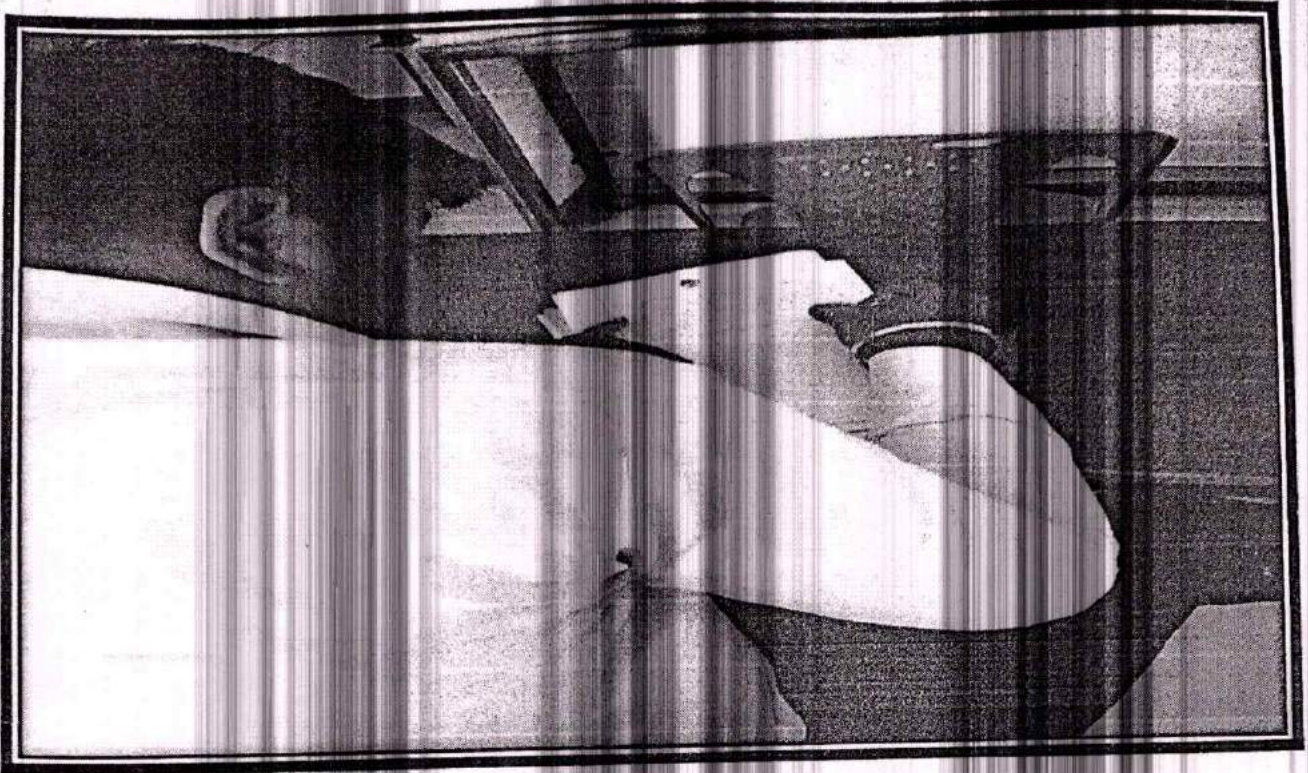
**Problem solving method**

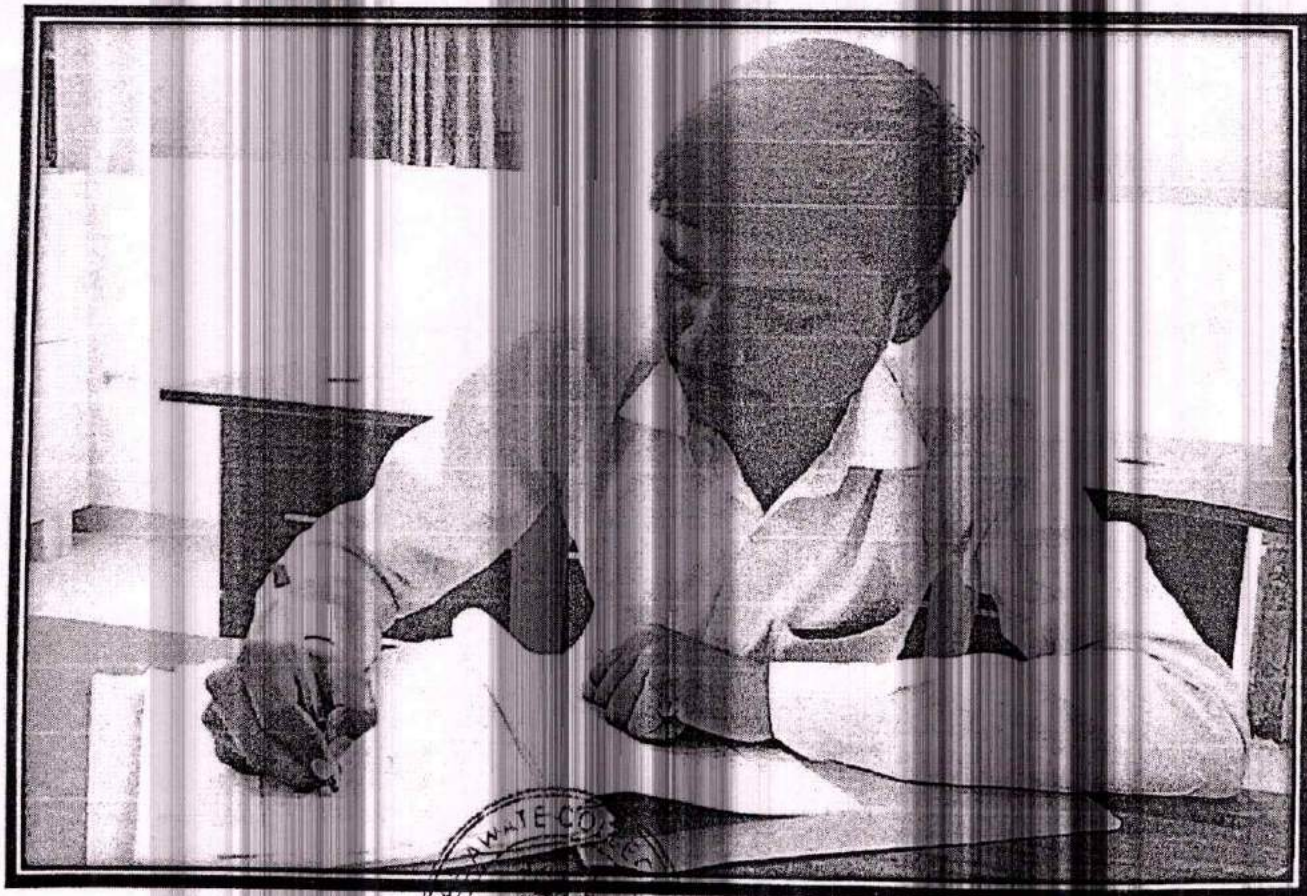
**A.Y.2022-2023**

**Lecture Method**



# Assignment





**B.Voc. (Accounting and Taxation)**

**Computer Lab**

**A.Y.2022-2023**



Gateway of Tally

ACCOUNT DATE  
Saturday, 2 Apr 2022

DATE OF LAST ENTRY  
2 Apr 22

Company Name: Athary Kambo Pvt Ltd

FUNCTIONS

- Create
- Alter
- Chart of Accounts

TRANSACTIONS

- Vouchers
- Day Book

FINANCIALS

- Banking

REPORTS

- Balance Sheet
- Profit & Loss A/c
- Stock Summary
- Ratio Analysis

Display More Reports

EXIT

| Particulars            | Athary Kambo Pvt Ltd<br>1-Apr 22 to 2-Apr 22 |        |                  | F2: Period<br>F3: Company<br>F4: Stock Group |
|------------------------|--|--------|------------------|--|
|                        | Quantity                                     | Rate   | Value            |  |
| Bath Soaps             | 80 nos                                       | 18.75  | 1,500.00         | F5: Stock Re-<br>view                        |
| Loak                   | 40 nos                                       | 13.00  | 520.00           | F6: Monthly                                  |
| Foods                  | 40 nos                                       | 24.50  | 980.00           | F7: Show Pro                                 |
| Juice                  | 383 nos                                      | 70.57  | 27,030.00        | F8: Valuation                                |
| Sauces                 | 40 nos                                       | 81.00  | 3,240.00         | F9: Orders                                   |
| Soups                  | 70 nos                                       | 35.00  | 2,450.00         | F10  |
| Tea                    | 111 nos                                      | 30.00  | 3,330.00         | Basis of<br>Values                           |
| House Hold Product     | 162 nos                                      | 111.17 | 18,010.00        | Change<br>View                               |
| Fur & Laxity Ayurvedic | 195 nos                                      | 67.95  | 12,080.00        | Exception<br>Reports                         |
| Tooth Paste            | 60 nos                                       | 75.00  | 4,500.00         | L Save View                                  |
| Soaps                  | 135 nos                                      | 56.15  | 7,580.00         | C New<br>Column                              |
| Dove                   | 260 nos                                      | 27.54  | 7,160.00         | A Alter<br>Column                            |
| Washing Bar            | 80 nos                                       | 29.00  | 2,320.00         | N Auto<br>Column                             |
| Washing Powder         | 60 nos                                       | 34.00  | 2,040.00         | F10: Configu                                 |
|                        | 120 nos                                      | 23.33  | 2,800.00         |  |
| <b>Grand Total</b>     |  |        | <b>47,770.00</b> |  |

**Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune**

**STUDENT CENTRIC ACTIVITIES**

Name of department : **B. Voc. Food Processing and Quality Management** Academic Year: **2022-23**

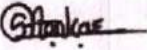
**SUMMARY**

| Sr. No. | Student Centric Activities | Activities organized   | Date/ No.   | No. of Beneficiaries          |
|---------|----------------------------|--|---|-------------------------------|
| 1.      | Experiential Learning      | <ol style="list-style-type: none"> <li>1. Example</li> <li>2. Practicals</li> <li>3. Field visit to Mapro Foods Pvt Ltd., Wai</li> <li>4. Educational tour to Bakery experiential unit, Dapoli</li> <li>5. Interviews by students .....</li> <li>6. On the job training/ internship</li> <li>7. Hands on workshops: Dairy workshop</li> <li>8. Survey</li> <li>9. Any other</li> </ol>                 | <p>21/04/2023</p> <p>22/04/2023</p> <p>01/02/2023 to 28/02/2023</p> <p>1/09/2022 to 5/09/2022</p> | <p>10</p> <p>10</p> <p>17</p> |
| 2.      | Participative Learning     | <ol style="list-style-type: none"> <li>10. Example</li> <li>11. Quiz</li> <li>12. National Science Day</li> <li>13. Departmental fests</li> <li>14. Seminars/ webinars/ conferences</li> <li>15. Avishkar</li> <li>16. Shark tank activity</li> <li>17. Major projects</li> <li>18. Minor Projects</li> <li>19. Short term course in .....</li> <li>20. MOOC Courses</li> <li>21. Any other</li> </ol> | <p>16/08/2023</p> <p>15/09/2022</p> <p>10</p>   | <p>13</p> <p>10</p>           |

AACM\_Student Centric Methods A. Y. 20.. - ..



|    |                                |  |         |          |
|----|--------------------------------|--|---------|----------|
| 3. | <b>Problem Solving Methods</b> | <b>22. Example</b><br>23. Assignments on problem-based questions<br>24. Any other  | 15      | 17       |
| 4. | <b>ICT methods used</b>        | <b>25. Examples</b><br>26. List of PPT<br>27. List of videos<br>28. Webinars<br>29. Virtual labs<br>30. Software's used<br>31. Any other | 20<br>3 | 17<br>17 |

  
**Prepared by**

  
**Approved by**  
 Head  
 Dept. of B. Voc  
 (Food Processing & Quality Management)  
 Annasaheb Awate College, Manchar



**Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune**

**STUDENT CENTRIC ACTIVITIES**

Name of department :B.Sc Biotechnology Academic Year: 2022-23

**SUMMARY**

| Sr. No. | Student Centric Activities | Activities organized   | Date/ No.   | No. of Beneficiaries |
|---------|----------------------------|--|---|----------------------|
| 1.      | Experiential Learning      | Example<br><br>1. Industrial Internship to Bhagyalxmi Dairy Pvt Ltd.   | 20-03-2023<br>To<br>10-04-2023                    | 13                   |
| 2.      | Participative Learning     | Example<br><br>1. Webinar On Importance of Biotechnology<br><br>2. Short term course in Plant Tissue Culture | 15 /10/2022<br><br>01/02/2023<br>To<br>30/03/2023 | 59<br><br>04         |
| 3.      | Problem Solving Methods    | Example<br>1. Assignments on problem-based questions   | 01/12/2023  | 13                   |
| 4.      | ICT methods used           | Examples<br>1. List of ppt<br>2. List of Recorded videos<br>3. Webinars                                      | 25<br>02<br>01                                    | 13<br>13<br>13       |



|  |  |                    |    |    |
|--|--|--------------------|----|----|
|  |  | 4. Virtual labs    | 10 | 13 |
|  |  | 5. Animated Videos | 07 | 13 |

Prepared by - Mr. Ingole. D. D



**HOD**

Department of Biotechnology  
Annasaheb Awate College, Manchar

Rayat Shikshan Sanstha's  
**Annasaheb Awate College, Manchar**  
 T.Y.B.Sc. Physics April-2023 Result

| Sl. No | Seat No | Name of the student      | P1   | P2    | P3    | P4   | P5   | P6   | P7   | P8    | P9   | P10  | P11  |      | P1   | P2   | P3    | P4    | P5   | P6   | P7   | P8    | P9    | P10  | P11  |
|--------|---------|--------------------------|------|-------|-------|------|------|------|------|-------|------|------|------|------|------|------|-------|-------|------|------|------|-------|-------|------|------|
|        |         |                          | #### | 35120 | 35121 | 3122 | #### | #### | #### | 35126 | #### | #### | #### | #### | #### | #### | 36121 | 36121 | #### | #### | #### | 36125 | 36126 | #### | #### |
| 1      | 4836    | Adhari Nilesh Dipak      | 30   | 27    | 32    | 26   | 32   | 27   | 25   | 27    | 36   | 36   | 34   |      | 30   | 39   | 35    | 26    | 31   | 29   | 40   | 32    | 37    | 36   | 40   |
| 2      | 4837    | Dolas Dipak Tukaram      | 27   | 25    | 28    | 29   | 34   | 29   | 26   | 28    | 39   | 38   | 38   |      | 29   | 30   | 34    | 28    | 29   | 30   | 33   | 29    | 27    | 31   | 32   |
| 3      | 4838    | Gawade Vijay Kisan       | 31   | 38    | 31    | 34   | 35   | 32   | 29   | 28    | 38   | 37   | 38   |      | 30   | 44   | 39    | 27    | 33   | 34   | 43   | 33    | 29    | 30   | 32   |
| 4      | 4839    | Lambhate Kedarnath Shiva | 18   | 26    | 28    | 25   | 32   | 29   | 25   | 21    | 36   | 35   | 36   |      | 27   | 31   | 33    | 26    | 29   | 28   | 31   | 28    | 32    | 29   | 31   |
| 5      | 4840    | Mourya Rohit Chandrabhar | 27   | 33    | 29    | 25   | 37   | 29   | 24   | 33    | 42   | 39   | 44   |      | 30   | 30   | 33    | 26    | 29   | 34   | 35   | 30    | 39    | 37   | 45   |
| 6      | 4841    | VaniAditya Dattatyarya   | 28   | 35    | 30    | 27   | 30   | 27   | 26   | 27    | 35   | 34   | 36   |      | 30   | 32   | 33    | 26    | 22   | 35   | 28   | 32    | 30    | 29   | 31   |
| 7      | 4891    | Chaskar Vrushali Ramesh  | 32   | 41    | 35    | 29   | 37   | 31   | 42   | 34    | 46   | 46   | 47   |      | 32   | 50   | 38    | 35    | 40   | 41   | 49   | 46    | 48    | 49   | 48   |

Total Appeared-07  
 Total Passed-06  
 Pass Percentage-86%



*Rahul*  
**Head**  
 Department of Physics  
 A.A. College, Manchar

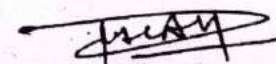
## Annasaheb Awate Arts, Commerce &amp; Hutatma Babu Genu Science College Manchar

Department of Electronic Science

TYBSc 2022-2023

SEM VI: University Result May 2022-23

| Sr. No              | Student Name               | Paper I: EL361 | Paper II: EL362 | Paper I II: EL363 | Paper IV: EL364 | Paper V: EL365 | Paper VI: EL366(A) | Paper VII: EL367 | Paper VIII: EL368 | Paper IX: EL369 | Paper X: EL351 | Paper XI: EL352 | Total Out of 550 Sem-VI | Total Out of 550 Sem-V | Grand Total 1100 | Percent age | Rank |
|---------------------|----------------------------|----------------|-----------------|-------------------|-----------------|----------------|--------------------|------------------|-------------------|-----------------|----------------|-----------------|-------------------------|------------------------|------------------|-------------|------|
| 1                   | BHALERAO HARSH VIVEK       | 38             | 38              | 39                | 33              | 38             | 42                 | 45               | 46                | 45              | 36             | 36              | 436                     | 345                    | 781              | 71.00%      |      |
| 2                   | BURSE AKANKSHA SUNIL       | 50             | 49              | 50                | 46              | 49             | 50                 | 49               | 49                | 49              | 49             | 50              | 540                     | 467                    | 1007             | 91.54%      | III  |
| 3                   | CHAPTE VAIBHAV CHANDRAKANT | 37             | 42              | 35                | 36              | 39             | 40                 | 44               | 46                | 45              | 43             | 40              | 447                     | 349                    | 796              | 72.36%      |      |
| 4                   | CHASKAR SHEJAL DATTATRAY   | 42             | 45              | 40                | 48              | 45             | 45                 | 48               | 47                | 48              | 42             | 44              | 494                     | 411                    | 905              | 82.27%      |      |
| 5                   | DAINE ISHA DEEPAK          | 50             | 47              | 48                | 47              | 50             | 50                 | 49               | 49                | 49              | 48             | 50              | 537                     | 483                    | 1020             | 92.72%      | I    |
| 6                   | DHUMAL SUMIT RAVINDRA      | 44             | 43              | 42                | 35              | 45             | 46                 | 48               | 47                | 48              | 41             | 47              | 486                     | 445                    | 931              | 84.63%      |      |
| 7                   | DOKE KOMAL RAJENDRA        | 42             | 44              | 37                | 36              | 37             | 30                 | 44               | 45                | 46              | 39             | 35              | 435                     | 379                    | 814              | 74%         |      |
| 8                   | GAWDE PRERNA RAJESH        | 45             | 50              | 46                | 47              | 50             | 49                 | 49               | 49                | 49              | 49             | 48              | 531                     | 481                    | 1012             | 92%         | II   |
| 9                   | LOHATE GAURAV SANTOSH      | 40             | 43              | 36                | 37              | 43             | 47                 | 44               | 45                | 46              | 38             | 44              | 463                     | 415                    | 878              | 79.81%      |      |
| 10                  | MIDGULE KRUSHNALI ARJUN    | 50             | 46              | 43                | 41              | 44             | 47                 | 49               | 49                | 49              | 49             | 50              | 517                     | 453                    | 970              | 88.18%      |      |
| 11                  | MORE PRATHAMESH GANESH     | 29             | 32              | 28                | 29              | 36             | 37                 | 44               | 45                | 46              | 34             | 31              | 391                     | 343                    | 734              | 66.72%      |      |
| 12                  | MORE SHREYA VINOD          | 44             | 42              | 33                | 29              | 45             | 45                 | 48               | 49                | 48              | 40             | 46              | 469                     | 423                    | 892              | 81.09%      |      |
| 13                  | PAWALE ADESH GULAB         | 42             | 41              | 33                | 35              | 45             | 47                 | 44               | 45                | 46              | 40             | 48              | 466                     | 367                    | 833              | 75.72%      |      |
| 14                  | PAWALE ADITYA SHARAD       | 46             | 49              | 39                | 42              | 49             | 49                 | 49               | 48                | 49              | 48             | 47              | 515                     | 467                    | 982              | 89.27%      |      |
| 15                  | TALAPE CHETAN BHAI         | 37             | 38              | 38                | 38              | 39             | 41                 | 43               | 44                | 43              | 43             | 40              | 444                     | 370                    | 814              | 74%         |      |
| 16                  | TALPE PRATIDNYA NAMDEV     | 43             | 46              | 41                | 43              | 43             | 46                 | 46               | 47                | 48              | 45             | 44              | 492                     | 411                    | 903              | 82.09%      |      |
| <b>Total Result</b> |                            | <b>100%</b>    | <b>100%</b>     | <b>100%</b>       | <b>100%</b>     | <b>100%</b>    | <b>100%</b>        | <b>100%</b>      | <b>100%</b>       | <b>100%</b>     | <b>100%</b>    | <b>100%</b>     |                         |                        |                  |             |      |



Head

Dept. of Electronic Science

A. A. College, Manchar

**रयत शिक्षण संस्थेचे  
अण्णासाहेब आवटे कॉलेज मंचर**


विभागाचे नाव : गणित

A Y 2022-2023

| Sr No | Class    | Subject Name                   | Total Student | Sr No | Class | Subject Name | Total Student |
|-------|----------|--------------------------------|---------------|-------|-------|--------------|---------------|
| 1     | F.Y.B.Sc | Analytical geometry            | 21            | 16    |       |              |               |
| 2     |          | Calculus II                    | 21            | 17    |       |              |               |
| 3     | S.Y.B.Sc | Linear algebra                 | 15            | 18    |       |              |               |
| 4     |          | Vector calculus                | 15            | 19    |       |              |               |
| 5     | T.Y.B.Sc | Complex analysis               | 4             | 20    |       |              |               |
| 6     |          | Real Analysis -II              | 4             | 21    |       |              |               |
| 7     |          | Ring Theory                    | 4             | 22    |       |              |               |
| 8     |          | Partial Differential Equations | 4             | 23    |       |              |               |
| 9     |          | Optimization Techniques        | 4             | 24    |       |              |               |
| 10    |          | Computational Geometry         | 4             | 25    |       |              |               |
| 11    |          | Programming In Python-II       | 4             | 26    |       |              |               |
| 12    |          | Mathematics Into Latex         | 4             | 27    |       |              |               |
| 13    |          |                                |               | 28    |       |              |               |
| 14    |          |                                |               | 29    |       |              |               |
| 15    |          |                                |               | 30    |       |              |               |

**Department Result**

| Class | Total Students | Pass | Fail | Percentage | University Result |
|-------|----------------|------|------|------------|-------------------|
| FY    | 21             | 15   | 6    | 71.42      | 66.74             |
| SY    | 15             | 13   | 2    | 86.66      | 66.74             |
| TY    | 4              | 4    | 0    | 100        | 66.74             |

  
 Head  
 Department of Mathematics,  
 A.A. College Manchar

  
 Principal  
 A.A. College Manchar

रयत शिक्षण संस्थेचे  
अण्णासाहेब आवटे कॉलेज मंचर

विभाग : पश्चिम विभाग

सन 2022-2023

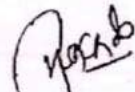
प्राध्यापकाचे नाव : फ़ारुख़ विलास बिक

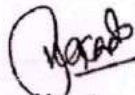
नेमणूक दिनांक : / /


शैक्षणिक अर्हता : MSc

झालेली एकूण सेवा वर्ष महीने

| Class  | Subject                                | Total Students | Appear for Exam | Total Studets as per Percentage/grades |       |       |       |       |       |       | College Result | University Result | Rem |
|--------|--|----------------|-----------------|--|-------|-------|-------|-------|-------|-------|----------------|-------------------|-----|
|        |  |                |                 | O                                      | A     | B     | C     | D     | E     | F     |                |                   |     |
|        |  |                |                 | 90-100                                 | 80-89 | 70-79 | 60-69 | 50-59 | 40-49 | 00-39 |                |                   |     |
| SEM I  | F.Y.BSc Algebra                        | 21             | 21              | —                                      | —     | 1     | 1     | 10    | 7     | 2     | 90.47%         |                   |     |
|        | S.Y.BSc Calculus of Several variables  | 15             | 15              | —                                      | 01    | 03    | 05    | 06    | —     | —     | 100%           |                   |     |
|        | T.Y.BSc Ordinary Diff eq <sup>ns</sup> | 04             | 04              | —                                      | —     | —     | 01    | 03    | —     | —     | 100%           |                   |     |
| SEM II | T.Y.BSc Complex Analysis               | 04             | 04              | 02                                     | 01    | 01    | —     | —     | —     | —     | 100%           | 66.74%            |     |
|        | F.Y.BSc Discrete Maths & Probs II      | 04             | 04              | —                                      | —     | 01    | —     | 02    | —     | 01    | 75%            | 87.70%            |     |
|        |  |                |                 |  |       |       |       |       |       |       |                |                   |     |
|        |  |                |                 |  |       |       |       |       |       |       |                |                   |     |

  
Subject Teacher Sign

  
Head  
Dept of Mathematics

  
Principal  
A.A.College Manchar

रयत शिक्षण संस्थेचे  
अण्णासाहेब आवटे कॉलेज मंचर

विभाग : पश्चिम विभाग

सन 2022-2023

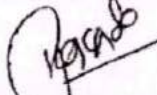
प्राध्यापकाचे नाव : Mr. Rokade M.D.

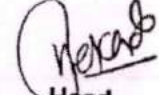
नेमणूक दिनांक : 01/08/2016

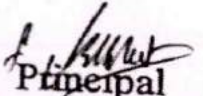
शैक्षणिक अर्हता : M.Sc., SET

झालेली एकूण सेवा 07 वर्ष 00 महीने

| Class  | Subject | Total Students       | Appear for Exam | Total Studets as per Percentage/grades |            |            |            |            |            | College Result | University Result | Re    |            |  |
|--------|---------|----------------------|-----------------|--|------------|------------|------------|------------|------------|----------------|-------------------|-------|------------|--|
|        |         |                      |                 | O<br>90-100                            | A<br>80-89 | B<br>70-79 | C<br>60-69 | D<br>50-59 | E<br>40-49 |                |                   |       | F<br>00-39 |  |
| Sem I  | FyBsc   | calculus I           | 21              | 21                                     | 00         | 00         | 00         | 01         | 08         | 11             | 01                | 95.23 |            |  |
|        | TyBsc   | Real analysis I      | 04              | 04                                     | 00         | 01         | 02         | 01         | 00         | 00             | 00                | 100%  |            |  |
|        | TyBsc   | operations Research  | 04              | 04                                     | 02         | 01         | 00         | 01         | 00         | 00             | 00                | 100%  |            |  |
|        | FyBBA   | Business statistics  | 82              | 82                                     | 00         | 01         | 05         | 04         | 21         | 36             | 15                | 81.70 |            |  |
| Sem II | SyBsc   | vector calculus      | 15              | 15                                     | 03         | 01         | 01         | 04         | 03         | 01             | 02                | 86.66 |            |  |
|        | TyBsc   | Real analysis II     | 04              | 04                                     | 01         | 02         | 01         | 00         | 00         | 00             | 00                | 100%  | 66.74      |  |
|        | TyBsc   | computation geometry | 04              | 04                                     | 02         | 02         | 00         | 00         | 00         | 00             | 00                | 100%  | 66.74      |  |
|        | FyBBA   | Business mathematics | 82              | 81                                     | 04         | 08         | 15         | 14         | 12         | 12             | 16                | 80.24 |            |  |

  
Subject Teacher Sign

  
Head  
Department of Mathematics,

  
Principal  
A.A.College Manchar

रयत शिक्षण संस्थेचे  
अण्णासाहेब आवटे कॉलेज मंचर

विभाग : पश्चिम विभाग

सन 2022-2023

प्राध्यापकाचे नाव : आत्मे स्वराजुभाऊ भाऊराव

नेमणूक दिनांक : 18/07/2019

शैक्षणिक अर्हता : MSc. SET (Mathematics)

झालेली एकूण सेवा 04 वर्ष 01 महीने

| Class  | Subject  | Total Students                | Appear for Exam | Total Studets as per Percentage/grades |       |       |       |       |       |       | College Result | University Result | Remarks |  |
|--------|----------|-------------------------------|-----------------|--|-------|-------|-------|-------|-------|-------|----------------|-------------------|---------|--|
|        |          |                               |                 | O                                      | A     | B     | C     | D     | E     | F     |                |                   |         |  |
|        |          |                               |                 | 90-100                                 | 80-89 | 70-79 | 60-69 | 50-59 | 40-49 | 00-39 |                |                   |         |  |
| Sem I  | S.Y. BSc | Graph Theory                  | 15              | 15                                     | 03    | 03    | 03    | 03    | 02    | 01    | —              | 100%              |         |  |
|        | T.Y. BSc | Metric Spaces                 | 04              | 04                                     | —     | 01    | 01    | 02    | —     | —     | —              | 100%              |         |  |
|        | T.Y. BSc | Number Theory                 | 04              | 04                                     | 02    | 02    | —     | —     | —     | —     | —              | 100%              |         |  |
|        | F.Y. BSc | BioMaths & Biostat II         | 04              | 04                                     | —     | 01    | —     | 02    | 01    | —     | —              | 100%              |         |  |
| Sem II | F.Y. BSc | Calculus II                   | 21              | 21                                     | 01    | —     | —     | 08    | 06    | —     | 06             | 71-42%            | 66-74%  |  |
|        | S.Y. BSc | Linear Algebra                | 05              | 05                                     | 01    | 03    | 01    | 03    | 07    | 01    | —              | 100%              | 66-74%  |  |
|        | T.Y. BSc | Partial Diff eq <sup>ns</sup> | 04              | 04                                     | 01    | 02    | 01    | —     | —     | —     | —              | 100%              | 66-74%  |  |
|        | T.Y. BSc | Optimization Technique        | 04              | 04                                     | 03    | 01    | —     | —     | —     | —     | —              | 100%              | 66-74%  |  |

Atme

Subject Teacher Sign

Parab

Head

Department of Mathematics

P. Kulkarni

Principal

A.A. College Manchar

रयत शिक्षण संस्थेचे  
अण्णासाहेब आवटे कॉलेज मंचर


विभाग : पश्चिम विभाग

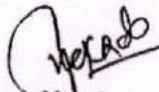
सन 2022-2023


प्राध्यापकाचे नाव : Mr. Shete Rahul Krishna नेमणूक दिनांक : 12/01/2018

शैक्षणिक अर्हता : M.Sc SET NET झालेली एकूण सेवा 5 वर्ष 6 महीने

| Class  | Subject                               | Total Students | Appear for Exam | Total Studets as per Percentage/grades |       |       |       |       |       |       | College Result | University Result | Rem |
|--------|---------------------------------------|----------------|-----------------|--|-------|-------|-------|-------|-------|-------|----------------|-------------------|-----|
|        |                                       |                |                 | O                                      | A     | B     | C     | D     | E     | F     |                |                   |     |
|        |                                       |                |                 | 90-100                                 | 80-89 | 70-79 | 60-69 | 50-59 | 40-49 | 00-39 |                |                   |     |
| Sem-I  | T.Y.B.Sc Group Theory                 | 04             | 04              | 00                                     | 00    | 01    | 03    | 00    | 00    | 00    | 100%           |                   |     |
|        | T.Y.B.Sc Programming in Python        | 04             | 04              | 04                                     | 00    | 00    | 00    | 00    | 00    | 00    | 100%           |                   |     |
|        | T.Y.B.Sc LaTeX for scientific writing | 04             | 04              | 04                                     | 00    | 00    | 00    | 00    | 00    | 00    | 100%           |                   |     |
| Sem-II | F.Y.B.Sc Analytical Geometry          | 21             | 21              | 01                                     | 02    | 02    | 08    | 05    | 02    | 01    | 95.23          | 66.74             |     |
|        | T.Y.B.Sc Ring Theory                  | 04             | 04              | 00                                     | 01    | 02    | 01    | 00    | 00    | 00    | 100%           | 66.74             |     |
|        | T.Y.B.Sc Python -II                   | 04             | 04              | 04                                     | 00    | 00    | 00    | 00    | 00    | 00    | 100%           | 66.74             |     |
|        | T.Y.B.Sc Mathematics into LaTeX       | 04             | 04              | 04                                     | 00    | 00    | 00    | 00    | 00    | 00    | 100%           | 66.74             |     |

  
Subject Teacher Sign

  
Head  
Department of Mathematics  
HOD Sign

  
Principal  
A.A.College Manchar



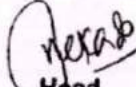
रयत शिक्षण संस्थेचे  
अण्णासाहेब आवटे कॉलेज मंचर


विभागाचे नाव : गणित

Categorywise Result Analysis A.Y 2022-2023 (Only Last Year)

|         | SC |   | ST |   | NT/VJ |   | OBC |      | SBC |   | OPEN |      | Total |      |
|---------|----|---|----|---|-------|---|-----|------|-----|---|------|------|-------|------|
|         | B  | G | B  | G | B     | G | B   | G    | B   | G | B    | G    | B     | G    |
| Total   | 0  | 0 | 0  | 0 | 0     | 0 | 0   | 1    | 0   | 0 | 0    | 3    | 0     | 4    |
| Appeare | 0  | 0 | 0  | 0 | 0     | 0 | 0   | 1    | 0   | 0 | 0    | 3    | 0     | 4    |
| Pass    | 0  | 0 | 0  | 0 | 0     | 0 | 0   | 1    | 0   | 0 | 0    | 3    | 0     | 4    |
| Fail    | 0  | 0 | 0  | 0 | 0     | 0 | 0   | 0    | 0   | 0 | 0    | 0    | 0     | 0    |
| Result  |    |   |    |   |       |   |     | 100% |     |   |      | 100% |       | 100% |

|            | Total Student |      |       | Appear |      |       | Pass |      |       | Percentage |      |       |
|------------|---------------|------|-------|--------|------|-------|------|------|-------|------------|------|-------|
|            | Boy           | Girl | Total | Boy    | Girl | Total | Boy  | Girl | Total | Boy        | Girl | Total |
| Muslims    | 0             | 0    | 0     | 0      | 0    | 0     | 0    | 0    | 0     | 0          | 0    | 0     |
| Christians | 0             | 0    | 0     | 0      | 0    | 0     | 0    | 0    | 0     | 0          | 0    | 0     |
| Sikhs      | 0             | 0    | 0     | 0      | 0    | 0     | 0    | 0    | 0     | 0          | 0    | 0     |
| Buddhists  | 0             | 0    | 0     | 0      | 0    | 0     | 0    | 0    | 0     | 0          | 0    | 0     |
| Parshi     | 0             | 0    | 0     | 0      | 0    | 0     | 0    | 0    | 0     | 0          | 0    | 0     |
| Jain       | 0             | 0    | 0     | 0      | 0    | 0     | 0    | 0    | 0     | 0          | 0    | 0     |

  
Head  
Department of Mathematics,  
A.A. College Manchar

  
Principal  
A.A. College Manchar

**Rayat Shikshan Sanstha's**  
**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science**  
**College, Manchar**

**DEPARTMENT OF ZOOLOGY**

**Result Analysis: 2022-23**

| Year                   | 2022-23           |                   |                    |
|------------------------|-------------------|-------------------|--------------------|
|                        | FY B Sc<br>Annual | SY B Sc<br>Annual | TY B Sc<br>Average |
| Total No of Students   | 54                | 42                | 9                  |
| No of appered Students | 39                | 42                | 9                  |
| Absent Students        | 15                | 0                 | 0                  |
| Total Passed Students  | 39                | 36                | 9                  |
| Failed                 | 0                 | 6                 | 0                  |
| Percentage of Passing  | 100.00%           | 85.71%            | 100.00%            |
| University Result      | --                | --                | 85.67%             |

20



*S. B. B. B.*  
Head  
Department Of Zoology  
A. A. College, Manchar

SYBSc

*Rayat Shikshan Sanstha's*  
**Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College**  
 Manchar, Tal. Ambegaon, Dist Pune

**DEPARTMENT OF ZOOLOGY**  
**Internal and External Evolution of Student**  
**S.Y.B.Sc.:2022-23**

| Year    | Class          | Subject | Total No of students Admitted | Total No of student appeared for exam | No of Students  |                |                |                |                |                |              |        |  |
|---------|----------------|---------|-------------------------------|---------------------------------------|-----------------|----------------|----------------|----------------|----------------|----------------|--------------|--------|--|
|         |                |         |                               |                                       | O               | A              | B              | C              | D              | E              | F            | Absent |  |
|         |                |         |                               |                                       | 90-100<br>45-50 | 80-89<br>40-44 | 72-79<br>35-39 | 62-69<br>30-34 | 50-59<br>25-29 | 40-49<br>20-24 | 0-39<br>0-19 |        |  |
| 2021-22 | SY B Sc Sem-I  | Zoology |                               |                                       |                 |                |                |                |                |                |              |        |  |
|         |                | Paper-1 | 42                            | 42                                    | 3               | 11             | 14             | 5              | 3              | 0              | 6            |        |  |
|         |                | Paper-2 | 42                            | 42                                    | 0               | 3              | 13             | 12             | 4              | 4              | 4            | 6      |  |
|         |                | Paper-3 | 42                            | 42                                    | 9               | 10             | 9              | 6              | 1              | 1              | 1            | 6      |  |
| 2021-22 | SY B Sc Sem-II | Zoology |                               |                                       |                 |                |                |                |                |                |              |        |  |
|         |                | Paper-1 | 42                            | 42                                    | 4               | 6              | 9              | 7              | 10             | 0              | 6            |        |  |
|         |                | Paper-2 | 42                            | 42                                    | 5               | 5              | 10             | 7              | 8              | 1              | 1            | 6      |  |
|         |                | Paper-3 | 42                            | 42                                    | 8               | 20             | 6              | 2              | 0              | 0              | 0            | 6      |  |



*(Signature)*  
 Head  
 Department Of Zoology  
 A.A.College, Manchar

*Rayat Shikshan Sanstha's*  
**Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College**  
 Manchar, Tal. Ambegaon, Dist Pune

**DEPARTMENT OF ZOOLOGY**  
**Internal and External Evolution of Student**  
**F.Y.B.Sc.:2022-23**

| Year    | Class          | Subject | Total No of students Admitted | Total No of student appeared for exam | No of Students  |                |                |                |                |                |              |        |
|---------|----------------|---------|-------------------------------|---------------------------------------|-----------------|----------------|----------------|----------------|----------------|----------------|--------------|--------|
|         |                |         |                               |                                       | O               | A              | B              | C              | D              | E              | F            | Absent |
|         |                |         |                               |                                       | 90-100<br>45-50 | 80-89<br>40-44 | 72-79<br>35-39 | 62-69<br>30-34 | 50-59<br>25-29 | 40-49<br>20-24 | 0-39<br>0-19 |        |
| 2021-23 | FY B Sc Sem-I  | Zoology |                               |                                       |                 |                |                |                |                |                |              |        |
|         |                | Paper-1 | 54                            | 40                                    | 4               | 10             | 7              | 13             | 6              | 0              | 0            |        |
|         |                | Paper-2 | 54                            | 39                                    | 5               | 5              | 5              | 11             | 13             | 0              | 0            |        |
|         |                | Paper-3 | 54                            | 39                                    | 7               | 8              | 17             | 6              | 1              | 0              | 0            |        |
| 2021-23 | FY B Sc Sem-II | Zoology |                               |                                       |                 |                |                |                |                |                |              |        |
|         |                | Paper-1 | 54                            | 38                                    | 9               | 13             | 8              | 6              | 2              | 0              | 0            |        |
|         |                | Paper-2 | 54                            | 38                                    | 11              | 10             | 6              | 9              | 2              | 0              | 0            |        |
|         |                | Paper-3 | 54                            | 39                                    | 27              | 7              | 3              | 2              | 0              | 0              | 0            |        |



*[Signature]*  
 Head  
 Department Of Zoology  
 A.A.College, Manchar

**DEPARTMENT OF BOTANY**

Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College,  
Manchar, Dist. Pune  
Department of Botany

F. Y. B. Sc. Botany Result R Semester: I<sup>st</sup> 2022-2023

| Sr. No. | Paper No.           | Strength | Present | Absent | Pass | Fail | Result |
|---------|---------------------|----------|---------|--------|------|------|--------|
| 1       | Theory-I<br>BO-111  | 41       | 40      | 01     | 40   | 00   | 100 %  |
| 2       | Theory-II<br>BO-112 | 41       | 41      | 00     | 39   | 02   | 95.12% |
| 3       | Practical<br>BO-113 | 41       | 41      | 00     | 41   | 00   | 100%   |

11141 BO-111 PLANT LIFE AND UTILIZATION-I

11142 BO-112 PLANT MORPHOLOGY AND ANATOMY

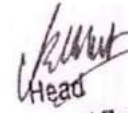
11143 BO-113 PRACTICAL BASED ON BO111 AND BO112

Theory -I BO-111 : Dr. Admuthe N. B.

Theory -II BO-112: Prof. Bhor A. K.

Practical BO-113 : Dr. Admuthe N. B.

Prof. Bhor A. K.

  
Head  
Department of Botany  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu  
Science College, Manchar, Tal. Ambegaon, Dist. Pune

Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar, Tal. Ambegaon, Dist. Pune  
Department of Botany  
Result Analysis Academic Year 2022-2023  
Result F. Y. B. Sc. Botany Semester I

| Name of Faculty Member                 | Subject | Total Students | Appear for Exam | Total Students as per percentage / grades |       |       |       |       |       |       | College Result | University Result |
|--|---------|----------------|-----------------|---|-------|-------|-------|-------|-------|-------|----------------|-------------------|
|  |         |                |                 | O   | A     | B     | C     | D     | E     | F     |                |                   |
|  |         |                |                 | 90-100                                    | 80-89 | 70-79 | 60-69 | 50-59 | 40-49 | 00-39 |                |                   |
| Dr. N. B. Admuthe                      | BO 111  | 41             | 40              | 06  | 06    | 09    | 05    | 12    | 02    | 00    | 100 %          | 66.74 %           |
| Prof. A. K. Bhor                       | BO 112  | 41             | 41              | 02  | 04    | 06    | 09    | 15    | 03    | 02    | 95.12 %        | 66.74 %           |
| Dr. N. B. Admuthe,<br>Prof. A. K. Bhor | BO113   | 41             | 41              | 12  | 14    | 08    | 05    | 02    | 00    | 00    | 100 %          | 66.74 %           |

11141 BO-111 PLANT LIFE AND UTILIZATION-I

11142 BO-112 PLANT MORPHOLOGY AND ANATOMY

11143 BO-113 PRACTICAL BASED ON BO111 AND BO112

  
Head

Department of Botany

Annasaheb Awate Arts, Commerce and Hutatma Babu Genu  
Science College, Manchar, Tal. Ambegaon, Dist. Pune

**DEPARTMENT OF BOTANY**

Rayar Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar, Tal. Ambegaon, Dist. Pune 410503

**Department of Botany**

F. Y. B. Sc. CBCS 2019 Pattern Examination December, 2022-23

Class: F. Y. B. Sc. Semester I

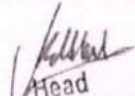
Subject: Botany

Result Semester I 2022-2023 Revised

| Sr No | Roll No. | Exam No. | Name                           | BO-111 |      | BO-112 |      |      |      | BO-113 |      | Tot. |
|-------|----------|----------|--------------------------------|--------|------|--------|------|------|------|--------|------|------|
|       |          |          |                                | 11141  |      | 11142  |      |      |      | 11143  |      |      |
|       |          |          |                                | Int.   | Ext. | Tot.   | Int. | Ext. | Tot. | Int.   | Ext. |      |
| 1     | 4006     | 5202     | CHIKANI MAHIMA GORAKSHANATH    | 15     | 35   | 50     | 15   | 35   | 50   | 15     | 35   | 50   |
| 2     | 4007     | 5237     | CHIKHAI SANSKRUTI SANDIP       | 15     | 33   | 48     | 14   | 29   | 43   | 14     | 33   | 47   |
| 3     | 4009     | 5204     | DAMSE KANCHAN VILAS            | 14     | 15   | 29     | 14   | 16   | 30   | 12     | 26   | 38   |
| 4     | 4011     | 5205     | DATE SWARUP BALI               | 12     | 24   | 36     | 14   | 14   | 28   | 13     | 29   | 42   |
| 5     | 4012     | 5206     | DAUNDAKAR MAYURI VISHNU        | 13     | AA   | 13 AA  | 8    | 14   | 22   | 12     | 27   | 39   |
| 6     | 4015     | 5249     | DOKE TEJAL SANTOSH             | 13     | 33   | 46     | 14   | 29   | 43   | 14     | 33   | 47   |
| 7     | 4018     | 5212     | GAWADE AKSHAY BALASAHEB        | 09     | 18   | 27     | 14   | 15   | 29   | 13     | 29   | 42   |
| 8     | 4019     | 5213     | GAWADE RADHIKA HARISHCHANDRA   | 09     | 30   | 39     | 14   | 18   | 32   | 14     | 32   | 46   |
| 9     | 4022     | 5215     | GHEVADE SHIDHIKA SANTOSH       | 13     | 24   | 37     | 11   | 18   | 29   | 13     | 29   | 42   |
| 10    | 4024     | 5217     | GULAVE AKANKSHA SANTOSH        | 12     | 24   | 36     | 13   | 14   | 27   | 14     | 32   | 46   |
| 11    | 4025     | 5218     | HANDE BHAGYASHRI YUVRAJ        | 09     | 20   | 29     | 14   | 19   | 33   | 13     | 31   | 44   |
| 12    | 4029     | 5220     | KANADE AKSHADA PRABHAKAR       | 10     | 24   | 34     | 14   | 21   | 35   | 14     | 33   | 47   |
| 13    | 4031     | 5221     | KAROTE ANKUSH KASHINATH        | 09     | 27   | 36     | 14   | 19   | 33   | 12     | 27   | 29   |
| 14    | 4033     | 5223     | KONDHAWALE RAJLAXMI RAMCHANDRA | 09     | 15   | 24     | 8    | 20   | 28   | 12     | 21   | 33   |
| 15    | 4034     | 5197     | LANGOTE ANUSHKA KALURAM        | 09     | 20   | 29     | 12   | 14   | 26   | 12     | 27   | 39   |
| 16    | 4038     | 5245     | MANDALE SUJATA MACHINDRA       | 14     | 26   | 40     | 14   | 14   | 28   | 13     | 30   | 43   |
| 17    | 4041     | 5228     | MULANI NHAJI JAVID             | 15     | 18   | 33     | 13   | 14   | 27   | 13     | 29   | 42   |
| 18    | 4042     | 5229     | NIGHOT APURVA ARUN             | 15     | 20   | 35     | 14   | 20   | 34   | 12     | 21   | 33   |
| 19    | 4045     | 5231     | NIGHOT SHARAF DASHARATHI       | 15     | 35   | 50     | 15   | 35   | 50   | 14     | 33   | 47   |
| 20    | 4046     | 5232     | PATHAN ARSHIYA RIYAJKHAN       | 15     | 29   | 44     | 15   | 22   | 37   | 14     | 32   | 47   |
| 21    | 4047     | 5233     | PAWALE GAURI GULAB             | 14     | 30   | 44     | 15   | 29   | 44   | 14     | 34   | 47   |
| 22    | 4048     | 5235     | POKHARKAR SAKSHI RAJU          | 14     | 21   | 35     | 15   | 20   | 35   | 14     | 33   | 47   |
|       |          |          |                                | 13     | 16   | 29     | 14   | 10 F | 24 F | 14     | 35   | 49   |

|    |      |      |                              |    |    |     |    |      |       |    |    |     |
|----|------|------|------------------------------|----|----|-----|----|------|-------|----|----|-----|
| 23 | 4049 | 5231 | POKHARKAR AMU SURESH         | 14 | 11 | 28  | 14 | 18   | 32    | 13 | 30 | 43  |
| 24 | 4050 | 5236 | POKHARKAR UTKARSHA ASHOK     | 14 | 16 | 30  | 15 | 16   | 31    | 12 | 28 | 40  |
| 25 | 4052 | 5239 | SHEKARDE SHASHIKALA JALINDAR | 14 | 13 | 29  | 14 | 15   | 29    | 12 | 24 | 36  |
| 26 | 4053 | 5240 | SHEKARDE SONALI JALINDAR     | 13 | 13 | 28  | 14 | 14   | 28    | 12 | 28 | 40  |
| 27 | 4055 | 5241 | SHEKARDE ARTE GOVIND         | 12 | 16 | 28  | 8  | 7 F  | 15 F  | 12 | 20 | 32  |
| 28 | 4056 | 5242 | SHEWALE ANJALI SANTOSH       | 12 | 15 | 27  | 13 | 14   | 27    | 12 | 17 | 39  |
| 29 | 4059 | 5244 | SHINGADE PRANITA BABAN       | 12 | 27 | 39  | 15 | 14   | 29    | 12 | 24 | 36  |
| 30 | 4061 | 5246 | LAMBHARDE VAISHNAVI SURESH   | 14 | 30 | 44  | 15 | 20   | 35    | 14 | 33 | 47  |
| 31 | 4062 | 5247 | LAMBHARDE DIGAMBAR BALASAHIB | 14 | 18 | 32  | 15 | 14   | 29    | 13 | 31 | 44  |
| 32 | 4063 | 5248 | LAMBHARDE PRIYANKA SAYAJI    | 14 | 32 | 46  | 15 | 27   | 42    | 12 | 27 | 39  |
| 33 | 4064 | 5250 | THORAT ASHISH NITIN          | 14 | 23 | 37  | 15 | 15   | 30    | 13 | 29 | 42  |
| 34 | 4066 | 5252 | TOURE SAMRUDDHI RAMDAS       | 13 | 33 | 50  | 15 | 34   | 49    | 14 | 34 | 48  |
| 35 | 4068 | 5253 | WAGHESKARAN JALINDAR         | 14 | 27 | 41  | 15 | 14   | 29    | 12 | 28 | 40  |
| 36 | 4069 | 5254 | WALUNIPRANALI AVINASH        | 13 | 27 | 30  | 15 | 20   | 35    | 12 | 28 | 40  |
| 37 | 4070 | 5255 | WAYAL SHIBHAM SAVALI RAMI    | 11 | 15 | 26  | 10 | 14   | 24    | 12 | 22 | 34  |
| 38 | 4071 | 5256 | YELBHAR DIKSHA DEEPAK        | 13 | 33 | 46  | 15 | 24   | 39    | 12 | 29 | 41  |
| 39 | 4072 | 5209 | DOKE VARAD SHANKAR           | 12 | 21 | 33  | 14 | 20   | 34    | 12 | 25 | 37  |
| 40 | 4073 | 5238 | SARWADE PRIYA MAHADEV        | 10 | 14 | 24  | 13 | 14 S | 27    | 12 | 22 | 34  |
| 41 | 4074 | --   | DHIRANGE SUJAL SHEKHAR       | 09 | 17 | 26  | 07 | 15   | 22    | 10 | 17 | 27  |
|    |      |      | Present                      |    |    | 40  |    |      | 41    |    |    | 41  |
|    |      |      | Absent                       |    |    | 01  |    |      | 00    |    |    | 00  |
|    |      |      | Total                        |    |    | 41  |    |      | 41    |    |    | 41  |
|    |      |      | Pass                         |    |    | 40  |    |      | 39    |    |    | 41  |
|    |      |      | Fail                         |    |    | 00  |    |      | 02    |    |    | 00  |
|    |      |      | Fail                         |    |    | 100 |    |      | 95.12 |    |    | 100 |
|    |      |      | Pass Percentage              |    |    | NBA |    |      | AKB   |    |    | NBA |
|    |      |      | Teacher                      |    |    |     |    |      |       |    |    | AKB |

Average Result = 39/41 = 95.12%

  
 Head  
 Department of Botany  
 Annapurna Ayaz Arts, Commerce and Hotel Management College, Manchar, Tal. Ambegaon, Dist. Pune



Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College,  
Manchar, Dist. Pune  
Department of Botany

**DEPARTMENT OF BOTANY**

**F. Y. B. Sc. Botany Result Semester: II<sup>nd</sup> 2022-2023**

| Sr. No. | Paper No.           | Strength | Present | Absent | Pass | Fail | Result |
|---------|---------------------|----------|---------|--------|------|------|--------|
| 1       | Theory-I<br>BO-121  | 40       | 39      | 01     | 39   | 00   | 100%   |
| 2       | Theory-II<br>BO-122 | 40       | 39      | 01     | 37   | 02   | 94.87% |
| 3       | Practical<br>BO-123 | 40       | 40      | 00     | 40   | 00   | 100%   |

Average Result =  $37/39 = 94.87\%$

12141 BO-121 PLANT LIFE AND UTILIZATION-II

12142 BO-122 PRINCIPLES OF PLANT SCIENCE

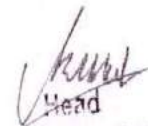
12143 BO-123 PRACTICAL BASED ON BO121 AND BO122

Theory -I BO-121 : Dr. Admuthe N. B.

Theory -II BO-122: Prof. Bhor A. K.

Practical BO-123 : Dr. Admuthe N. B.

Prof. Bhor A. K.



Department of Botany

Annasaheb Awate Arts, Commerce & Hutatma Babu Genu  
Science College, Manchar, Tal. Amrogaon, Dist. Pune

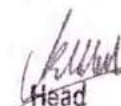
Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar, Tal. Ambegaon, Dist. Pune  
Department of Botany  
Result Analysis Academic Year 2022-2023  
Result F. Y. B. Sc. Botany Semester II

| Name of Faculty Member                 | Subject | Total Students | Appear for Exam | Total Students as per percentage / grades |       |       |       |       |       |       | College Result | University Result |
|--|---------|----------------|-----------------|---|-------|-------|-------|-------|-------|-------|----------------|-------------------|
|  |         |                |                 | O   | A     | B     | C     | D     | E     | F     |                |                   |
|  |         |                |                 | 90-100                                    | 80-89 | 70-79 | 60-69 | 50-59 | 40-49 | 00-39 |                |                   |
| Dr. N. B. Admuthe                      | BO 121  | 40             | 39              | 07  | 06    | 14    | 07    | 04    | 01    | 00    | 100 %          | 66.74 %           |
| Prof. A. K. Bhor                       | BO 122  | 40             | 39              | 06  | 05    | 10    | 09    | 06    | 01    | 02    | 94.87 %        | 66.74 %           |
| Dr. N. B. Admuthe,<br>Prof. A. K. Bhor | BO123   | 40             | 40              | 32  | 06    | 00    | 01    | 01    | 00    | 00    | 100 %          | 66.74 %           |

12141 BO-121 PLANT LIFE AND UTILIZATION-II

12142 BO-122 PRINCIPLES OF PLANT SCIENCE

12143 BO-123 PRACTICAL BASED ON BO121 AND BO122

  
Head

Department of Botany

Annasaheb Awate Arts, Commerce and Hutatma Babu Genu  
Science College, Manchar, Tal. Ambegaon, Dist. Pune

Rayat Shikshan Sansha's

Annasaheb Awate Arts, Commerce & Htatatna Bahu Genu Science College, Manchar, Tal. Ambegaon, Dist. Pune 410503

Department of Botany

F. Y. B. Sc. CBCS 2019 Pattern I examination April, 2022-23

**DEPARTMENT OF BOTANY**

Class: F. Y. B. Sc. Semester II

Subject: Botany

Result Semester II 2022-2023

| Sr No. | Roll No. | Exam No. | Name                          | BO-121 |      |      | BO-122 |      |      | BO-123 |      |      |
|--------|----------|----------|-------------------------------|--------|------|------|--------|------|------|--------|------|------|
|        |          |          |                               | Int.   | Ext. | Tot. | Int.   | Ext. | Tot. | Int.   | Ext. | Tot. |
|        |          |          |                               | 15     | 35   | 50   | 15     | 35   | 50   | 15     | 35   | 50   |
| 1      | 4006     | 4762     | CHIKANE MAHIMA GORAKSHANATH   | 14     | 34   | 48   | 14     | 35   | 49   | 15     | 34   | 49   |
| 2      | 4007     | 4742     | CHIKHALLI SANSKRITI SANDIP    | 14     | 27   | 41   | 14     | 20   | 34   | 15     | 34   | 49   |
| 3      | 4009     | 4720     | DAMISE KANCHAN VILAS          | 14     | 24   | 38   | 11     | 27   | 38   | 15     | 34   | 49   |
| 4      | 4011     | 4721     | DAHLI SWAMI PRALF             | 10     | 13   | 23   | 08     | 20   | 28   | 10     | 17   | 27   |
| 5      | 4012     | 4763     | DANADKAR MAYA RIVISHNI        | 14     | 34   | 48   | 15     | 32   | 47   | 14     | 33   | 47   |
| 6      | 4015     | 4753     | DOKI HEMANT SANTOSH           | 13     | 19   | 32   | 12     | 18   | 30   | 15     | 33   | 48   |
| 7      | 4018     | 4726     | GAWADE AKSHAY BALASAHEB       | 14     | 46   | 60   | 13     | 91   | 224  | 14     | 34   | 48   |
| 8      | 4019     | 4766     | GAWADE RADHIKA HARISH CHANDRA | 14     | 27   | 41   | 11     | 22   | 33   | 12     | 33   | 45   |
| 9      | 4024     | 4728     | GULAVE AKANKSHA SANTOSH       | 13     | 22   | 35   | 11     | 15   | 26   | 15     | 32   | 47   |
| 10     | 4025     | 4768     | HANDI BILAGYASHRI YU VRAJ     | 14     | 32   | 46   | 14     | 24   | 38   | 14     | 34   | 48   |
| 11     | 4029     | 4729     | KANADE AKSHADA PRABHAKAR      | 14     | 14   | 28   | 10     | 14   | 24   | 13     | 34   | 47   |
| 12     | 4031     | 4730     | KAROLI ANKUSH KASHINATH       | 12     | 14   | 26   | 9      | 7    | 16   | 13     | 34   | 47   |
| 13     | 4033     | 4732     | KONDHAWALE RAJAXMI KANCHANDRA | 14     | 19   | 33   | 13     | 16   | 29   | 12     | 33   | 45   |
| 14     | 4034     | 4760     | LANGOTE ANUSHA KALURAM        | 13     | 24   | 37   | 12     | 24   | 36   | 15     | 33   | 48   |
| 15     | 4038     | 4750     | MANDALE SUJYA MACHINDRA       | 13     | 26   | 39   | 12     | 20   | 32   | 15     | 34   | 49   |
| 16     | 4041     | 4736     | MULANI NIHAJ JAVID            | 10     | 18   | 28   | 12     | 22   | 34   | 10     | 31   | 41   |
| 17     | 4042     | 4770     | NIGHOI APURVA ARUN            | 14     | 34   | 48   | 14     | 35   | 49   | 15     | 35   | 50   |
| 18     | 4045     | 4771     | NIGHOI SHARAD DASHARATH       | 14     | 24   | 38   | 14     | 26   | 40   | 15     | 34   | 49   |
| 19     | 4046     | 4772     | PATHAN ARSHIYA RIYAJKHAN      | 13     | 32   | 45   | 15     | 29   | 44   | 14     | 34   | 48   |
| 20     | 4047     | 4738     | PAWALE GAUREGULAB             | 13     | 28   | 41   | 15     | 33   | 48   | 13     | 33   | 46   |
| 21     | 4048     | 4740     | POKHARKAR SAKSHI RAJ          | 13     | AA   | 13 A | 14     | AA   | 14 A | 13     | 31   | 44   |
| 22     | 4049     | 4739     | POKHARKAR ANUJ SURESH         | 12     | 30   | 42   | 09     | 18   | 27   | 14     | 31   | 45   |

|    |      |      |                             |    |    |     |    |    |       |    |    |     |
|----|------|------|-----------------------------|----|----|-----|----|----|-------|----|----|-----|
| 23 | 4050 | 4747 | POHAREKAR TEJASWITA ASHOK   | 14 | 28 | 42  | 14 | 26 | 42    | 15 | 26 | 44  |
| 24 | 4052 | 4743 | SHEKARDE SHASHIKALAJALINDAR | 12 | 22 | 34  | 11 | 19 | 30    | 15 | 20 | 43  |
| 25 | 4053 | 4748 | SHEKARDE SONALJALINDAR      | 13 | 24 | 37  | 11 | 21 | 32    | 14 | 25 | 47  |
| 26 | 4055 | 4746 | SHEKARDE GOVIND             | 11 | 19 | 30  | 11 | 21 | 32    | 14 | 25 | 47  |
| 27 | 4056 | 4747 | SHEWALE ANJALI SANTOSH      | 13 | 17 | 30  | 12 | 22 | 34    | 14 | 24 | 48  |
| 28 | 4059 | 4740 | SHINGADE PRANALIBABAN       | 15 | 25 | 38  | 12 | 24 | 36    | 12 | 21 | 46  |
| 29 | 4061 | 4773 | LAMBADI VAISHNAVI SURESH    | 14 | 30 | 44  | 14 | 30 | 44    | 15 | 35 | 50  |
| 30 | 4062 | 4751 | LAVHARE DIGAMBAR BALASAHIB  | 12 | 21 | 33  | 13 | 24 | 37    | 14 | 25 | 47  |
| 31 | 4063 | 4752 | LAVHARE PRIYANKA SAYAJI     | 12 | 21 | 33  | 13 | 24 | 37    | 14 | 25 | 47  |
| 32 | 4064 | 4754 | THORAT ANHISHI NITIN        | 11 | 27 | 38  | 12 | 25 | 37    | 13 | 22 | 44  |
| 33 | 4066 | 4774 | TOTRE SAMRUDDHI RAMDAS      | 14 | 32 | 46  | 15 | 32 | 47    | 13 | 35 | 48  |
| 34 | 4068 | 4757 | WAGH KARAN JALINDAR         | 13 | 27 | 40  | 13 | 26 | 39    | 14 | 24 | 48  |
| 35 | 4069 | 4775 | WALUNJ PRANALI AVINASH      | 15 | 32 | 47  | 14 | 29 | 43    | 13 | 35 | 48  |
| 36 | 4070 | 4758 | WAYAL SHUBHAM SAVAJIRAM     | 13 | 26 | 40  | 14 | 22 | 36    | 14 | 33 | 47  |
| 37 | 4071 | 4759 | YETI BHAR DIKSHA DELPAK     | 13 | 24 | 37  | 13 | 23 | 36    | 14 | 33 | 47  |
| 38 | 4072 | 4765 | DOKE AARATI SHANKAR         | 11 | 24 | 35  | 09 | 18 | 27    | 13 | 17 | 30  |
| 39 | 4073 | 4743 | SARWADI PRIYA MAHADEV       | 11 | 26 | 37  | 13 | 21 | 34    | 14 | 24 | 48  |
| 40 | 4074 | 4764 | DHURANGE SUTAI SHIKHAR      | 9  | 16 | 25  | 09 | 17 | 26    | 12 | 21 | 43  |
|    |      |      | Present                     |    |    |     |    |    |       |    |    |     |
|    |      |      | Absent                      |    |    | 39  |    |    | 39    |    |    |     |
|    |      |      | Total                       |    |    | 01  |    |    | 01    |    |    | 00  |
|    |      |      | Pass                        |    |    | 40  |    |    | 40    |    |    | 40  |
|    |      |      | Fail                        |    |    | 39  |    |    | 39    |    |    | 40  |
|    |      |      | Pass Percentage             |    |    | 00  |    |    | 02    |    |    | 00  |
|    |      |      | Teacher                     |    |    | 100 |    |    | 94.87 |    |    | 00  |
|    |      |      |                             |    |    | NBA |    |    | NBA   |    |    | NBA |
|    |      |      |                             |    |    |     |    |    | AKB   |    |    | AKB |

Average Result 37.39 94.87%

S.Y.B.Sc Sem IV

2022-2023 DEPARTMENT OF BOTANY

| Sr. No. | Roll No | Exam No. | Student Name                 | Botany Paper I (24141) |    | Botany Paper II (24142) |    | Botany Paper III (24143) |    |    |    |    |    |
|---------|---------|----------|------------------------------|------------------------|----|-------------------------|----|--------------------------|----|----|----|----|----|
|         |         |          |                              |                        |    |                         |    |                          |    |    |    |    |    |
| 1       | 4201    | 4821     | BAGAL NIKITA MAHESH          | 14                     | 31 | 45                      | 15 | 33                       | 48 | 14 | 34 | 48 |    |
| 2       | 4202    | 4822     | BAGAL TEJASWINI TANHAJI      | 13                     | 30 | 43                      | 15 | 33                       | 48 | 13 | 33 | 46 |    |
| 3       | 4203    | 4778     | BANGAR SAYALI SUNIL          | 10                     | 14 | 24                      | 11 | 24                       | 35 | 7  | 29 | 36 |    |
| 4       | 4204    | 4779     | CHASKAR MAYURI RAJESH        | 13                     | 6  | 19                      | 13 | 6                        | 19 | 11 | 25 | 36 |    |
| 5       | 4205    | 4781     | CHAVHAN AKSHAY KAILAS        | 7                      | 4  | 11                      | 11 | 0                        | 11 | 6  | 19 | 25 |    |
| 6       | 4206    | 4782     | CHIKANE AKSHAY SHIVAJI       | 11                     | 10 | 21                      | 11 | 09                       | 20 | 06 | 23 | 29 |    |
| 7       | 4207    | 4783     | CHIKHALE PRANALI PRAVIN      | 14                     | 17 | 31                      | 13 | 27                       | 40 | 11 | 26 | 37 |    |
| 8       | 4208    | 4784     | CHIKHALE SHUBHANGI BALASAHEB | 13                     | 15 | 28                      | 11 | 17                       | 28 | 13 | 28 | 41 |    |
| 9       | 4209    | 4785     | DHUMAL SIDDHESH SHARAD       | 12                     | 09 | 21                      | 11 | 22                       | 33 | 06 | 24 | 30 |    |
| 10      | 4210    | 4787     | GABHALE PRATHAMESH RAJENDRA  | 13                     | 14 | 27                      | 11 | 25                       | 36 | 10 | 20 | 30 |    |
| 11      | 4211    |          | GANJALE SIDDHIRAJ KAILAS     |                        |    |                         |    |                          |    |    |    |    |    |
| 12      | 4212    | 4790     | GAVARI PRITESH RANGNATH      | 9                      | 7  | 16                      | 14 | 26                       | 40 | 13 | 22 | 35 |    |
| 13      | 4213    | 4829     | GAWADE KAJAL KHANDU          | 12                     | 25 | 37                      | 14 | 27                       | 41 | 13 | 29 | 42 |    |
| 14      | 4214    | 4789     | GAWADE OMKAR BALU            | 6                      | 6  | 15                      | 21 | 10                       | 19 | 29 | 11 | 24 | 35 |
| 15      | 4215    |          | GAWADE VAISHNAVI VILAS       |                        |    |                         |    |                          |    |    |    |    |    |
| 16      | 4216    | 4791     | GENGAJE VINAY VIJAY          | 11                     | 15 | 26                      | 14 | 23                       | 37 | 07 | 25 | 32 |    |
| 17      | 4217    | 4792     | GHODEKAR NAMRATA BALASAHEB   | 14                     | 22 | 36                      | 25 | 31                       | 46 | 13 | 30 | 33 |    |
| 18      | 4218    | 4793     | GUNJAL CHETAN BABAN          | 10                     | 01 | 11                      | 7  | 0                        | 7  | 6  | 17 | 23 |    |
| 19      | 4219    | 4825     | HINGE ASHWINI NAVNATH        | 15                     | 28 | 33                      | 15 | 33                       | 48 | 12 | 30 | 42 |    |
| 20      | 4220    | 4826     | HINGE SAKSHI MANIK           | 15                     | 31 | 46                      | 15 | 34                       | 49 | 12 | 32 | 44 |    |


*[Signature]*  
Head

Department of Botany

Sheb Awate Arts, Commerce and Htatma Babu Genu  
Science College, Manchar, Tal. Ambegaon, Dist. Pune

|    |      |      |                              |    |    |    |    |    |    |    |    |
|----|------|------|------------------------------|----|----|----|----|----|----|----|----|
| 21 | 4221 | 4794 | INAMDAR MISBA ANIS           | 13 | 18 | 31 | 15 | 23 | 38 | 12 | 30 |
| 22 | 4222 | 4828 | JANGALE TEJAL<br>NANDKUMAR   | 14 | 33 | 47 | 15 | 31 | 46 | 13 | 31 |
| 23 | 4223 | 4795 | KARALE GAYATRI<br>DATTATRAY  | 12 | 14 | 26 | 15 | 20 | 35 | 06 | 24 |
| 24 | 4224 | 4796 | KENGALE DIVYA<br>SANTOSH     | 13 | 16 | 29 | 14 | 26 | 40 | 07 | 26 |
| 25 | 4225 | 4798 | KIRVE SONAL PRAKASHI         | 14 | 15 | 29 | 14 | 27 | 41 | 11 | 27 |
| 26 | 4226 | 4799 | KONDHAWALE SAKSHI<br>HARIDAS | 11 | 14 | 25 | 14 | 17 | 31 | 12 | 28 |
| 27 | 4227 | 4800 | LANGHI GANESHI<br>MARUTI     | 6  | 0  | 6  | 7  | 3  | 10 | 10 | 21 |
| 28 | 4228 | 4802 | NETAKE NIKITA<br>DASHRATHI   | 12 | 14 | 26 | 13 | 23 | 36 | 11 | 30 |
| 29 | 4229 | 4803 | NIGHOT OM VASANT             | 08 | 20 | 28 | 09 | 22 | 31 | 08 | 26 |
| 30 | 4230 | 4813 | NIGHOT SHUBHAM<br>DASHARATHI | 06 | 15 | 21 | 09 | 21 | 30 | 08 | 26 |
| 31 | 4231 | 4804 | OVHAL BHAGYASHRI<br>RAHUL    | 14 | 21 | 35 | 15 | 29 | 44 | 12 | 3  |
| 32 | 4232 | 4806 | PHALKE PRADIP SURESH         | 09 | 28 | 37 | 15 | 32 | 47 | 09 | 2  |
| 33 | 4233 | 4831 | RAKSHI ADITI<br>DATTATRAY    | 13 | AA | 13 | 14 | AA | 14 | 12 | 2  |
| 34 | 4234 | 4808 | SANAS VINIT ANIL             | 12 | 15 | 27 | 13 | 15 | 28 | 09 | 2  |
| 35 | 4235 | 4812 | SHINDE TANUJA<br>JAYSING     | 13 | 22 | 35 | 15 | 21 | 36 | 12 | 2  |
| 36 | 4236 | 4814 | SOMAVANSHI KETAN<br>VIJAY    | 06 | 15 | 21 | 08 | 26 | 34 | 10 | 2  |
| 37 | 4237 | 4815 | SUKRE SAHIL BABAJI           | 11 | 23 | 34 | 09 | 27 | 36 | 09 | 2  |
| 38 | 4238 | 4816 | TELI BHAGYSHRI<br>BASURAJ    | 12 | 22 | 34 | 14 | 24 | 38 | 09 | 2  |
| 39 | 4239 | 4817 | THORAT ADITI KAILAS          | 11 | 19 | 30 | 14 | 22 | 36 | 09 | 2  |
| 40 | 4240 | 4818 | UDHANE JAYSHRI<br>RAMDAS     | 12 | 30 | 42 | 14 | 26 | 40 | 10 | 2  |
| 41 | 4241 | 4819 | UNDE NIKITA RAJENDRA         | 12 | 18 | 30 | 15 | 25 | 40 | 11 | 2  |

|    |      |      |                              |    |    |    |    |    |    |    |    |    |
|----|------|------|------------------------------|----|----|----|----|----|----|----|----|----|
| 42 | 4242 | 4833 | VARPE DHANASHREE<br>SANTOSHI | 13 | 27 | 40 | 15 | 31 | 46 | 13 | 25 | 38 |
| 43 | 4243 | 4834 | WAYKAR PRADNYA<br>RAMDAS     | 12 | 24 | 36 | 15 | 29 | 44 | 13 | 30 | 43 |
| 44 | 4244 | 4820 | YEWLE RIYA<br>CHANDRAKANTI   | 14 | 17 | 31 | 15 | 24 | 39 | 12 | 27 | 39 |

  
Head  
**Department of Botany**  
Annapurna Awarde Arts, Commerce and Hattatma Baw  
Science College, Manchar Dist. Dist.

Rayat Shikshan Sanstha's

Annasaheb Awate Arts, Com and Hutatma Babu Genu Science College Manchar  
Tal- Ambegaon Dist. Pune (410503)

**Department of Botany**

M.Sc. Part II Result (Sem III) (2022-2023)

| Total SGPA | Exam Seat No. | Name of Student                | I<br>40321 | II<br>40322 | III<br>40323 | IV<br>40324 | V<br>40325 | VI<br>40326 |
|------------|---------------|--------------------------------|------------|-------------|--------------|-------------|------------|-------------|
| 7.500      | 401076        | Dhobale Onkar<br>Dagadu        | 56         | 55          | 51           | 66          | 88         | 79          |
| 7.800      | 401077        | Gawade Akash<br>Balasaheb      | 53         | 62          | 58           | 62          | 90         | 80          |
| 8.000      | 401078        | Randive Shrividya<br>Kamalakar | 57         | 59          | 63           | 62          | 94         | 85          |
|            |               |                                | PDN        | SVB         | SVB          | NAB         | NAB        | PDN<br>SVB  |

| Rank | Name of Student             |
|------|-----------------------------|
| 1    | Randive Shrividya Kamalakar |
| 2    | Gawade Akash Balasaheb      |
| 3    | Dhobale Onkar Dagadu        |

| Theory Paper         | Total No. of Student Appear<br>For Exam | Pass | Fail | Result |
|----------------------|---|------|------|--------|
| Developmental Botany | 03                                      | 03   | 00   | 100%   |
| Plant physiology     | 03                                      | 03   | 00   | 100%   |

Name of Teacher: Ms. Barve S. V.

**DEPARTMENT OF BOTANY**

*[Signature]*  
Head  
Department of Botany  
Annasaheb Awate Arts, Commerce and Hutatma Babu Ge  
Science College, Manchar, Tal. Ambegaon, Dist. Pune



Rayat Shikshan Sanstha's

Annasaheb Awate Arts, Com and Hutatma Babu Genu Science College Manchar  
Tal- Ambegaon Dist. Pune (410503)

Department of Botany

M.Sc. Part II Result (2022-2023) (sem IV)

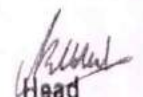
| Total SGPA | Exam Seat No. | Name of Student                | I<br>40421 | II<br>40422 | III<br>40423 | IV<br>40424 | V<br>40425 | VI<br>40426 | VII<br>40428 |
|------------|---------------|--------------------------------|------------|-------------|--------------|-------------|------------|-------------|--------------|
| 8.300      | 401076        | Dhobale Onkar<br>Dagadu        | 71         | 68          | 84           | 74          | 76         | 78          | 68           |
| 9.000      | 401077        | Gawade Akash<br>Balasaheb      | 81         | 72          | 90           | 84          | 90         | 88          | 86           |
| 9.100      | 401078        | Randive Shrividya<br>Kamalakar | 75         | 73          | 92           | 90          | 90         | 86          | 75           |
|            |               |                                | PDN        | SVB         | PDN          | NAB         | NAB        | PDN         | PDN<br>SVB   |

| Rank | Name of Student             |
|------|-----------------------------|
| 1    | Randive Shrividya Kamalakar |
| 2    | Gawade Akash Balasaheb      |
| 3    | Dhobale Onkar Dagadu        |

| Theory Paper II | Total No. of Student Appear For Exam | Pass | Fail | Result |
|-----------------|--------------------------------------|------|------|--------|
| Advance Ecology | 03                                   | 03   | 00   | 100%   |

Name of Teacher: Ms. Barve S. V. - 

**DEPARTMENT OF BOTANY**

  
Head  
Department of Botany  
Annasaheb Awate Arts, Commerce and Hutatma Babu Genu  
Science College, Manchar, Tal. Ambegaon, Dist. Pune

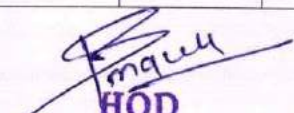
Rayat Shikshan Sanstha's

**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College**

Manchar, Tal. Ambegaon, Dist. Pune

**BIOTECHNOLOGY DEPARTMENT RESULT ANALYSIS (2022-23)**

| Name of the Faculty Member | Subject                               | Total Students | Appear for Exam | Total Studets as per Percentage/grades |          |          |          |          |          | Total Result % |          |
|----------------------------|---------------------------------------|----------------|-----------------|--|----------|----------|----------|----------|----------|----------------|----------|
|                            |                                       |                |                 | <b>O</b>                               | <b>A</b> | <b>B</b> | <b>C</b> | <b>D</b> | <b>E</b> |                | <b>F</b> |
|                            |                                       |                |                 | 90--100                                | 80--89   | 70--79   | 60--69   | 50--59   | 40--49   |                | 00--39   |
| Prof. Ingole D.D.          | Food And Pharmaceutical Biotechnology | 03             | 03              |  | 01       |          | 01       | 01       |          |                | 100 %    |
| Prof. Ingole D.D.          | Applied biotechnology II              | 03             | 03              | 01                                     |          |          | 01       | 01       |          |                |          |
| Prof. Ingole D.D.          | Biosaftey And Bioethics And IPR       | 03             | 03              | 01                                     |          |          | 01       | 01       |          |                |          |
| Prof . Maskare S. R        | Enzyme And Enzyme Technology          | 03             | 03              | 01                                     |          | 01       | 01       |          |          |                |          |
| Prof . Rajguru Mangesh     | Bioinformatics                        | 03             | 03              | 01                                     |          | 01       | 01       |          |          |                |          |
| Prof . Maskare S. R        | Agricultural Biotechnology            | 03             | 03              |  | 01       |          | 01       | 01       |          |                |          |

  
**HOD**  
Department of Biotechnology  
Annasaheb Awate College, Manchar.

रयत शिक्षण संस्थेचे  
अण्णासाहेब आवटे कॉलेज मंचर

विभाग : पश्चिम विभाग

सन 2022-2023

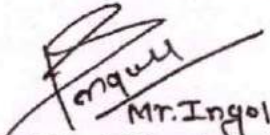
प्राध्यापकाचे नाव : **Prof. Ingole D.D**

शैक्षणिक अर्हता : M.Sc Microbiology

नेमणूक दिनांक : 04/ 08/ 2018

झालेली एकूण सेवा: 5 वर्ष 1 महीने

| Class | Subject    | Total Students | Appear for Exam | Total Studets as per Percentage/grades |       |       |       |       |       | College Result | University Result | Remark |       |
|-------|------------|----------------|-----------------|--|-------|-------|-------|-------|-------|----------------|-------------------|--------|-------|
|       |            |                |                 | O                                      | A     | B     | C     | D     | E     |                |                   |        | F     |
|       |            |                |                 | 90-100                                 | 80-89 | 70-79 | 60-69 | 50-59 | 40-49 |                |                   |        | 00-39 |
| F.Y.  | Food Micro | 2              | 2               |  | 1     |       | 1     |       |       |                | 100%              |        |       |
| S.Y.  | Dairy Tech | 5              | 5               |  | 2     |       | 2     | 1     |       |                | 100%              |        |       |
| T.Y.  | Waste Ma   | 10             | 10              |  | 3     | 1     | 5     | 1     |       |                | 100%              |        |       |
|       |            |                |                 |  |       |       |       |       |       |                |                   |        |       |
|       |            |                |                 |  |       |       |       |       |       |                |                   |        |       |
|       |            |                |                 |  |       |       |       |       |       |                |                   |        |       |
|       |            |                |                 |  |       |       |       |       |       |                |                   |        |       |
|       |            |                |                 |  |       |       |       |       |       |                |                   |        |       |
|       |            |                |                 |  |       |       |       |       |       |                |                   |        |       |

  
Mr. Ingole D.D  
Subject Teacher Sign

  
HOD Sign

  
Principal  
A.A. College Manchar  
Annasaheb Awate Art's, Commerce &  
Hutatama Babu Ganu Science College  
Manchar, Tal. Ambegaon, Dist. Pune



रयत शिक्षण संस्थेचे  
अण्णासाहेब आवटे कॉलेज मंचर

विभाग : पश्चिम विभाग

सन 2022-2023

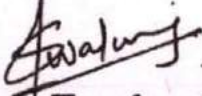
प्राध्यापकाचे नाव : **Prof. Walunj S.S.**

नेमणूक दिनांक: 15/03/2021

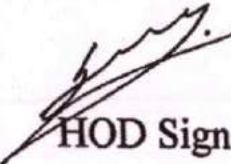
शैक्षणिक अर्हता : M.A. (English) B. E. .

झालेली एकूण सेवा: 2 yrs 4 Months

| Class | Subject               | Total Students | Appear for Exam | Total Studets as per Percentage/grades |       |       |       |       |       | College Result | University Result | Remark |       |  |
|-------|-----------------------|----------------|-----------------|--|-------|-------|-------|-------|-------|----------------|-------------------|--------|-------|--|
|       |                       |                |                 | O                                      | A     | B     | C     | D     | E     |                |                   |        | F     |  |
|       |                       |                |                 | 90-100                                 | 80-89 | 70-79 | 60-69 | 50-59 | 40-49 |                |                   |        | 00-39 |  |
| F.Y.  | Basic Comm. Skills    | 2              | 2               |  |       |       | 2     |       |       |                | 100%              | -      |       |  |
| F.Y.  | Business Comm. Skills | 2              | 2               |  |       |       | 1     | 1     |       |                | 100%              | -      |       |  |
|       |                       |                |                 |  |       |       |       |       |       |                |                   |        |       |  |
|       |                       |                |                 |  |       |       |       |       |       |                |                   |        |       |  |
|       |                       |                |                 |  |       |       |       |       |       |                |                   |        |       |  |
|       |                       |                |                 |  |       |       |       |       |       |                |                   |        |       |  |
|       |                       |                |                 |  |       |       |       |       |       |                |                   |        |       |  |

  
Subject Teacher Sign  
Prof. Walunj S.S.



  
HOD Sign

  
Principal  
A. A. College Manchar  
Anasahab Awate S.T.S. Commerce &  
Hutatama Batu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune

रयत शिक्षण संस्थेचे  
अण्णासाहेब आवटे कॉलेज मंचर

विभाग : पश्चिम विभाग

सन 2022-2023


प्राध्यापकाचे नाव : Prof. Dhone T. E.

नेमणूक दिनांक: 01/12/2021

शैक्षणिक अर्हता : M.A. B. Ed. SET (English)

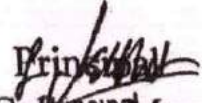
झालेली एकूण सेवा: 2 yrs

| Class | Subject                      | Total Students | Appear for Exam | Total Studets as per Percentage/grades |       |       |       |       |       | College Result | University Result | Remark |       |
|-------|------------------------------|----------------|-----------------|--|-------|-------|-------|-------|-------|----------------|-------------------|--------|-------|
|       |                              |                |                 | O                                      | A     | B     | C     | D     | E     |                |                   |        | F     |
|       |                              |                |                 | 90-100                                 | 80-89 | 70-79 | 60-69 | 50-59 | 40-49 |                |                   |        | 00-39 |
| T.Y.  | Entrepreneurship Development | 10             | 10              |  |       | 6     | 4     |       |       |                | 100%              |        |       |
| T.Y.  | Business Management          | 10             | 10              |  |       | 2     | 5     | 2     | 1     |                | 100%              |        |       |
|       |                              |                |                 |  |       |       |       |       |       |                |                   |        |       |
|       |                              |                |                 |  |       |       |       |       |       |                |                   |        |       |
|       |                              |                |                 |  |       |       |       |       |       |                |                   |        |       |
|       |                              |                |                 |  |       |       |       |       |       |                |                   |        |       |
|       |                              |                |                 |  |       |       |       |       |       |                |                   |        |       |

  
Subject Teacher Sign  
(T.E. DHONE)



  
HOD Sign

  
A.A. College Manchar  
Annasaheb Awate Art's, Commerce &  
Hutatama Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune



Rayat Shikshan Sanstha's  
Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science Co  
Manchar, Tal. Ambegaon, Dist. - Pune (410503)

**DEPARTMENT OF ECONOMICS**

**T.Y.B.A. Result 2022-23**

| Class | Total Student | Appear Students | Absent Students | Pass Students | Fail Students | Department Result | University Result |
|-------|---------------|-----------------|-----------------|---------------|---------------|-------------------|-------------------|
| TYBA  | 15            | 13              | 1               | 6             | 6             | 50.00%            | 49.54             |

**Ranker Students:**

- 1) Murkut Ankita Dnyaneshwar 775/1200
- 2) Ware Shubham Sanjay 753/1200
- 3) Marade Nilam Eknath 729/1200

*Solte*

**Head**  
**Department Of Economics**  
A. A. College, Manchar



Rayat Shikshan Sanstha's

**Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science  
College Manchar, Tal. Ambegaon, Dist.- Pune (410503)**

**DEPARTMENT OF ECONOMICS**

**MA Results 2022-23**

| Class  | Total Student | Appear Students | Absent Students | Pass Students | Fail Students | Department Result | University Result |
|--------|---------------|-----------------|-----------------|---------------|---------------|-------------------|-------------------|
| M.A. I | 9             | 9               | 0               | 9             | 0             | 100 %             | -                 |

| Class   | Total Student | Appear Students | Absent Students | Pass Students | Fail Students | Department Result | University Result |
|---------|---------------|-----------------|-----------------|---------------|---------------|-------------------|-------------------|
| M.A. II | 16            | 13              | 0               | 13            | 0             | 100 %             | -                 |

**Ranker Students: (MA II)**

|   |           |         |
|---|-----------|---------|
| I) Bhaiyye Tejshri Sunil (Mob.7821086033) | 1118/1600 | 69.88 % |
| II) Jadhav Utkarsha Rajendra              | 1101/1600 | 68.81 % |
| III) Ambavane Baburao Sakharam            | 1067/1600 | 66.69 % |

*Sarika*

**Head**

**Department Of Economics**  
A. A. College, Manchar

*J. J. J.*

**for I.C. Principal**

Annasaheb Awate Art's, Commerce &  
Hutatama Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune.

रयत शिक्षण संस्थेचे  
अण्णासाहेब आवटे कॉलेज मंचर

विभाग : अर्थशास्त्र विभाग

सन 2022-2023

प्राध्यापकाचे नाव: डॉ. सालके सुनील रामराव

नेमणूक दिनांक : ०६/०९ / २०२३

शैक्षणिक अर्हता: MA, B.Ed,SET

झालेली एकूण सेवा : 27 वर्ष 08 महीने

| Class  | Subject                        | Total Students | Appear for Exam | Total Studets as per Percentage/grades |       |       |       |       |       |       | College Result | University Result | Remark |
|--------|--------------------------------|----------------|-----------------|--|-------|-------|-------|-------|-------|-------|----------------|-------------------|--------|
|        |                                |                |                 | O                                      | A     | B     | C     | D     | E     | F     |                |                   |        |
|        |                                |                |                 | 90-100                                 | 80-89 | 70-79 | 60-69 | 50-59 | 40-49 | 00-39 |                |                   |        |
| FYBA   | Indian Economic Enviorment -I  | 110            | 102             | 0                                      | 1     | 1     | 2     | 18    | 33    | 47    | 53.92%         | 49.54%            | -      |
| SYBA   | Micro Economics-I              | 13             | 12              | 0                                      | 0     | 0     | 1     | 3     | 4     | 4     | 67%            | 49.54%            | -      |
| SYBA   | Financial system-I             | 35             | 35              | 0                                      | 0     | 0     | 1     | 8     | 20    | 6     | 83%            | 49.54%            | -      |
| TYBA   | SEC Business Manegment-I       | 19             | 19              | 0                                      | 0     | 1     | 6     | 8     | 3     | 0     | 100%           | 49.54%            | -      |
| TYBA   | Public Finance                 | 19             | 19              | 0                                      | 0     | 0     | 1     | 4     | 11    | 0     | 100%           | 49.54%            | -      |
| FYBA   | Indian Economic Enviorment -II | 133            | 101             | 0                                      | 3     | 15    | 22    | 31    | 21    | 9     | 91.08%         | 49.54%            | -      |
| SYBA   | Micro Economics-II             | 13             | 13              | 0                                      | 0     | 3     | 3     | 6     | 0     | 1     | 92.30%         | 49.54%            | -      |
| SYBA   | Financial system-II            | 35             | 35              | 0                                      | 0     | 2     | 3     | 11    | 18    | 1     | 97.14%         | 49.54%            | -      |
| TYBA   | Public Finance II              | 15             | 13              | 0                                      | 0     | 4     | 9     | 0     | 0     | 0     | 100%           | 49.54%            | -      |
| TYBA   | SEC Business Manegment-II      | 15             | 12              | 0                                      | 6     | 4     | 2     | 0     | 0     | 0     | 100%           | 49.54%            | -      |
| SYBCOM | Business Economics (Macro) -II | 245            | 232             | 1                                      | 12    | 35    | 63    | 64    | 39    | 18    | 92.24%         | 71.13%            | -      |

Subject Teacher Sign

HOD Sign  
Head

Department Of Economics  
A. A. College, Manchar

Principal  
Annasaheb Amte Arts, Commerce &  
Hutatama Babu Guru Science College  
Manchar, Tal. Ambegaon, Dist. Pune.





**रयत शिक्षण संस्थेचे,**  
**अण्णासाहेब आवटे कला, वाणज्य आण हुतात्मा बाबू गनू विज्ञान महाविद्यालय, मकर**  
**विभाग : अर्थशास्त्र विभाग**

सन 2022-2023

प्राध्यापकाचे नाव: डॉ. लामदाडे बी.बी.  
 शैक्षणिक: अर्हता: MA, M.Phil., PH.D.SET

वेळापत्र दिनांक: 11 12 2023

ज्ञातेली राहण सेवा: वर्ष 9 मासिन 8



| Class  | Subject                             | Total Students | Appear for Exam | Total Students as per Percentage grades |       |       |       |       |       |       |   | College Result | University Result | Remarks |
|--------|-------------------------------------|----------------|-----------------|---|-------|-------|-------|-------|-------|-------|---|----------------|-------------------|---------|
|        |                                     |                |                 | O                                       | A     | B     | C     | D     | E     | F     |   |                |                   |         |
|        |                                     |                |                 | 90-100                                  | 80-89 | 70-79 | 60-69 | 50-59 | 40-49 | 30-39 |   |                |                   |         |
| SYBA   | Macro Economics S-2                 | 15             | 13              | 0                                       | 0     | 4     | 2     | 5     | 1     | 1     | 1 | 100            | 100               |         |
| TYBCOM | Indian and Global Economic Developm | 200            | 195             | 0                                       | 22    | 48    | 53    | 43    | 24    | 8     | 8 | 100            | 100               |         |
| MA I   | HumanRight II                       | 9              | 9               | 0                                       | 3     | 0     | 2     | 4     | 1     | 1     | 1 | 100            | 100               |         |
| MA I   | Cyber Security II                   | 9              | 9               | 0                                       | 3     | 1     | 3     | 2     | 1     | 1     | 1 | 100            | 100               |         |
| MA II  | Research project                    | 16             | 13              | 0                                       | 4     | 7     | 0     | 2     | 0     | 1     | 1 | 100            | 100               |         |
| MA II  | Cyber Security IV                   | 16             | 13              | 0                                       | 5     | 4     | 4     | 1     | 1     | 1     | 1 | 100            | 100               |         |
| MA II  | Skill Development II                | 16             | 13              | 0                                       | 0     | 2     | 10    | 1     | 1     | 1     | 1 | 100            | 100               |         |
|        |                                     |                |                 |   |       |       |       |       |       |       |   |                |                   |         |
|        |                                     |                |                 |   |       |       |       |       |       |       |   |                |                   |         |
|        |                                     |                |                 |   |       |       |       |       |       |       |   |                |                   |         |

Subject Teacher Sign

HOD Sign  
 Head  
 Department Of Economics  
 A.A.C. Teacher

Principal  
 A.A. College Murchar  
 Principal  
 Maharashtra State Open University  
 Maharashtra State Open University  
 Maharashtra State Open University



रयत शिक्षण संस्थेचे  
अण्णासाहेब आवटे कॉलेज मंचर

विभाग : पश्चिम विभाग

सन 2022-2023

प्राध्यापकाचे नाव : Prof. Bhalekar M. T

नेमणूक दिनांक: 01/09/2009

शैक्षणिक अर्हता : M.com (English)B.Ed GDCA

झालेली एकूण सेवा: 14 yrs

| Class | Subject                       | Total Students | Appear for Exam | Total Studets as per Percentage/grades |       |       |       |       |       | College Result | University Result | Remark |       |
|-------|-------------------------------|----------------|-----------------|--|-------|-------|-------|-------|-------|----------------|-------------------|--------|-------|
|       |                               |                |                 | O                                      | A     | B     | C     | D     | E     |                |                   |        | F     |
|       |                               |                |                 | 90-100                                 | 80-89 | 70-79 | 60-69 | 50-59 | 40-49 |                |                   |        | 00-39 |
| SY    | Fundamentals of Accounting I  | 5              | 5               |  |       |       | 1     | 1     | 3     |                | 100%              |        |       |
| SY    | Fundamentals of Accounting II | 5              | 5               | 1                                      |       | 2     | 2     |       |       |                | 100%              |        |       |
|       |                               |                |                 |  |       |       |       |       |       |                |                   |        |       |
|       |                               |                |                 |  |       |       |       |       |       |                |                   |        |       |
|       |                               |                |                 |  |       |       |       |       |       |                |                   |        |       |
|       |                               |                |                 |  |       |       |       |       |       |                |                   |        |       |

*BMT*  
Subject Teacher Sign



*P. Shankar*  
HOD Sign

*P. Shankar*  
Principal  
A.A. College Manchar  
Annasaheb Awate Art's, Commerce &  
Hutatama Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune

रयत शिक्षण संस्थेचे  
अण्णासाहेब आवटे कॉलेज मंचर

विभागाचे नाव BBA-CA

A Y 2022-2023

| Sr No | Class     | Subject Name           | Total Student |
|-------|-----------|------------------------|---------------|
| 1     | FY BBA-CA | Business communication | 83            |
| 2     | —         | Principles of mang.    | 83            |
| 3     | —         | c language             | 83            |
| 4     | —         | Database management    | 83            |
| 5     | —         | Statistics             | 83            |
| 6     | —         | OB & HRM               | 83            |
| 7     | —         | Financial Acco.        | 83            |
| 8     | —         | Business Math          | 83            |
| 9     | —         | Relational Database    | 83            |
| 10    | —         | web Technology.        | 83            |
| 11    | SY BBA-CA | Digital Marketing      | 52            |
| 12    | —         | Data structure         | 52            |
| 13    | —         | Software Engineering   | 52            |
| 14    | —         | Angular JS             | 52            |
| 15    | —         | Big Data               | 52            |

| Sr No | Class     | Subject Name     | Total Student |
|-------|-----------|------------------|---------------|
| 16    | SY BBA-CA | Networking       | 52            |
| 17    | —         | C++ Hnoop        | 52            |
| 18    | —         | Node JS          | 52            |
| 19    | TY BBA    | cyber security   | 39            |
| 20    | —         | OOSE             | 39            |
| 21    | —         | core Java        | 39            |
| 22    | —         | Python           | 39            |
| 23    | —         | RTI              | 39            |
| 24    | —         | Software Testing | 39            |
| 25    | —         | Advance Java     | 39            |
| 26    | —         | •Net framework   | 39            |
| 27    |           |                  |               |
| 28    |           |                  |               |
| 29    |           |                  |               |
| 30    |           |                  |               |

Department Result

| Class | Total Students | Appears | Pass | Fail | Percentage | University Result |
|-------|----------------|---------|------|------|------------|-------------------|
| FY    | 83             | 82      | 79   | 03   | 96.34%     | —                 |
| SY    | 52             | 52      | 51   | 01   | 98.07%     | —                 |
| TY    | 39             | 37      | 26   | 11   | 70.27%     | 62.55%            |
| PG I  | —              | —       | —    | —    | —          | —                 |
| PG II | —              | —       | —    | —    | —          | —                 |

HOD Sign



H.O.D.  
BBA(CA) Department  
A.A.College, Manchar 410 503

Principal  
A.A.College Manchar  
Anasahab Awate Art's, Commerce &  
Hutatama Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune

**रयत शिक्षण संस्थेचे  
अण्णासाहेब आवट कॉलेज मंचर**

विभागाचे नाव

**Categorywise Result Analysis A.Y 2022-2023 (Only Last Year)**

|         | SC  |      | ST  |     | NT/VJ |      | OBC    |      | SBC  |    | OPEN |     | Total |     |
|---------|-----|------|-----|-----|-------|------|--------|------|------|----|------|-----|-------|-----|
|         | B   | G    | B   | G   | B     | G    | B      | G    | B    | G  | B    | G   | B     | G   |
| Total   | 01  | 01   | 01  | 01  | 01    | 01   | 03     | 01   | 01   | 00 | 13   | 15  | 20    | 19  |
| Appeare | 01  | 01   | 01  | 01  | 01    | 01   | 03     | 01   | 01   | 00 | 11   | 15  | 18    | 19  |
| Pass    | 00  | 01   | 01  | 01  | 01    | 01   | 02     | 01   | 01   | 00 | 05   | 02  | 10    | 16  |
| Fail    | 01  | 00   | 00  | 00  | 00    | 00   | 01     | 00   | 00   | 00 | 06   | 03  | 08    | 03  |
| Result  | 00% | 100% | 00% | 100 | 100%  | 100% | 66.00% | 100% | 100% | -  | 45%  | 80% | 55%   | 84% |

|            | Total Student |      |       | Appear |      |       | Pass |      |       | Percentage |      |       |
|------------|---------------|------|-------|--------|------|-------|------|------|-------|------------|------|-------|
|            | Boy           | Girl | Total | Boy    | Girl | Total | Boy  | Girl | Total | Boy        | Girl | Total |
| Muslims    | 00            | 02   | 02    | 00     | 02   | 02    | 00   | 02   | 02    | -          | 100% | 100%  |
| Christians | -             | -    | -     | -      | -    | -     | -    | -    | -     | -          | -    | -     |
| Sikhs      | -             | -    | -     | -      | -    | -     | -    | -    | -     | -          | -    | -     |
| Buddhists  | 01            | 01   | 02    | 01     | 01   | 02    | 00   | 01   | 01    | 00%        | 100% | 50%   |
| Parshi     | -             | -    | -     | -      | -    | -     | -    | -    | -     | -          | -    | -     |
| Jain       | -             | -    | -     | -      | -    | -     | -    | -    | -     | -          | -    | -     |

HOD



**H.O.D.**  
BBA(CA) Department  
A.A.College, Manchar 410 503

Principal ~~Principal~~  
A.A. College, Manchar  
Annasaheb Awale Art's, Commerce &  
Hutatama Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune

रयत शिक्षण संस्थेचे  
अण्णासाहेब आवटे कॉलेज मंचर

विभाग : पश्चिम विभाग

सन 2022-2023

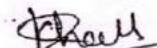
प्राध्यापकाचे नाव % khatal. S. D.

नेमणूक दिनांक % 25/6/2023

शैक्षणिक अर्हता % MCA(SCI)

झालेली एकूण सेवा 6 वर्ष 8 महीने

| Class     | Subject                               | Total Students | Appear for Exam | Total Studets as per Percentage/grades |             |             |             |             |             |             | College Result | University Result | Rema |
|-----------|---------------------------------------|----------------|-----------------|--|-------------|-------------|-------------|-------------|-------------|-------------|----------------|-------------------|------|
|           |                                       |                |                 | O<br>90--100                           | A<br>80--89 | B<br>70--79 | C<br>60--69 | D<br>50--59 | E<br>40--49 | F<br>00--39 |                |                   |      |
| FYBBA(CM) | Relational database management system | 83             | 82              | -                                      | 03          | 10          | 17          | 24          | 18          | 10          | 87.80%         | -                 |      |
| SYBBA     | computer networking                   | 52             | 52              | -                                      | 01          | 15          | 09          | 10          | 07          | 10          | 80.76%         | -                 |      |
| TYBBA     | Software Testing                      | 39             | 37              | -                                      | 01          | 09          | 11          | 11          | 04          | 01          | 97.29%         | 62.55%            |      |
|           |                                       |                |                 |  |             |             |             |             |             |             |                |                   |      |
|           |                                       |                |                 |  |             |             |             |             |             |             |                |                   |      |
|           |                                       |                |                 |  |             |             |             |             |             |             |                |                   |      |
|           |                                       |                |                 |  |             |             |             |             |             |             |                |                   |      |
|           |                                       |                |                 |  |             |             |             |             |             |             |                |                   |      |

  
Subject Teacher Sign

khatal. S. D.

  
HOD Sign · H.O.D.  
BBA(CA) Department  
A.A.College, Manchar 410 503

To Principal  
A.A. College, Manchar, Tal. Ambegaon, Dist. Pune  
Principal  
Anandabai Awale Art's, Commerce  
Hotel and Bhu. Genu Science Coll  
Manchar, Tal. Ambegaon, Dist. Pune


रयत शिक्षण संस्थेचे  
अण्णासाहेब आवटे कॉलेज मंचर


विभाग : पश्चिम विभाग

सन 2022-2023

प्राध्यापकाचे नाव % चासकर भाट झार नेमणूक दिनांक % 11/14/2018  
शैक्षणिक अर्हता % MSc(CS) झालेली एकूण सेवा 4 वर्ष 9 महीने

| Class    | Subject           | Total Students | Appear for Exam | Total Studets as per Percentage/grades |       |       |       |       |       |       | College Result | University Result | Remark |
|----------|-------------------|----------------|-----------------|--|-------|-------|-------|-------|-------|-------|----------------|-------------------|--------|
|          |                   |                |                 | O                                      | A     | B     | C     | D     | E     | F     |                |                   |        |
|          |                   |                |                 | 90-100                                 | 80-89 | 70-79 | 60-69 | 50-59 | 40-49 | 00-39 |                |                   |        |
| SYBBA    | Data Structure    | 52             | 52              | 0                                      | 0     | 1     | 5     | 8     | 33    | 5     | 90-38%         | -                 |        |
| SYBBA-CA | oop's using C++   | 52             | 52              | 0                                      | 4     | 9     | 9     | 17    | 9     | 4     | 92-30%         | -                 |        |
| TYBBA-CA | Python            | 39             | 37              | 0                                      | 0     | 3     | 4     | 13    | 11    | 6     | 83-78%         | 62-55%            |        |
| TYBBA-CA | Dot Net Framework | 39             | 37              | 0                                      | 0     | 1     | 9     | 14    | 7     | 6     | 83-78%         | 62-55%            |        |

  
Subject Teacher Sign  
Chasakar R.R

  
HOD Sign  
H.O.D.  
BBA(CA) Department  
A.A.College, Manchar 410 503

Principal  
A.A.College Manchar  
Annasaheb Awate Art's, Commerce &  
Hutatama Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune

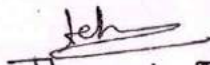
रयत शिक्षण संस्थेचे  
अण्णासाहेब आवटे कॉलेज मंचर

विभाग : पश्चिम विभाग


सन 2022-2023

प्राध्यापकाचे नाव % Prof. Thorat. T.M नेमणूक दिनांक % 6/12/2021  
शैक्षणिक अर्हता % MBA, BCA झालेली एकूण सेवा 1 वर्ष 8 महीने

| Class       | Subject                     | Total Students | Appear for Exam | Total Studets as per Percentage/grades |       |       |       |       |       |       | College Result | University Result | Remark |
|-------------|-----------------------------|----------------|-----------------|--|-------|-------|-------|-------|-------|-------|----------------|-------------------|--------|
|             |                             |                |                 | O                                      | A     | B     | C     | D     | E     | F     |                |                   |        |
|             |                             |                |                 | 90-100                                 | 80-89 | 70-79 | 60-69 | 50-59 | 40-49 | 00-39 |                |                   |        |
| FY BBA(CA)  | Principle of Management     | 83             | 82              | -                                      | 03    | 08    | 12    | 37    | 18    | 04    | 95.12%         | -                 |        |
| FY BBA(CA)  | Organization Behavior & HRM | 83             | 82              | -                                      | 01    | 12    | 19    | 28    | 18    | 04    | 95.12%         | -                 |        |
| SY BBA (CA) | Digital Marketing           | 52             | 52              | -                                      | 01    | 13    | 11    | 19    | 07    | 01    | 98.07%         | -                 |        |
| SY BBA (CA) | AngularJS                   | 52             | 52              | -                                      | -     | 04    | 10    | 23    | 13    | 02    | 96.15%         | -                 |        |
| SY BBA (CA) | Operating System            | 52             | 52              | -                                      | 02    | 05    | 15    | 12    | 11    | 07    | 86.53%         | -                 |        |
| SY BBA (CA) | Node.JS                     | 52             | 52              | -                                      | 06    | 03    | 12    | 18    | 10    | 03    | 94.23%         | -                 |        |
| TY BBA (CA) | Cyber Security              | 39             | 37              | -                                      | -     | -     | 07    | 18    | 10    | 02    | 94.59%         | 62.55%            |        |
| TY BBA (CA) | Recent trends in IT         | 39             | 37              | -                                      | -     | 07    | 10    | 12    | 08    | -     | 100%           | 62.55%            |        |

  
Thorat. T.M  
Subject Teacher Sign

  
HOD Sign  
H.O.D.  
BBA(CA) Department  
A.C. College, Manchar 410 503

  
Principal  
Annasaheb Arale Apte, Commerce &  
Hutatama Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune

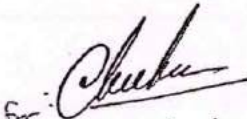
रयत शिक्षण संस्थेचे  
अण्णासाहेब आवटे कॉलेज मंचर


विभाग : पश्चिम विभाग

सन 2022-2023

प्राध्यापकाचे नाव % ~~Chavhan~~ M. Theke m.R. नेमणूक दिनांक % - / - / -  
शैक्षणिक अर्हता % B.E. Computer झालेली एकूण सेवा ० वर्ष ६ महीने

| Class | Subject       | Total Students | Appear for Exam | Total Studets as per Percentage/grades |       |       |       |       |       |       | College Result | University Result | Remarks |
|-------|---------------|----------------|-----------------|--|-------|-------|-------|-------|-------|-------|----------------|-------------------|---------|
|       |               |                |                 | O                                      | A     | B     | C     | D     | E     | F     |                |                   |         |
|       |               |                |                 | 90-100                                 | 80-89 | 70-79 | 60-69 | 50-59 | 40-49 | 00-39 |                |                   |         |
| FTBLA | DBMS.         | 83             | 82              | 00                                     | 01    | 03    | 14    | 25    | 25    | 14    | 82.92%         |                   |         |
| SYBLA | Software Eng. | 52             | 52              | 00                                     | 01    | 03    | 04    | 13    | 31    | 04    | 92.30%         |                   |         |
| TYBLA | OOSE          | 39             | 37              | 00                                     | 00    | 00    | 07    | 18    | 10    | 02    | 94.59%         | 62.55             |         |
|       |               |                |                 |  |       |       |       |       |       |       |                |                   |         |
|       |               |                |                 |  |       |       |       |       |       |       |                |                   |         |
|       |               |                |                 |  |       |       |       |       |       |       |                |                   |         |
|       |               |                |                 |  |       |       |       |       |       |       |                |                   |         |
|       |               |                |                 |  |       |       |       |       |       |       |                |                   |         |

Subject Teacher Sign   
(Chavhan R.R.)

HOD Sign   
H.O.D.  
BBA(CA) Department  
A.A.College, Manchar 410 503

Principal  
A.A.College Manchar  
Annasahab Awate Arts, Commerce &  
Hutatama Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune



रयत शिक्षण संस्थेचे  
अण्णासाहेब आवटे कॉलेज मंचर

विभाग : पश्चिम विभाग

सन 2022-2023

प्राध्यापकाचे नाव : **Prof. Suse S. N.**

नेमणूक दिनांक : 26 / 08 / 2019

शैक्षणिक अर्हता : M.Tech.(Food Tech.) SET (Home Science) झालेली एकूण सेवा: 4वर्ष 1 महीने

| Class | Subject                             | Total Students | Appear for Exam | Total Studets as per Percentage/grades |        |        |        |        |        | College Result | University Result | Remark |        |
|-------|-------------------------------------|----------------|-----------------|--|--------|--------|--------|--------|--------|----------------|-------------------|--------|--------|
|       |                                     |                |                 | O                                      | A      | B      | C      | D      | E      |                |                   |        | F      |
|       |                                     |                |                 | 90--100                                | 80--89 | 70--79 | 60--69 | 50--59 | 40--49 |                |                   |        | 00--39 |
| F.Y.  | Human Nutrition                     | 2              | 2               |  |        |        |        | 2      |        |                | 100%              |        |        |
| F.Y.  | Fruits & Veg, Processing            | 2              | 2               |  | 1      | 1      |        |        |        |                | 100%              |        |        |
| S.Y.  | Spices & Plantation Crops           | 5              | 5               |  |        |        | 3      | 2      |        |                | 100%              |        |        |
| S.Y.  | Food Laws & Regulations             | 5              | 5               |  | 1      | 1      | 2      | 1      |        |                | 100%              |        |        |
| S.Y.  | Meat, Fish & Poultry Processing     | 5              | 5               |  |        |        | 1      | 2      | 2      |                | 100%              |        |        |
| T.Y.  | Food Plant Design & Layout          | 10             | 10              |  | 1      | 2      | 7      |        |        |                | 100%              |        |        |
| T.Y.  | Design & Development of New Product | 10             | 10              |  |        | 2      | 2      | 3      | 2      |                | 90%               |        |        |
|       |                                     |                |                 |  |        |        |        |        |        |                |                   |        |        |

Subject Teacher Sign



HOD Sign

Principal  
A.A. College Manchar  
Annasaheb Awate Art's, Commerce &  
Hutatama Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune

रयत शिक्षण संस्थेचे  
अण्णासाहेब आवटे कॉलेज मंचर

विभाग : पश्चिम विभाग

सन 2022-2023

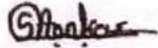
प्राध्यापकाचे नाव %\_Prof. Wayal S.V.

नेमणूक दिनांक : 21 / 11 / 2022

शैक्षणिक अर्हता %\_Btech.Food Technology

झालेली एकूण सेवा : 1 वर्ष 0 महीने

| Class      | Subject                                  | Total Students | Appear for Exam | Total Studets as per Percentage/grades |        |        |        |        |        | College Result | University Result | Remark |        |
|------------|--|----------------|-----------------|--|--------|--------|--------|--------|--------|----------------|-------------------|--------|--------|
|            |  |                |                 | O                                      | A      | B      | C      | D      | E      |                |                   |        | F      |
|            |  |                |                 | 90--100                                | 80--89 | 70--79 | 60--69 | 50--59 | 40--49 |                |                   |        | 00--39 |
| F.Y. Bvoc. | Food Chemistry                           | 2              | 2               |  |        | 1      |        | 1      |        |                | 100%              |        |        |
| F.Y. Bvoc. | Cereals, Legumes and Oilseed Processing  | 2              | 2               |  |        |        | 2      |        |        |                | 100%              |        |        |
| S.Y. Bvoc. | Snack Food Technology                    | 5              | 5               |  | 2      | 1      | 2      |        |        |                | 100%              |        |        |
| T.Y. Bvoc. | Snack Food Technology                    | 10             | 10              | 1                                      | 3      | 4      | 2      |        |        |                | 100%              |        |        |
| F.Y. Bvoc. | Food Packaging                           | 2              | 2               |  |        |        | 1      | 1      |        |                | 100%              |        |        |
| F.Y. Bvoc. | Fundamentals of Food Process Engineering | 2              | 2               |  |        |        |        | 2      |        |                | 100%              |        |        |
| S.Y. Bvoc. | Plant Hygiene and Snitation              | 5              | 5               |  | 1      | 3      | 1      |        |        |                | 100%              |        |        |
| T.Y. Bvoc. | Food Quality Control and Assurance       | 10             | 10              |  | 1      | 3      |        | 4      |        | 2              | 80%               |        |        |

  
Subject Teacher Sign



  
HOD Sign

  
Principal  
Anusahab Awate College, Manchar  
Hutatama Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune

रयत शिक्षण संस्थेचे  
अण्णासाहेब आवटे कॉलेज मंचर

विभाग : पश्चिम विभाग

सन 2022-2023

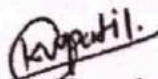
प्राध्यापकाचे नाव: Patil K.W

नेमणूक दिनांक: 15/07/2021


शैक्षणिक अर्हता: M.Tech(Food Tech.)

झालेली एकूण सेवा: 1 वर्ष 8 महीने

| Class     | Subject                     | Total Students | Appear for Exam | Total Studets as per Percentage/grades |        |        |        |        |        |        | College Result | University Result | Remark |
|-----------|-----------------------------|----------------|-----------------|--|--------|--------|--------|--------|--------|--------|----------------|-------------------|--------|
|           |                             |                |                 | O                                      | A      | B      | C      | D      | E      | F      |                |                   |        |
|           |                             |                |                 | 90--100                                | 80--89 | 70--79 | 60--69 | 50--59 | 40--49 | 00--39 |                |                   |        |
| FY B.Voc  | Fundamental of Food Science | 2              | 2               |  |        |        |        | 1      | 1      |        | 100%           |                   |        |
| SY B.Voc  | Bakery and Confectionary    | 5              | 5               |  |        |        | 2      | 3      |        |        | 100%           |                   |        |
| TY. B.Voc | Beverage Technology         | 10             | 10              |  |        |        | 6      | 4      |        |        | 100%           |                   |        |
|           |                             |                |                 |  |        |        |        |        |        |        |                |                   |        |
|           |                             |                |                 |  |        |        |        |        |        |        |                |                   |        |
|           |                             |                |                 |  |        |        |        |        |        |        |                |                   |        |
|           |                             |                |                 |  |        |        |        |        |        |        |                |                   |        |
|           |                             |                |                 |  |        |        |        |        |        |        |                |                   |        |
|           |                             |                |                 |  |        |        |        |        |        |        |                |                   |        |
|           |                             |                |                 |  |        |        |        |        |        |        |                |                   |        |
|           |                             |                |                 |  |        |        |        |        |        |        |                |                   |        |

  
Subject Teacher Sign



  
HOD Sign

  
Principal  
A.A. College Manchar  
Anantasaheb Avate Public College  
Hutatama Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune

**रयत शिक्षण संस्थेचे**  
**अण्णासाहेब आवटे कॉलेज मंचर**

विभागाचे नाव: B. Voc. FPQM

A Y 2022-2023

| Sr No | Class          | Subject Name                              | Total Student |
|-------|----------------|---|---------------|
| 1     | FY (SemII)     | Business Communication Skill              |               |
| 2     |                | Fundamental of Food Process.<br>Engg.     |               |
| 3     |                | Food Additives and<br>Preservatives       |               |
| 4     |                | Fruit ang Veg. Processing                 |               |
| 5     |                | Food Packaging                            |               |
| 6     |                | Industrial Training                       |               |
| 7     | SY<br>(Sem IV) | Fundamental Of Financial<br>Accounting II |               |
| 8     |                | Plant Hygiene and Sanitation              |               |
| 9     |                | Food Laws and Regulation                  |               |
| 10    |                | Meat, Fish, Poultry<br>Processing         |               |
| 11    |                | Dairy Technology                          |               |
| 12    |                | Industrial Training                       |               |
| 13    |                |   |               |

| Sr No | Class          | Subject Name                             | Total Student |
|-------|----------------|--|---------------|
| 14    | TY<br>(Sem VI) | Bussiness Management                     |               |
| 15    |                | Waste Management and<br>Utilization      |               |
| 16    |                | Design and Development<br>of New Product |               |
| 17    |                | Food Quality Control<br>and Assuarance   |               |
| 18    |                | Mini Project and<br>Marketing            |               |
| 19    |                |  |               |
| 20    |                |  |               |
| 21    |                |  |               |
| 22    |                |  |               |
| 23    |                |  |               |
| 24    |                |  |               |
| 25    |                |  |               |
| 26    |                |  |               |

**Deparment Result**

| Class | Total Students | Appears | Pass | Fail | Percentage | University Result |
|-------|----------------|---------|------|------|------------|-------------------|
| FY    | 2              | 2       | 2    | 0    | 100%       |                   |
| SY    | 5              | 5       | 5    | 0    | 100%       |                   |
| TY    | 10             | 10      | 8    | 2    | 80%        |                   |
| PG I  |                |         |      |      |            |                   |
| PG II |                |         |      |      |            |                   |

  
HOD Sign

Dept. of B. Voc  
(Food Processing & Quality Management)  
Annasaheb Awate College, Manchar



  
Principal

A. A. College Manchar  
Annasaheb Awate Arts, Commerce &  
Matalama Babu Genu Science College  
Manchar, Tal. Ambegaon, Dist. Pune

रयत शिक्षण संस्थेचे  
अण्णासाहेब आवटे कॉलेज मंचर

विभागाचे नाव: B. Voc. FPQM


A Y 2022-2023

| Sr No | Class        | Subject Name                          | Total Student |
|-------|--------------|---------------------------------------|---------------|
| 1     | FY (Sem I)   | Basic Communication Skills            |               |
| 2     |              | Fundamental of Food Science           |               |
| 3     |              | Human Nutrition                       |               |
| 4     |              | Food Chemistry                        |               |
| 5     |              | Food Microbiology                     |               |
| 6     |              | Cereal, Legume and Oilseed Processing |               |
| 7     | SY (Sem III) | Fundamental Of Financial Accounting I |               |
| 8     |              | Food Biochemistry                     |               |
| 9     |              | Snack Food Technology                 |               |
| 10    |              | Environmental Science                 |               |
| 11    |              | Spices and Plantation Crops           |               |
| 12    |              | Bakery and Confectionary              |               |
| 13    |              | Industrial Training                   |               |

| Sr No | Class      | Subject Name                 | Total Student |
|-------|------------|------------------------------|---------------|
| 14    | TY (Sem V) | Entrepreneurship Development |               |
| 15    |            | Food Plant Design and Layout |               |
| 16    |            | Snack Food Technology        |               |
| 17    |            | Industrial Microbiology      |               |
| 18    |            | Beverage Technology          |               |
| 19    |            | Industrial Training          |               |
| 20    |            |                              |               |
| 21    |            |                              |               |
| 22    |            |                              |               |
| 23    |            |                              |               |
| 24    |            |                              |               |
| 25    |            |                              |               |
| 26    |            |                              |               |

Department Result

| Class | Total Students | Appears | Pass | Fail | Percentage | University Result |
|-------|----------------|---------|------|------|------------|-------------------|
| FY    | 2              | 2       | 2    | 0    | 100%       |                   |
| SY    | 5              | 5       | 5    | 0    | 100%       |                   |
| TY    | 10             | 10      | 10   | 0    | 100%       |                   |
| PG I  |                |         |      |      |            |                   |
| PG II |                |         |      |      |            |                   |

  
HOD Sign  
Head  
Dept. of B. Voc  
(Food Processing & Quality Management)  
Annasaheb Awate College, Manchar



  
Principal  
A. A. College Manchar  
Annasaheb Awate Arts, Commerce &  
Tatama Babu Genu Science College  
Manchar, Tal. Ambenani, Dist. Pune