

Late Chindhuji Laxmanrao Purke Shikshan Prasarak Mandal's



INDIRA GANDHI KALA MAHAVIDYALAYA

Ralegaon, Dist- Yavatmal, Maharashtra

Affiliated to

Sant Gadge Baba Amravati University, Amravati



2nd Cycle

Assessment & Accreditation by NAAC

Criterion-II
Teaching- Learning and Evaluation

Q_nM 2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences using ICT tools



Late Chindhuji Laxmanrao Purke Shikshan Prasarak Mandal's Yavatmal

INDIRA GANDHI KALA MAHAVIDYALAYA, RALEGAON
DIST. -YAVATMAL (445402)

(Affiliated to Sant Gadge Baba Amravati University College Code-490)
(DDO Code - 06610100121)

President

Hon' Prof. Shri Vasantao C. Purke
Mob No. – 9920997275

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Principal

Dr. Santosh V. Agarkar
Mob. No-9373778210

Dis. No. :-

Date :-15/07/2024

Declaration

The information, reports, true copies of the supporting documents, numerical data, etc. related to the NAAC process furnished in this file is verified by IQAC and found correct. Hence this certificate.


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Ralegaon




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Ralegaon Dist. Yavatmal

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Late Chindhuji Laxmanrao Purke Shikshan Prasarak Mandal's

**Indira Gandhi Kala Mahavidyalaya,
Ralegaon-445402, Dist. Yavatmal (M.S.)**

Affiliated to Sant Gadge Baba Amravati University

Website –www.igkmralegaon.org

E-mail- igkm490@gmail.com

**Department of Mathematics
Percentage of Syllabus Taught Using ICT**

This is to certify that the Department of Mathematics used the listed ICT tools to improve the teaching and learning process during the academic year 2023-24. The following syllabus topics were covered using the ICT tools such as zoom meet, google meet, projector, google classroom, etc. Faculty members of Department of Mathematics have completed 17% syllabus of B.Sc. I, B.Sc. II and B.Sc. III year using these ICT tools.

Name of the Teacher: **Dr. Alfred Yusuf Shaikh**

S.No.	Topic through Power point presentation	Semester	ICT tools used PPT/ Video	Link
01	Limit of a function	Sem I	PPT/Video	https://drive.google.com/drive/folders/1hvW5NGuoPIRk4WPCZGqvyFiuRqhU3dI?usp=drive_link
02	Continuity of a function	Sem I	PPT/Video	
03	Homogenous function and Euler's Theorem	Sem III	PPT/Video	
04	Charpit's Method	Sem III	PPT/Video	
05	Laplace Transform and it's properties	Sem V	PPT/Video	
06	Convolution Theorem	Sem V	PPT/Video	
07	Ordinary Differential Equations and its solution	Sem II	PPT/Video	
08	Applications of O.D.E	Sem II	PPT/Video	
09	Central force	Sem IV	PPT/Video	
10	Lagrange's equations of motion	Sem IV	PPT/Video	
11	Graphs and Types of Graphs	Sem VI	PPT/Video	
12	Tree and its properties	Sem VI	PPT/Video	

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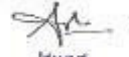
E-mail- igkm490@gmail.com

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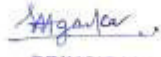
Name of the Teacher: **Mr. Swapnil V. Gore**

S.No.	Topic through Power point presentation	Semester	ICT tools used PPT/ Video	Link
01	Cubic equations (Cardon method)	Sem I	PPT/Video	https://drive.google.com/drive/folders/1hvW5NGuoPIRk4WPCZGqv-yFiuRqhU3dI?usp=drive_link
02	Various types of matrices	Sem I	PPT/Video	
03	Limit and continuity of functions of two variables	Sem III	PPT/Video	
04	Definition of sequence, uniqueness of limit of sequence	Sem III	PPT/Video	
05	Improper integrals and their convergence	Sem V	PPT/Video	
06	Continuity and differentiability of complex function	Sem V	PPT/Video	
07	Vector differentiation	Sem II	PPT/Video	
08	Frenet-Serret formulae	Sem II	PPT/Video	
09	Cyclic groups	Sem IV	PPT/Video	
10	Ring and Fields Theory	Sem IV	PPT/Video	
11	Linear dependence, independence and their basic properties	Sem VI	PPT/Video	
12	Homomorphism and isomorphism theorems on modules	Sem VI	PPT/Video	


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Indira Gandhi Kala Mahavidyalaya, Ralegaon
Department Of Chemistry
Session 2023-24
Syllabus Thought by ICT

Sr. No.	Name of Teacher	Semester	Unit No.	Name of Topic	ICT tool used PPT/ Video
1.	Mr. S. V. Jadhav	Sem I	Unit I	Periodic properties and ionic bonding	PPT/YouTube Video
			Unit II	s- Block Elements, p- Block Elements	PPT
			Unit III	Electronic Displacement, Reactive Intermediates and Aliphatic Hydrocarbon	PPT/Shodhganga
		Sem II	Unit II	VSEPR Theory and Molecular Orbital Theory	YouTube Video
2.	Mr. Y. I. Biradar	Sem III	Unit I	A. Covalent Bonding B. Metallic Bonding C. VSEPR Theory	You tube Video
			Unit II	Theory of Quantitative Inorganic Analysis	You tube Video
			Unit III	Aldehyde and Ketones Carboxylic acid	Shodhganga
			Unit IV	Optical Isomerism and Classification	Shodhganga
			Unit V	Thermodynamics and equilibrium	Shodhganga
			Unit VI	Liquid state Electrochemistry	Shodhganga
		Sem IV	Unit VI	Crystalline state	PPT
			Unit III	Polynuclear Hydrocarbon Reactive methylene compound Carbohydrates	PPT
3.	Mr. P. R. Jagnit	Sem V	Unit I	Coordination Compound	You tube Video
			Unit II	Crystal field theory Electronic spectra of Transitions Metal Complexes	You tube Video
			Unit III	Heterocyclic compound	You tube Video
			Unit VI	Molecular Spectroscopy	You Tube Video
		Sem VI	Unit III and IV	Demonstration of NMR, IR, UV Spectroscopy and Mass Spectrophotometry	You tube Video/Shodhganga


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Department of Physics

Session: 2023-24

Percentage of Syllabus Taught Using ICT

This is to certify that the department of Physics used the listed ICT tools to improve the teaching and learning process during the academic year 2023-24. The following syllabus topics were covered using the ICT tools such as zoom meet, google meet, projector, teach mint, google classroom, etc. Faculty members of Department of physics have completed approximately 20% syllabus of B.Sc. Ist, B.Sc. IInd and B.Sc. IIIrd year using these ICT tools.

Sr. No.	Name of the teacher	Semester	Unit Number	Name of the topic	ICT tools used PPT/ Video	Link
1.	Mr. K. D. Jagtap	Sem V	Unit 4	Nuclear Fission and Fusion	PPT	https://drive.google.com/drive/folders/15WDdEkZrk2XnyVT5rcDLz3tJ6Mh9gfp?usp=share_link
		Sem V	Unit 4	Radioactive Decay	PPT	
		Sem V	Unit 4	Nuclear Physics	PPT	
		Sem V	Unit 3	Rutherford Scattering Experiment	PPT	
		Sem V	Unit 1	Photoelectric Effect	PPT	
		Sem IV	Unit 6	Renewable Energy Sources	PPT	
2.	Mr. B. H. Bhatti	Sem III	Unit 3	Light Emitting Diode	PPT	
		Sem IV	Unit 4	Laser	PPT	
		Sem IV	Unit 5	Fibre Optics	PPT	
		Sem V	Unit 1	Introduction to Quantum Mechanics	PPT	
		Sem IV	Unit 1	Light Refraction and lenses	PPT	
		Sem VI	Unit 3	Crystallography	PPT	
3.	Mr. A. S. Lihitkar	Sem II	Unit 1	Kinetic theory of gases	PPT	
		Sem I	Unit 2	Rotational Dynamics	PPT	
		Sem I	Unit 5	Elasticity	PPT	
		Sem II	Unit 5	Network theorem	PPT	
		Sem I	Unit 3	Introduction to Oscillation and S.H.M.	PPT	


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Experiential Learning, Participative Learning and Problem-Solving Activities

A.Y. 2023-24

Name of the Department: Department of Botany

Class: B.Sc. I, II, III

Name of Teacher:

1. Mr. V.D. Samarth
- 2 Mr. N. M. Deshmukh
- 3 Mr. M. V. Wankhade

Sr. No.	Methodology	Activity Taken	Relevant document /link /reference
1.	Experiential Learning	Project work	Project Submission data
2.		Practical's taken related to syllabus	List of practical and syllabus
3.		Eco Friendly Rakhi Competition	Activity completion Report
4.		World Ozone day:- Poster competition	Activity completion Report
5.		National Science Day (Slogan competition)	Activity completion Report
6.		Essay Competition on Contribution of Dr. Babasaheb Ambedkar to Women Empowerment	Activity completion Report
7.		Guest Lecture on "Ecological Succession"	Activity completion Report
8.		Wild Vegetable & Medicinal plant Mohatsav (Exhibition)	Activity completion Report
9.		Flower Exhibition	Activity completion Report
10.		Study Tour / Field Visit	Activity completion Report
11.	Participative Learning	Tree Plantation & Preservation Programme	Activity completion Report
12.		Seminar (B.Sc. III) Topics from syllabus	Seminar Submission data
13.		NSS Camp	NSS Volunteers List
14.	Problem-Solving Methodology	Problems on Genetics for B.Sc. II Sem. IV,	B.Sc. II Sem. IV University Syllabus
15.		Assignment for students of B.Sc. I,	Submission data of students
16.		Diagnostic test for students of B.Sc. I, II, III	Test data of students


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List of practicals that are performed in laboratory and also covered in syllabus

Sem. I- Diversity of Microbes, Phycology, Mycology and Phytopathology

Unit I

- Study of types of bacteria from temporary / permanent slides / photographs.
- Study of TMV from Models/ Photographs.

Unit III

- Algae - Preparation of temporary mount, identification with reasons of following algal materials :Nostoc, Oedogonium, Chara, Vaucheria, Ectocarpus, Batrachospermum.

Unit IV

Fungi and Plant Pathology :

- Study of following Genera - Albugo, Rhizopus, Aspergillus. Puccinia,
- Study of Crustose, Fruticose and Foliose lichen.

Unit VI

- Study of symptoms of fungal, viral, bacterial diseases.

Sem. II- Bryophytes, Pteridophytes, Gymnosperms and Morphology of Angiosperms

Unit I

- Bryophyta: Study of morphology and anatomy of vegetative and reproductive parts of following genera – Marchantia and Funaria

Unit II

- Pteridophyta: Study of morphology and anatomy of vegetative and reproductive parts of following genera – Equisetum and Marsilea.

Unit III

- Gymnosperms: Study of morphology and anatomy of vegetative and reproductive parts of following genera – Pinus and Gnetum

Unit IV

- Morphology: Detail morphological study of following types of plant parts - Root, Stem, Leaves, Inflorescence, Flower, Placentation and Fruits.

Unit VI

- Utilization of plants: Morphology varieties and economic importance of following plants
 - i) Food plant: Wheat
 - ii) Oil yielding plant: Groundnut
 - iii) Fiber yielding: Cotton
- Medicinal plants-Adhatoda vasica, Asparagus racemosus, Catharanthus roseus, Ocimum sanctum, Rauwolfia serpentina, Withania somnifera, Tinospora cordifolia

Sem. III- Angiosperm Systematics, Anatomy, Embryology

Unit II & III

- Taxonomy: Description of ten plants belonging to different families in technical language and identification up to family level.
Brassicaceae- *Brassica*, Malvaceae- *Hibiscus*, *Sida*, *Malvastrum*, Fabaceae *Crotalaria*,
Indigofera, *Tephrosia*, Caesalpinioideae - *Caesalpineae*, *Cassia*, Mimosoideae *Prosopis*, *Acacia*,
Apiaceae- *Corindrum*, Apocynaceae- *Vinca*, *Thevetia*, Asclepiadaceae-*Cryptostegia*, *Calatropis*,
Solanaceae- *Datura*, *Solanum*, *Withania*, Euphorbiaceae-*Jatropha*, *Euphorbia*, *Croton* Lamiaceae-
Oscimum, *Hyptis*, Asteraceae *Tridax*, *Lagasca*, Verbenaceae-*Lantana*, *Clerodendron*

Unit V

- Anatomy of angiosperms: Preparation of double stained permanent slides of stem (*Boerhavia*, *Bignonia* and *Dracaena*) and leaves (*Nerium*, Maize) of angiospermic plants.

Unit VI-

- Embryology of Angiosperms:
 - i) Observation of wide range of flowers available in the locality and methods of their pollination.
 - ii) Study through permanent slides of T.S. of anther, microsporogenesis, L.S. of ovule, types of endosperms and embryo of *Capsella*.
 - iii) Mounting of T.S. of anther, Pollen grains and pollinia

Sem. IV- Cell Biology, Genetics and Plant Breeding

Unit II

- Cell Biology
 1. Study of plant cell structure with the help of epidermal peel mount of Onion/Rhoeo.

Unit II

- Study of various stages of mitosis (Squash preparation)
- Study of various stages of meiosis (Smear preparation)

Unit III

- Study of polytene chromosome either by slide preparation or photographs.
- Study of chromosomal aberrations by using Photographs/Permanent Slides
- Study of Chromosome Morphology using Permanent Slide/ Photograph

Unit IV

- Genetics
 1. To prove Mendel's Monohybrid ratio.
 2. To prove Mendel's Dihybrid ratio.
 3. Problems based on Interaction of genes (Complementary/ Supplementary/Epistasis)
 4. Study of polyploides using photographs.

Unit V-

- **Plant Breeding**
 1. Study of vital floral structures for plant breeding.
 2. To perform Emasculation in various plants.
 3. To demonstrate hybridization techniques in plants.

Sem.V- Plant Physiology and Ecology

Unit I

- To study Endo and Exo-osmosis by using photo osmometer
- To study phenomenon of adsorption
- To determine the path of water (ascent of sap)

Unit II

- To determine rate of photosynthesis under varying quality of light and CO₂ concentration.
- To demonstrate the evolution of CO₂ in respiration.

Unit V

- Study of morphological and anatomical adaptations in hydrophytes – Hydrilla, Nymphaea
- Study of morphological and anatomical adaptations in xerophytes -Nerium, Casuarina,

Unit VI

- Study of community characteristics by quadrat method.

Sem.VI- Molecular Biology and Biotechnology

Unit I

- Isolation of DNA by crude method.

Unit V

- Working Principle and application of Autoclave
- Working Principle and application of Laminar Air Flow
- Cleaning and Sterilization of Glassware
- Preparation of Tissue culture media

Unit VI

- Pollen viability test.

Note: Following activities can be added in the above list

Experiential Learning Activities

1. Project Work
2. Practical's taken related to syllabus
3. Research activities
4. Exhibition
5. Mini projects
6. Skill Enhancement course
7. Value added courses
8. Field Visit/ Industrial Visit
9. Model making
10. Internship

Participative Learning

1. Team works related activities like
 - a. Camp of NSS
 - b. Tree plantation,
 - c. Health awareness program,
 - d. Yoga camp organization, etc.
2. Participation of students at various competition
3. Debate competition
4. Seminar
5. Documentaries, Short film making
6. Article review writing
7. Participation students in celebrating important days

Problem-Solving Methodology

1. Case study
2. Analysis and reasoning of questions
3. Quizzes
4. Diagnostic test

Indira Gandhi Kala Mahavidyalaya, Ralegaon

Experiential Learning, Participative Learning and Problem-Solving Activities

A.Y. 2023-24

Name of the Department: Physics

Class: B.Sc. I, B.Sc. II and B.Sc. III

Name of Teacher:

1. Mr. K. D. Jagtap
2. Mr. B. H. Bhatti
3. Mr. A. S. Lihitkar

Sr. No.	Methodology	Activity Taken	Relevant document/link/reference
1.	Experiential Learning	Practical taken related to syllabus	List of practical and syllabus
2.		Certificate Course on “Renewable Energy Resources”	ACR
3.		Educational Tour at Raman Science Centre, Nagpur	ACR
4.		Rakhi Making Competition from Electronic Waste	ACR
5.	Participative Learning	Seminar (B.Sc. II and B.Sc. III) Topics from syllabus	Submitted Seminar
6.		Online Guest Lecture on Renewable Sources of Energy	ACR
7.		Lecture on the occasion of National Energy Conservation Day	ACR
8.	Problem-Solving Methodology	Online Multiple-Choice Question Test on Fundamentals of Physics	ACR
9.		Assignment, Tutorial, Diagnostic Test for students of B.Sc. I, B.Sc. II & B.Sc. III	Submission data of students

List of practicals that are performed in laboratory and also covered in syllabus

Sem I

1. To determine acceleration due to gravity by Bar pendulum.

Unit – II

- Simple Harmonic Motion
 - Time period of compound pendulum
 - Bar Pendulum

2. To determine acceleration due to gravity by Kater's reversible pendulum.

Unit – II

- Simple Harmonic Motion
 - Time period of compound pendulum
 - Kater's pendulum

3. To determine moment of inertia of a body using bifilar suspension.

Unit – I

- Motion of Rigid body
 - Moment of inertia and

Unit II

- Simple Harmonic Motion
 - Bifilar oscillations

4. To determine the modulus of rigidity of material of a given wire by using Torsional Pendulum

Unit-II

- Simple Harmonic Motion
 - Torsional Pendulum and

Unit-IV

- Elasticity
 - Modulus of elasticity
 - Twisting couple
 - Modulus of rigidity for torsional Pendulum

5. To study the theorem of parallel axes of Moment of Inertia

Unit I

- Rotational Dynamics
 - Perpendicular and parallel axes theorem

6. To determine Young's modulus of the material of a beam by method of bending.

Unit-IV

- Elasticity
 - Bending of beam and bending moment
 - Modulus of elasticity by cantilever

7. To determine Young's modulus of the material of a beam by method of bending.

Unit-IV

- Elasticity
 - Bending of beam and bending moment
 - Modulus of elasticity by using beam

8. To determine modulus of rigidity of material of a given wire by Maxwell's needle.

Unit-IV

- Elasticity
 - Modulus of elasticity
 - Twisting couple
 - Maxwell's Needle

9. To determine coefficient of restitution for inelastic collision.

Unit-IV

- Elasticity
 - Elasticity and plasticity

Skill Enhancement Module

- Statistical evaluation of measurement data: Arithmetic mean & median, Average deviation: Measurement with
 - Screw Gauge
 - Vernier Caliper
 - Travelling Microscope
 - Spectrometer

Sem II

1. Verification of Kirchhoff's Current Law

Unit – V

- Network Theorem
 - Kirchhoff's Current Law

2. Verification of Kirchhoff's Voltage Law

Unit – V

- Network Theorem
 - Kirchhoff's Voltage Law

3. Verification of Maximum power transfer theorem.

Unit – V

- Network theorem
 - Maximum power transfer theorem

4. Verification of Thevenin's theorem.

Unit – V

- Network theorem
 - Thevenin's theorem

5. Verification of Norton's theorem.

Unit – V

- Network theorem
 - Norton's theorem

6. Verification of Milliman's theorem

Unit – V

- Network theorem
 - Milliman's theorem

Skill Enhancement Module

- Multimeter:
 - Principles of measurement of dc voltage and dc current, ac voltage, ac current and resistance.
- Introduction to electrical components:
 - Resistor-Types of Resistors,
 - Color Coding
- Capacitor:
 - Types of Capacitors
 - Color coding
- Inductor-Types of Inductors

- Energy audit:
 - Unit of electricity
 - Power of domestic appliances.

Sem III

1. To study characteristics of P-N Junction diode

Unit – IV

- Semiconductor Devices
 - P-N junction diode

2. To study characteristics of Zener diode.

Unit – IV

- Semiconductor Devices
 - Zener diode and
- Power Supply
 - Zener diode

3. To study characteristics of Light emitting diode (LED).

Unit – IV

- Semiconductor Devices
 - LED

4. determine characteristics of CB transistor.

Unit – V

- Transistor
 - CB characteristics

5. To determine characteristics of CE transistor.

Unit – V

- Transistor
 - CE characteristics

6. To study Half Wave Rectifier with filters.

Unit – IV

- Rectifier
 - Half wave rectifier

7. To study Half Wave Rectifier without filters

Unit – IV

- Rectifier
 - Half wave rectifier

8. To study Zener regulated power supply

Unit – IV

- Semiconductor Devices
 - Zener diode and
- Power Supply
 - Zener diode

9. To study FET characteristics

Unit – V

- Junction field effect transistor
 - Types, construction, working and characteristics

Sem IV

1. To determine the wavelength of sodium light by Newton's rings.

Unit – I

- Interference of light

- Newton's rings (formation, theory and applications such as determination of wavelength and refractive index),
- 2. To determine the wavelength of sodium light by plane diffraction grating.**
Unit – II
 - Diffraction of light
 - Theory of plane transmission grating
- 3. To find the number of lines per centimeter of the given grating.**
Unit – II
 - Diffraction of light
 - Diffraction grating
- 4. To determine the resolving power of plane diffraction grating**
Unit – II
 - Diffraction of light
 - Theory of plane transmission grating
- 5. To study phase shift oscillator**
Unit-V
 - Sinusoidal oscillator
 - Phase Shift Oscillator (Construction and working)
- 6. To study Hartley oscillator**
Unit-V
 - Sinusoidal oscillator
 - Hartley Oscillator (Construction and working)
- 7. To study Colpitt's oscillator**
Unit-V
 - Sinusoidal oscillator
 - Colpitt's and Hartley Oscillator (Construction and working)
- 8. To study OP AMP as an Inverting and non-inverting amplifier**
Unit-V
 - Operational amplifier
 - Inverting and non-inverting amplifier

Sem V

- 1. To study RC coupled amplifier- variation of gain with load.**
Unit – V
 - Bias stability and thermal runaway
 - Small signal amplifier
 - RC coupled amplifier
- 2. To study phase shift oscillator.**
Unit – VI
 - Oscillators
 - Phase shift oscillator
- 3. To study Wein bridge oscillator.**
Unit – VI
 - Oscillators
 - Wein bridge oscillator
- 4. To study Hartlay oscillator.**
Unit – VI
 - Oscillators
 - Hartlay oscillator

5. To study Colpits oscillator

Unit – VI

- Oscillators
 - Colpits oscillator

6. Determination of Hybrid parameters.

Unit – VI

- Hybrid Parameters

7. To Study of monostable multivibrator.

Unit – VI

- Multivibrators
 - Monostable multivibrator

8. To Study of astable multivibrator.

Unit – VI

- Multivibrators
 - Astable multivibrator

9. To Study of an amplifier - with & without feedback.

Unit – VI

- Feedback in amplifier

Sem VI

1. To study crystal models and identification of crystal planes.

Unit – III

- Crystallography
 - Types of lattices

2. To study Characteristics of Photocell.

Unit – VI

- Band structure
 - Conductors, insulators and semiconductors

3. To determine Planck's constant using photocell.

Unit – VI

- Band structure
 - Conductors, insulators and semiconductors

4. To determine activation energy of Thermistor.

Unit – VI

- Band structure
 - Energy band gap

5. To study characteristics of Photo diode.

Unit – VI

- Band structure
 - Conductors, insulators and semiconductors


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Experiential Learning, Participative Learning and Problem-Solving Activities

A.Y. 2023-24

Name of the Department: Department of Mathematics

Class: B.Sc. I, II, III

Name of Teacher: 1. Dr. A.Y. Shaikh
2. Mr. S.V.Gore

Sr. No.	Methodology	Activity Taken	Class/Sem.	Relevant document/link/reference
1.	Experiential Learning	Projects	Sem. III, VI, V, VI	Submission sheet
2.		Guest Lecture	B.Sc. I. II.III	Activity completion Report
3.	Participative Learning	Study Tour	B.Sc. I. II.III	Study tour report
4.		National Mathematics Day	B.Sc. I. II.III	Activity completion Report
5.		Seminar	Sem. III, VI, V, VI	Submission sheet
6.		National Science Day	B.Sc. I. II.III	Activity completion Report
7.	Problem-Solving Methodology	Tutorials	B.Sc. I,II,III	Submission sheet
8.		Assignments	B.Sc. I,II,III	Submission sheet
9.		Mathematical Diagnostic test	B.Sc. I,II,III	Documents


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Experiential Learning, Participative Learning and Problem-Solving Activities

A.Y. 2021-22

Name of the Department: Zoology

Class: B.Sc. I, B.Sc. II, B.Sc. III

Name of Teacher: 1 Dr.S.D.Dawda
2 Mr.A.C.Ade

Sr. No.	Methodology	Activity Taken	Relevant document/link/reference
1.	Experiential Learning	Practical taken related to syllabus	List of practical and syllabus
2.		Workshop on “Nest from waste for birds”	ACR
3.	Participative Learning	Wildlife week celebration	ACR
4.		Seminar (B.Sc.II) Topics from syllabus	Submitted Seminar
5.	Problem-Solving Methodology	–	–

List of practicals that are performed in laboratory and also covered in syllabus

Sem I

LIFE AND DIVERSITY OF NON-CHORDATA

• Observation, Classification up to classes and sketching of the following animals, (Specimens or Models):

- Phylum Protozoa: *Plasmodium* trophozoite, *Euglena*, *Entamoeba histolytica*.
- Phylum Porifera: Sycon, Bath sponge, *Euplectella*.
- Phylum Coelenterata: *Obelia*, *Aurelia*, *Tubipora*.
- Phylum Helminthes: *Taenia*, *Ascaris* (male & female).
- Phylum Annelida: Nereis, Earthworm, Leech,
- Phylum Arthropoda: Prawn, *Limulus*, *Aranea*, *Scolopendra*, *Julus*, Moth, Mosquito.
- Phylum Mollusca: Chiton, Pila, Dentalium, Unio, Octopus.
- Phylum Echinodermata: *Antedon*, *Holothuria*, *Echinus*, Sea star, Brittle star
- Phylum Hemichordata: *Balanoglossus*

• Study of Permanent slides:

- L.S.Sycon, nematocyst, *Ascaris* egg, T.S. *Ascaris* through gonads, T.S.Leech through crop, Compound eye of insect, Radula, Gill lamella and Osphradium of *Pila*, Scolex and Gravid Proglottid of *Taenia*.
- Anatomical Study through Computer Aided Techniques, Video Clipping Models, Photographs and other available resources :
- Leech/Earthworm: Alimentary canal, Reproductive system, Nervous system,
- Grasshopper/Cockroach: digestive system, Nervous system, Reproductive system

- Culture of *Paramecium* and *Volvox* (To be given to all students)

- **Mountings :**

- Mosquito (*Aedes*, *Culex* and *Anopheles*) : wings, legs, mouth parts
- Housefly: Mouth parts, legs, wings
- *Paramecium* and *Volvox*

Sem II

Cell Biology:-

- Use, care and maintenance of microscope.
- Bacterial Culture, Gram staining.
- Permeability tests using erythrocytes.
- Preparation of Polytene chromosome in *Chironomus* or *Drosophila* larva.
- Preparation of various stages of mitosis in Onion root tip.
- Preparation of various stages of meiosis in insect's testis.

Developmental Biology.

- Study of stages of Gametogenesis in rat/frog, (Permanent Stained Slides)
- Study of different types animal eggs
- Study of developmental stages (Life Cycle) of Cockroach, Housefly, mosquito, Butterfly, Moth, Frog (Any Four).
- Sperm in physiological saline using phase contrast optics.
- Demonstration of developing chick through available resources.
- Developmental stages of frog: Cleavage, blastula, gastrula, neurula, and tadpoles through available resources.
- Permanent slides of chick embryos at 24, 36, 48, 72 hrs of incubation.
- Study of different types of placenta with suitable histological slides or visual diagrams.

Sem III

Taxonomy of Chordata:

General characters and Classification up to orders of the following chordates or as per the availability in the laboratory from the major orders, (Specimens or Models):

- **Protochordata:** *Herdmania*, *Doliolum*, *Salpa*, *Amphioxus*.
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- **Pisces:** *Scoliodon*, *Torpedo*, *Acipenser*, *Exocoetus*, *Hippocampus*
- **Amphibia:** *Ichthyophis*, *Salamander*, *Bufo*, *Hyla*.
- **Reptilia:** *Varanus*, *Phrynosoma*, *Chameleon*, *Cobra*, *krait*, *Russell's viper*, *Typhlops*, *Hydrophis*
- **Aves:** *Duck*, *Woodpecker*, *Kingfisher*, *Parrot*.
- **Mammalia:** *Mongoose*, *Squirrel*, *Manis*, *Bat*, *monkey*,

Dissections:

- Dissection - afferent and efferent branchial vessels, cranial nerves, internal ear of *scoliodon*.
- Dissection - Digestive system, Arterial system, venous system, reproductive system of rat.
- Permanent micro-preparations .a. Fish scales. b. Ampullae of Lorenzini. c. Eyeball muscles.
- Observations of air bladder in air breathing fishes.

Osteology

- Rabbit, *Varanus* (excluding loose bones of skull).

Evolution:

- Study of fossils, including living fossils.

- Study of Evidences of evolution.
- Analogous and Homologous organs.
- Connecting links (Peripatus, Archaeopteryx, Limulus)
- Embryological evidences
- Application of Hardyweinberg`s law
- Study of Mesozoic Reptiles (By Models/Charts).
- Mimicry, coloration in animals.
- Beak and Leg modifications with reference to: Parrot, Woodpecker, Kingfisher, Heron, Duck, Sparrow/PigeonHawk/Kite, Owl.

Histological Slides :-

- **Amphioxus** : T.S, Oral hood, Pharynx, Tail
- **Frog** :- T.S. lung, Stomach, Kidney, T.S. Intestine,
- **Rat** :- T.S. Liver, Pancreas, Ovary, Testes, Pituitary, Thyroid, Adrenal

Sem IV

Genetic experiments:

- Recording of Mendelian traits in man.
- Detection of monohybrid and dihybrid cross with the help of plastic beads.
- Culturing *Drosophila* using standard methods .*Drosophila* – male and female identification, Mutant forms (from pictures)
- Demonstration of bar bodies.
- Preparation of human Karyotypes from Xerox pictures.
- Photo slides for, Turner's syndrome, Klinefelter's syndrome, Down's syndrome
- Detection of syndrome from chromosome spread picture.
- Study of following human genetic traits and application of Hardy-Weinberg Principle to them – Baldness, length of index and ring Finger, attached and free earlobes, rolling of tongue, PTC taste. Other notable traits.

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- Use of pH meter for estimation of pH in soil samples, b. Use of pH meter for estimation of pH in water samples
- Estimation of Dissolved oxygen, salinity, pH, free CO₂, carbonates and bicarbonates, calcium in water samples.
- Adaptations of aquatic and terrestrial animals based on a study of museum specimens. Such as rocky, sandy, muddy shore animals, flying and burrowing animals.
- Study of natural ecosystem and field report of the visit.
- Field collection methods;
- Identification of common animals - Soil invertebrate diversity, diversity of birds and mammals in parks / botanical gardens, threats to local biodiversity.
- Construction of a food web diagram based on a field visit.
- Mounting of plankton.
- Qualitative analysis of fresh water plankton

Sem V

ANIMAL PHYSIOLOGY AND ECONOMIC ZOOLOGY

- Detection of blood groups in human being.
- Differential counts of blood.
- .Estimation of hemoglobin percentage with the help of haemometer.
- .R.B.C. count.

- W.B.C. count.
- .Preparation of haemin crystals
- Measurement of blood pressure.
- Action of salivary amylase on starch.
- Qualitative detection of nitrogenous waste products (Ammonia, urea, uric acid) in given sample.
- Demonstration of kymograph unit, Respirometer through available resources.
- Observation and identification of Insect Pests of local crops, and predator insects.
- Life Cycles of Honey bee, Lac insect, Silk Moth.
- Histological Slides of major organs of Respiratory systems, circulatory system, Nervous system, Different types of Muscles, Endocrine glands, testis, ovary.
- Study of locally available fishes, Indian major carps, Exotic carps, Common carp

Sem VI

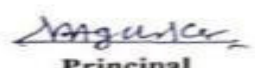
MOLECULAR BIOLOGY AND BIOTECHNOLOGY)

- Microtechnique scope and importance.
- Preparation of fixatives - Alcohol, Acetone, Formalin, Bouin's fluid, Cornoy fluid, Formal sublimate.
- Collection of various tissues/organs from slaughter house for micro-technique
- Preparation of Alcoholic grades, dehydration and clearing of tissues
- Use and care of Oven
- Embedding and block making, trimming of block.
- Use and Care of different types of Microtome.
- Honing and stropping Knives
- Section cutting and spreading,
- Preparation of various stains -Borax carmine Acetocarmin, Aceto-orcein, Haematoxyline, eosin.
- Staining of the sections, (Double Staining), mounting.
- 12.Camera Lucida. Use and Drawings
- Oculomicrometer scale/ similar micro-measurements use
- Introduction to models of PCR, Southern blotting through available resources.
- Vital Staining of mitochondria by using Janus, Green B stain.
- Extraction of DNA by using salt, detergent and enzymes from natural sources from any animal tissue / plant material
- Study of Operon models through available resources.
- Application of DNA finger printing through available resources.


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Experiential Learning, Participative Learning and Problem-Solving Activities

A.Y. 2022-23

Name of the Department: Zoology

Class: B.Sc. I, B.Sc. II, B.Sc. III

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2 Mr.A.C.Ade

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Sem I

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1.Observation, Classification up to classes and sketching of the following animals, (Specimens or Models):

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- Phylum Helminthes: *Taenia*, *Ascaris* (male & female).
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- Culture of *Paramoecium* and *Volvox* (To be given to all students)

Mountings :

- Mosquito (*Aedes*, *Culex* and *Anopheles*) : wings, legs, mouth parts
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- **Aves:** Duck, Woodpecker, Kingfisher, Parrot.
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Dissections:

- Dissection - afferent and efferent branchial vessels, cranial nerves, internal ear of *scoliodon*.
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- Observations of air bladder in air breathing fishes.

Osteology

- Rabbit, *Varanus* (excluding loose bones of skull).

Evolution:

- Study of fossils, including living fossils.
- Study of Evidences of evolution.
 - i) Analogous and Homologous organs.
 - ii) Connecting links (*Peripatus*, *Archaeopteryx*, *Limulus*)
 - iii) Embryological evidences
- Application of Hardyweinberg's law
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- Beak and Leg modifications with reference to: Parrot, Woodpecker, Kingfisher, Heron,
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Slides :

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Sem VI

MOLECULAR BIOLOGY AND BIOTECHNOLOGY)

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A.Y. 2023-24

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- Staining of the sections, (Double Staining), mounting.
- 12.Camera Lucida. Use and Drawings
- Oculomicrometer scale/ similar micro-measurements use
- Introduction to models of PCR, Southern blotting through available resources.
- Vital Staining of mitochondria by using Janus, Green B stain.
- Extraction of DNA by using salt, detergent and enzymes from natural sources from any animal tissue / plant material
- Study of Operon models through available resources.
- Application of DNA finger printing through available resou


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Guest Lecture organized by Department of Chemistry

Sr. No.	Academic Year	Title	Name of the Resource Person	Date of Activity	No. of Participants		
					Male	Female	Total
1.	2019-20	Guest Lecture on P- Block Elements	Dr. D. M. Chavhan, Asst. Professor, Indira Mahavidyalaya, Kalamb Dist. Yavatmal	12/09/2019	21	47	68
2.	2021-22	Guest Lecture on Girls Empowerment	Mr. Ravikant Kothekar, Asst. Professor, Indira Gandhi Kala Mahavidyalaya, Ralegaon	13/12/2021	21	25	46
		Guest Lecture on Aliphatic Hydrocarbon	Dr. Suryakant Borul, Asst. Professor & Head, Late. Ku. Durga K. Banmeru Science College, Lonar, Dist. Buldhana	15/01/2022	12	52	64
		Guest Lecture on Stereochemistry	Dr. D. M. Chavhan, Asst. Professor, Indira Mahavidyalaya, Kalamb Dist. Yavatmal	18/01/2022	29	10	49
3.	2023-24	Guest Lecture on Career guidance programme	Dr. A. B. Naik, Asst. Professor & Head, Dept. of Chemical Technology, S. G. B. A. U. Amravati	18/10/2023	07	37	44


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Guest Lecture organized by Department of Zoology

Sr. No.	Academic Year	Title	Name of the Resource Person	Date of Activity	No. of Participants		
					Male	Female	Total
1	2019-20	Guest Lecture on "Conservation of wild life"	Dr. Chandrshekhar R. Kasar, Assistant Professor, S.P.M. Gillani College Ghatanji	01/10/2019	17	45	62
		Guest Lecture on "Tiger conservation"	Dr. Ramjan. S. Virani Associate Professor, Shivramji Mighe College Kelapur	04/10/2019	12	32	44
		Guest Lecture on "Diversity of Snake of Maharashtra and Physiology Of Heart"	by Dr. Navin Sharma Assistant Professor and Head Arts, Commerce and Science College Maregaon and Dr. Ved Patki Assistant Professor and Head Indira Gandhi Mahavidyalay Kalamb	09/10/2019.	12	29	41
2	2020-21	Nil	Nil	Nil	Nil	Nil	Nil
3	2021-22	Online Guest lecture on 'Basic Zoology'	Dr. Amar Wanjari, Assistant Professor, Shivramji Mighe College Kelapur	10/01/2022	15	45	60
4	2022-23	Guest lecture on "Owls"	Dr. Ved Patki Assistant Professor and Head Indira Gandhi Mahavidyalay Kalamb	04/10/2022	04	30	34
		Guest lecture on "Spiders"	Dr. Pankaj W. Chaudhary Assistant Professor, Vithhal Rukmini Mahavidyalay, Sawna	07/10/2022	12	30	42
5	2023-24	Guest lecture on "Neuro-physiology"	Dr. Ved Patki Assistant Professor and Head Indira Gandhi Mahavidyalay Kalamb.	10/08/2023	04	30	34

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Guest Lecture organized by Department of Physics

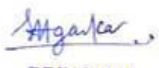
Sr. No.	Academic Year	Title	Name of the Resource Person	Date of Activity	No. of Participants		
					Male	Female	Total
1.	2019-20	Guest Lecture on Laser Applications	Dr. Sanjay Nagdeote, Assistant Professor, Amolakchand Mahavidyalaya, Yavatmal	04/09/2019	17	51	68
		Guest Lecture on "Motivational Aspects of Life"	Mr. Pankaj Bande, Director, Bande Coaching Classes, Washim	07/03/2020	13	35	48
2.	2020-21	Regional Level Online Guest Lecture on Virtual Laboratory	Dr. P. A. Nagpure, Associate Professor, Shri Shivaji Science College, Amravati	01/06/2021	21	48	69
3.	2021-22	Guest Lecture on Career Guidance	Mr. Amol Chepe, Director, Radiant Academy, Yavatmal	20/04/2022	21	48	69
		Guest Lecture on Entrepreneurship	Mr. Sumit Raut, Entrepreneur & Founder, Mahalaxmi Agro, Ralegaon	23/12/2021	12	63	75
4.	2022-23	Seminar on awareness raising to Government Hostel	Mr. Sureshkumar Raut Warden, Govt. Hostel for Backward Class Student, Ralegaon	12/09/2022	12	36	48
		Online Webinar on Competitive Exams	Mr. Sharad Patil Lecturer, The Unique Acaademy, Pune	06/04/2023	10	15	35
5.	2023-24	Online Guest Lecture on Renewable Sources of Energy	Dr. P. M. Wankhade, Head & Assistant Professor, S. M. D. Bharti Arts, Comm. & Sci. College, Arni.	03/11/2023	05	24	29
		Online Guest Lecture on UPSC/ MPSC Exam Preparation	Mr. Ketankumar Patil Administrator, The Unique Acaademy, Pune	11/01/2024	30	66	96

		Lecture on the occasion of National Energy Conservation Day	Mr. B. H. Bhatti Assistant Professor, Indira Gandhi Kala Mahavidyalaya, Ralegaon	14/12/2023	05	28	33
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Guest Lecture organized by Department of Mathematics

Sr. No.	Academic Year	Title	Name of the Resource Person	Date of Activity	Male	Female	Total
01	2019-20	Guest Lecture on Calculus	Dr. Sanjiv R. Bhoyar , Assistant Professor and Head , Department of Mathematics , Phulsing Naik Mahavidyalaya , Pusad	04-09-2019	15	46	61
02		Guest Lecture on Career Guidance	Mr. Amol Anantrao Chepe, Director of Radiant Academy, Ytl	18-09-2019	23	46	69
03		Guest Lecture on Mathematics in day to day life	Mr. Bande , Director , Bande Coaching Classes, Wahim.	09-03-2020	15	46	61
04	2020-21	Guest Lecture on Intellectual Property Rights and Patent Filing	Dr. Kailash Nemade , Department of Physics , Indira Mahavidyalaya , Kalamb	08-01-2021	33	98	131

05	2021-22	Online Expert Guest Lecture Series	Mr. Akshay P. Jenekar , Assistant Professor and Head , Arts , Commerce and Science , Maregaon	14-03-2022	29	55	84
06		Guest Lecture on Career Guidance	Mr. Amol Ananatrao Chepe, Director of Radiant Academy, Ytl	20-04-2022	23	46	69
07	2022-23	NIL	NIL	NIL	NIL	NIL	NIL
08	2023-24	Guest Lecture on Research Methodology	Prof. Salunke , Professor and Head , Mungsaji Maharaj Mahavidyalaya, Darwha	25-08-2023	06	29	35
09		Guest Lecture on the preparation of Competitive Examination	Mr. Pravin Bhokare , Manager ,LIC , Yavatmal	12-10-2023	28	122	150


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Guest Lecture organized by Department of Botany

Sr. No.	Academic Year	Title	Name of the Resource Person	Date of Activity	No. of Participants		
					Male	Female	Total
1.	2019-20	Guest Lecture on Biodiversity	Dr. Kishor P. Suradkar, Assistant Professor and Head Dept. of Botany, Indira Mahavidyalaya, Kalamb	12/09/2019	15	42	57
2.	2020-21	Online Guest Lecture on 'Fine Structure of Gene'	Mr. Shilanand Hiwarale Assistant Professor Department of Botany, Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshar.	21/03/2021	04	20	24
		Online Guest Lecture on "Entrepreneurship Development"	Mr. Rupesh Hirulkar MCED, Yavatmal	22/05/2021	09	34	43
		Online Guest Lecture on "Role of Biotechnology in Crop Development"	Dr. Nandkumar .S. Kunchge Beej Sheetal Research Pvt. Ltd. Kalash Seeds Pvt. Ltd. Jalna	29/05/2021	17	41	58
3.	2021-22	Online Guest Lecture on "Carbon Metabolism in Plants"	Dr. Vivek R. Narkhedkar Assistant Professor Mahatma Jyotiba Fule Commerce, Science and Vitthalrao Raut Arts college, Bhatkuli	08/01/2022	03	21	24
		Online Guest Lecture on "Integrated Farming"	Mr. Dhnydeshawar S. Wayal Supervisor Syngenta Seeds India Ltd.	10/01/2022	11	30	41
		Online Guest Lecture on "Double Haploids and its Applications"	Mr. Sachin B. Bodkhe Associate Scientist Beej Sheetal Research Pvt. Ltd. Kalash Seeds Pvt. Ltd. Jalna	20/04/2022	15	57	72
4.	2022-23	Guest Lecture on "Gene Expression"	Dr. Vivek R. Narkhedkar Assistant Professor Mahatma Jyotiba Fule Commerce, Science and Vitthalrao Raut Arts college, Bhatkuli	03/09/2022	04	45	49
5.	2023-24	Guest Lecture on "Ecological Succession"	Dr. Kishor P. Suradkar, Assistant Professor and Head Dept. of Botany, Indira Mahavidyalaya, Kalamb	31/08/2023	06	39	45

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		Online Guest Lecture on "Entrepreneurship Development"	Mr. Rupesh Hirulkar MCED, Yavatmal	22/05/2021	09	34	43
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Exhibition & Workshop organised by Department of Chemistry

Sr. No.	Name of the Activity	Date of Activity	No. of Participants			Academic Year
			Male	Female	Total	
1.	Exhibition on the occasion of National Science day	28/02/2020				2019-20
2.	Exhibition on the occasion of National Science day	28/02/2021	02	01	03	2020-21
3.	Environmental Consciousness Workshop	10/12/2021	04	60	67	
4.	Solid & Liquid Waste Management Workshop	27/12/2021	08	32	40	
5.	On the occasion of National Science Day-Water Analysis Workshop	28/02/2022	28	02	30	2021-22
6.	Exhibition on the occasion of National Science Day	28/02/2023				2022-23
7.	Exhibition on the occasion of National Science Day-Poster Competition	28/02/2024	02	19	21	2023-24


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Exhibition & Workshop organised by Department of Mathematics

Sr. No.	Name of the Activity	Date of Activity	No. of Participants			Academic Year
			Male	Female	Total	
1.	University Level Seminar Competition on “Algebra”	01/02/2020	53	103	156	2019-20
2.	Online National Level Workshop on “Intellectual Property Rights and Patent Filling”(IPR's 2021)	08/01/2021	44	87	131	2020-21
3.	Online National Level Awareness Workshop / Programme on Fundamental Research	27/05/2021	22	90	112	
4.	National e-Conference on Recent Advances for Innovative Research in Mathematics (NCRAIRM-21)	29-09-2021	270	121	391	2021-22
5.	Online National Level Awareness Workshop/ Programme on Research and Publications	08-02-2022 to 14-02-2022	115	318	433	
6.	One Day Online National Level Workshop on “Intellectual Property Rights and Patent Filling”	08/04/2022	67	100	167	2022-23
7.	Celebration of 125th Birth Anniversary of Dr. Punjab Rao Deshmukh	05-10-2023	130	21	151	2023-24


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Exhibition & Workshop organised by Department of Physics

Sr. No.	Name of the Activity	Date of Activity	No. of Participants			Academic Year
			Male	Female	Total	
1.	One Day State Level Workshop on "Intellectual Property Rights and Patent Filling"	29/01/2020	83	67	150	2019-20
2.	Celebration of National Science Day	28/02/2020	112	145	257	
3.	E-exhibition on the occasion of National Innovation Day on Birth Anniversary of Dr. A. P. J. Abdul Kalam	15/10/2020	70	73	173	2020-21
4.	E-exhibition on Laboratory Equipment	15/11/2021	24	99	123	
5.	One Day Online National Level Workshop on "Intellectual Property Rights and Patent Filling"	08/04/2022	67	100	167	2022-23
6.	Workshop on laboratory instrument on celebration of National Science Day	28/02/2022	66	23	89	
7.	Workshop on Non-Conventional Source of Energy	10/12/2021	15	88	103	
8.	Scholarship Awareness Programme	18/12/2021	27	85	112	
9.	One day workshop on "How to make power point presentation"	23/05/2022	13	54	67	
10.	Workshop on CBCS curriculum	23-08-2022	19	72	91	2023-24
11.	Awareness Programme on One Day of Scholarship	24-09-2022	11	83	94	
12.	Workshop on laboratory instrument on celebration of National Science Day	28/02/2023	78	68	10	
13.	Introduction to Google Drive and Email Making	21/10/2023	03	45	48	2024-25
14.	School Connect Programme on National Education Policy 2020	25/01/2024	87	66	153	
15.	Exhibition on National Science Day	28/02/2023	63	12	85	


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Department of Physics

B.Sc-II (Sem-III)

Seminar Topics

Academic Session: 2023-2024

Sr. No.	Name of the Student	Topic
1.	Mr. CHETAN ASHOK DAMBHARE	Unit Cell
2.	Ku. KIRTI BHALCHANDRA RAUT	Thermodynamics Potentials
3.	Ku. MANSI SOMDEV BHOYAR	PN Junction Diode
4.	Ku. MINAKSHI S. POHANKAR	Zener Diode
5.	Ku. NIKHITA BHOJARAJ GEDAM	Light Emitting Diode
6.	Ku. PRACHI SHRAVAN DONGARE	Bipolar Junction Transistor
7.	Mr. PRATIK RAJENDRA TODASE	Half Wave Rectifier
8.	Ku. PRATIKSHA S. SASANE	Power Supply
9.	Ku. PRERANA P. KULSANGE	Zener Diode as Voltage Regulator
10.	Ku. RADHIKA A. PANNASE	Field Effect Transistor
11.	Ku. RANI HARIBHAU KHAPARDE	I st law of thermodynamics
12.	Ku. RUTUJA GOVINDRAO UMATE	Black Body Radiation
13.	Mr. SANDESH V. GEDAM	C.E Amplifier
14.	Ku. SHEJAL B. GHINMINE	L-Section Filter
15.	Ku. SHIVANI GAJANAN MADAN	Full Wave Bridge Rectifier
16.	Ku. TANUSHRI S. LATKAR	II-section filter
17.	Ku. VAIDEHI N. SONEKAR	Macrostate & Microstate

Instructions concerning the Seminar/ PPT: -

1. The Presentation should contain nearly **5-7 slides** with proper explanation and diagram.
2. The time duration given for presenting the seminar to each student is about **7-10 minutes**.
3. All the students will have to prepare a **PowerPoint Presentation** of the given topic in MS-PowerPoint app and before delivering the seminar all the student will have to **check the prepared PPT from the subject teacher**.
4. It is **compulsory** for all the students, to give the presentation of the given topic through Online/Offline mode.
5. The student will have to make a **file** by taking the **Print out** of their PPT and submit the **hardcopy** to the department at the time of submission.
(The **cover-page format** of the seminar will be provided on the WhatsApp group.)
6. If any student is **failing** to do the presentation through both online/offline mode then they will **lose** their seminar marks.
7. The online/offline PPT presentation will be **schedule after the completion of the first unit test**.

Indira Gandhi Kala Mahavidyalaya, Ralegaon

Department of Physics

B.Sc-II (Sem-IV)

Seminar Topics

Academic Session: 2023-2024

Sr. No.	Name of the Student	Topic
1.	Mr. CHETAN ASHOK DAMBHARE	Structure of Optical fiber
2.	Ku. KIRTI BHALCHANDRA RAUT	Total Internal Reflection
3.	Ku. MANSI SOMDEV BHOYAR	Diffraction & its types
4.	Ku. MINAKSHI S. POHANKAR	Concept of Viscosity
5.	Ku. NIKHITA BHOJARAJ GEDAM	Concept of Feedback
6.	Ku. PRACHI SHRAVAN DONGARE	Op-amp as Subtractor
7.	Mr. PRATIK RAJENDRA TODASE	Concept of Virtual Ground
8.	Ku. PRATIKSHA S. SASANE	Ruby Laser
9.	Ku. PRERANA P. KULSANGE	Op-amp as Differentiator
10.	Ku. RADHIKA A. PANNASE	Op-amp as adder or Summing amplifier
11.	Ku. RANI HARIBHAU KHAPARDE	He-Ne Laser
12.	Ku. RUTUJA GOVINDRAO UMATE	Pin Diagram of Op-amp
13.	Mr. SANDESH V. GEDAM	Pumping and its types
14.	Ku. SHEJAL B. GHINMINE	Op-amp as Integrator
15.	Ku. SHIVANI GAJANAN MADAN	Laser & its Characteristics
16.	Ku. TANUSHRI S. LATKAR	Interference of Light
17.	Ku. VAIDEHI N. SONEKAR	Absorption, Stimulated emission & Spontaneous emission

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Department of Physics

B.Sc. III Sem. V

Session 2022-23

List of Seminar Topic

S.N.	Name of Students	Topic	Status
1	Akansha Kinhekar	Chain Reaction	Completed
2	Pawan Urawate	Dead Time & Recovery Time	Completed
3	Nikita Chandankhede	Mass defect & Binding Energy	Completed
4	Kalyani Thakare	Vector Atom Model	Completed
5	Jyoti Jangid	General properties of Nucleus	Completed
6	Swapnil Kulsange	Nuclear Reactor	Completed
7	Aarti Kankulawar	Photoelectric effect	Completed
8	Ashwini Khekare	G. M. Counter	Completed
9	Pranjali Khandalkar	Schrodinger time dependent equation	Completed
10	Ankita Khandalakar	Quantum theory of Raman effect	Completed
11	Aman Zade	Geiger Nuttal Law	Completed
12	Samita Dodake	Duane Hunts law	Completed
13	Shruti Thool	Cupling Schemen	Completed
14	Suraj Bhongade	Factor which affect operating point	Completed
15	Aishvarya Lonare	Paulis Nutrino Hypothesis	Completed
16	Rutik Fulmali	Chain reaction	Completed
17	Kapil Gedam	Noise	Completed
18	Aditya Dongare	Voltage series feedback	Completed
19	Snehal Choudhary	Black body	Completed
20	Jayashree Thakre	Beta decay	Completed
21	Tanvi Dhote	X-ray	Completed
22	Nikita Bhoyar	Alpha Particles	Completed
23	Dipika Gautre	Nuclear Fusion	Completed
24	Payal Sidam	Rayleigh Jeans law	Completed
25	Pranali Gadge	Gas filled detector	Completed


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Department of Physics

B.Sc. III Sem. VI

Session 2022-23

List of Seminar Topic

S.N.	Name of Students	Topic	Status
1	Akansha Kinhekar	Reciprocal Lattice	Completed
2	Pawan Urawate	Seven Crystal system	Completed
3	Nikita Chandankhede	Coordination Numbers	Completed
4	Kalyani Thakare	Dai, Para & Ferromagnetic materials	Completed
5	Jyoti Jangid	Insulator, Semiconductor & Conductor	Completed
6	Swapnil Kulsange	Microstate & Macrostate	Completed
7	Aarti Kankulawar	Defects in crystalline solids	Completed
8	Ashwini Khekare	Superconductivity	Completed
9	Pranjali Khandalkar	Unit Cell	Completed
10	Ankita Khandalakar	Bragg's law	Completed
11	Aman Zade	Meissner Effect	Completed
12	Samita Dodake	Nanotechnology	Completed
13	Shruti Thool	Application Nanotechnology	Completed
14	Suraj Bhongade	Quantum size effect	Completed
15	Aishvarya Lonare	B.E. Distribution	Completed
16	Rutik Fulmali	Application of Superconductor	Completed
17	Kapil Gedam	Concepts of Bosons & Fermions	Completed
18	Aditya Dongare	Free electron model	Completed
19	Snehal Choudhary	Nanotechnology	Completed
20	Jayashree Thakre	Fermi energy	Completed
21	Tanvi Dhote	Bloch Theorem	Completed
22	Nikita Bhoyar	Curie Weiss law	Completed
23	Dipika Gautre	B. E. Statistics	Completed
24	Payal Sidam	Boltzmann entropy relation	Completed
25	Pranali Gadge	Crystalline & amorphous materials	Completed


Head
Department of Physics
Indira Gandhi Kala Mahavidyalaya
Ralegaon



Late Chindhuji Laxmanrao Purke Shikshan Prasarak Mandal's

Indira Gandhi Kala Mahavidyalaya, Ralegaon

Dist. Yavatmal (445402)

National Service Scheme

Programmes organized by NSS

2019-2020

Sr. No.	Name of The Programme	Expert /Resource Person	No. of Students Participated			Date
			Male	Female	Total	
1.	International Yoga Day	Mr. Bhupendra Karia, Fitness Educator, Ralegaon	14	00	14	21-06-2019
2.	Plantation	Dr. S. D. Dawada, IC Principal, IGKM, Ralegaon	14	28	42	01-07-2019
3.	Cleanliness Drive	Mr. K. D. Jagtap, Assistant Professor, IGKM, Ralegaon	20	43	63	14-08-2019
4.	Sadhabhavana Diwas & Yuva Mahiti Dut	Mr. Dinesh Karlake, Dr. V.L. Barde Librarian, IGKM, Ralegaon	24	61	85	20-08-2019
5.	Teachers Day	Dr. S. D. Dawada, IC Principal, IGKM, Ralegaon	35	78	113	05-09-2019
6.	Aids Awareness Programme	Mrs. Varsha Bangale , Counsoller , Rural Hospital, Ralegaon, Mr. Shrikant Labshetwar, Lab. Technician, Rural Hospital, Ralegaon	30	96	126	13-09-2019
7.	Cleanliness Drive on the Occasion of Birth Anniversary of Mahatma Gandhi and Lal Bahadur Shatri	Prof. S. V. Jadhav Assistant Professor, IGKM, Ralegaon	21	68	89	02-10-2019
8.	Women Health and Empowerment	Dr. Amruta Tupkar Director, Mauli Hospital	21	71	92	09-10-2019
9.	Birth Anniversary of Dr. APJ Abdul Kalam and Voter Awareness Rally	Mr. Padmakar Madavi BDO, Panchayat Samiti, Ralegaon	25	48	73	15-10-2019
10.	Constitution Day	Dr. S. D. Dawada, IC Principal, IGKM, Ralegaon	05	07	12	26-11-2019
11.	Mahaparinirvan Din	Prof. V. D. Samrth, Assistant Professor, IGKM, Ralegaon	37	92	129	06-12-2019
12.	Remembrance of Sant Gadge Maharaj	Dr. V.L. Barde, Librarian, IGKM, Ralegaon	04	08	12	20-12-2019
13.	Beti Bachav & Beti Padhav On Occasion of Birth Anniversary of Savitri Bai Fule	Adv. Roshani Kamadi, Ralegaon Dr. B. R. Bhadake, Assistant Professor, IGKM, Ralegaon	25	78	103	03-01-2020



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14.	Republic Day	Prof. V. C. Purke, Ex. Deputy Speaker of State Legislative Assembly	170	260	430	26-01-2020
15.	Annual Social Gathering "SPARK-2020"	Dr. Rokade, Principal, Arts & Commerce college Ralegaon	132	150	282	30 th Jan.- 31 st Jan., 2020
16.	NSS Special Camp at adopted village Raveri		11	14	25	04-02-2020 to 11-02- 2020
17.	Birth Anniversary of Chatrapati Shivaji Maharaj	Dr. S. D. Dawada, IC Principal, IGKM, Ralegaon	14	25	39	19-02-2020
18.	Matru Bhasha Din	Dr. B. R. Bhadake Assistant Professor, IGKM, Ralegaon	17	36	53	22-02-2020
19.	Birth Anniversary of Sant Gadge Maharaj	Prof. V. D. Samrth Assistant Professor, IGKM, Ralegaon	18	48	66	23-02-2020
20.	Marathi Bhasha Din	Mr. Pradip Deshpande Assistant Teacher, Lakhaji Maharaj Vidyalaya, Zadgaon	24	59	83	27-02-2020
21.	International Women's Day	Sau. Premlata V. Purke, Secretary, Late C.L.P.S.P.M. Adv. Roshani Kamadi, Ralegaon	26	63	89	07-03-2020
22.	Environmental Conservation Supplement Holi	Sau. Premlata V. Purke, Secretary, Late C.L.P.S.P.M. Adv. Roshani Kamadi, Ralegaon	26	63	89	07-03-2020


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Late Chindhuji Laxmanrao Purke Shikshan Prasarak Mandal's
Indira Gandhi Kala Mahavidyalaya, Ralegaon
Dist. Yavatmal (445402)

National Service Scheme

Programmes organized by NSS

2020-2021

Sr. No.	Name of The Programme	Expert /Resource Person	No. of Students Participated			Date
			Male	Female	Total	
1.	E-quiz on Environment awareness Day		132	90	222	05-06-2020
2.	Plantation	Prof. V. C. Purke, Ex. Deputy Speaker of State Legislative Assembly	14	28	42	10-07-2020
3.	Independence Day	Prof. V. C. Purke, Ex. Deputy Speaker of State Legislative Assembly	34	06	40	15-08-2020
4.	Teachers Day	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	12	01	13	05-09-2020
5.	National Unity Day	Dr. V. L. Barde, Librarian, IGKM, Ralegaon	09	19	28	31-10-2020
6.	Mahaparinirvan Din	Mr. K. D. Jagtap, Assistant Professor, IGKM, Ralegaon	15	02	17	06-12-2020
7.	Blood Donation Awareness	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	11	30	41	06-12-2020
8.	Remembrance of Sant Gadge Maharaj	Mr. S. V. Jadhav, Assistant Professor,, IGKM, Ralegaon	09	31	40	20-12-2020
9.	Blood Donation Camp	Dr. Onkar Kavitate Ganesh Kanade Madhukar Madavi Shshikant Sarve Vitthal Dolas	09	31	41	21-12-2020
			33	02	35 Donors	
10.	Birth anniversary of Savitribai Phule	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	09	01	10	03-01-2021
11.	Birth anniversary of Rajmata Jijau and Swami Vivekananda (Yuva Day)	Mr. S. V. Jadhav, Assistant Professor,, IGKM, Ralegaon	07	28	35	12-01-2021
12.	E-Quiz on Aids Awareness Programme		12	40	52	21-01-2021
13.	Birth anniversary of Subash Chandra Bose and Balasaheb Thakare	Mr. K. D. Jagtap, Head, Dept. of Physics, IGKM, Ralegaon	12	23	32	23-01-2021
14.	Republic Day	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	25	80	105	26-01-2021



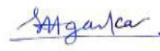
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15.	Sant Sevalal Maharaj Jayanti	Prof. Rajkumar Wagh, Assistant Professor, Shivshakti Arts & Commerce College, Babhulgaon	10	20	30	15-02-2021
16.	Birth Anniversary of Bal Shastri Jambekar	Dr. V. L. Barde, Librarian, IGKM, Ralegaon	09	20	29	16-02-2021
17.	Birth Anniversary of Chatrapati Shivaji Maharaj	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	08	15	23	19-02-2021
18.	Birth Anniversary of Sant Gadge Maharaj	Miss Runali Kumare, Assistant Professor, IGKM, Ralegaon	06	19	25	23-02-2021
19.	Programme on Gender Issue		00	01	01	08-03-2021
20.	Birth Anniversary of Yashwantrao Chavan	Mr. N. M. Deshmukh, Assistant Professor, IGKM, Ralegaon	08	17	25	12-03-2021
21.	Shahid Din	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	06	11	17	23-03-2021
22.	Guest Lecture on Azadi Ka Amrut Mahotsav	Mr. Yashwant Barahate, Junior Lecturer, IGKM, Ralegaon	06	08	14	11-04-2021
23.	Birth Anniversary of Mahatma Fule	Mr. Yashwant Barahate, Junior Lecturer, IGKM, Ralegaon	06	08	14	11-04-2021
24.	Birth Anniversary of Dr. Babasaheb Ambedkar	Mr. S. V. Jadhav, Assistant Professor, IGKM, Ralegaon	11	01	12	14-04-2021


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Late Chindhuji Laxmanrao Purke Shikshan Prasarak Mandal's
Indira Gandhi Kala Mahavidyalaya, Ralegaon
Dist. Yavatmal (445402)

National Service Scheme

Programmes organized by NSS

2021-2022

Sr. No.	Name of The Programme	Expert /Resource Person	No. of Students Participated			Date
			Male	Female	Total	
1.	Death Anniversary of Chatrapati Shivaji Maharaj	Mr. Yashwant Barahate, Junior Lecturer, IGKM, Ralegaon	12	01	13	06-06-2021
2.	International Yoga Day	Prof. Dr. Santoshi Saualkar, Lokhit Sharirik Shikshan Maahvidyalaya, Yavatmal	14	22	36	21-06-2021
3.	Birth Anniversary of Rajashri Shahu Maharaj	Prof. V. C. Purke, Ex. Deputy Speaker of State Legislative Assembly	08	01	09	26-06-2021
4.	Birth Anniversary of Vasantao Naik	Mr. A. C. Ade, Assistant Professor, IGKM, Ralegaon	16	01	17	01-07-2021
5.	Financial Literacy	Dr. Suchita Mane Assistant Professor, Butale Mahavidyalaya, Digras	27	110	137	07-07-2021
6.	Women Protection & Women Empowerment	Adv. Roshani Wanode, Ralegaon	21	59	80	24-07-2021
7.	Independence Day	Prof. V. C. Purke, Ex. Deputy Speaker of State Legislative Assembly	33	07	40	15-08-2021
8.	Teachers Day	Dr. A. Y. Shaikh, HOD, Dept. of Mathematics, IGKM, Ralegaon	19	02	21	05-09-2021
9.	Birth Anniversary of Keshav Thakare	Mr. M. V. Wankhade Assistant Professor, IGKM, Ralegaon	13	01	14	17-09-2021
10.	National Service Scheme Day	Mr. V. D. Samarth, Assistant Professor, IGKM, Ralegaon	11	01	12	24-09-2021
11.	Birth Anniversary of Deendayal Upadhyaya	Mr. S. V. Gore, PO, NSS, IGKM, Ralegaon	03	01	04	25-09-2021
12.	COVID-19 Vaccination Campaign	Dr. Nilima Chaudhari, A. N. M., Health Care Worker Dr. Mangalatai Alone, A. N. M., Health Care Worker	90	154	244	14-10-2021
13.	Birth Anniversary of Dr. Abdul Kalam	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	12	01	12	15-10-2021



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14.	COVID-19 Vaccination Awareness	Dr. Ravindra Kumar Kanadje, Tahsildar Ralegaon	09	11	20	26-10-2021
15.	National Unity Day	Mr. S. V. Gore, PO, NSS, IGKM, Ralegaon	04	01	05	31-10-2021
16.	Birth Anniversary of Pandit Javaharlal Neharu	Mr. S. V. Gore, PO, NSS, IGKM, Ralegaon	06	01	07	14-11-2021
17.	International Day for the Elimination of Violence Against Women	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	18	01	19	25-11-2021
18.	Constitution Day	Mr. K. D. Jagtap Assistant Professor, IGKM, Ralegaon	21	02	23	26-11-2021
19.	Death Anniversary of Mahatma Fule	Mr. S. V. Gore, PO, NSS, IGKM, Ralegaon	04	01	05	28-11-2021
20.	Voter Awareness Programme	Mr. Yashwant Barahate, Junior Lecturer, IGKM, Ralegaon	14	31	45	30-11-2021
21.	AIDS Awareness Programme	Mrs. Dr. Varsha Bengale, Gov. Rural Hospital, Ralegaon	14	20	34	02-12-2021
22.	Mahaparinirvan Din	Mr. S. V. Jadhav, Assistant Professor, IGKM, Ralegaon	11	32	43	06-12-2021
23.	Birth Anniversary of Jagnade Maharaj	Mr. A. C. Ade Assistant Professor, IGKM, Ralegaon	22	01	23	08-12-2021
24.	COVID-19 RT-PCR Test	Dr. Nilima Chaudhari, A. N. M., Health Care Worker	46	96	142	17-12-2021
25.	Remembrance of Sant Gadge Maharaj	Mr. V. D. Samarth, Assistant Professor, IGKM, Ralegaon	12	28	40	20-12-2021
26.	Birth anniversary of Savitribai Phule	Mr. S. V. Jadhav, Assistant Professor, IGKM, Ralegaon	26	64	90	03-01-2022
27.	Birth anniversary of Rajmata Jijau and Swami Vivekananda (Yuva Day)	Dr. A. Y. Shaikh, HOD, Dept. of Mathematics, IGKM, Ralegaon	09	01	10	12-01-2022
28.	Birth anniversary of Subash Chandra Bose and Balasaheb Thakare	Mr. K. D. Jagtap, Head, Dept. of Physics, IGKM, Ralegaon	14	01	10	23-01-2022
29.	National Voter Day	Dr. Kiran Pawar, Director of Physical Education, IGKM, Ralegaon	14	01	15	25-01-2022



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30.	Republic Day	Prof. V. C. Purke, Ex. Deputy Speaker of State Legislative Assembly	46	14	50	26-01-2022
31.	Online Lecture on Role of New Voters in Nation Building	Prof. Rajkumar Wagh, Assistant Professor, Shivshakti Arts & Commerce College, Babhulgaon	13	56	69	05-02-2022
32.	Tribute to Late Lata Mangeshkar on Her Demise	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	14	01	15	07-02-2022
33.	Birth Anniversary of Chatrapati Shivaji Maharaj	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	23	67	96	19-02-2022
34.	Birth Anniversary of Sant Gadge Maharaj	Dr. V. L. Barde, Librarian, IGKM, Ralegaon	26	43	69	23-02-2022
35.	Plantation Drive	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	26	43	69	23-02-2022
36.	Birth Anniversary of Kavi Kusumagraj	Mr. Yashwant Barahate, Asst. Teacher, IGKM, Ralegaon	10	20	30	26-02-2022
37.	NSS Special Camp at Raveri		11	14	24	01-03-2022 to 08-03-2022
38.	Shahid Din and World Weather Day	Mr. Manish Bavane Assistant Professor, Dept of Geography, IGKM, Ralegaon	29	56	85	23-03-2022
39.	Swatchata Abhiyan	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	12	28	40	30-03-2022
40.	Workshop on Road Safety, Cyber Crime, Career and Competitive Exam Guidance	1)Mr. Sanjay Chaube, Police Nirikshak, Police Station, Ralegaon 2)Mr. Mohan Patil Police Upnirikshak, Police Station, Ralegaon 3)Shri. Amol Mude Sahayyak Police Nirikshak, Police Station, Ralegaon	39	69	108	01-04-2022
41.	World Health Day	Miss. Dhage, Lecturer, Home Economics, IGKM, Ralegaon	34	38	72	07-04-2022
42.	Poshan Aahar Pakhwada	Miss. Dhage, Lecturer, Home Economics, IGKM, Ralegaon	34	38	72	07-04-2022



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43.	Birth Anniversary of Mahatma Fule	Mr. Prashant Bobade Assistant Professor, IGKM, Ralegaon	09	91	100	11-04-2022
44.	Birth Anniversary of Sant Tukdoji Maharaj	Mr. Mohnish Wankhede Asst. prof., Dept. of Botany, IGKM, Ralegaon	12	26	38	30-04-2022
45.	Death Anniversary of Rajashree Shahoo Maharaj	Mr. V. D. Samarth IQAC Coordinator, IGKM, Ralegaon	09	18	27	06-05-2022
46.	Blood Donation Camp	Mr. Aashish Khadse (SSS) Mr. Mohan Talwekar (BRO) Mr. Gajanan Gedam (TECH)	29	02	31	24-05-2022


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National Service Scheme

Programmes organized by NSS

2022-2023

Sr. No.	Name of The Programme	Expert /Resource Person	No. of Students Participated			Date
			Male	Female	Total	
1.	International World Environment Day	Mr. S. V. Gore, PO, NSS, IGKM, Ralegaon	03	10	13	05-06-2022
2.	International Yoga Day	Mr. Manoj Nimsatkar, Principal, I G J C, Ralegaon	13	33	46	21-06-2022
3.	Birth Anniversary of Lokmanya Tilak	Mr. V. D. Samarth, NAAC Coordinator, IGKM, Ralegaon	12	04	16	23-07-2022
4.	Kranti Din	Mr. S. V. Gore, PO, NSS, IGKM, Ralegaon	03	10	13	09-08-2022
5.	Swatantryacha Amrut Mahotsav	Dr. Kiran Pawar, Director, Sport and Physical Education Dept., IGKM, Ralegaon	55	120	175	10-08-2022
6.	Ranbhajya Mahotsav	Dr. S. D. Dawada, HOD, Dept. of Zoology, IGKM, Ralegaon	15	85	100	10-08-2022
7.	Eco friendly Rakhi	Dr. A. Y. Shaikh, HOD, Dept. of Mathematics, IGKM, Ralegaon	15	85	100	10-08-2022
8.	Drawing Competition	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	13	37	50	12-08-2022
9.	Tree Plantation Drive	Mr. V. D. Samarth, NAAC Coordinator, IGKM, Ralegaon	08	10	18	12-08-2022
10.	Birth anniversary of Dr. S. R. Ranganathan	Dr. A. Y. Shaikh, HOD, Dept. of Mathematics, IGKM, Ralegaon	31	102	133	12-08-2022
11.	Tricolour Distribution for "Har Ghar Tiranga" initiative	Mr. Satish Kale, Nayab Tahsildar, Ralegaon	31	102	133	12-08-2022
12.	Cleanliness Drive	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	35	115	150	13-08-2022
13.	Har Ghar Tiranga Rally	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	45	225	270	13-08-2022
14.	Independence Day	Prof. V. C. Purke, President, Lt. C. L. S. P. M., Yavatmal	80	295	375	15-08-2022



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15.	Singing of National Anthem	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	54	170	224	17-08-2022
16.	Birth anniversary of Shri. Rajiv Gandhi	Mr. Manoj Nimsatkar, Principal, I G J C, Ralegaon	64	160	224	20-08-2022
17.	Dahi Handi Mahotsav	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	64	160	224	20-08-2022
18.	Entrepreneurship Development Programme	Mr. V. D. Samarth, NAAC Coordinator, IGKM, Ralegaon	15	32	47	26-08-2022
19.	Teacher's Day	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	24	69	83	05-09-2022
20.	PESA & Forest Right Act	Adv. Vaibhav Pandit, Ralegaon	16	83	99	08-09-2022
21.	Protection of Women from Domestic Violence Act	Adv. Roshani Vanode, Ralegaon	14	56	70	13-09-2022
22.	World Ozone Day	Mr. M. D. Bawane, Department of Geography, IGKM, Ralegaon	05	20	25	16-09-2022
23.	National Service Scheme Day & Constitution Campaigner	Mrs. Manju Kambale, Constitution Campaigner, Yavatmal	18	49	67	24-09-2022
24.	Birth anniversary of Pandit Dindayal Upadhyay	Mr. S. V. Gore, PO, NSS, IGKM, Ralegaon	06	11	17	25-09-2022
25.	Rashtriya Poshan Aahar Mohstav	Miss. Shubhangi Dhage, Asst. Prof, Home Economics, IGKM, Ralegaon	13	27	40	27-09-2022
26.	Birth anniversary of Shahid Bhagat Singh	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	25	128	153	28-09-2022
27.	Workshop on Elimination of Superstitions and Addiction	Mr. Prakash Ambilkar, District Coordinator, Maharashtra Rajya Andhshradha Nirmulan Samiti, Yavatmal	25	128	153	28-09-2022
28.	Tree Plantation Drive	Dr. Kiran Pawar, Director, Sport and Physical Education Dept., IGKM, Ralegaon	21	39	60	30-09-2022
29.	Birth anniversary of Mahatma Gandhi and Lal Bahadur Shastri	Mr. K. D. Jagtap, HOD, Dept. of Physics, IGKM, Ralegaon	21	93	114	02-10-2022



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30.	Birth anniversary of Dr. Abdul Kalam	Mr. B. H. Bhatti, Asst. Prof., Dept. of Physics, IGKM, Ralegaon	20	38	58	15-10-2022
31.	Plastic-Free Campaign	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	15	26	41	19-10-2022
32.	Cleanliness Drive	Mr. A. S. Lihitkar, Asst. Programme Officer, NSS, IGKM, Ralegaon	13	38	51	22-10-2022
33.	National Unity Day	Dr. V. L. Barde Librarian, IGKM, Ralegaon	06	04	10	31-10-2022
34.	Kaydevishayak Janjagruti	Mr. V. V. Jatal, Judicial Magistrate, Judge, Ralegaon	42	169	211	11-11-2022
35.	Cleanliness Drive	Mr. S. V. Gore, PO, NSS, IGKM, Ralegaon	31	109	140	12-11-2022
36.	Disaster Management: Use of Fire Extinguisher	Mr. Anil Khamankar, Fire Points Security Service, Yavatmal	37	158	195	14-11-2022
37.	Birth anniversary of Pandit Jawaharlal Nehru	Miss. Runali. Kumre, NSS Programme Officer, IGKM, Ralegaon	07	16	23	14-11-2022
38.	Voter Awareness Programme	Mr. Satish Kale, Nayab Tahsildar, Ralegaon	25	62	87	18-11-2022
39.	Birth anniversary of Indira Gandhi	Miss. Runali. Kumre, NSS Programme Officer, IGKM, Ralegaon	05	22	27	19-11-2022
40.	Constitution Day	Mr. Mohanish Wankhade Asst. Prof, Dept. of Botany, IGKM, Ralegaon	37	110	147	26-11-2022
41.	Remembrance of the death anniversary of Mahatma Jyotirao Phule	Miss. Runali Kumre, NSS Programme Officer. IGKM, Ralegaon	06	11	17	28-11-2022
42.	Workshop by Damini Pathak for Woman Empowerment	Dr. Ravindra Kandaje Tahsildar, Ralegaon Mrs. Vijaya Pandhare, PI, Damini Pathak, Yavatmal	65	235	300	29-11-2022
43.	AIDS Awareness Programme	Dr. S. D. Dawada, HOD, Dept. of Zoology, IGKM, Ralegaon	15	45	60	01-12-2022
44.	Medicinal Plants	Mr. Mohanish Wankhade Asst. Prof, Dept. of Botany, IGKM, Ralegaon	06	21	27	05-12-2022
45.	Mahaparinirvan Din & AIDS Awareness Programme	Mrs. Dr. Varsha Bengale, Counsellor, Gov. Rural Hospital, Ralegaon	27	111	138	06-12-2022



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46.	Remembrance of Sant Gadge Maharaj	Mr. A. S. Lihitkar, Asst. Programme Officer, NSS, IGKM, Ralegaon	05	62	67	20-12-2022
47.	Birth anniversary of Savitribai Phule	Miss. Runali. Kumre, NSS Programme Officer, IGKM, Ralegaon	20	68	88	03-01-2023
48.	Birth anniversary of Rajmata Jijau and Swami Vivekananda	Mrs. Manisha Salave, District Informative Officer, Yavatmal	35	102	137	12-01-2023
49.	Birth anniversary of Subash Chandra Bose and Balasaheb Thakare	Mr. Rupesh Renghe, Gramgitacharya, Zadgaon	14	56	70	23-01-2023
50.	National Voter Day	Dr. S. D. Dawada, HOD, Dept. of Zoology, IGKM, Ralegaon	11	34	45	25-01-2023
51.	Republic Day	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	47	243	290	26-01-2023
52.	Annual Social Gathering SPARK-2023	•Hon'ble. Sanjay Chaubey, PI, Ralegaon •Prof. V. C. Purke, President, Late Chindhuji L. Purke S. P. Mandal's •Shri. V. C. Ade, Vice-President, Late C.L.P.S.P.M. •Shri. Kantilal Bothara, Entrepreneur, Ralegaon	125	225	350	01-02-2023 & 02-02-2023
53.	Birth anniversary of Sant Sevalal	Mr. Nikhil Ade, Asst. Teacher, Indira Gandhi Junior College, Ralegaon	25	85	110	15-02-2023
54.	AIDS Awareness Pathnatya	Mrs. Dr. Varsha Bengale, Counsellor, Gov. Rural Hospital, Ralegaon	17	65	82	16-02-2023
55.	Birth anniversary of Shivaji Maharaj	Mr. Yashwant Barahaate, Juniar Lecturer, IGKM, Ralegaon	14	43	57	19-02-2023
56.	NSS Special Camp at Raveri		10	15	25	22-02-2023 to 01-03-2023
57.	World Woman Day	Miss. Shubhangi Dhage, Asst. Prof, Home Economics, IGKM, Ralegaon	10	76	86	08-03-2023
58.	Remembrance of Savitribai Phule	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	08	35	43	10-03-2023
59.	Shaheed Diwas	Mr. S. V. Gore, PO, NSS, IGKM, Ralegaon	05	09	14	23-03-2023



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60.	Health Check-up Camp	Mrs. Dr. Varsha Bengale, Counsellor, Gov. Rural Hospital, Ralegaon Mrs. Shweta Wagade, Dentist, Gov. Rural Hospital, Ralegaon	09	45	54	03-04-2023
61.	Career Katta	Mr. Yashawant Shitode, President, Maharashtra Rajya Mahiti Tantradyan Kendra, MH	21	103	124	11-04-2023
62.	Birth anniversary of Dr. B.R. Ambedkar	Mr. Manoj Nimsatkar, Principal, I G J C, Ralegaon	08	24	32	14-04-2023


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N.S.S.
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal


Co-ordinator
Internal Quality Assurance Cell
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PRINCIPAL
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National Service Scheme

Programmes organized by NSS

2023-2024

Sr. No.	Name of The Programme	Expert /Resource Person	No. of Students Participated			Date
			Male	Female	Total	
1.	International World Environment Day	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	08	00	08	05-06-2023
2.	International Yoga Day	Dr. K. G. Pawar, Physical Director, IGKM, Ralegaon	14	00	14	21-06-2023
3.	Cleanness Drive	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	21	32	53	14-07-2023
4.	Skill Day	Mr. S. V. Jadhav, Assistant Professor, IGKM, Ralegaon	10	25	35	15-07-2023
5.	Birth Anniversary of Lokmanya Tilak	Mr. S. V. Gore, PO, NSS, IGKM, Ralegaon	07	14	21	23-07-2023
6.	Mental Health Awareness Programme	Mr. Nitin Kambale, Mental Health	17	68	85	02-08-2023
7.	Votter Awareness Programme	Mr. Amit Bhoite, Tahsildar, Ralegaon	17	68	85	02-08-2023
8.	Inaugural Ceremony of Meri Mati Mera Desh	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	26	110	136	09-08-2023
9.	Cleanness Drive	Mr. Y. V. Barahate, Assistant Teacher, IGKM, Ralegaon	10	85	95	12-08-2023
10.	International Youth Day	Mr. Shrikant Labhsetwar, Laboratory Technician, Rural Hospital, Ralegaon	10	85	95	12-08-2023
11.	Safety Awareness Program	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	03	39	42	14-08-2023
12.	75th Independence Day Celebration	Hon'ble Prof. Vasant Rao Chindhuji Purke, President, L.C.L.P.S.P.M., Yavatmal	110	225	335	15-08-2023
13.	NSS Volunteers Participant in District Level Pathnatya on AIDS Awareness	Link of Programme :- https://youtu.be/9jMyeR2KCZ8?si=K6Ob7jpcPbvIrO8A	03	06	09	24-08-2023
14.	Tree Plantation Drive	Dr. S. D. Dawada, Assistant Professor, IGKM, Ralegaon	7	27	34	31-08-2023
15.	Teacher's Day	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	18	80	98	05-09-2023
16.	NSS Volunteers Participant in District Level Pathnatya on AIDS Awareness	Link of Programme :- https://youtu.be/nC8CHYngXww?si=xuhk4blNEyWLHOox	03	06	09	13-09-2023



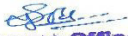
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17.	Hindi Din	Mr. S. V. Gore, PO, NSS, IGKM, Ralegaon	02	10	12	14-09-2023
18.	Meri Mati Mera Desh (Unveiling of Amrit Kalash)	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	08	34	42	20-09-2023
19.	Blood Donation Camp	Mr. Amit Bhoite, Tahsildar, Ralegaon			121 Donors	24-09-2023
			09	24	33	
20.	Visit to Old Age Home on the occasion of Pandit Dindayal Upadhyay Jayanti (Vrudha Seva)		04	05	09	25-09-2023
21.	Swachata Hi Seva	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	12	19	31	01-10-2023
22.	Birth anniversary of Mahatma Gandhi and Lal Bahadur Shastri	Mr. K. D. Jagtap, HOD, Dept. of Physics, IGKM, Ralegaon	10	17	27	02-10-2023
23.	Workshop on Right to Information Act 2005	Mr. Rupesh Sagarkar, Advocate, Ralegaon.	18	45	63	07-10-2023
24.	Jagar Matdaracha	Mr. Satish Kale, Nayab Tahsildar, Ralegaon	15	32	47	25-10-2023
25.	Celebration of the birth anniversary of Sardar Vallabhbhai Patel (National Unity Day)	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	03	09	12	31-10-2023
26.	Poster Competition on Awareness of HIV/AIDS	Dr. S. D. Dawada, Assistant Professor, IGKM, Ralegaon	05	13	18	01-12-2023
27.	Mahaparinirvan Din	Mr. Kapil Jagtap Assistant Professor, IGKM, Ralegaon	05	18	23	06-12-2023
28.	Remembrance of Anniversary of Sant Gadge Baba	Prof. V. S. Jagtap, Head, Department of Chemistry, Shree Pr. M. Science and Gilani Arts and Commerce College, Ghatanji	05	48	53	20-12-2023
29.	Silver Jubilee Birth Anniversary of Dr. Panjabrao Deshmukh	Mr. V. D. Samarth IQAC Coordinator, Indira Gandhi Kala Mahavidyalaya, Ralegaon	06	12	18	27-12-2023
30.	Celebration of Rajmata Jijau and Swami Vivekanand Jayanti (Yuva Din)	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	08	56	64	12-01-2024
31.	Disaster Management	Dr. K. G. Pawar, Director, Physical Education	08	56	64	12-01-2024



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32.	National Voter Day	Mr. Sudhir Patil, SDO, Ralegaon	29	85	114	25-01-2024
33.	Remembrance of Mahatma Gandhi on his death anniversary	Mr. Manoj Nimsadkar, Principal, Indira Gandhi Junior College, Ralegaon	08	28	36	30-01-2024
34.	Special Camp at Zadgaon		10	15	25	02-02-2024 to 09-02- 2024
35.	Addiction Awareness: Need for a Non- Addictive Partner	Adv. Roshani Wanode, Ralegaon	16	103	119	13-02-2024
36.	Birth anniversary of Sant Sevalal	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	05	15	20	15-02-2024
37.	Birth anniversary of Shivaji Maharaj	Mr. Yashwant Barahaate, Junior Lecturer, Indira Gandhi Junior College, Ralegaon	06	18	24	19-02-2023
38.	Birth anniversary of Sant Gadge Maharaj	Dr. S. V. Agarkar, Principal, IGKM, Ralegaon	14	84	98	23-02-2024
39.	Pathnatya on Addiction Awareness	Adv. Roshani Wanode, Ralegaon	14	84	98	23-02-2024
40.	World Consumer Rights Day	Dr. K. S. Varma, Grahak Panchayat Taluka Adhyaksh Mr. Mohan Deshmukh, Sachiv, Grahak Sanrakshan Parishad, Ralegaon	09	105	114	15-03-2024
41.	Birth anniversary of Dr. B.R. Ambedkar	Mr. Manoj Nimsatkar, Principal, I G J C, Ralegaon	08	10	18	14-04-2024


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