

Janki Devi Bajaj Government Girls College, Kota

Experiential learning

All the U. G. and P. G. courses presently running in the college have an extensive practice that encourages the students for experiential learning through practical curriculum. Practical in Botany, Chemistry, Physics and Zoology have 1/3rd weightage of total marks.

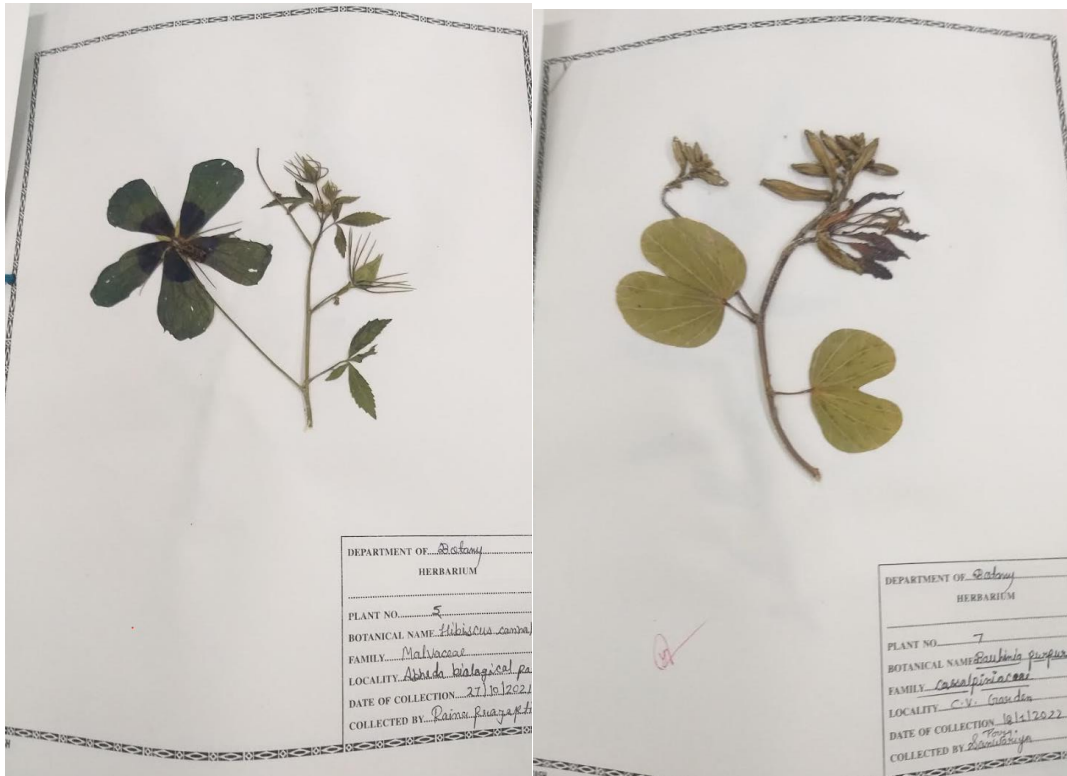
The syllabus of Botany, Chemistry, and Zoology is provided with a curriculum that incorporates learning with doing through field survey/ excursion/ project work.

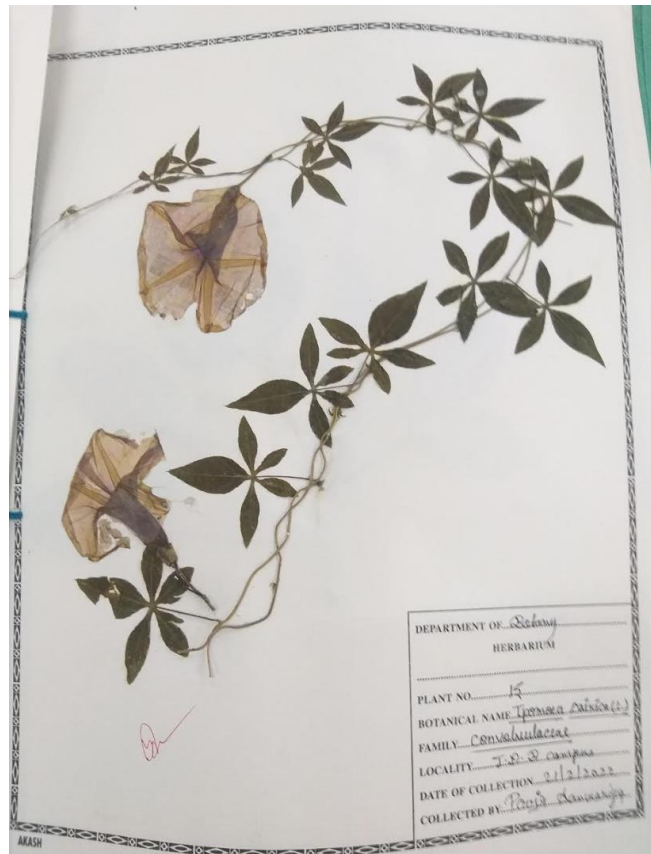
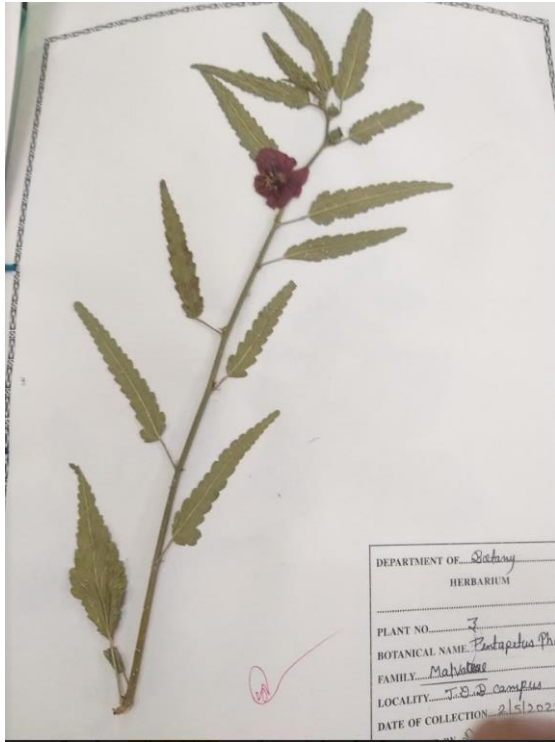


List of Seminar/ projects/ Field work

B. Sc. Part-II (Bio)




Students are allotted projects on taxonomic study of local flora. Students prepare herbarium of flora collected in various localities with an objective to identify and study the systematics of the plants collected. It is compulsory for all students.





B. SC. Part-III (Bio)

In B. SC. Part-III (Bio) students are allotted field projects to study the vegetation and ecological status of plant community. Students are also allotted projects in Economic Botany in which they prepare reports on plants of economic importance. It is compulsory for all students.

OIL YIELDING PLANTS		
<p>Common Name - Coconut Botanical name - <i>Cocos nucifera</i> Family - Arecaceae Useful Part - Leaf and fruit Chemical - Lauric acid</p> 	<p>Common Name - Mustard Botanical name - <i>Brassica campestris</i> Family - Cruciferae Useful Part - Leaf and fruit</p> 	<p>Common Name - Peanut Botanical name - <i>Arachis hypogaea</i> Family - Fabaceae Useful Part - seed</p> 
<p>Uses :- The wide applications of coconut water can be justified by its unique chemical composition of sugars, vitamins, minerals, amino acids and phytohormones.</p>	<p>Uses :- A <i>Brassica campestris-alboglabra</i> addition line and its use for gene mapping, intergenomic gene transfer and generation of trisomics</p>	<p>Uses :- The seed is used mainly as a nutritive food. The seeds have been used in folk medicine as an anti-inflammatory, aphrodisiac and decoagulant.</p>
<p>-:Submitted By:- 1. Barkha 2. Archana 3. Kritika 4. Asha</p>		

Commen Name :- Ashwagandha



Botanical Name :- Withania somnifera
Family :- Solanaceae
Parts of Uses :- Root and leaves
Chemical Composition :- The main constituents of Ashwagandha are alkaloids, Steroidal lactons within alkaloids, withanide is the main alkaloid
Uses :- Diabetes

Commen Name :- Dhatura



Botanical Name :- Datura Stramonium
Family :- Solonaceae
Chemical Composition :- The seeds of Dkatura Stramonium contain the alkalacel daturine
Uses :- The growing Dkatura plants acts likeas insect repellent thereby protects other plants from insects.

Submitted by :

Nisha Kanwar, Pooja Pathak, Nikita Meena, Nisha Meena, Neha Nayak

BOTANICAL PLANTS

Botanical Name

Wheat - Triticum Aestivum
Family - Gramini



Botanical Name

Rice - Oryza Sativa
Family - Gramini

Botanical Name

Jowar - Sorghum
Family - Gramini



Botanical Name

Makka - Zea Mays
Family - Gramini

Botanical Name

Millet - Pennisetum Glaucum
Family - Gramini



List of Seminar/ Presentation

Department of Botany

Seminar Topics

J.D.B.Govt.Girls College Kota
M.Sc. I Semester Botany 2021-2022

Assesment

S.No	Name of Students	Signature
1	Anjali Meena	Enzyme
2	Ankita Malav	Disease of wheat
3	Antima Maretha	Antibody
4	Ayushi Rathore	Allergy
5	Charul Arora	ABSENT
6	Cheshta Khinchi	Economic Importance of Gymnosperm
7	Cheshta Saxena	Transpiration
8	Chhavi Joshi	Economic Imp. of Algae and dev. of transpiration
9	Divya Gupta	Role of Biotechnology in Plant Pathology
10	Divya Jain	Heterospory and Origin of seed habit
11	Kiran Kumari Malav	Disease of Bajra
12	Honey Badania	ABSENT
13	Jyotsna Shakyawal	Cyanobacteria
14	Kajal Singh	Biopesticides
15	Khushboo Meena	Life cycle of Bryophyta
16	Kritika Vaishnav	ABSENT
17	Mithlesh Suman	Geological time scale
18	Monika Meena	ABSENT
19	Nikita Kumari Meena	ABSENT
20	Nisha Verma	Types of Fossils
21	Pallavi Buliwal	General char. of Pteridophyta and life cycle of fern
22	Pooja Jha	Photosynthesis
23	Priyanka Nagar	Protein str. & function
24	Riya Gocher	Nitrogen fixation
25	Ruby Mehta	Economic Imp. of fungi
26	Saman Khan	Disease of Grapes
27	Sangeeta nagar	Plant Growth Regulators → Auxin
28	Sofiya Khan	CAM Pathway
29	Srishti Verma	Virus
30	Usha Kiran	General characters of fungi
31	Vandana Shakyawal	Wilt of Cotton

J.D.B.Govt.Girls College ,Kota

M.Sc.II Semester Botany 2021-2022

Internal Assesment (Seminar)

S.No.	Name	Topics for Seminar
1	Anjali Meena	Vegetation Patterns of the world.
2	Ankita Malav	Analysis of Community
3	Antima Maretha	Ecological Succession
4	Ayushi Rathore	Ecosystems Organisation
5	Cheshta Khinchi	Biogeochemical Cycles
6	Cheshta Saxena	Climate Change
7	Chhavi Joshi	Carbon Sequestration
8	Divya Gupta	Green Revolution
9	Divya Jain	In-situ & Ex-situ Conservation
10	Kiran Kumari Malav	DNA - Structure & Types of DNA
11	Jyotsana Shakyawal	DNA Replication
12	Kajal Singh	DNA Damage & Repair
13	Khushboo Meena	Transcription
14	Mithlesh Suman	Restriction Enzymes
15	Nisha Verma	Protein Synthesis
16	Pallavi Buliwal	Cell Cycle
17	Pooja Jha	Techniques in cell Biology
18	Priyanka Nagar	Nucleus - structure & functions
19	Riya Gochar	Enzymes - structure & Mechanisms
20	Ruby Mehta	Carbohydrate Metabolism
21	Saman Khan	Structure & Synthesis of Amino Acids
22	Sangeeta Nagar	Fatty Acid Synthesis
23	Sofiya Khan	Secondary Metabolites
24	Srishti Verma	General Account of BSI & CSIR
25	Usha Kiran	World Centres of Domesticated Plants
26	Vandana Shakyawal	RFLP & their use in Plant Breeding

Ami

J.D.B.Govt.Girls College ,Kota
Department Of Botany M.Sc.Semister III 2021-2022

Seminar

S.No.	Name	Topic Of Seminar
1	Aastha Meena	Green House Gases
2	Anam Anjum	Pollen -Pistil Interaction
3	Anita Gautam	Double Fertilization
4	Aparna Sharma	Plant Disease Control
5	Ayushi Meena	Carbon Cycle
6	Bhagwati Malav	Pollination
7	Bhawana Sharma	Plant Bio Diversity
8	Deepika Suman	Plant Tissue Culture
9	Deepu Kumari Suman	Root Development
10	Durgesh Nandani	Flow of Energy
11	Fiza Khan	Radiation Pollution
12	Gangoure Arya	Shoot development
13	Himanshi Nagar	Water Pollution
14	Kiran Malav	Ozone Depletion and Acid Rain
15	Laad Bai	ABSENT
16	Nikki Hada	DNA Packaging
17	Nikita suman	Anti Body
18	Priyanka Meena	Ecosystem
19	Pooja Sanwariya	Phyllotaxy
20	Raina Prajapati	National Parks Of India
21	Rashika Shukla	Global Warming
22	Sadhana Malav	Herbarium Techniques
23	Shaijal Khan	Palaeo Botany
24	Suman Gocher	Solid Waste Management
25	Surbhi Singh	Angiosperms

Yashu

J.D.B.Govt.Girls College ,Kota

M.Sc.IV Semester Botany 2021-2022
Internal Assesment (Seminar)

S.No.	Name	Topics for Seminar
1	Aastha Meena	Plant Tissue Culture
2	Anam Anjum	Protoplast Culture
3	Anita Gautam	Bio reactors
4	Aparna Sharma	Recombinant DNA Technology
5	Ayushi Meena	Gene Transfer
6	Bhagwati Malav	Genomic & c-DNA Library
7	Bhawana Sharma	Molecular Markers
8	Deepika Suman	Chi Square Test Hypothesis
9	Deepu Kumari Suman	Canopy Architecture
10	Durgesh Nandani	Secondary Growth
11	Fiza Khan	Seed Dormancy
12	Gangoure Arya	Seed Dispersal Mechanisms
13	Himanshi Nagar	Plant Introduction
14	Kiran Malav	Plant Hybridization
15	Nikki Hada	Heterosis & Inbreeding Depression
16	Nikita Suman	Symptomatology
17	Priyanka Meena	Plant Disease Forecasting
18	Pooja Sanwaria	Bacterial Diseases of Plants
19	Raina Prajapati	Fungal Diseases of Plants
20	Rashika Shukla	Viral Diseases of Plants
21	Sadhna Malav	Non Pathogenic Diseases
22	Shaijal Khan	Classification of Galls
23	Suman Gocher	Nematode Diseases
24	Surbhi Singh	Symptoms Caused by Molluscs

Department of Physics

Janki Devi Bajaj Govt. Girls College Kota

MSc Physics Semester I (2021-2022)

S. No	Name of Students	Title
1	Himani Suryavanshi	Fourier Analysis
2	Anju Meena	Fresnel's Formula
3	Archana Meena	Astable Multivibrator
4	Bhawana Kanwar Rajawat	Dielectric Constant
5	Divya Soni	Feed back
6	Monika Agrawal	Phase shift Oscillator
7	Pooja Meena	Milikon's Oil Drop Method
8	Poorva Chouhan	Anharmonic Oscillator
9	Ritika Gera	Coupled oscillator
10	Shaifali Sharma	Fabry Perrot Interferometer
11	Shefreen Fatima Ansari	Planck's Constant by LED

07/8/21

Janki Devi Bajaj Govt. Girls College Kota

MSc Physics Semester II (2021-2022)

S. No	Name of Students	Title
1	Himani Suryavanshi	Energy Band gap & Diffusion Potential
2	Anju Meena	Four Probe
3	Archana Meena	Mechanical Transmission Line
4	Bhawana Kanwar Rajawat	Mono stable Multivibrator
5	Divya Soni	Common base, CE, CC Configuration
6	Monika Agrawal	Power Supply
7	Pooja Meena	Recovery Time of Diode
8	Poorva Chouhan	Operational Amplifier
9	Ritika Gera	High Pass / Low Pass Filter
10	Shaifali Sharma	Phase shift Oscillator
11	Shefreen Fatima Ansari	Coupled Oscillator

07/8/21

Janki Devi Bajaj Govt. Girls College Kota

MSc Physics Semester III (2021-2022)

S.No	Name of Students	Title
1	Alka Verma	Frequency & wavelength of Microwave
2	Gayatri Suwalaka	Bragg's Diffraction
3	Ishika Gupta	VSWR & Reflection Coeff. ^v for Microwave
4	Pratishtha Suwalaka	G.M Counter - Exp ^v using Al-foil
5	Sapna Choudhary	Spark Chamber
6	Seetal Sisodiya	Scintillation Counter - Energy measurement
7	Shivani Gautam	Plasma Chamber
8	Swarna Agrawal	Modulus of rigidity
9	Vishaka Sisodiya	Parametric Amplifier

07/8/2021

Janki Devi Bajaj Govt. Girls College Kota

MSc Physics Semester IV (2021-2022)

S.No	Name of Students	Title
1	Alka Verma	Doren Oscillator
2	Gayatri Suwalaka	Frank-Hertz experiment
3	Ishika Gupta	Air Track
4	Pratishtha Suwalaka	Dispersion Relation
5	Sapna Choudhary	E.S.R. study
6	Seetal Sisodiya	LC Transmission line
7	Shivani Gautam	Hysteresis study
8	Swarna Agrawal	Compton Scattering
9	Vishaka Sisodiya	Quinke's Method

07/8/21

JANKI DEVI BAJAJ GOVERNMENT GIRLS COLLEGE KOTA

M.SC. ZOOLOGY (SEMESTER-I) 2022

S.no.	NAME	TOPIC
1	AKANSHA SONI	PLASMA MEMBRANE
2	AMITA GUGALIYA	VITAMINE
3	ANITA MEENA	COMPOUND MICROSCOPE
4	ANJALI YADAV	CHROMATOGRAPHY
5	ANJANA NAGAR	AMOEBOID FEEDING
6	ANJU KUMARI SONI	LCOMOTION IN PROTOZOAN
7	ANKITA JANGID	LYSOSOME
8	BAZIGA ZAMIL ANSARI	CELL WELL
9	FIZA KHANAM	RIBOSOME
10	HARPREET KAUR	MITOCHONDRIA
11	JYOTI NAGAR	CENTRIFUGATION
12	KAJAL RAJORA	REPRODUCTION IN PRTOZOANES
13	KIRAN NAGAR	REPRODUCTION IN PRTOZOA
14	KOMAL GUJARS	ENDOPLASMIC RETICULUM
15	KUNIKA SHARMA	MITOSIS
16	MANEESHA KUMARI MEENA	ADAPTIVE RADIATION
17	NEETU MEENA	ECOSYSTEM STABILITY
18	NEETU NAGAR	PROTEIN
19	NOREEN NAGAR	MIMICRY
20	POOJA MEENA	MEIOSIS
21	PREETI AKHAND	GENETIC DRIFT & NATURAL SELECTION
22	RASHI MALAV	GOLGI BODY
23	SAKSHI JAIN	ENZYME
24	SHAYAM REKHA MEENA	DNA REPLICATION
25	SHIVANI SUMAN	GEOLOGICAL TIME SCALE
26	SUCHITRA SAHU	CILIARY MOVEMENT
27	SUMAN KANOJIYA	CHROMOSOMES
28	TEENA GOUTAM	AMOEBOID MOVEMENT
29	VARISHA KHAN	NUCLEUS
30	VARTIKA SHARMA	HORMONES

Jyoti Suthan

JANKI DEVI BAJAJ GOVERNMENT GIRLS COLLEGE KOTA

M.SC. ZOOLOGY (SEMESTER-II) 2022

S.no.	NAME	TOPIC
1	AKANSHA SONI	IMMUNITY
2	AMITA GUGALIYA	BIOTECHNOLOGY IN INDUSTRY
3	ANITA MEENA	IMMUNE CELL
4	ANJALI YADAV	BIOTECHNOLOGY IN MEDICINE
5	ANJANA NAGAR	DIGESTIVE SYSTEM
6	ANJU KUMARI SONI	BIOREACTOR & DOWNSTREAM PROCESSING
7	ANKITA JANGID	REGULATION OF RESPIRATION
8	BAZIGA ZAMIL ANSARI	STRUCTURE FUNCTION OF MUSCLE FIBRE IN VERTEBRATES
9	FIZA KHANAM	EAR
10	HARPREET KAUR	PCR
11	JYOTI NAGAR	CARDIOVASCULAR DISEASE
12	KAJAL RAJORA	CARDIAC CYCLE
13	KIRAN NAGAR	DIGESTION & ABSORPTION OF FOOD IN GASTROINTESTINAL TRACT
14	KOMAL GUJARS	RNA
15	KUNIKA SHARMA	ANTIBODIES
16	MANEESHA KUMARI MEENA	VECTORS
17	NEETU MEENA	RESTRICTION ENZYME
18	NEETU NAGAR	IVF
19	NOREEN NAGAR	BIOTECHNOLOGY IN AGRICULTURE
20	POOJA MEENA	WORK OF MENDEL
21	PREETI AKHAND	KIDNEY
22	RASHI MALAV	MONOHYBRID & DIHYBRID CROSS
23	SAKSHI JAIN	EYE
24	SHAYAM REKHA MEENA	LINKAGE GROUP
25	SHIVANI SUMAN	LYMPHOID ORGAN
26	SUCHITRA SAHU	OBESITY & STARVATION
27	SUMAN KANOJIYA	GENE THERAPY
28	TEENA GOUTAM	LAW OF HEREDITY & THERE VARIATIONS
29	VARISHA KHAN	CELL CULTURE
30	VARTIKA SHARMA	DNA STRUCTURE & TYPES

Jyoti Suttan

JANKI DEVI BAJAJ GOVERNMENT GIRLS COLLEGE KOTA

M.SC. ZOOLOGY (SEMESTER-III) 2022

S.N.	NAME	COMMON PAPER	SPECIAL PAPER
1	SWASTHI CHODHARY	EVOLUTION OF MAN	MAJOR FOREST TYPES OF INDIA
2	JOYA PRAVEEN	FOOD WEBS AND FOOD CHAINS	MAMMALIAN SKIN AND ITS DERIVATIVES
3	JYOTI SAINI	ORIGIN OF MAMMALS	WATERSHED MANAGEMENT
4	KAVITA NAGAR	ORIGIN AND EVOLUTION OF BIRD	MALNUTRITION
5	MUSKAN SHARMA	SOCIAL LIFE OF ANIMALS	BIOLOGY OF INDIAN LIFE
6	PRATIKSHA JAIN	BIO GEOCHEMICAL CYCLE	N-C CYCLE
7	RAKSHA PARETA	FOSSIL	FOREST PROTECTION
8	RASHI GAUTAM	LIMITING FACTOR	SNAKE BITE AND FIRST-AID
9	RENU MEENA	NUTRIENTS	WILDLIFE HEALTH MANAGEMENT
10	SHAHISTA ASHIFAQUI	DEHYDRATION	BIODIVERSITY
11	SHALU BADGUJAR	BONY FISHES	A BRIEF OVERVIEW ON WILDLIFE MANAGEMENT
12	SHIVANI JAGID	POLLUTION	POPULATION
13	SIMRAN GOUR	ORIGIN AND ANCESTRY OF REPTILES	STARVATION
14	YASHODA GOUSWAMI	CLASSIFICATION OF PICES	SILVICULTURE SYSTEM

Janki Sutar

JANKI DEVI BAJAJ GOVERNMENT GIRLS COLLEGE KOTA

M.SC. ZOOLOGY (SEMESTER-IV) 2022

S.NO.	NAME	COMMON PAPER	SPECIAL PAPER
1	SWASTHI CHODHARY	INSTINCTIVE BEHAVIOUR	REMOTE SENSING
2	JOYA PRAVEEN	ECOTOURISM	HUMAN WILDLIFE CONFLICT
3	JYOTI SAINI	REPRODUCTIVE BEHAVIOUR IN FISH	WILDLIFE TOXICOLGY
4	KAVITA NAGAR	BEHAVIOUR IN INSECTS	CONSERVATION ETHICS AND VALUES
5	MUSKAN SHARMA	BEHAVIOUR OF DOMESTIC & ZOO ANIMALS	SOCIAL ORGANIZATION
6	PRATIKSHA JAIN	SIGNIFICANCE OF FETILIZATION	POACHING METHODS
7	RAKSHA PARETA	BEHAVIOUR OF DOMESTIC & ZOO ANIMALS	CLASSIFICATION OF HAIR CHARACTERSTICS
8	RASHI GAUTAM	SPERMATOGENESIS	TYPES OF CONFLICT, CAUSES AND PREVENTION
9	RENU MEENA	ORIENTATION	PROJECT TIGER
10	SHAHISTA ASHFAQUI	OOGENESIS	ELEPHANT WILDLIFE CONFLICT
11	SHALU BADGUJAR	PHEROMONES & INSECT COMMUNICATION	ILLEGAKL WILDLIFE TRADE
12	SHIVANI JAGID	LEARNING	PROJECT ELEPHANT
13	SIMRAM GOUR	METAMORPHOSIS IN AMPHIBIA	GROUP LIVING IN ANIMALS
14	YASHODA GOUSWAMI	METHODS OF STUDYING BHAVIOUR	CONSEQUENCES OF BIOMAGNIFICATION

Jitendra Satter

JDB GOVERNMENT GIRLS COLLEGE, KOTA

Department of Chemistry

M.SC I SEM.(2021-2022), PAPER I ,INORGANIC CHEMISTRY. PAPER II, ORGANIC CHEMISTRY. PAPER III, PHYSICAL CHEMISTRY

S.NO.	NAME OF STUDENTS	TOPIC OF SEMINAR
1	NIKKI KUMARI CHAURSIY	VSEPR THEORY AND ITS LIMITATION
2	SONAM RATHORE	GENERAL TRENDS IN ACID BASE BEHAVIOUR OF BINARY OXIDES
3	MONIKA PRAJAPTI	LIMITATIONS OF CFT
4	MEGHA PARAJAPTI	EXPLAIN MOT
5	MINAKSHI NIKHAR	SYMMETRY ASPECTS OF MOLECULAR VIBRATIONS OF WATER AND AMMONIA
6	KRIKKA VAISHNAV	EXPLAIN HUCKEL'S RULE
7	PRIYA KANWAR	EXPLAIN ANTI AROMATICITY, HOMOAROMATICITY
8	ANITA MEENA	THERMODYNAMIC AND KINETIC ASPECTS OF REACTIONS
9	PRERNA MITTAL	RESONANCE AND FIELD EFFECTS
10	PRGYA JAIN	TRANSITION STATE AND INTERMEDIATE
11	POOJA SHARMA	TYPE OF REACTION MECHANISM
12	ANJALI UPADHAYA	STABILITY AND REACTIVITY OF CARBOCATIONS
13	PRIYANKA SUMAN	STABILITY AND REACTIVITY OF CARBOANIONS
14	JAYA GAUR	CLASSICAL AND NON CLASSICAL CARBOCATIONS
15	KAVITA KUMARI	SCHRODINGER EQUATION
16	ZEBA	DYNAMICS OF CHAIN REACTIONS
17	ALFIYA	GIBBS ADSORPTION ISOTHERM
18	KOMAL MAROTHA	SURFACE ACTIVE AGENTS AND THEIR CLASSIFICATIONS
19	ANJALI MAHAWAR	METHODS MOLECULAR MASS DETERMINATION
20	RITU	EXPLAIN FRIES REARRANGEMENT
21	BHUVNESHWAR SHAKYAV	MECHANISM OF REIMER-TIEMANN REACTION
22	SUREKHA MEENA	QUANTATIVE TREATMENT OF REACTIVITY IN SUBSTRATS
23	MANISHA KUMARI MEEN	QUANTATIVE TREATMENT OF REACTIVITY IN ELECTROPHILES
24	DAMINI MEENA	EXPLAIN LEAVING GROUP AND REACTION MEDIUM
25	PRIYA GOCHER	NEIGHBOURING GROUP PARTICIPATION BY SIGMA AND PIE BONDS
26	AYUSHI SHARMA	DYNAMICS OF UNIMOLECULAR REACTIONS
27	YASHI GUPTA	EXPLAIN SPECTROPHOTOMETRY AND ITS USES
28	ALISHA SHEIKH	INCLUSION COMPOUND ,CATENANES
29	ADITI BOHRA	CHAIRALITY DUE TO HALICAL SHAPES, INVERTOMERS EXPLAIN

Renu

30	MANOGYA JAIN	EXPLAIN AMBIENT NUCELOPHILE
31	JYOTI SHARMA	MECHANISM OF HOUBEN HOESCH REACTION
32	TAPANSHI JAIN	DYNAMICS OF UNIMOLECULAR REACTIONS
33	REENA SHARMA	LAPLACE EQUATION

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JDB GOVERNMENT GIRLS COLLEGE, KOTA

Department of Chemistry

M.SC II SEM(2021-2022) PAPER I , INORGANIC CHEMISTRY. PAPER II ORGANIC CHEMISTRY. PAPER III

S.NO.	NAME OF STUDENTS	TOPIC OF SEMINAR
1	NIKKI KUMARI CHAURSIYA	REACTIVITY OF METAL COMPLEXES
2	SONAM RATHORE	KINETIC APPLICATION OF VALANCE BOND THEORY
3	MONIKA PRAJAPTI	KINETIC APPLICATION OF CFT
4	MEGHA PARAJAPTI	RECTIONS WITHOUT METAL LIGAND BOND CLEAVAGE
5	MINAKSHI NIKHAR	SUBSTITUTION REACTION IN SQUARE PLANAR COMPLEXES
6	KRITIKA VAISHNAV	CROSS REACTION ,INERSPHERE TYPE REACTION
7	PRIYA KANWAR	EXPLAIN MARCUS,HUSH THEORY
8	ANITA MEENA	ORGE DIGRAMS FOR TRANSITION METAL CMPLXEX
9	PRERNA MITTAL	MAGNETIC EXCHANGE AND COUPLING AND SPIN CROSSOVER
10	PRGYA JAIN	METAL CARBONYLS OF IRON COBALT STRUCTURE AND BONDING
11	POOJA SHARMA	EXPLAIN HIGHER BORANES
12	ANJALI UPADHAYA	METAL CARBONYLS AND HALIDE CLUSTERS
13	PRIYANKA SUMAN	TYPES OF FREE RADICAL REACTION
14	JAYA GAUR	REACTIVITY OF ALIPHATIC AND AROMATIC SUBSTARTE AT BRIDGE HEAD CARBON
15	KAVITA KUMARI	MECHANISM OF SANDMYER REACTION
16	ZEBA	MECHANISM OF HUNSDICKER REACTION
17	ALFIYA	MECHANISN AND ORIENTATION IN PYROLYTIC REACTION
18	KOMAL MAROTHA	EXPLAIN RIGI AND CHIMO SELECTIVITY
19	ANJALI MAHAWAR	HYDROGENATION OF DOUBLE, TRIPLE AND AROMATIC RINGS
20	RITU	GIVE MECHANISM OF ALDOL CONDENSATION
21	BHUVNESHWAR SHAKYAWAL	MECHANISM OF ROBINSON ANNULATION
22	SUREKHA MEENA	HYDROLYSIS OF ASTER AND AMIDES
23	MANISHA KUMARI MEENA	PHOTOCHEMICAL REACTIONC, PRINCIPLE AND TYPE OF EXCITTATION
24	DAMINI MEENA	INTER AND INTRA MOLCLULAR REACTION OF OLIFINIC BONDS
25	PRIYA GOCHER	PHOTO REDUCTION ,PHOTO FRIES REARRANGEMENT
26	AYUSHI SHARMA	CYCLOHEXANONES AND CYCLOHEXADIENONES
27	YASHI GUPTA	3,3 AND 5,5 SIGMATROPIC REARRANGEMENT
28	ALISHA SHEIKH	COPE AND AZCOPE REAGGANGEMENT
29	ADITI BOHRA	CYCLOADDITION REACTION ANTRAFACIAL AND SUPRA FACIAL
30	MANOGYA JAIN	EXPLAIN LAW OF THERMODYNAMICS
31	JYOTI SHARMA	CONCEPT OF FUGACITY, DETERMINATION OF FUGACITY
32	TAPANSHI JAIN	EXPLAIN DEBY HUCKEL THEORY
33	REENA SHARMA	DISTRIBUTION LAW APPLICATION METAL AND HELIUM

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JDB GOVERNMENT GIRLS COLLEGE, KOTA

Department of Chemistry

M.sc Semester III (2021-22) PAPER I(CHROMATOGRAPHY) Paper-II, (SPECTROSCOPY), Paper-III
(ORGANIC SYNTHESIS) PAPER IV(HETEROCYCLIC CHEMISTRY)

S. no.	Student name	Topic of seminar
1	AFEefa ANWAR	PRINCIPAL AND TYPES OF CHROMATOGRAPHY
2	ALISHA	MECHANISM OF SEPARATION AND TECHNIQUES INVOLVED
3	AMISHA SHARMA	PRINCIPAL OF PAPER CHROMATOGRAPHY
4	ANTIMA MEENA	EXPLAIN SUPER CRITICAL FLUID CHROMATOGRAPHY
5	ASHWANI BHARGAV	PREPARATION AND TECHNIQUES OF TLC
6	BHAGYSHREE JAIN	ADVANTAGE OF HPTLC
7	JYOTI MATANI	PRINCIPLE AND APPLICATION FLASH CHROMATOGRAPHY
8	KHUSHBU GOYAL	THEORY OF CAPILLARY ELECTRO CHROMATOGRAPHY
9	KOMAL VERMA	PRINCIPLES OF ABSORPTION SPECTROSCOPY
10	MADHU YADAV	EXPLAIN CHROMOPHORES AND AUXOCHROMES
11	MANISHA KUMARI MALAV	FACTORS AFFECTING POSITION OF UV BANDS
12	MEENAKSHI LAKHNOT	QUALITATIVE AND QUANTITATIVE APPLICATION OF UV SPECTROSCOPY
13	NEHA MEENA	EXPLAIN NMR SPECTROSCOPY
14	PINKI SINGH	APPLICATION OF C13 NMR SPECTROSCOPY
15	PRAMILA MALAV	BASIC PRINCIPLE OF MASS SPECTROSCOPY
16	PRIYA VERMA	INTRODUCTION, CYNTHONES AND SYNTHETIC EQUIVALENT
17	PRIYANKA MEHTA	REVEAL OF POLARITY, CYCLIZATION, AMINE SYNTHESIS
18	SANJANA RATHORE	EXPLAIN ONE GROUP C-C DISCONNECTION
19	SHIVANI KANWAR	EXPLAIN TWO GROUP C-C DISCONNECTION
20	TANU SHRINGI	MECHANISM OF PINACOLE PINACOLONE REARRANGEMENT
21	TEENA SEN	EXPLAIN BENZYL BENZILIC ACID REACTION
22	APARAJITA KANWAR SOLAN	BENZILIDINE REARRANGEMENT
23	JYOTIKA MEENA	CHEMICAL BEHAVIOUR CLASSIFICATION AROMATICITY IN HETERO CYCLES
24	KIRAN UMARCHIYA	STEREO ELECTRONIC IN SATURATED SIX MEMBERED HETERO CYCLES
25	NEHA GAUR	SYNTHESIS AND REACTION AZIRIDINES
26	SHIVANI AGRAWAL	SYNTHESIS AND REACTION OF OXAZIDINES

Rem

JDB GOVERNMENT GIRLS COLLEGE, KOTA

Department of Chemistry

M.sc Semester IV (2021-22) Paper-I, (ENVIRONMENTAL CHEMISTRY) Paper-II, (RECENT METHODS OF ORGANIC SYNTHESIS), Paper-III (CHEMISTRY OF NATURAL PRODUCTS) PAPER IV(MEDICINAL CHEMISTRY)		
S. no.	Student name	Topic of seminar
1	AFFEEFA ANWAR	MAJOR SOURCES OF AIR POLLUTION
2	ALISHA	DISCUSS SMOG FORMATION AND ACID RAIN
3	AMISHA SHARMA	GREEN HOUSE EFFECT AND GLOBAL WARMING
4	ANTIMA MEENA	OZONE DEPLETION, AUTOMOBILE EMISSIONS
5	ASHWANI BHARGAV	EXPLAIN ALTERNATIVE FUELS WITH EXAMPLES
6	BHAGYSHREE JAIN	TYPES OF WATER POLLUTION AND WATER POLLUTANTS
7	JYOTI MATANI	EXPLAIN BOD, COD
8	KHUSHBU GOYAL	GENERAL METHODS TO CONTROL WATER POLLUTION
9	KOMAL VERMA	SOIL POLLUTION BY INDUSTRIAL WASTE
10	MADHU YADAV	CONTROL OF DOMESTIC AND INDUSTRIAL WASTE
11	MANISHA KUMARI MALAV	EXPLAIN SOIL REMEDIATION
12	MEENAKSHI LAKHNOT	PRINCIPLE OF INDUSTRIAL WASTE MANAGEMENT
13	NEHA MEENA	WASTEWATER TREATMENT AND MANAGEMENT
14	PINKI SINGH	EFFECT OF RADIO ACTIVE POLLUTION ON POWER PLANTS AND POLYMERS
15	PRAMILA MALAV	INTRODUCTION TO HOMOGENEOUS AND HETEROGENEOUS CATALYST
16	PRIYA VERMA	PHASE TRANSFER AND BIO CATALYST
17	PRIYANKA MEHTA	TYPES AND EXAMPLES OF GREEN SOLVENT
18	SANJANA RATHORE	APPLICATION OF SUPER CRITICAL LIQUIDS IN DRY CLEANING
19	SHIVANI KANWAR	STEREOCHEMISTRY AND SYNTHESIS OF CITRAL, ZERONIOL
20	TANU SHRINGI	STEREOCHEMISTRY AND SYNTHESIS OF MENTHOL, FARNESOL
21	TEENA SEN	CLASSIFICATION OF HETEROCYCLIC RING BASED ON NITROGEN
22	APARAJITA KANWAR SOLANKI	STEREOCHEMISTRY AND SYNTHESIS OF EPHEDRINE AND CUNINE
23	JYOTIKA MEENA	STEREOCHEMISTRY AND SYNTHESIS OF NICOTINE AND ATROPINE
24	KIRAN UMARCHIYA	DRUG DESIGNING AND ITS DEVELOPMENT
25	NEHA GAUR	EXPLAIN PHARMACO KINETICS
26	SHIVANI AGRAWAL	EXPLAIN PHARMACO DYNAMICS

Rem

Field Visit

Department of Botany

जानकी देवी बजाज राजकीय कन्या महाविद्यालय, कोटा

क्रमांक: वनस्पतिशास्त्र विभाग / जादेब / 2022 /

दिनांक: 22.03.2022

प्रेस समाचार

विश्व जल दिवस पर छात्राओं द्वारा शैक्षिक भ्रमण

जानकी देवी बजाज राजकीय कन्या महाविद्यालय कोटा के वनस्पतिशास्त्र विभाग द्वारा विश्व जल दिवस के अवसर पर प्राचार्य डॉ. अनिता कोठारी, विभागाध्यक्ष डॉ. प्रतिमा श्रीवास्तव के सहयोग से सहायक आचार्य डॉ. ममता चौधरी के निर्देशन में स्नातक, स्नातकोत्तर छात्राओं व शोधार्थियों द्वारा भारतीय मृदा व जल संरक्षण संस्थान, कोटा में शैक्षिक भ्रमण किया गया।

इस अवसर पर संस्थान प्रमुख डॉ. अशोक कुमार द्वारा जल स्रोतों के संरक्षण, कम जल में अधिक पैदावार, किसानों को जल संरक्षण आधारित कृषि तकनीक प्रदान करने की जानकारी दी गई। वैज्ञानिक डॉ. कला द्वारा वन संरक्षित क्षेत्रों के विकास व रख-रखाव की जानकारी दी गई। व्याख्यान के पश्चात् सभी विद्यार्थियों को संस्थान के शोध क्षेत्रों में स्थित विभिन्न उपकरणों जैसे-मृदा तापमापी, वायुमापी, मौसम संयंत्र की जानकारी दी गई। इस अवसर पर महाविद्यालय की वनस्पतिशास्त्र विभाग की डॉ. शुचिता जैन, डॉ. अल्पना जौहरी व श्रीमती अनीता मालव उपस्थित रहीं।

डॉ. अनिता कोठारी
प्राचार्य

22.03.2022

जा.दे.ब.राज.कन्या महाविद्यालय
कोटा

विश्व जल दिवस : कॉलेज और शोध छात्राओं ने जाने जल बचाने के उपाय जल स्रोतों के संरक्षण की आवश्यकता

पत्रिका न्यूज नेटवर्क
patrika.com

कोटा. जानकीदेवी वजाज राजकीय कन्या महाविद्यालय, कोटा के वनस्पतिशास्त्र विभाग की ओर से विश्व जल दिवस के अवसर पर मंगलवार को स्नातक, स्नातकोत्तर की छात्राओं व शोधार्थियों को भारतीय मृदा व जल संरक्षण संस्थान, कोटा में शैक्षिक भ्रमण कराया गया। यहां वैज्ञानिकों ने जल स्रोतों के संरक्षण की आवश्यकता पर जोर दिया।

वैज्ञानिक डॉ. अशोक कुमार ने जल स्रोतों के संरक्षण, कम जल में अधिक पैदावार, किसानों को जल संरक्षण आधारित कृषि तकनीक प्रदान करने की जानकारी दी। वैज्ञानिक डॉ. कला ने वन संरक्षित क्षेत्रों के विकास व रख-रखाव की जानकारी दी। विद्यार्थियों को संस्थान के शोध क्षेत्रों में स्थित विभिन्न उपकरणों जैसे-मृदा तापमापी, वायुमापी, मौसम संयंत्र की जानकारी दी गई। कॉलेज प्राचार्य डॉ. अनिता कोठारी, विभागाध्यक्ष डॉ. प्रतिमा श्रीवास्तव और सहायक आचार्य डॉ. ममता चौधरी ने नई पीढ़ी को जल संरक्षण सीख देने पर जोर दिया। इस मौके पर डॉ. सुजिता जैन



कोटा. विश्व जल दिवस पर कॉलेज और शोध छात्राओं ने जाने जल बचाने के उपाय

डॉ. अल्पना जौहरी व नीता मालव उपस्थित रही।

S.NO	Name of Student	Class	Sign.
1.	Nikki Hads		Sign.
2.	Anam Anjum	M.Sc III Sem	Nikki
3.	Kajal Singh	M.Sc. Sem 3	Anam Anjum
4.	SOFIYA KHAN	M.Sc. I sem.	Kajal Singh
5.	Ayushi Rathore	M.Sc. I Sem	Ayushi
6.	Megha Prayapati	M.Sc. I Sem	Megha
7.	Srujanti Verma	M.Sc. I sem Chemistry	Srujanti
8.	Anjali Meena	M.Sc. I Sem Botany	Anjali
9.	Divya Gupta	M.Sc. I Sem Botany	Divya
10.	Ayushi Sharma	M.Sc. I Sem Botany	Ayushi
11.	Usha Kishan	M.Sc. I Sem Chemistry	Usha Kishan
12.	Shivani Rathore	M.Sc. I sem Bot	Shivani Rathore
13.	Manasvini	B.Sc. I year	Manasvini
14.	Shauzeel Khan	B.Sc. I year Maths.	Shauzeel Khan
15.	Nikita Suman	M.Sc. Sem III Botany	Nikita Suman
16.	Himanshi Nagar	M.Sc. Sem III Botany	Himanshi Nagar
17.	Figa Khan	M.Sc. Sem III Botany	Figa
18.	Aastha Meena	M.Sc. Sem III	Aastha Meena
19.	Sadhna Malav	M.Sc. Sem III	Sadhna Malav
20.	Pooja Samalajyoti	M.Sc. Sem III Botany	Pooja Samalajyoti
21.	Prityanka Meena	" "	Prityanka
22.	Deepu Kumari Suman	" "	Deepu
23.	Suman Crocher	" "	Suman
24.	Shahana Khokhar	B.Sc. Maths Sem I & II	Shahana
25.	Anshu	B.Sc. -	Anshu
26.	Avijal vijayvarjya	Research scholar	Avijal vijay
27.	Sunil meena	Research scholar	Sunil
28.			
29.			
30.			
31.			
32.			

रसायन शास्त्र विभाग

दिनांक 8 अप्रैल 2022 को जानकी देवी बजाज राजकीय कन्या महाविद्यालय कोटा के रसायन शास्त्र विभाग की स्नातकोत्तर स्तर की छात्राओं को विभागाध्यक्ष डॉ रेनू त्यागी रेनू त्यागी, सह आचार्य डॉ सरस्वती अग्रवाल, डॉ. आरती, डॉ विजय देवडा तथा सहायक आचार्य डॉ जागृति मीणा सुश्री प्रीति बेरवा के सानिध्य में विज्ञान केंद्र, विज्ञान एवं प्रौद्योगिकी विभाग कोटा में शैक्षणिक भ्रमण के लिए ले जाया गया यहां डीएसटी में कार्यरत इनफार्मेशन असिस्टेंट

श्री परमेश कुमार मेघवाल व नीरज राठौर ने छात्राओं को विभिन्न प्रकार के मॉडल जैसे प्रकाश का प्रभाव, हवा का दबाव, अनंत कुआ, विजुलाइजिंग साउंड जादुई नल, भ्रामक गेंदसीधी, कलाबाजी छड आदि के माध्यम से उनके पीछे छुपि विज्ञानं तथा विभिन्न सिधान्तों को समझाया NPCIL जो की भारत में न्यूक्लियर विधुत सयंत्र का निर्माण करते है तथा प्रचार करते है द्वारा निर्मित स्वचालित न्यूक्लियर विधुत सयंत्रमोड मॉडल की सहायता से छात्राओ ने इसके मुख्य पहलुओं को समझा और जाना की परमाणु उर्जा परमाणु विखंडन से आती है , इस सयंत्र से भाप उर्जा को विधुत उर्जा मे परिवर्तित किया जाता है , साथ छात्राओ प्रदर्शनी के माध्यम से गाँधी जी के समय में उपयोगी वैज्ञानिक तकनीकी को भी जाना छात्राओ ने शैक्षणिक भ्रमण में बहुत उत्साह दिखाया ।



Internship under KARYA (Knowledge Augmentation through Research in Young Aspirants) Scheme Department of Science and Technology-Rajasthan

Under this scheme students of Basic Science (Physics, Chemistry, Botany, Zoology and Maths) are provided opportunities to work on short term projects at Institutes of eminence IITs, CSIR's, DST's DBT's etc for 8 weeks during summer vacations. The selected students are provided fellowship also. Faculty from all the departments guide and helps the students during preparation of their proposals. During 2021-22, total 55 students have applied for the fellowship but the selection list of the students is awaited.

List of Applicant DST Rajasthan KARYA Programm- 2021-22

S.no.	Name	Class
1	Devika Thakur	B.Sc. Part- III BIO
2	Sakshai Katoch	B.Sc. Part- III BIO
3	Muskan Gupta	B.Sc. Part- III BIO
4	Priyanka Sharma	B.Sc. Part- III Math
5	Pallavi Kumari	B.Sc. Part- III Math
6	Saloni Kashyap	B.Sc. Part- III Bio
7	Navya Bhandri	B.Sc. Part- III Bio
8	Mansi Yadav	B.Sc. Part- III Bio
9	Manisha Kumari	B.Sc. Part- III Math
10	Nikita Caudhary	B.Sc. Part- III Math
11	Ishika Nama	B.Sc. Part- III Math
12	Manisha	B.Sc. Part- III Math
13	Razeen Faruqui	B.Sc. Part- III Math
14	Muskan Gupta	B.Sc. Part- III Math
15	Anjali Meena	M.sc. Bot
16	Laxmi Kumari Meena	B.Sc. Part- II Math
17	Ayushi Sharma	M.sc. Chem. (pre)
18	Kjal Singh	M.sc. Bot
19	Divya Gupta	M.sc. Bot
20	Yashika Khandelwal	B.Sc. Part- II Bio
21	Sofiya Khan	M.sc. Bot
22	Chaya Pal	B.Sc. Part- III Math
23	Vruni Sharma	B.Sc. Part- II Bio
24	Divya Singhal	B.Sc. Part- II Bio
25	Laxita Gautam	B.Sc. Part- II Bio
26	Shivani Rathor	B.Sc. Part- III Bio
27	Priyam Choudhary	B.Sc. Part- III Bio
28	Suman Meena	B.Sc. Part- II Bio
29	Aaruhi Garg	B.Sc. Part- III Bio
30	Aditi Tiwari	B.Sc. Part- III Math
31	Nikki Kumari Chorasuya	M.sc. Chem. (pre)

32	Harshita Gautam	B.Sc. Part- II Math
33	Reena Singhal	B.Sc. Part- II Bio
34	Aditi Bohara	M.sc. Chem. (pre)
35	Megha Prajapati	M.sc. Chem. (pre)
36	Kajal	B.Sc. Part- III Math
37	Jagrati Saini	B.Sc. Part- III Math
38	Khushboo	B.Sc. Part- III Math
39	Suman Meena	B.Sc. Part- III Math
40	Komal Singhal	B.Sc. Part- III Bio
41	Anjulata Meena	B.Sc. Part- III Math
42	Nikita Sawariya	B.Sc. Part- II Bio
43	Kajal Gaur	B.Sc. Part- III Math
44	Rashmi Gupta	B.Sc. Part- II Bio
45	Ayushi Rathor	M.sc. Bot
46	Divya Jain	M.sc. Bot
47	Shristi Verma	M.sc. Bot
48	Pooja Meena	M.sc. Zoology
49	Jyoti Nagar	M.sc. Zoology
50	Akansha Soni	M.sc. Zoology
51	Noreen Khan	M.sc. Zoology
52	Neetu Meena	M.sc. Zoology
53	Preeti Akhand	M.sc. Zoology
54	Syam Reha Meena	M.sc. Zoology
55	Harpreet Kaur	M.sc. Zoology


प्राचार्य
 जा. दे. ब. राजकीय कन्या महाविद्यालय, कोटा