

# GOVERNMENT DEGREE COLLEGE R.S. PURA, JAMMU

1



## DEPARTMENT OF BOTANY

**YEAR OF ESTABLISHMENT : 2010-2011**

**Initial Enrollment of students of Sem. I : 23**

**Current Enrollment of students :124 (Sem. I, III & V)**

**Number of Sanctioned Posts of teaching Faculty : 02**

**Year of first pass out batch: 2013**

**Number of Pass out batches: 08**





# AIMS AND OBJECTIVES

- holistic development and academic excellence to contribute effectively to the understanding of the subject.
- to develop an aptitude towards science and nature.
- to equip the students with the basic skills in identifying and labeling different plants.
- to impart quality education in the field of Botany enabling our students to confidently face the job market.
- to sensitize the students towards the need for keeping the environment clean and conserve our natural resources.

## DEPARTMENTAL PROFILE

### TEACHING/NON- TEACHING FACULTY

Sl. No.	NAME		DESIGNATION	QUALIFICATION
	MS. BINDU KUMARI HEAD OF DEPARTMENT		ASSISTANT PROFESSOR	M.SC., M. PHIL., NET
	MR. VISHAL SHARMA		ASSISTANT PROFESSOR	M.SC., M. PHIL., NET SET
	MS. SUKHWINDER KAUR		ASSISTANT PROFESSOR	M.SC., B.ED, NET, GATE
	MS. RAJINDER KOUR		LAB. ASSISTANT	M.A. M.ED.

# DEPARTMENTAL PROFILE

## TEACHING FACULTY

NAME	DESIGNATION	QUALIFICATION	DATE OF JOINING IN HED	DATE OF JOINING GDC, R.S.PURA	TEACHING EXPERIENCE (years)	NO. OF CONFERENCES/WORKSHOPS/ SEMINARS/FDPS ATTENDED	NO. OF PUBLICATIONS
MS. BINDU KUMARI HEAD OF DEPARTMENT	ASSISTANT PROFESSOR	M.SC., M. PHIL., NET	30.10.2009	29/04/2013	13	CONFERENCES-01 WORKSHOPS-04 SEMINARS-10 FDPS -02	3
MR. VISHAL PHARMA	ASSISTANT PROFESSOR	M.SC., M. PHIL., NET, SET	04/07/2017	24/07/2017	5	CONFERENCES-03 WORKSHOPS-0 SEMINARS-02 FDPS -02	1
MS. SUKHWINDER KAUR	ASSISTANT PROFESSOR	M.SC., B.ED, NET,GATE	06/07/2017	12/09/2019	5	CONFERENCES-0 WORKSHOPS-02 SEMINARS-03 FDPS -04	1

# **WORKSHOPS/SEMINARS/CONFERENCES / FDPS** **( 2016-2021)**

## **DR. BINDU KUMARI (HOD)**

Participated in Botany and Agriculture Section in the 12<sup>th</sup> JK Science Congress on the theme "Science and Technology : Emerging Trends and Innovations" held at University of Jammu, Jammu from March 2 to 4, 2020.  
Participated in Seven Days Online Shorty Course Training on "Communication and Personality Development" Organized by Division of Silviculture and Agroforestry, Faculty of Forestry in collaboration with IDP- NARS, Srinagar, Kashmir from September 29<sup>th</sup> to 5<sup>th</sup> October, 2020.

Participated in the International Seminar (virtual) on EMPOWERING SOCIETY THROUGH YOG, EDUCATION AND OLYMPIC VALUES Organized By: Office of Dean Students Welfare, Cluster University of Jammu J&K In association with Olympic Values Education Program (OVEP-India)

Participated in International Forum for Progressive Research and Behavioral Sciences (IFPRBS) w.e.f. 21st June to 23rd June 2020.

Participated in National Webinar on " Financial Awareness and Consumer Training" organized By Govt. College Dharmari in collaboration with NCFE held on 3<sup>rd</sup> October 2020.

Organized a National Webinar on "HELPING YOUTH TO GROW SAFE AND HEALTHY: WELLNESS THROUGH EDUCATION" Hosted by GGM Science College on 27-06-2020.



icipated in the One-Day National Web-Seminar (ONLINE) on 'Yoga for Holistic Health of Children' organized by CENTRE FOR LEARNING AND PEDAGOGIC STUDIES, School of Education, Central University of Jammu under the aegis of Pandit Madan Mohan Malviya National Mission on Teachers and Teaching on 10<sup>th</sup> June, 2020.

icipated in a Webinar "Internet of Things (IoT) and its applications" organised by Department of Computer and Electronics Engineering, Rajalakshmi Engineering College, Thandalam, Chennai on 11<sup>th</sup> June 2020.

icipated in One Day National Webinar on the topic " National Education Policy 2020 in perspective of Mahatma's Vision organized by Lal Bahadur Shastri College of Education in collaboration with Government College, Samba held on 14<sup>th</sup> October 2020.

icipated in One Day Online National Workshop on " Food Adulteration, its Consequences and Prevention Measures" organised by IQAC in coordination with Department of Zoology, Govt. Degree College For Woman Udhampur on 16/07/2020.

icipated in the National Webinar on "Beekeeping : Opportunities and Challenges" held during Mahatma's Birth Centenary organized by AICRP (Honeybee and Pollinator), Division of Entomology, Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu, J&K (UT).

icipated in National Webinar organized by NSS campus unit, University of Jammu, Jammu on World Environment Day 2021 on the topic " Sustainable Development Goals and wild Edible Food Plants" on 5<sup>th</sup> June 2021.



**Attended Seven Day Workshop on Recent Trends in Plant Ecophysiology organized by Department of Botany, University of Jammu w.e.f. 27 – 02 – 2018 to 07 – 03 – 2018.**

**UGC – Sponsored Refresher Course (ID) organized by UGC Academic staff College, University of Jammu, Jammu w.e.f. 19<sup>th</sup> November 2018 to 10<sup>th</sup> December 2018.**

**Attended VIII international online faculty development programme w.e.f 1<sup>st</sup> to 10<sup>th</sup> July 2020 jointly organized by Govt. College of Education, Jammu in collaboration with Universitas Hindu Indonesia, Bali and Global Academic Assessment Consortium (GAAC).**

**Attended a 2-week Faculty Development Programme on “MANAGING ONLINE CLASSES AND CO-CREATING MOOCS 3.0 from July 25- August 10<sup>th</sup>, 2020 Ramanujan college university of Delhi under the aegis of MHRD.**

**Attended one week training cum workshop on NAAC quality aspects organized online by QAC Govt. Degree College Bhaderwah from 13<sup>th</sup> to 20<sup>th</sup> July 2020.**



# **WORKSHOPS/SEMINARS/CONFERENCES DURING 2016-20**

**DR. VISHAL SHARMA**

**Production Training Programme at Govt. College of Education, Jammu, Higher Education Department, Jammu w.e.f 10-07-2017 to 22-10-2017.**

**Four Week General Orientation Course organized by Ramanujan College, University of Delhi under the auspices of Ministry of Human Resource Development PMMMNMTT, w.e.f. June 26 to July 24, 2020.**

**Two week Inter Disciplinary Refresher course in Environmental Sciences organized by Department of Environmental Sciences, Jammu university in collaboration with HRDC, University of Jammu, w.e.f. 10-12-2020 to 31-12-2020.**

**Two Day National Science Conference on "Science, Society and Sustainable Development" from Jammu Campus, University of Jammu w.e.f 25<sup>th</sup> to 26<sup>th</sup> November, 2017.**

**Two Day National Science Conference on "Diversity and Reproduction in Plants and Microbes" from Department of Botany, University of Jammu w.e.f 7<sup>th</sup> to 8<sup>th</sup> February 2020.**

**Three Days FDP Webinar on "E-Learning: Tools for Teaching & Learning", from MAM PG College, Jammu University of Jammu w.e.f 01 to 03, June 2020.**



**participated in Webinar on “Biopolymers: Renewable Resources for Human  
ation” organized by Biopolymers Research Group, Alagappa University, Karaikudi  
2020.**

**International web conference on “Science, Engineering and Technology” organised  
Society of Technology Advanced Material of India w.e.f 15<sup>th</sup> May to 16<sup>th</sup> may 2020.**

# **WORKSHOPS/SEMINARS/CONFERENCES DURING 2016-20**

## **DR. SUKHWINDER KAUR**

**Induction Training Program at Govt. College of Education, Jammu, Higher Education Department J & K, w.e.f 10-07-2017 to 22-10-2017.**

**Participated in “Three Days National Workshop on Research Methodology” organised by College for Women , Parade Ground ,Jammu w.e.f. 30 Jan to 1 Feb, 2018.**

**Participated and presented a paper entitled “Survey of the status of Ethanomedicinal plants in district Samba” in National Level Seminar on Science and Technology for the Unreached: Concepts, Notions, Values and Applicability organised by Govt Degree College, Samba from 20 April to 21 April, 2018.**

**General Orientation Course at UGC HRDC, University of Jammu from 22 December 2018 to 05 January, 2019.**

**Participated in One Day Workshop on “Computer Literacy and Research Methodology” organised by GDC ,Samba on 18 March, 2019.**

**Participated in One Day Workshop on “Paradigm Shift In Investment Opportunities” organised by GDC ,Samba on 2 April, 2019.**

- ii) Participated and presented a paper entitled “A study of different transgenic strategies for biofortification of crops” in National Level Seminar on Science and Technology: Rural Development organised by Govt Degree College, Samba from December 10-11, 2019.**
- iii) Participated in One Day Webinar on “Quality Research Publications” organised by UIET(IT), Punjab University , Chandigarh on 17 July, 2020.**
- x) Participated in National Webinar On “Development of e-content Avoiding Plagiarism” organised by Govt College for Women , Parade Ground, Jammu w.e.f. 24-28 June, 2020.**
- x) Two –Week faculty Development Programme on “Managing Online Classes and Co-Creating MOOCS 3.0” from 25 July to 10 August, 2020 by Teaching Learning Centre, Ramanujan College, University of Delhi.**



## **SPECIAL ACHIEVEMENTS**

Prof. Vishal Sharma received best Paper presentation award Two Day National Science Conference on "Science, Society and Sustainable Development" held at Poonch Campus, University of Jammu w.e.f. 25<sup>th</sup> to 26<sup>th</sup> November, 2017.

# TEACHING METHODS/RESOURCES (OFFLINE/ONLINE)

- Subject Books available in the college Library= 383
- Subject Books available in the Departmental Library= 110
- Chalk and Board Method
- Lecture Method
- Lecture Cum Demonstration
- Discussion Method
- Assignment/ Project Method
- Multimedia Projector
- Wise App
- Zoom meetings
- Watsapp groups
- Google Classrooms
- Links such as N-List, NDL are also provided through the college library for wider choice of study materials
- Subject related E-Content as per the syllabus prescribed by the University of Jammu has been provided at the browsing center of the college.



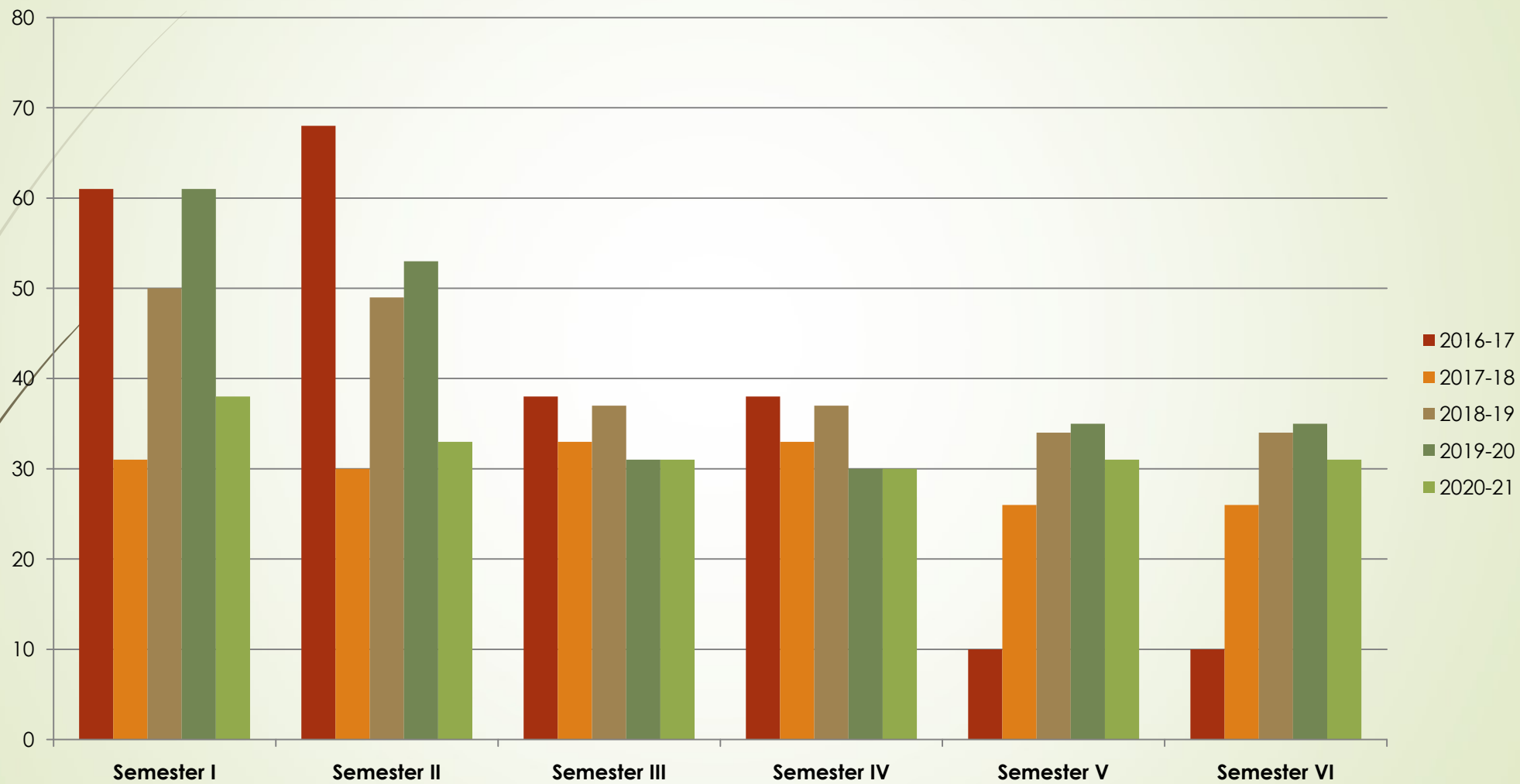
## COURSES BEING TAUGHT

Semester	Course Code	Course Title
<b>I</b>	UBOTC101	Diversity of Microbes and Cryptogams
	UBOPC102	Diversity of Microbes and Cryptogams
<b>II</b>	UBOTC201	Characteristics and Systematics of Seed Plants
	UBOPC202	Characteristics and Systematics of Seed Plants
<b>III</b>	UBOTC301	Plant Anatomy, Embryology and Ecology
	UBOPC302	Plant Anatomy, Embryology and Ecology
	UBOTS303	Nursery, Gardening and Floriculture
<b>IV</b>	UBOTC401	Plant Physiology and Metabolism
	UBOPC402	Plant Physiology and Metabolism
	UBOTS403	Ethanobotany
<b>V</b>	UBOTE501	Cell Biology and Genetics
	UBOPE502	Cell biology and Genetics
	UBOTS503	Mushroom Cultivation Technology
<b>VI</b>	UBOTE601	Economic Botany and Biotechnology
	UBOPE602	Economic Botany and Biotechnology
	UBOTS603	Biofertilizers

# TOTAL NUMBER OF STUDENTS ENROLLED (CBCS/NON-CBCS)

SEMESTER	2016-17	2017-18	2018-19	2019-20	2020-21
SEMESTER I	CBCS: 68	CBCS: 31	CBCS: 50	CBCS: 61	CBCS: 38
SEMESTER II	CBCS:68	CBCS: 30	CBCS: 49	CBCS: 53	CBCS: 33
SEMESTER III	NON-CBCS: 38	CBCS: 26 NON-CBCS: 07	CBCS: 37	CBCS: 31	CBCS: 31
SEMESTER IV	NON-CBCS: 38	CBCS: 26 NON-CBCS:07	CBCS: 37	CBCS: 30	CBCS: 30
SEMESTER V	NON-CBCS: 10	NON-CBCS: 26	CBCS:26 NON-CBCS: 08	CBCS: 35	CBCS: 31
SEMESTER VI	NON-CBCS: 10	NON-CBCS: 26	CBCS: 26 NON-CBCS: 08	CBCS: 35	CBCS: 31

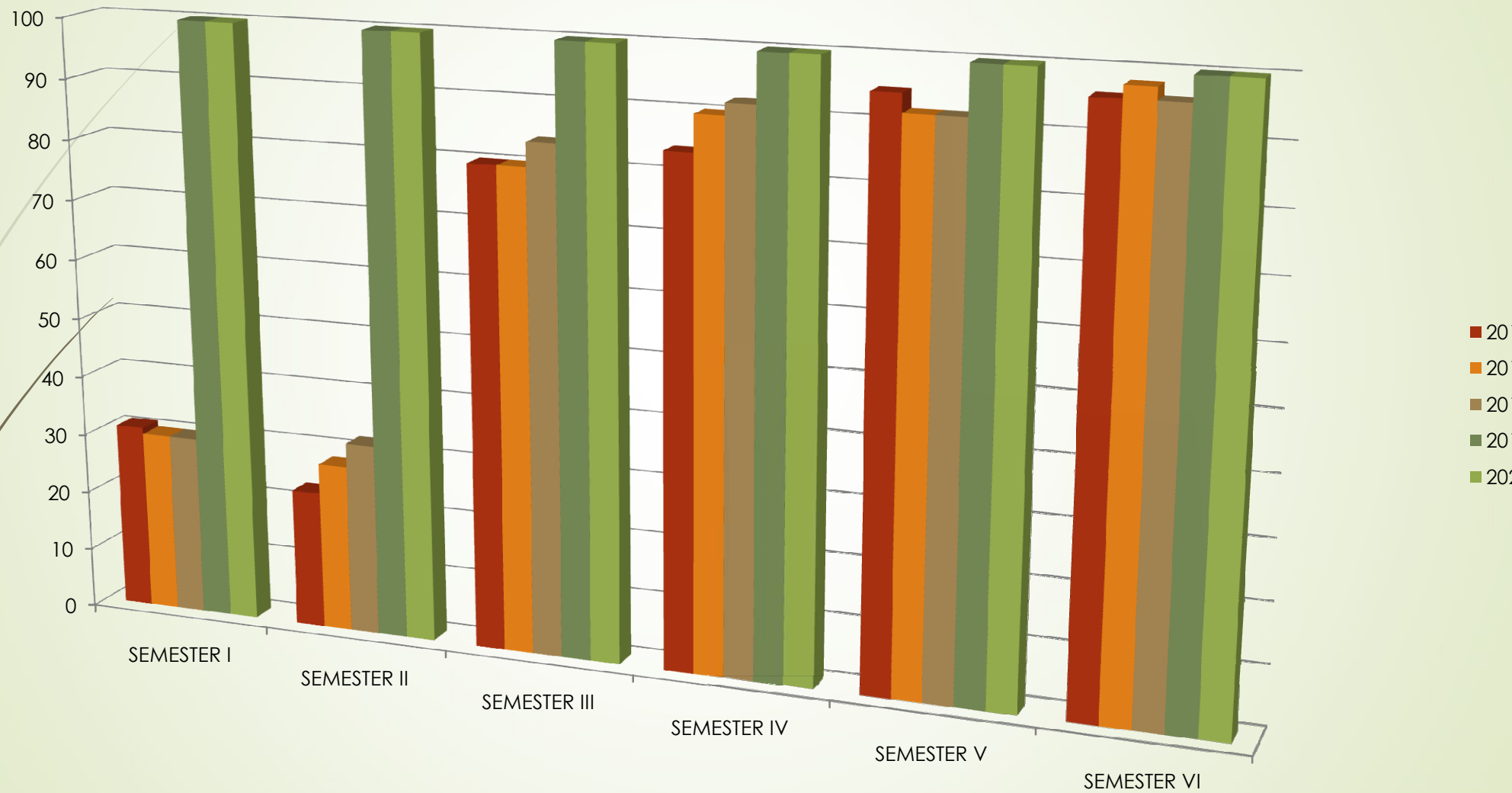
## TOTAL NUMBER OF STUDENTS ENROLLED



## RESULTS IN PERCENTAGE (CBCS/NON-CBCS)

SEMESTER	2016-17	2017-18	2018-19	2019-20	2020-21
SEMESTER I	CBCS: 31	CBCS: 30	CBCS: 30	CBCS: 100	CBCS: 100
SEMESTER II	CBCS: 23	CBCS: 28	CBCS: 32	CBCS: 100	CBCS: 100
SEMESTER III	NON-CBCS: 80	CBCS: 80 NON-CBCS: 57	CBCS: 89	CBCS: 77	CBCS: 100
SEMESTER IV	NON-CBCS: 84	CBCS: 90 NON-CBCS: 57	CBCS: 92	CBCS: 100	CBCS: 100
SEMESTER V	NON-CBCS: 95	NON-CBCS: 92	CBCS: 92 NON-CBCS:	CBCS: 100	CBCS: 100
SEMESTER VI	NON-CBCS: 96	NON-CBCS: 98	CBCS: 96 NON-CBCS:	CBCS: 100	CBCS: 100

## RESULT IN PERCENTAGE



## RESULTS IN PERCENTAGE (SEC)

SEMESTER	2016-17	2017-18	2018-19	2019-20	2020-21
SEMESTER III	Non- CBCS	100	100	100	100
SEMESTER IV	Non- CBCS	100	100	100	100
SEMESTER V	Non- CBCS	Non- CBCS	100	100	100
SEMESTER VI	Non- CBCS	Non- CBCS	100	100	100



## INFRASTRUCTURE

S. No.	Infrastructure Since 2016-17	Shared-(S) / Independent-(I)
1	Class Rooms	(S) – Allotted as per Time Table
2	Practical Labs	01-(I)
3	Departmental Library/Reading Room	01-(I)
4	HOD/Staff Room	01-(I)
5	Departmental Store Room	01-(I)

## NON – CONSUMABLE ITEMS (MACHINERY AND EQUIPMENTS)

S.NO.	NAME OF THE ITEM	QUANTITY
1	Compound Microscopes	50
2	Map Stand	4
3	Autoclave	2
4	Calorimeter	1
5	UV Chamber of Microbiology	1
6	Over head Projector	2
7	Video Camera	1
8	Electric Kettle	3
9	Dissection Microscopes	45
10	Centrifuge	3
11	Physical Balance	1
12	Digital PH meter	1
13	PH meter ( Pen type )	2
14	Pocket PH meter	2
15	Laminar Air flow	1
16	Automatic Slide Projector	2
17	Stainless Steel Oven	1
18	Digital Top Pan Balance	2
19	Stereoscopic binocular Microscope	4

## NON – CONSUMABLE ITEMS (MACHINERY AND EQUIPMENTS)

S.NO.	NAME OF THE ITEM	QUANTITY
20	Monocular Microscopes	3
21	Advance research and medical microscope	2
22	Computer set	1
23	Camera	1
24	Refrigerator	1
25	Printer	2
26	Microwave	1
27	DVD Player	1
28	AC ( Voltas )	1
29	Respirometer	1
30	Distillation Unit	1
31	Invertor with one battery	1
32	Laptop	1
33	Room heater	1
34	Trinocular Microscope	1
35	Aquaguard	1
36	UPS ( Luminuous )	1
37	Multimedia Projector	1
38	Projector Screen	1
39	Exhibitor	1

# NON – CONSUMABLE ITEMS

## (FURNITURE ITEMS)

NO.	NAME OF THE ITEM	QUANTITY
	Office Table	3
	Steel stools	36
	Classroom stools	30
	Steel rack big	3
	Steel rack small	1
	Steel almirah big	9
	Steel almirah small	1
	Pigeon hole	1
	Steel rack for Charts	1
	Teapai (wooden)	1

## NON – CONSUMABLE ITEMS (FURNITURE ITEMS)

O.	NAME OF THE ITEM	QUANTITY
	Small table (glass top)	1
	Centre table (glass top)	1
	Show case (wooden)	1
	Chairs (Plastic)	4
	Chairs (Wooden)	3
	Chairs (Godrej)	2
	Chairs (Revolving)	1
	Rose designer office chairs	4
	Computer table	1
	Slide cabinet	2

## CONSUMABLE ITEMS (CHEMICALS)

S.NO.	NAME OF THE ITEM	QUANTITY
1	Cholchine	3gm
2	Aniline blue (125 ml)	6
3	Distilled water	2L
4	Fast green (125 ml)	5
5	Crystal violet (125 ml)	10
6	Sulphuric acid (500ml)	1
7	Nitric acid (500 ml)	2
8	Agar Agar (100 gm)	1
9	Chloroform (500 ml)	2
10	Fast green	25gm
11	Carmine (5gm)	2
12	Saffranine (125 ml)	4
13	DPX (500 ml)	1
14	Acetic acid (500 ml)	1
15	Benedict's soln. (500 ml)	1



## CONSUMABLE ITEMS (CHEMICALS)

S.NO.	NAME OF THE ITEM	QUANTITY
17	Hydrogen Peroxide	2 L
18	Methanol (500 ml)	3
19	Iodine resublimed (25 g)	1
20	Sudan 3	1
21	Xylene (500 ml)	1
22	Ferric chloride	1
23	Glycerine (500 ml)	1
24	Gram's iodine soln. (125 ml)	5
25	Propan-2-ol (500 ml)	5
26	Carmine aceto staining soln. (100 ml)	2
27	Ethyl alcohol (500 ml)	2
28	Sodium bicarbonate (500 gm)	2
29	Sucrose (500 gm)	1

## LIST OF GLASSWARE

S.NO	NAME OF THE ITEM	QUANTITY
1	Measuring cylinder (250 ml)	2
2	Measuring cylinder (100 ml)	4
3	Beakers (250 ml)	13
4	Beakers (500 ml)	2
5	Separating funnel	3
6	Magnifying lens	5
7	Conical flask (250 ml)	15
8	Round flask (250 ml)	10
9	Dropper	13
10	Petridishes	27
11	Thermometer	1
12	Soil thermometer	4
13	Pipettes 20 ml	10
14	Test tubes	3 boxes

## LIST OF GLASSWARE

S.NO	NAME OF THE ITEM	QUANTITY
15	Slides	13 boxes
16	Funnel	1
17	Dropping bottles	5
18	Watch glass 50 mm	20
19	Stirring rod	5
20	Micropipette	1
21	Dessicator plain	1
22	Cover slips	8 boxes
23	Dropping bottle 30 ml	12
24	Reagent bottles 60 ml	12
25	Test tubes 50 ml	10
26	Meter rod full	5
27	Permanent slides	813
28	Funnel filtering	2

## OTHER ITEMS

S.NO.	NAME OF THE ITEM	QUANTITY
1	Museum specimen	69
2	Classwork material	73
3	Plastic beakers 500 ml	5
4	Plastic beakers 100 ml	48
5	Forcep 4"	9
6	Forcep 6"	9
7	Forcep 8"	10
8	Culture tubes	18
9	Cotton	1 pkt.
10	Charts	36
11	Reagent bottles 500 ml	5
12	Reagent bottles 1000 ml	10
13	Portrait	14
14	Whatman filter paper	3 pkt.
15	PH paper	4 pkt.

## OTHER ITEMS

S.NO.	NAME OF THE ITEM	QUANTITY
16	Centrifuge tube conical	10
17	Staining rack	2
18	Chromatography paper	93 sheets
19	Weight box analytical	2
20	Clinical thermometer	5
21	Fractional weight box	2
22	Hedge cutter	4
23	Twig cutter	4
24	Test tube stand	12
25	Eukaryotic cell model	1
26	Pestle and mortar	1
27	Burette with pinch cock	2
28	Tips for micropipette	1
29	Cork borer	1
30	OIC Objective	1

# CHARTS

S.NO.	NAME OF THE CHART
1	<i>Anthoceros (structure and reproduction)</i>
2	<i>Marselia Reproductio</i>
3	<i>Morchella</i>
4	<i>Ectocarpus - structure &amp; life cycle</i>
5	<i>Equistem Reproduction</i>
6	<i>Lycopodium Reproduction</i>
7	<i>Funaria (Moss)</i>
8	<i>Agaricus compestris (mushroom)</i>
9	<i>Marchantia</i>
10	<i>Pteris (Fern) - Life history</i>
11	<i>Puccinia graminis</i>
12	<i>Ephedra</i>



# CHARTS

S.NO.	NAME OF THE CHART
13	Solanaceae - Petunia
14	Umbelliferae (Apiaceae)
15	Gramineae (Triticum vulgare) Poaceae
16	Cruciferae (Brassica)
17	Photosynthesis Light reaction
18	Kreb's cycle
19	Glycolysis
20	Tridax Asteraceae
21	Forms of ovules
22	Ranunculaceae (Delphinium ajacis)
23	C4 cycle
24	Photorespiration C2 Pathway
25	Calvin cycle
26	Beta oxidation of fatty acids
27	Chlamydomonas
28	Sargassum

# CHARTS

S.NO.	NAME OF THE CHART
29	Moss
30	Choleochate
31	Polysiphonia
32	Pinus
33	Cycas
34	Volvox
35	Oedogonium - Life Cycle
36	Rhizopus - Structure and Reproduction

## List of Permanent Slides

S.NO	Name of the Slide
1	Anthoceros
2	Ascomycetes
3	Bacteria
4	Lycodium
5	Marchantia
6	Pteris
7	Psilotum
8	Fungi
9	Funaria
10	Meiosis
11	Selaginella
12	Moss
13	Equistem
14	Fren
15	Marselia

## List of Permanent Slides

S.NO	Name of the Slide
16	Algae
17	Chlamydomonas
18	Oedogonium
19	Cycas
20	Pinus
21	Ephedra
22	Dicot
23	Monocot
24	Pollen
25	Cucurbita
26	Allium
27	Ovule
28	Anther
29	Peziza
30	Apex
31	Dicotyledon
32	Chromosomes



# **DEPARTMENTAL ACTIVITIES FROM THE YEAR 2016-2021**

# Poster/Model making Competition on Ozone Day (16<sup>th</sup> September 2017)





**Extension Lecture by Dr. Rajinder Sharma  
Department of Botany, GCW Gandhi Nagar  
Jammu on 'PLANT BIOTECHNOLOGY VIS  
THE FOOD SECURITY OF INDIA'  
(2<sup>nd</sup> November 2017)**







**Celebrated National Pollution Control Day  
O.P Sharma Vidhyarthi (IFS) Director Ec  
Environment and Remote Sensing, J&K, v  
Resource Person.  
(2<sup>nd</sup> December 2017.)**







Online Poster Making/Slogan Competition was organized to celebrate the "World Nature Conservation Day" (28<sup>th</sup> July 2019.)





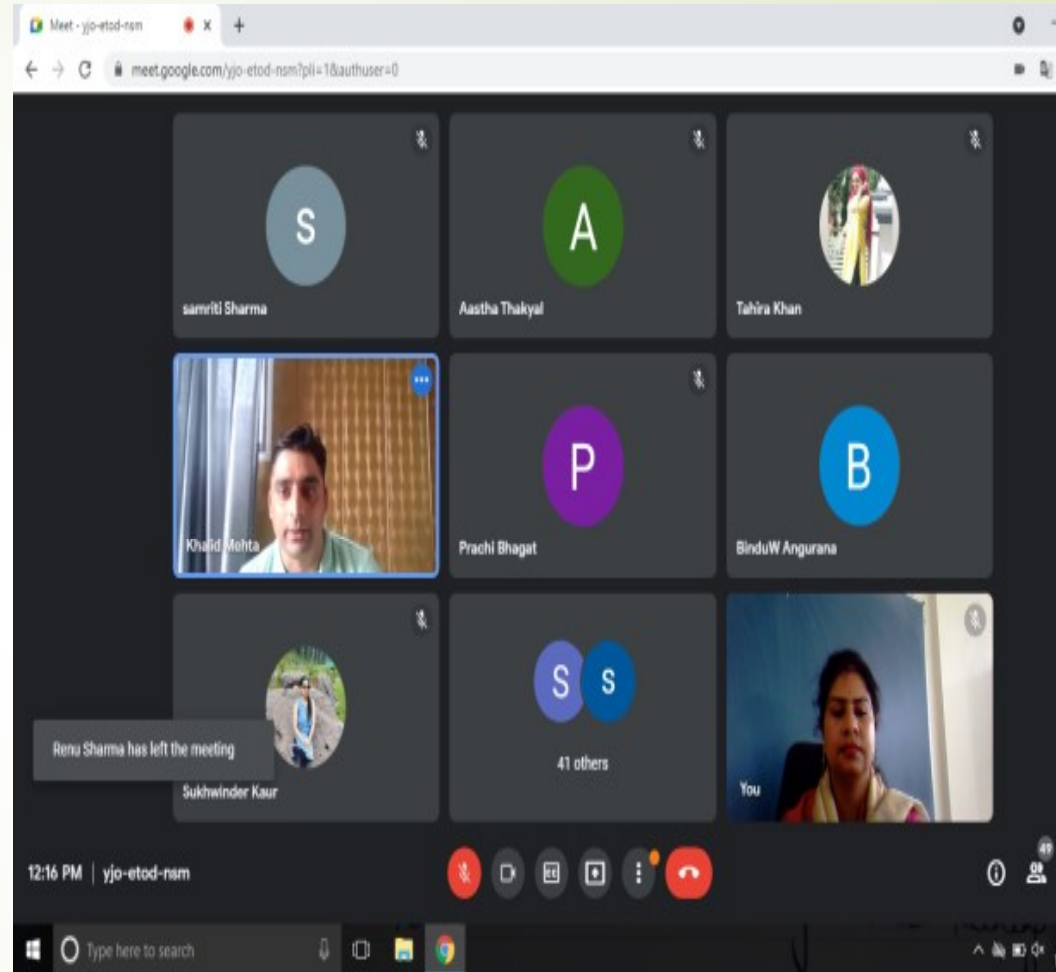




**Poster making competition  
organized to celebrate Wet  
Day.  
( 2<sup>nd</sup> February 2020)**



**Poster making Competition on World Water Day  
(22<sup>nd</sup> March 2021)**



**Online Lecture on the theme “Connect, Nourish and Protect Nature for a Better Future”.  
(19<sup>th</sup> July 2021)**







**Poster Making Competition  
on the theme 'Save Flora and  
Fauna'**





**Plantation Drive in which students planted sapling in their home/vicinity.**



**Students collecting plants from different habitats during Botany Trip to Mansar.**







**Students while performing  
Practicals in the Laboratory.**

# Botanical Museum

The department has a museum with specimens and slides of plants representing different divisions of Botany viz Algae, Fungi, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms.

The focus is mainly on the genera included in the syllabi.

In addition to this department has a small collection of Ethnobotanical Specimens from the local regions.



# PROJECTS GIVEN TO STUDENTS

Preparation of an illustrated Inventory of local medicinal plants used in indigenous systems of medicine.

Jasminum officinale  
Date: / /

Jasmine

Botanical name: *Jasminum officinale*  
Common name: Jasmine  
Family: Oleaceae  
Species: *J. Sambac*  
Subgenus: *Platanus*  
Genus: *Jasminum*

It contains around 200 species native to tropical and warm temperate regions of Eurasia and Oceania.

Medicinal use of Jasmine

For the medicinal purpose various parts of the plant such as leaves & flowers are used. Leaves are used in the treatment of swollen, itchy, sore, ulcers and loose teeth. Flowers are used in eye disease, ulcers, skin diseases, itching. Jasmine oil has anti-depressant, anti-inflammatory, antiseptic, aphrodisiac, & sedative properties. It is used in the treatment of depression, nervous exhaustion, stress related conditions in child birth. It is used during labour to strengthen the contraction.



Jasminum officinale



Amia  
Date: / /

Scientific name: *Hydrocotyle umbellata*  
Family: *Umbelliferae*  
Common name: *Shilla*

MEDICINAL USES OF AMIA

Scientifically it is the most widely used herb in the Ayurvedic system of medicine. Amia is said to be useful against many acute diseases including cholera, respiratory disorders, diarrhoea, heart diseases, and dental diseases. Amia cleanses the mouth, strengthens the teeth.

Amia treats constipation.

Amia reduces inflammation: Free radicals in the body can damage heart, skin and even hamper our immunity. Antioxidants in Amia help in neutralizing free radicals and reduce inflammation in the body.

It clears toxins from the liver as well as strengthens its functioning.

Eating a bit of Amia powder with

6 CURRY LEAF  
Date: / /

BOTANICAL NAME: *Murraya koenigii*

COMMON NAME: kari patta, curry leaf, gadbeli.

FAMILY: Rutaceae.

*Murraya koenigii*, called curry leaf, is a small, tropical to subtropical tree or shrub that typically grows 1-15 m tall and is noted for its pungent, aromatic, curry leaves which are limbo-flavoured, used in Indian and is used as medicinal herb. This tree is native to moist forests in India & Sri Lanka.

MEDICINAL USES OF CURRY LEAF:

- Curry leaves can also be used for weight loss.
- Curry leaves are also said to be good sources of iron & calcium because of this reason. Curry leaves are used as part of folk medicine to treat calcium deficiency and several other conditions.
- Curry leaf are help to reduce hair loss and increase hair growth because they are rich source



FENUGREEK  
Date: / /

Scientific name: *Trigonella foenum-graecum*  
Family: *Fabaceae*  
Common name: *Methi*

MEDICINAL USES OF FENUGREEK

Fenugreek has benefits for lowering blood sugar levels, boosting testosterone and improving milk production in breastfeeding mothers.

Fenugreek may also reduce cholesterol levels, lower inflammation, and help with appetite control.

Fenugreek is an herb long used in ancient medicine.

Fenugreek reduces the heartburn symptoms. It helps upset stomach and digestive problems.

Fenugreek reduces menstrual cramps.

It reduces appetite.

Fenugreek soothes muscle pain.





# **FUTURE VISION**

- **To establish the collaboration with various institutes for extension of Academic and Research work.**
- **To start Honors Course in the Department .**
- **To prepare the students and Department for implementing NEP 2020.**
- **To provide Hands on training to students in different botanical skills like mushroom cultivation ,Nursery and Gardening, Ethnobotany etc. to horn the Enterpreneurial traits of the students.**

*THANK- YOU*

