


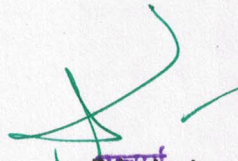
# ATTAINMENT OF PROGRAMME OUTCOME AND COURSE OUTCOMES

Department of ZOOLOGY

To find out attainment of programme outcomes (POs), Programme specific outcomes (PSOs), and course outcomes (COs), following measurable factors have been taken into consideration during the sessions.

S.no	measurable factors	2020-21	2019-20	2018-19	2017-18	2016-17
1	UG final University Merit Achiever	—	—	—	—	—
2	UG final Year Pass Percentage	100%	100%	100%	100%	100%
3	Project by students	Yes	Yes	Yes	Yes	Yes
4	Quiz	x	x	x	x	x
5	Models Constructions	Yes	Yes	Yes	Yes	Yes
6	Entrepreneurial / Skill Trainings	Yes	Yes	Yes	Yes	Yes
7	Students Presentation / Seminar	Yes	Yes	Yes	Yes	Yes
8	Experimental Learning in UG Programme	Yes	Yes	Yes	Yes	Yes
9	Value Aided Course	Yes	—	Yes	—	—
10	Webinar	—	04	—	—	—
11	Certificate Course	—	—	—	—	—
12	Guest Lectures / Expert Lectures	Yes	Yes	Yes	Yes	Yes

  
HOD  
Dr. Shikha Shrivastava

  
Principal  
श्रीमती इंदिरा गांधी स्नातकोत्तर विश्वविद्यालय  
वैशाली नगर, बिहार

## Projects

S.no	Topic	students	Year
1.	Biodiversity in Vashali nagar college-	25	2016-17
2.	Study of biodiversity in Vaishali nagar college at noon	25	2017-18
3.	Fauna study in Govt college Vaishali nagar	75	2018-19
4.	Biodiversity in Vaishali nagar college	75	2019-20
5.	Birds of Bhilai ( Lockdown Studies)	50	2020-21

for  
Dr. Shikha Shrivastava

Dr. Indira Gandhi Smt. K. S. Shrivastava  
वैशाली नगर पिलाई

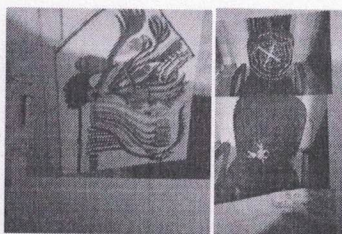
+  
Skill training

Models

Report:

As dissections, a very important part of zoology has been banned by UGC, even for educational purposes. So the zoology department has started a workshop to encourage the alternative methods for the understanding of anatomy of the animals in syllabus. The students work in workshop, which is a part of Zoology lab and study the anatomy and make models from different materials as clay, thermocol charts and as their imagination takes them. Some models are prepared for each students in person and some models are made by whole class. Students of B.Sc I and II yr participate in these workshop events, which ends in exhibition

S.no.	Bsc Ist yr	B.ScII Yr	year	No. of students participated
1.	Earthworm ext.	Bones birds	16-17	25
	Earthworm int.	Bones Reptiles	17-18	48
3.	Earthworm tube	Scoliodon external	18-19	65
	Earthworm field			
4.	Octopus eye	scoliodon Eff + Afferent Dissectable	19-20	106
	Euglina			
5	Earthworm	Scoliodon internal ear	20-21	107
	Animal Cell			



*Dr. Shikha Shrivastava*

*प्रो. शिखा शrivastava*

राजीव गांधी स्नातकोत्तर विद्यालय  
वैशाली नगर मिर्जापुर

### PRACTICAL WORK

The Practical work in general shall be based on syllabus prescribed in theory.

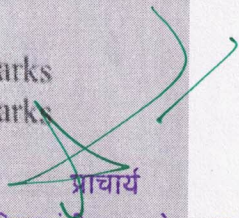
The candidates will be required to show knowledge of the following :

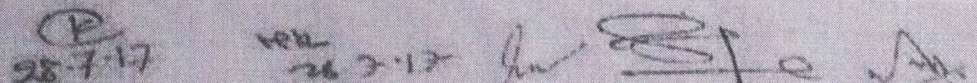
1. Estimation of population density, Percentage frequency, Relative density.
2. Analysis of Producers and consumers in grassland.
3. Detection of gram-negative and gram-positive bacteria.
4. Blood group detection (A,B, AB & O).
6. R.B.C., W.B.C. count.
6. Blood coagulation time.
7. Preparation of Hematin crystals from blood of rat.
8. Observation of Drosophila, wild and mutant.
9. Chromatography-Paper or gel.
10. Colorimetric estimation of hemoglobin.
11. Mitosis in onion root tip.
12. Biochemical detection of Carbohydrate, Protein and Lipid.
13. Study of Permanent slides of Parasites, based on theory paper.
14. Working Principles of pH meter, Colorimeter, centrifuge and microscopes.

### SCHEDULE FOR PRACTICALEXAMINATION

Duration : 4 Hrs.

1.	Haematological Experiment : (R.B.Cs./W.B.Cs. Counting/Blood group detection)	Max Marks : 50 08 marks
2.	Ecological Experiment : (Estimation of Population Density/Frequency/relative Density)	06 marks
3.	Staining of Gram +ve and Gram -ve Bacteria/cytological experiment : Mitosis in onion root tip	05 marks
4.	Biochemical Experiment : (biochemical detection of carbohydrate/protein lipid)	06 marks
5.	Chromatography	05 marks
6.	Spotting :	10 marks
	Study of permanent slides of Parasites : 3	
	Comments on working Principles of pH meter / Calorimeter / centrifuge and Microscope :	
	Viva Voce	05 marks
	Sessional :	05 marks

  
 प्राचार्य

25-7-17  
 26-7-17  


**Zoology**  
**B.Sc. Part II (2019-20)**  
**Practical**

The practical work in general shall be based on the syllabus prescribed and the students will be required to show the knowledge of the following:

- Study of the representative examples of the different chordates (Classified characters).
- Dissection of various systems of scoliodon-Afferent and Efferent branchial cranial nerves, internal ear.

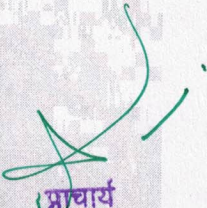
**Alternative methods: By Clay/Thermacol/ Drawing/ Model etc.)**

- Simple microscopic technique through unstained or stained permanent mount.
- Study of prepared slides histological, as per theory papers.
- Study of limb girdles and vertebrae of Frog, Varanus, Fowl and Rabbit.
- Identification of species and individual of honey bee.
- Life cycle of honey bee and silkworm.
- Exercise based on Evolution and Animal behavior.

**Scheme of Practical Exam**

**Time: 3:30hrs**

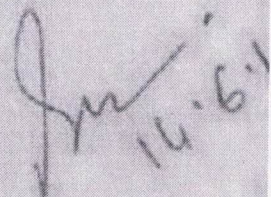
• Major dissection (Cranial nerves/efferent branchial vessel)	10
• Exercise based on evolution	05
• Exercise based on applied zoology	05
• Exercise based on animal behavior	04
• Spotting-8 (slides-4,bones-2,specimen-2)	16
• Viva	05
• Sessional marks.	05

  
प्राचार्य

कीर्ति इंदिरा गांधी स्नातकोत्तर विद्यापीठ  
वैशाली नगर, मिर्जापुर

Ⓟ  
14.6.19

NS  
14.06.19

  
14.6.19

**Zoology**  
**B.Sc. Part I (2019-20)**  
**Practical**

The practical work will, in general be based on the syllabus prescribed in theory and the candidates will be required to show knowledge of the following:-

- Dissection of Earthworm, Cockroach, Palaemon and Pila
- Minor dissection—appendages of Prawn & hastate plate, mouth parts of insects, radulla of Pila.

(Alternative methods: By Clay/Thermacol/drawing/Model etc.)

- Adaptive characters of Aquatic, terrestrial, aerial and desert animals.
- Museum specimen invertebrate
- Slides- Invertebrates, frog embryology, Chick embryology and cytology.

**Scheme of Practical Exam**

**Time: 3hrs**

1. Major Dissection	10 Marks
2. Minor Dissection	05 Marks
3. Comments on Excercise based on Adaptation	04 Marks
4. Cytological Preparation	05 Marks
5. Spots-8 (Slides-4, Specimens-4)	16 Marks
6. Sessional	10 Marks

Ⓟ  
14-6-19

NS  
14-06-19

14-6-19

→  
→

प्राचार्य

Students presentation

s.no.	Acitivity	name		topic	date	Issue adressed	No. of students attended
1.	Student seminar	Manoj Kurre B.sc 1 <sup>st</sup> yr	50	cancer	22.10.16	Health Gender related	80
2.	--"	Sheshnath B.Sc 1 <sup>st</sup> year	--"	Mitosis	27.10.16	zoology	50
3.	--"	Lalita Bsc.1st yr	"	Annelida	3.11.16	health	50
4.	"	Madhavi Bsc 1st year	"	Human classification	7.11.16	Zoology	25
5.	"	Mayur Bsc 1st yr	"	Arthropods	9.11.16	Health	30
6.	"	Kajal Bsc 1st yr		Cell structure	17.11.16	zoology	50
7		Rukhsar Bsc 1st yr		Paramecium	25.11.16	Environmental awareness	87
8.		Sandhya Bsc 1st yr		Cell structure	3.12.16	zoology	25
9.		Ankita		Paramecium conjugation	19.12.16	zoology	25
11.		Damini		Sycon classification	30.8.17	zoology	25
12.		Nityashree		Water vascular system	31.8.17	Environmental awareness	88
13.		Poornima		earthworm	5.9.17	Environmental awareness	39
14.		Roshni		Earthworm blood	19.9.17	zoology	30
15.		Karishma		Cancer cells	5.10.17	health	40
16.		Bhoomika		Cancer	6.10.17	health	30
17.		Sneha		CANCER	11.10.17	health	30
18.		Rajshree		Eukaryots	12.10.17	zoology	30
19.		Ritu		mollusca	13.10.17	Environmental awareness	25
20.		Akash		Starfish	23.10.17	Environmental awareness	30
21		Vikas		larva	24.10.17	zoology	20
22		Poonam		Protozoa	25.10.17	Environmental awareness	20

*[Handwritten signature]*

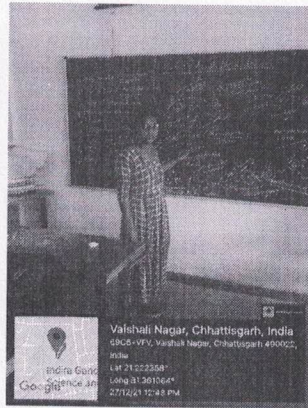
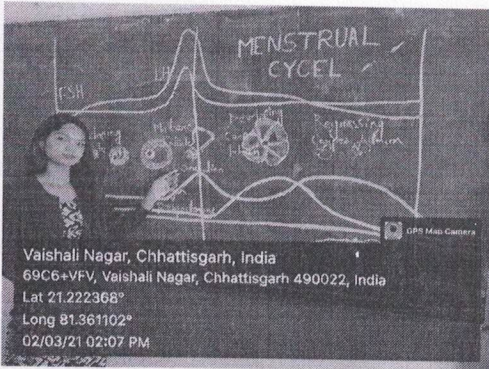
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23		Akanksha		Protozoa diseases	3.11.17	Health Gender related	96
24		Sheetal		Helminthes classification	16.11.17	zoology	20
25		Pooja		Helminthes larva	18.11.17	zoology	20
26		Durgesh		Mollusca pila	20.11.17	Environmental awareness	30
27		Vikas		Molusca classification	11.12.17	zoology	20
28		Rita		Pila	5.1.18	Environmental awareness	20
29		Ravinder kushwaha B.Sc.II yr		echinodermata	8.9.18	Environmental awareness	25
30		Durga Nishad Bsc IIyr		Belanoglossus	6.9.19	Environmental awareness	100
31		U Ravi		Animal kingdom	20.9.19	zoology	30
32		Shweta singh		Centrosome	23.9.19	zoology	25
33		Damini Kumari		RNA	25.9.19	zoology	25
34		Sangeeta Ahirwar		Arthropod classification	26.9.19	zoology	30
35		Bsc II yr U.Ravi		Electrocardiogram	14.10.19	Health	30
36		Durga Nishad		Types of scales	22.10.19	Zoology	20
37		Damini purane		Endocrine glands	17.10.19	Gender related	98
38		Sangeeta Ahirwar		Hormones	13.12.19	Health gendr related	90
39		Bsc III Sunil Dewangan		Protiens	2.1.21	zoology	30
40		Damini kumari		Pond ecosystem	13.1.21	Environmental awareness	100
41		U.Ravi		Ecology	16.1.21	Environmental awareness	25
42		Sangeeta Ahirwar		biotechnology	30.1.21	Zoology	30
43		Damini Markandey		Carbohydrates	3.2.21	health	20
44		Aafreen Bsc I yr		Marsupials	4.2.21	Zoology	20
45		Abhishek BSc I st yr		classification	19.2.21	zoology	20



46		Minal Bsc II yr		Oogenesis	27.2.21	Women health Gender related	100
47		Kamini sinha		Lactation	27.2.21	Women health Gender related	100
48		Swati Bhojne		Mensuration	2.3.21	Women health Gender related	100
49		Yasmin		Spoiled Food	13.3.21	health	20
50		Mamta Nishad		Venom	16.3.21	Health	25
51		Bhavna Sahu		Ovary	22.3.21	Women health	100
52		Himanshu		Adrenal gland	3.4.21	Health	20
53		Khushbu		Adrenal Structure	4.4.21	health	25
54		Prashant Tiwari		ECG	24.4.21	health	30
55.		Nandita Ratre		Malaria	27.12.21	health	20
56		Tammanna		Mitosis	28.12.21		34

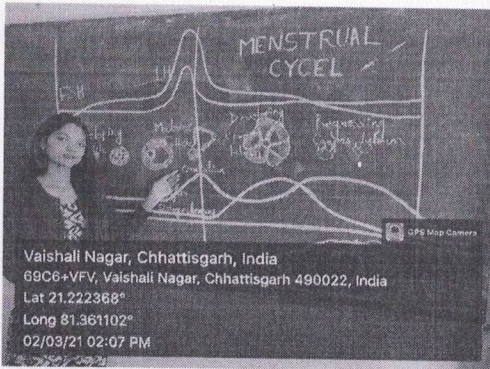
*Jan*



*Principal*

Principal  
Indira Gandhi Govt. P.G. College  
Vaishali Nagar, Bilal

		Mishra				
76		Khilashwari		Drug and Behaviour	12.1.22	28
77.		Neha Verma		Pitutory Gland	12.1.22	30
78		Devika Sinha		Microbiology of sewage water	12.1.22	35
79		Geetanjali Sahu		Microbiology of Milk and Milk Products	12.1.22	30
80		Pooja		Nephrons	13.1.22	28
81		Madhuri Janghel		Oogenesis	13.1.22	28
82		Anchal singh		Pitutory gland	13.1.22	20
83		Ritu Sahu		Reproduction	13.1.22	20
84		Diksha kherwar		Menstrual Cycle	13.1.22	20
85		Roshni Maurya		Mutation	13.1.22	20
86		Soni Maurya		Oxygen cycle	13.1.22	20
81		Divya singh		Pectoral gland	13.1.22	20



*Dr. Shikha Shwari*

*Pracharya*

राष्ट्रीय इंदिरा गांधी स्नातकोत्तर विश्वविद्यालय  
वैशाली नगर, बिहार

**Indira Gandhi Government Arts and Commerce College, Vaishali Nagar**

**Add on Course-Life Science**

**Report**

Title of the programme: Add-on course in Life Science


Duration: 30 hours

Number of students participated: 40

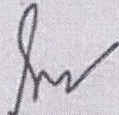
No. of students passed in exam: 13

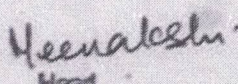
An add-on course in Life Science was organized by the Life Science Club of the College comprising of Department of Botany, Zoology and Industrial Microbiology. The course was organized for the students aspiring for competitive exams specially Public Service Commission Exams, to teach the fundamental topics in Biology which are included in the General studies syllabus of such exams. Students were asked to register for the course through google form. 30 hours of teaching was distributed according to the time table. Topics were taught by Faculty of Botany, Zoology and Industrial Microbiology of the college. At the end of the course an online test was conducted in google form. The students who passed with a minimum marks were given certificates.

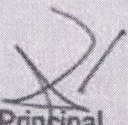
Link for Test -[https://docs.google.com/spreadsheets/d/1\\_IZZI1b8kKgeTupfQJSEYRpY9fM2A-KtFqCbUoWUi-c/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1_IZZI1b8kKgeTupfQJSEYRpY9fM2A-KtFqCbUoWUi-c/edit?usp=sharing)

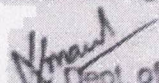
  
IGAC Coordinator  
Indira Gandhi Govt. P.G. College  
Vaishali Nagar, Bhilai

(Dept of zoology)

  
IGAC Coordinator  
Indira Gandhi Govt. P.G. College  
Vaishali Nagar, Bhilai

  
Head  
Dept. of Botany  
Indira Gandhi Govt. P.G. College  
Vaishali Nagar, Bhilai

  
Principal  
Indira Gandhi Govt. P.G. College  
Vaishali Nagar, Bhilai

  
Head  
Dept. of Ind. Micro Biology



INDIRA GANDHI GOVT PG COLLEGE,  
VAISHALI NAGAR, BHILAI



IQAC TEAM OF INDIRA GANDHI GOVT PG COLLEGE

INVITES YOU  
IN A 1 DAY WORKSHOP ON

**"AWARENESS WORKSHOP FOR THE TEACHERS"**  
*DOORWAY TO NAAC*

**ON 20-10-2021 WEDNESDAY**

**AT 12:00 PM**

**GUEST SPEAKERS ARE**



**DR. MANOJ VERGHESE**  
DEAN (ACADEMICS)  
VIGNETA COLLEGE OF ENGINEERING  
AND TECHNOLOGY, BHILAI



**DR. NIHARIKA DEWANGAN**  
IQAC COORDINATOR  
SWAMI SHRI SWAROOPANAND  
SARSWATI MAHAVIDYALAYA,  
HUDCO, BHILAI C.G



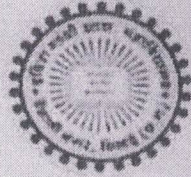
**DR. SHAMA A. BAIG**  
NAAC COORDINATOR  
SWAMI SHRI SWAROOPANAND  
SARSWATI MAHAVIDYALAYA,  
HUDCO, BHILAI C.G

**SHIKHA SHRIVASTAVA**  
SANITIZING SECRETARY

**DR. ALKA MESHAM**  
PATRON

INDIRA GANDHI GOVT ARTS AND COMMERCE PG COLLEGE.

VAISHALI NAGAR, BHILAI



DEPARTMENT OF ZOOLOGY & ENGLISH

INVITES YOU

IN A CORONA AWARENESS WORKSHOP ON  
**"COURAGE DOESN'T ALWAYS ROAR"**

AN INSIGHT VIEW OF COPING WITH CORONA

ON 08-05-2021 SATURDAY

AT 12:00 PM

GUEST SPEAKERS ARE

NAME	DESIGNATION	DEPARTMENT	COLLEGE
DR. PRAMOD NAMDEV	NATUROPATHY DOCTOR		PROPRITOR - YOGA DAY CLINIC, BHILAI
DR. PRASHANTI VERMA	ASST. PROFESSOR	PHYSICS	DAV COLLEGE, SECTOR 10, CHANDIGARH
NEHA A. NANDKEOLYAR	ASST. PROFESSOR	BOTANY	GOVT. ARTS AND SCIENCE COLLEGE, HASII, GUJRAT
NEETU S. SHRIVASTAVA	ASST. PROFESSOR	ZOOLOGY	KDRCST, RUNGTA COLLEGE, RAIPUR

A SHRIVASTAVA  
NG SECRETARY

DR. ALKA MESHAM  
PATRON

माध्याय  
कीय इंदिरा गांधी स्नातकोत्तर विद्यालय  
वैशाली नगर भिलाई



Indira Gandhi Govt. Arts & Commerce PG College  
Vaishali Nagar, Bhilai (C.G.)  
Affiliated to Hemchand Yadav University, Durg

## "YOUR ATTITUDE DEFINES YOUR ALTITUDE" INTERNATIONAL WEBINAR ON MENTAL HEALTH

Organized by

Post Graduate Department of English and  
Department of Zoology along with IQAC

**Date: 23rd July 2020 | Time: 08:00 – 10:00 AM (IST)**

### ABOUT THE COLLEGE:

Indira Gandhi Govt. College was established on 12.07.1989 and NAAC accredited with B+ grade. It has Commerce, Arts, Home science, Math's, Biology, Industrial microbiology and Computer science in undergraduate classes and Post Graduation in English, Economics and Chemistry. It's a flourishing college of the area with several achievements and honors in its cap.

### ABOUT THE WEBINAR:

Today is the age of mental upheavals. Man is subjected to stress and strain due to many reasons. To succeed and to be stable in life, one should have good mental health. A person's mental health defines the man's stability and instability. So it's high time for us to be concerned of our mental health as our attitude defines our altitude.

Contacts :-

mailto:pgdeng/zoology@indira.govt.edu.in

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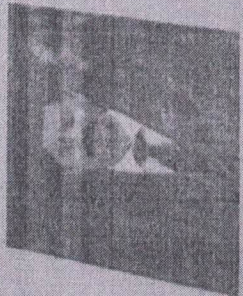
राष्ट्रीय इंदिरा गांधी स्नातकोत्तर  
वैशाली नगर, भिलाई



INDIRA GANDHI GOVT ARTS & COMM  
P G COLLEGE,  
VAISHALI NAGAR, BHILAI



## Valor and Glory- Indian Army (Recruitment Process)



Resource Person  
Col. Ashutosh Verma  
(Retd.)



Patron  
Dr. (Smt.) Alka Meshram  
(Principal)

Organized By:

Internal Quality Assurance Cell, NAAC, NCC & Placement Cell  
G. S. D. College, Bhilai

प्राचार्य

रा.स.की.य. इंदिरा गांधी स्नातकोत्तर विश्वविद्यालय  
वैशाली नगर बिलासई

## Guest lecture

Sno.	Name of guest faculty	Topic	Date	No.of students attended
1	Dr.Nisreen Hussain HOD Zoology Patankar Girls college	Thyroid and diseases	10.1.17	38
2	Dr.Kanti Choubey HOD Zoology VYT auto. College	Immune system	2.2.18	36
3	Dr.Divya Minz Assistant professor VYT aut.collegeDurg	Pelvic girdle	5.2.18	40
4	Dr.Usha Sahu AP Zoology	Genetics and today	9.9.19	42
5	Dr.Neetu Shrivastava	Evolution and biodiversiy	17.9.19	50
6	Dr.Sajal Dev	Environmental awareness	17.9.19	50
7	Gajendra Dev	Instrumentation	25.2.20	45
8.	Dr.Nupur Shrivastava(online)	ECG	8.12.20	45
9.	Dr. Kanti Choubey (online)	Invertbrates	11.12.20	48
10.	Dr. Nupur Shrivastava (online)	Blood coagulation	15.4.21	56
11	Dr. Neeru Agarwal (online)	Biotechnology	29.4.21	58
12	Dr.Kanti Choubey	Microbiology and milk products	26.10.21	25
13	Dr.Neetu Shrivastava	Sycon -totipotency	29.10.21	25
14	Dr.Nupur Meshram	Blood group	4.12.21	25
15	Kamlesh Kumar	Physical fitness	6.12.21	50
16.	Dr.Sushma dubey	Instrumentation	28.12.21	25
17.	Dr.Dharamveer Chandrakar	Health planet food	30.12.21	50



प्राचार्य  
इंदिरा गांधी स्नातकोत्तर विश्वविद्यालय  
वैशाली नगर निलाई