### Add-On Course on: "Facets of Research in Biology"

5<sup>th</sup> February to18<sup>th</sup> February 2020 Swami Shraddhanand College University Of Delhi, Delhi 110036

An UGC sponsored Add on course entitled "Facets of Research in Biology" was held for a period of ten days from 5<sup>th</sup> February to 18<sup>th</sup> February 2020 under the convenorship of Dr. Gauri Mishra of Department of Zoology, co-convenor Dr. Ushvinder Kaur of Department of Geography and unconditional support by Principal, Dr. P.V. Khatri. The course was well designed for the students of science from various departments to enlightened the young minds and widen their horizon of knowledge. The total number of students participated were 115 from Zoology (Hons.), Microbiology (Hons.), Botany (Hons.), Life Science and Applied Life Science. The course was inaugurated by the Prof. Sanjay Jain, Head Department of Physics, University of Delhi who talked about Biophysics. The speakers for the course were eminent researchers and great academicians who encouraged, motivated and counselled our students for their bright and successful future. There were interesting hours in which students learned how to formulate Nano particles and cosmetics. Students did a hand on cancer cells, fibroblast, the C.elegans: model organism, and PCR machine. One day trip was organized under the add-on course to DIPAS (Defence Institutes of Physiology and Allied Sciences) under DRDO (Defence Research and Development Organisation). This visit showed the gates for higher research and the facilities provided by various governmental organisations like DST, DBT, CSIR, ICMR, etc. The students were enriched by the programme and have high spirits for taking science and research to the great heights.

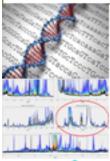




#### Add-On Course

#### <u>"FACETS OF RESEARCH IN BIOLOGY"</u>





A ten day certificate course entitled "FACETS OF RESEARCH IN BIOLOGY" will commence from 5th Feb 2020 in the Seminar room, New Building of Swami Shraddhanand College, University of Delhi. This course is designed in a way to enhance your knowledge and give you an insight of research which will crater your needs for future endeavors.

Highlights:

Neuro generative Disease Nano formulation Biophysics Cancer

Registration Fees: 200/-

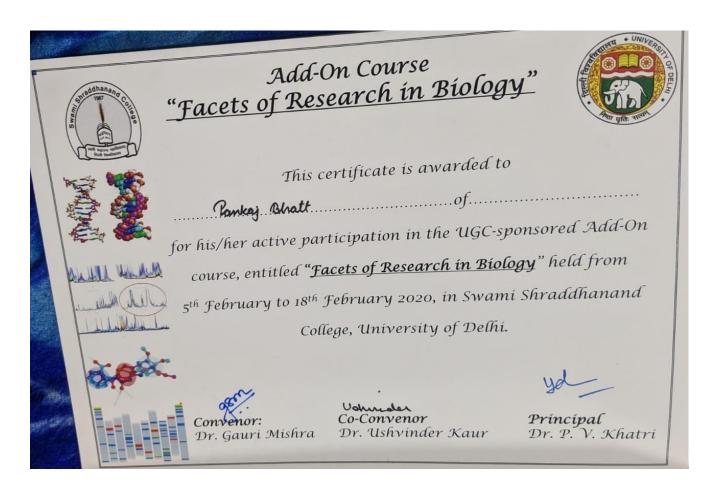
Industrial microbiology Hands on PCR Molecular Modeling Aging .....

For Registration: Zoology Lab

Convenor:

Dr. Gauri Mishra Dr. Ushvinder Kaur Principal: Dr. P. V.Khatri





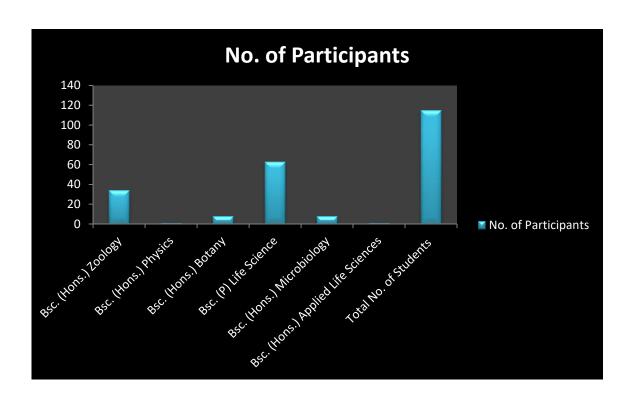
## **Program Schedule**

Sl.No.	Date	Speaker	Торіс
1.	05.2.2020	Prof. Sanjay Jain	Puzzle in bacterial growth and division
	11:30 am		
2.	07.3.2020	Dr. Archana Singh	Molecular Biology Techniques made
	11:30 am		simple: PCR & QPCR
3.	10.2.2020	Dr. Lokesh Chandra Mishra	Biology: Scope and Strategy
	12:00	TYRISHI W	
4.	11.2.2020	Dr. Anjani Kumar Tiwari	Bioinformarics and Biomedical Diagnosis in New Era
	11:00 am		III New Era
5.	12.2.2020	Dr. MeenakshiDiwedi	Caenorhabditiselegans: A model organism for studying autophagy and
	10:30 am	210 Macanana and Ma	aging.
6.	13.2.2020	Dr. I.K. Singh	In the Era of Translational Research: Insights into the role of In silico techniques
7.	14.2.2020	Dr. Amar Jyoti Singh	An Insight into in-vivo and in-vitro models of nanoparticles mediated drug delivery.
	12:00		denvery
8.	15.2.2020	Dr. Yogesh Sharma	Nanoparticles: Formulation, Characterization and their Applications
			DIPAS
9.	17.2.2020	Visit to an Institute	Defence Research and Development Organization
10.	18.2.2020	Dr. BhoopanderGiri Valedictory Function	Microbial Phytases and their Industrial Applications

### Analysis of Add on- "Facets of Research in Biology"

#### **Course-Wise Representation**

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	No. of
Courses	Participants
Bsc. (Hons.) Zoology	34
Bsc. (Hons.) Physics	1
Bsc. (Hons.) Botany	8
Bsc. (P) Life Science	63
Bsc. (Hons.) Microbiology	8
Bsc. (Hons.) Applied Life Sciences	1
Total No. of Students	115



#### **Attendance Sheet**

Facets of Research in Biology. 5th Feb - 18th Feb 2020

		Names/Dates	5.2.20	7.2.2020	10.2.2020	11.2.2020	12.2.2020	13.2.2020	14.2.2020	15.2.2020	16.4.2020	17.2.8420	18.2.2020
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Q. How was the content of the add on course?

All the designed topic were designed in such a way that it may proved useful in every aspects either in the present or for juture. I would specially thank L. k.

Singh Sir. he delivered at the messages in a very practice way. That really Joulled.

Q. Was the add on course useful? How?

Personally, I would say if was very north. I was blessed to join this downse. It really entighten the view and the way in the field of Research. Before this course I was topally in dark that what is actually Research? How is it done? Now if is very cot clear to me.

Q. Which seesions you liked the most?

(Indrahanth singli)

Dr I. K Singh Sin's session was the best among all.

Six hade started the senion with the story of his life which was the real stage of mine too. I was easily related all those story with me and six has very smoothly Q. Was the course coordinated well?

All the day was coordinated very well. I am very transful toward Gauri Ma'am to provide such our a program like this which has broaden our views fowards our carrier.

Q. How was the convenor?

They were, what I should I say, they were very sound
to early good. As on they all one in very large
platform. They all delivered all the tinings at our
level. That's fourthed.

Q. Suggestions, if any.

I would request Gouri Maam to organise this type
of Programme every year while will really
highlight the knings. It last, I Really Josank
(galler Maam. Thank You!

Life Science 4th sen

Ans The Content of the add on course?

The PCR technique, manopauticles, spectroscopy, Biophysics.

etc was very useful. The sliver coins, nanoparticles are so much useful o in your life.

Q. Was the add on course useful? How?

Yes the add on Course is elleful because thof
this course we learnt a lot I also motivale
us for Visualing the things and helps us
in learing different techniques the
Like nano technique, Spectaroscopy, lete This
course give large Exposure and Idea.
Q. Which seesions you liked the most?

It like Molecular Biology: Techniques made
Simple PCR & QPCR By Archana Singh.

Q. Was the course coordinated well?

Yes the Course is Coordinated well and from the course I like the most and very useful at what the Topic was very useful

Q. How was the convenor?

The Convenore was very good because of her whe get a lot to know more because of their and she gave so much to us to know more labout field of biology. I thankful to Gawei Mis-Q. Suggestions, if any.

ble need more courses to Enhance your per sonality and get to Known More about the field of Biology.

Q. How was the content of the add on course? The content of the source was of knowledge, help. It includer nausour topics, but migne farrounte was study and ucrearch on educations cells. It was no innovature and faccinatingo Q. Was the add on course useful? How? Yex, of course, it was very useful as I got to mane about various interesting topics which was so interesting. Q. Which seesions you liked the most? the third session of Du. Lokesh Chandra Mishua was very inspiring and full of motivation. the told his about our godls, ducams etc. Q. Was the course coordinated well? Yes, course was coordinated well by our speakers and mainly by our so-ordinator (Du. Gami Mishua). and (Du. Ushvinden haw). Q. How was the convenor? - Que converser Du- Gami Michia and Du. Oshuinden name was very Eufponting, helpful and mainly they are like one inspiration Q. Suggestions, if any. for passion in studies. No suggestions because our boths the co-outinatous was very Le, the anhyou by auni Mann & Ushvinden wan for organizing euch a helpful and motivating bu organizing add-on course for us.

AYUSHI GIUPTA

Feed back for the Add on "Facets of Research in Biology"

the content of the add on a second Q. How was the content of the add on course? very knowledgeable including PCR, Nanoparticles, Goal- Setting, Doug-Analysis Etc. · DRDO (Ministry of Defence) near suesome. Q. Was the add on course useful? How? → Yes, The Add-on-Course neas very Uxeful for us as we got wide prowiled ge about how to set goals? How to give Exams? 20049 - Analysis, Medicines, Biological facets etc Q. Which seesions you liked the most? -> I liked the Resolon of Day 3rd loy 2000 Lokesh Sor. He gave very lelautiful Lecture on goal Setting,
fhink About Career. Letc: sel other

Q. Was the course coordinated well? Seostons were good.

Yes, this Course near Coordinated
well by Respected Feachers (Dr. Gauris
Ushvinder. Mann) and other speakers. -> Convenor near very good for giving us knowledge, Motivation, go through us from many Annovative Popies. I think there should be some Refreshment for us during Add-onof shankyou to much Dr. Gawii Mam & Dr. Shvinder Mam for organizing such a will shvinder Mam for organizing such a will seautiful seld-on-course of Add-on-Course get chance again to be apart of Add-on-Course support.

- Q. How was the content of the add on course?
- : The content of the add-on course was very fantastic and knowlege enhancing. The content had all the points that are expected to be opplicable in the research and andemic fields. The content gave us an insight of the various field of siology that we can opt as our research popies.

  Q. Was the add on course useful? How?
- ! Yes, it was because it exposed as to the various aspects of biological formulations and daily life applications of the theories and ideas that we have studied in only the books.
- Q. Which seesions you liked the most?
- : The session by Ot. L.K. Mishra (i.e Biology: scope and strategy) was the most unful and productive ression. It not only exposed us to the various aspects of research in biology but also motivated us to do pomething fruitful Q. Was the course coordinated well? in our life.
- 2 /es, The course was coordinated well. There was no miscommunication or error in about the timings and were of the conducted classes
- The convener were very well. They took all the necessary Q. How was the convenor? skeps to make the course productive. They corporated with for studenty and also adversed the problems
- Q. Suggestions, if any.
- ! However, the add on course was conducted very well but a few times tother timings of the add-on course's classed a problem mith our regular senduled class which created a problem for us. This is the problem which should be solved.

- Q. How was the content of the add on course?
- content of every session was diverse and well informative. The way every professor come into a manner that we were able to understand those topics too at ose were very new for us.
- Q. Was the add on course useful? How?
- yes, the course was very useful. It not conly proceeds us the information in discress tespics but also help us to understand the diversing fields which can we pursue after graduation
- Q. Which seesions you liked the most?

The most motivating, helpful and intresting session was of Dr. Lokesh Mishra Sir. And for sure I gonna be in touch with him afterward too for more nativation and inspiration.

Q. Was the course coordinated well?

Jes. Mrs. course condinated very well.

Q. How was the convenor?

The consensu Dor. Gawri Mishera mam was so helpful and suppositive during the whole course and only because of her it was Possible, trope to attend more seminars like this.

- Q. Suggestions, if any. The maiam help us to find some internship & camp on of the professors dold us about the exams, universities and colleges we can apply for after graduation.
- We are in 2nd year, and for 2 years there were no such course before. Hope there will be more add one like this afterwards.

Q. How was the content of the add on course?

Amazing, New, innovative, and more. For me it is a key to new world and explose what I want to do. This gave me an overlook to new fillds and much more idea about updating and porgressian.

Q. Was the add on course useful? How?

This was negled for me because during this course I decided what I would to do and how. Specifically the lecture of Mr. lokesh chandra mishra and Mr. I. k Singh. changed my perspective to life, to science and opportunity, AND a visit Q. Which seesions you liked the most? person to reach and stand anywhere.

L' Dr. Loplesh Chandra mishra . sir .

2 Dr. Ilc singh sir.

3. DIPAS visit. Q. Was the course coordinated well?

Falscities were amazing and coordination was great. I nooking toward for such new add an courses.

Q. How was the convenor?

Dr. Gauri Mishra is very humble and helpful. She made us. to have acess on such new feilds. She is a good and influencing teacher as well.

Q. Suggestions, if any.

If you can arrange more institute visits in uproming add on course will help students to know more. Thou I love to be the past of new and neset upcoming add on course. Thanking so much for such efforts.

AZEEM KHAN B.Sc. LIFE SCIENCES

## Feed back for the Add on "Facets of Research in Biology"

Q. How was the content of the add on course?

The content of the add on course way new and informative. It was very appropriate for any research aspirant.

Q. Was the add on course useful? How?

The course was useful as it showed me or introduced me to new fields of research and presented how to use ideas to conduct research projects. It boosted my superficial knowledge towards new sagacity of the subjects.

Q. Which seesions you liked the most?

Most of the sersions were helpful but the best ones were where I got to see new technologies. Even as the sersion on PCR, aging research & biophysics session & tripp Q. Was the course coordinated well?

The coordination was quite well coordinated but it lacked coordination on part of

Q. How was the convenor?

The convenor did an excellent job on organising the add-on-conse-course. The went an extra step on gathering the day to day speakers from the leading institutions of India who had great experience in the receased field.

Q. Suggestions, if any.

This sort of sessions should be conducted more often.