

DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE, CALICUT

is organising a webinar on

**BIOLOGICAL RESEARCH:
EXPERIENCES OF RESEARCHER**



DR. P.K. SUMODAN
Associate professor
Rt. HOD, Department of Zoology
Govt.college Madappally

26 th February 2022
07:00 - 09:00 pm



Biological Research: Experiences of Researcher

On 26th February 2022 , the Department of Zoology in association with the R&D Cell, conducted a webinar on the topic "Biological Research:Experiences of Researcher by Dr,P.k. Sumodon,Rt.HOD,Department of Zoology ,Govt.College Madapally. The webinar commenced at 7pm and was conducted via Google meet.

The key points of the session were as follows: -

A good and sound research is based on framing a good research question. There are numerous ways of research methodology and it relies on the phenomenon being studied. For any type of research, the first ideal step would be to conduct a bibliographical research which is background reading which helps formulate and test the researcher's hypothesis. The primary source serves as the most reliable research material. Next, is to do empirical research to verify the hypothesis by obtaining original data through experimentation or observation.

EXPERIMENTAL RESEARCH

- The most widely used methodology in life sciences.
- Experiments can be conducted in the field or in laboratory.
- Data may be obtained from cell culture, physiological measurements, biochemical assays, interviews, questionnaires, etc.,
- Emphasizes on quantitative rather than qualitative data.

OBSERVATIONAL RESEARCH

- Often used to generate a question or a hypothesis.
- Also, to test the hypothesis.
- Could be the first step in answering the biological question.

SURVEY, QUESTIONNAIRES, INTERVIEWS

- Often used in human biology, psychology, behaviour studies
- To obtain valid results, there must be evidence that subjects respond to items consistently, internal consistency and evidence to prove that the measurements are valid.

BIBLIOGRAPHICAL AND ARCHIVAL RESEARCH

It includes wide range of studies that involve theoretical, interpretive and phenomenological analyses.

BIOLOGY EDUCATION RESEARCH

It compares two different teaching approaches in school children or students in two different groups.

The following steps highlight the guideline to a researcher in completing his research without any confusion:

1. Identification of research problem
2. Broad literature survey
3. Hypothesis formulation
4. Preparation of research design
5. Determining sample design
6. Data collection
7. Analysis of data
8. Hypothesis testing
9. Generalizations and interpretation
10. Preparation of the report or presentation of the results

He concluded his session by indicating that -A clearly stated research question helps the researcher to formulate a good study design and good study design is the backbone of any successful research.

26/02/2022

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Topic : BIOLOGICAL RESEARCH: EXPERIENCES OF RESEARCHER

List of students:

SL. No	Name
1	AISHA FATHIMA
2	ALKA K P
3	ANDREA D CRUZ
4	ARUNDHATI NAIR M M
5	ASWANA B R
6	AVANTHIKA K M
7	AVANTHIKA VIVEK
8	DAHEENA FATHIMA METHAL BAPPAYIL
9	DHANA V E
10	DIYA VINOD
11	FATHIMA NEHA M K
12	FATHIMA THAHSIN P K
13	FATHIMA ZUHA P K
14	FIDA PARVEEN
15	FIZA PARVEEN N P
16	GAYATHRY K
17	GOPIKA K
18	GOPIKA M
19	GOURI V P
20	HAMDA HARSHAD N
21	HANIYA SHAJI
22	LAKSHMI E
23	LIYA FATHIMA K V
24	MEERA V
25	MERIN SEBASTIAN
26	MUBASHIRA C
27	P V JAS KHALEEKHA
28	RADHIKA N
29	SAJITHA M S
30	SIVANI R S
31	SIVAPRIYA V V
32	VUFILA UMAR T P

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26/02/2022

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TOPIC: BIOLOGICAL RESEARCH: EXPERIENCES OF RESEARCHER

List of Students.

Sl.No.	Name
1	ANCY MARIYA ALEX
2	CHRISTEENA T SIMON
3	NANDHANA K E
4	SAFFANA MAHAMOOD
5	SHRUTHIKA R
6	VIDYA LAKSHMI T
7	ADITHYA V K
8	ANEESHA K V
9	ARZIN RIYA K
10	FATHIMA RINSHA M
11	PARVANA S NAIR
12	RINSHA FATHIMA M
13	SAFA FATHIMA A P
14	SANOORA
15	VANDANA P
16	AISWARYA M K
17	AJANYA K K
18	AMEENA JABEEN K K
19	AMRUTHA K
20	ANAMIKA M K
21	ANANYA P
22	ANCSY ALEXANDER
23	ANUMOL
24	ANUSHA O
25	ANUSREE T
26	ARCHANA P A
27	ASWATHI U K
28	BINCY ELIZABETH P J
29	DARSANA E K
30	GAYATHRI K
31	HALKA HARISH
32	HISANA SHERIN M K
33	JALEETTA JAYSON

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CALICUT - 673005

DR. NISHI ANN

PROFESSOR & HEAD

Sl.No.	Name
34	JYOTHIRMAYI C H
35	KRISHNA PRIYA S
36	NEHA S
37	NITHYA P M
38	NITHYARAJ O M
39	SANDRA C
40	SHREYA SREEKUMAR
41	SONA BOBAN
42	TEENA MARY BAIJU



[Signature]
DR. NISHU ANN
ASST. PROFESSOR & HEAD
DEPARTMENT OF ZOOLOGY
PROVIDENCE WOMEN'S COLLEGE
CALICUT- 673 009