



"Educating hearts and minds"

HOLY CROSS COLLEGE

ACCREDITED BY NAAC WITH 'A+' GRADE (CYCLE:2)

Tripura University Reg. Code: 17

Jubatara, P.O. Lembucherra, Tripura West Pin-799210

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DEPARTMENT OF BOTANY

Report On

Two Days Workshop on

Statistical Analysis and Data Handling in Bioscience Research using MS-Excel and Statistical Package

Date: 25th to 26th July, 2023

Organized By- Department of Botany, Holy Cross College, Agartala

About the Workshop

Two days' workshop on "Statistical Analysis and Data Handling in Bioscience Research using MS-Excel and Statistical Package" was organized by the Department of Botany, Holy Cross College, Lembucherra, Agartala, India on 25th and 26th July, 2023. This workshop was arranged to serve the objectives of using statistical tools in writing several research papers and calculating several data during project works in Bioscience.

Resource Person

The training member was Dr. Samrat Hore, Head I/C, Department of Statistics, Tripura University, Tripura, India. Dr. Hore is a highly professional and skilled Person. He is also a Life Member of Calcutta Statistical Association, International India Statistical Association and Indian Society for Medical Statistics.

Organizing Team

The members of the organizing Team are Dr. Dipanwita Chaudhuri Sil, HOD, Department of Botany, Dr. Debasree Lodh, Dr. Somnath Kar and Dr. Sudipta Sinha, Assistant Professor, Department of Botany, Holy Cross College, Lembucherra, Agartala, India.

Participants

Total 59 students from the Department of Botany, B.Sc. General, Zoology and Human Physiology, Holy Cross College, Agartala, India attended the workshop.

Outcome from the Workshop

On first day the program commenced with a welcome address by Dr. Benny K. John, CSC, Principal, Holy Cross College. Then with an introductory speech by Dr. Dipanwita Chaudhuri Sil, HOD, Department of Botany, Holy Cross College. An addressal speech about the workshop was given by Dr. Samrat Hore. The inaugural session was ended by vote of thanks by Dr. Somnath Kar, Assistant Professor, Department of Botany, Holy Cross College.

After the end of inaugural session Dr. Samrat Hore presented in short the importance's of study of statistical science. With the start of the first technical session Dr. Hore gave a profound insight of how, why and when statistical formulas are used in writing scientific articles. Dr. Hore also gave live examples of using statistical analytic methods in various fields of works. Not only in writing scientific articles but also how statistical analysis is used in offices, schools and several other places.

The second technical session was arranged in the computer Lab. This was a highly informative session where all the students were shown practically in the computers how to analyse statistical data using Microsoft excel. Dr. Hore demonstrated them the use of several statistical formula using excel. After that the students were allowed to calculate some random data to comprehend properly the use of statistical formulas.

On the second day of the workshop Dr. Hore started the session with informative PowerPoint presentation. The presentation was extremely valuable. Dr. Hore clearly demonstrated the use of a statistical programming tool i.e., R programming tool. The use of R programming to analyze several statistical data was comparatively easier and also large range of data can be calculated. In both the session the student's participation was highly noticeable. On this special workshop they were benefited to know the use of statistical analysis not only in their studies but also how these are used in official works also. Students were also able to gather a lot of essential information's concerning future scenarios as basic statistical concepts help biologists correctly prepare experiments, verify conclusions and properly interpret results.





[Signature]
09/08/2023
HEAD



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"Educating hearts and minds"

To
Dr. Samrat Hore
Head (I/C)
Department of Statistics
Tripura University

Through the Proper Channel

Subject: Request to attend as a Resource person on 25th to 26th July, 2023 at Holy Cross College, Agartala.

Respected Sir,

Department of Botany is going to conduct two (2) days workshop on "Statistical Analysis and Data Handling in Bioscience Research using MS-Excel and Statistical Package" at Department of Botany Holy Cross College on 25th to 26th July, 2023.

You are requested to attend the workshop as "Resource person". Your valuable presence will help the students to gather knowledge.

Thanking you,

Date: 18th July, 2023

Approved
[Signature]
18/07/2023
PRINCIPAL
HOLY CROSS COLLEGE
AGARTALA

Yours faithfully

Dr. Dipanwita Chaudhuri Sil

(Dr. Dipanwita Chaudhuri Sil)

HOD, Department of Botany,

Holy Cross College, Agartala

HEAD
Department of Botany,
HOLY CROSS COLLEGE, AGARTALA



2 DAYS WORKSHOP ON
STATISTICAL ANALYSIS AND DATA HANDLING IN
BIOSCIENCE RESEARCH USING MS-EXCEL AND
STATISTICAL PACKAGE

Date: 25th & 26th July, 2023 | Time: 11.00 am

Organised by
Department of Botany
Holy Cross College, Agartala
Accredited by NAAC with 'A+' Grade (Cycle 2)

Resource Person

Dr. Samrat Hore
Head (I/C), Department of Statistics
Tripura University, Suryamaninagar



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2 Days Workshop on Statistical Analysis and Data Handling in Bioscience Research using MS-Excel and Statistical Package

Date: 25th and 26th July, 2023

Day - 1

25th July, 2023

Time: 11:00 am onwards

Inaugural Session

1. Felicitation of the Resource Person
2. Welcome address – **Dr. Fr. Benny K. John**, CSC, Principal, HCC
3. Introduction about the Workshop – **Dr. Dipanwita Chaudhuri Sil**, HOD, Department of Botany
4. Address by – **Dr. Samrat Hore** (Resource Person)
5. Vote of Thanks – Dr. Somnath Kar, Assistant Professor, Department of Botany

End of Inaugural Session

1st Technical Session

1. Interactive session – Dr. Samrat Hore
 2. Technical session – Dr. Samrat Hore
-

Day - 2

26th July, 2023

Time: 11:00 am onwards

2nd Technical Session

1. Technical session – Dr. Samrat Hore

Two Days Workshop on
Statistical Analysis & Data Handling in Bioscience
Research using MS-Excel & Statistical Package
Organized by - Department of Botany, Holy Cross College, Agartala

Attendance Sheet

Date - 25/07/2023

<u>Sr No.</u>	<u>Full Name</u>	<u>Department</u>	<u>Signature</u>
1	Naimur Nahar	BSc (general)	Naimur Nahar
2	Abin Bhattacharjee	Bot (Hons) 4th Sem	Abin Bhattacharjee
3	Ritiripta Sen	B.Sc (general) 4th Sem	Ritiripta Sen.
4.	Sayan Chakraborty	B.Sc (general) 4th Sem	Sayan Chakraborty
5.	Disika Chakraborty	Hphy (Hon.) 4th Sem	Disika Chakraborty
6.	Sanjana Sen	H. phy (Hon.) 4th Sem	Sanjana Sen
7.	Arghamita Baidya	Bot- (Hons), 2nd sem	Arghamita Baidya
8.	Saptadeep Talukdar	Bot. (Hons) 4th sem	Saptadeep Talukdar.
9.	Anhina Debbarma	Bot. (HONS) 4th sem	Anhina Debbarma
10.	Neha Sinha	Botany (Hons) 4th semester	Neha Sinha
11.	Sindrita Debbarma	Botany (Hons) 4th sem	Sindrita Debbarma
12.	Ankita Choudhury	Botany (Hons) 4th sem	Ankita Choudhury
13.	Naiphang Debbarma	Bot Hon. (2nd sem)	Naiphang.
14.	Ayush Debbarma	Bot. Hon (2nd sem)	Ayush Debbarma
15.	Biplab Debbarma	Bot. Hon (2nd Sem)	Biplab Debbarma
16.	August Debbarma	Bot. Hon (2nd sem)	August Debbarma.
17.	Jushel Debbarma	Bot. Hon (2nd sem)	Jushel Debbarma.
18.	Chumui Debbarma	Bot. Hon (2nd sem)	Chumui Debbarma
19.	Boyar Debbarma	Bot. Hon. (2nd sem)	Boyar Debbarma
20.	Sand Debbarma	Bot. Hon. (2nd sem)	Sand Debbarma
21.	Ezekiel Debbarma	Bot. Hon (2nd sem)	Ezekiel Debbarma
22.	Rajib Debbarma	Bot Hon (4th Sem)	Rajib Debbarma

Two Days Workshop on
Statistical Analysis & Data Handling in Bioscience
Research using MS-Excel & Statistical Package

Organized by - Department of Botany, Holy Cross College, Agartala

Attendance Sheet

Date - 25/07/2023

<u>Sl No.</u>	<u>Full Name</u>	<u>Department</u>	<u>Signature</u>
23.	Zullius Debbarma	Bot (H) 4th sem	Zullius Debbarma
24.	Raniet Debbarma	Bot (H) 4th Sem	Raniet Debbarma
25.	Amish Debbarma	Bot (H) 4th sem.	Amish Debbarma.
26.	Vishal Kumar	Bot (H) 4th Sem	Vishal Kumar
27.	Bishal Mondra Sing	Bsc (Gen) 4th sem	Bishal Mondra Sing
28.	Hamari Jamatia	Bot (H) 2nd sem	Hamari Jamatia
29.	Hambara Debbarma	Bot (H) 2nd sem	Hambara Debbarma
30.	Regal Shree Debbarma.	Bsc (Gen) 2nd sem	Regal Shree Debbarma.
31.	Himani Chakma	Bot (H) 2nd sem	Himani Chakma
32.	Rosemita Reang	Bot (H) 2nd sem	Rosemita Reang
33.	Srayesha Reang	Bot (H) 2nd sem	Srayesha Reang
34.	Hamari Debbarma	Bot (H) 2nd Sem	Hamari Debbarma
35.	Amrita Debbarma	Bot (H) 2nd Sem	Amrita Debbarma
36.	Selina Singh	Bot (H) 2nd sem	Selina Singh
37.	Neha Debnath	Bot (H) 2nd sem	Neha Debnath.
38.	Susmita Debbarma	Bot (H) 2nd sem	Susmita Debbarma
39.	Jagriti Dhar	Bot (H) 2nd sem	Jagriti Dhar.
40.	Reshmi Roy	H. PHY (H) 4th Sem	Reshmi Roy
41.	Debasmita Datta	H. phy (H) 4th Sem	Debasmita Datta.
42.	Saptarni Nath	H. phy (H) 4th sem	Saptarni Nath
43.	Pankui Debbarma	ZOO (H) 4th sem	Pankui D/B
44.	Rinku Nath	BOT (L) 4th sem	Rinku Nath

HOLY CROSS COLLEGE

ANSWER SCRIPTS

Name.....


Roll No.....Dept.....

Subject.....

Attendance Sheet

Date - 25/07/2023

<u>Sl No.</u>	<u>Full Name</u>	<u>Department</u>	<u>Signature</u>
45.	Pohor DebBarma	H.Phyc(H), 4th Sem	Pohor DebBarma
46	Rajat Debnoti	Zoology (H), 4th	Rajat Debnoti
17	Rajat Debnoti		Rajat Debnoti
18	Parag Saha	Zoology (H), 1st	Parag Saha
49.	Snehendu Bhowmik	Zoology (H), 4th	Snehendu Bhowmik
50.	Suvasini Majumdar	Zoology (H), 4th sem	Suvasini Majumdar
51.	Shwetab Choudhury	Zoology (H), 1st Sem	Shwetab Choudhury
52	Eshika Dey	Zoology (H), 1st sem	Eshika Dey
53.	Baishali Bhattacharjee	Zoology (H), 4th sem	Baishali Bhattacharjee
54.	Bocholong Debbarma	Bsc (general), 6th sem	Bocholong Debbarma
55.	Siyari Jamlia	B.Sc (Gen) 6th sem	Siyari Jamlia
56.	Sapratik Debbarma	B.Sc (Gen) 6th sem	Sapratik Debbarma
57.	Ajay Jaha	B.Sc (Gen) 2nd sem	Ajay Jaha
58.	Md Uday Khadim	B.Sc (Gen) 2nd sem	Uday Khadim
59.	Sushmita Sutradhar.	Bot (H) 2nd sem	Sushmita


 25/08/2023
HEAD
 Department of Botany,
 HOLY CROSS COLLEGE, AGARTALA

Workshop on Statistics (2nd Day)

Attendence Sheet

26/7/23.

Sl. No.	Name of the Student.	Department.	Signature.
1.	Jagriti Dhar	Botany (2 nd)	Jagriti Dhar
2.	Neha Debnath	Botany (2 nd)	Neha Debnath
3.	Selina Singh	Botany (2 nd)	Selina Singh
4.	Naimur Nahar	BSC (gen) 1 st 6 th	Naimur Nahar
5.	Neha Sinha	Botany (4 th semester)	Neha Sinha
6.	Susmita Debbarma	Botany (2 nd sem)	Susmita Debbarma
7.	Amrita Debbarma	Botany (2 nd sem)	Amrita Debbarma
8.	Hamari Jamatia	Botany (2 nd sem)	Hamari Jamatia
9.	Hambasa Debbarma	Botany (2 nd sem)	Hambasa Debbarma
10.	Sushmita Sutradhar.	Botany (2 nd sem)	Sushmita Sutradhar.
11.	Anghamita Baidya	Botany (2 nd sem)	Anghamita Baidya.
12.	Deepanu Datta.	H. Phy (4 th sem)	Deepanu Datta.
13.	Sindriya Debbarma	Botany (4 th sem)	Sindriya Debbarma
14.	Rajib Debbarma	Botany (4 th sem)	Rajib Debbarma
15.	Hilal Chakraborty.	Botany (4 th sem)	Hilal Chakraborty.
16.	Saptadeep Talukdar		
16.	Saptadeep Talukdar	Bot (Hons.) 4 th sem.	Saptadeep Talukdar.
17.	Abin Bhattacharjee	Bot (Hons) 4 th sem.	Abin Bhattacharjee
18.	Sayan Chakraborty	B.Sc (Gen) 4 th sem	Sayan Chakraborty
19.	Ritiripta Das	B.sc (Gen) 4 th sem	Ritiripta Das
20.	Anirban Bose	B.sc (Gen) 4 th sem	Anirban Bose.

Workshop on Statistics .

Attendance Sheet . (Day-2)26/7/23.

Sl.No.	Full name .	Department	Signature .
21	August Debbarma	Bot (H) 2nd sem	<u>August</u>
22.	Jushel Debbarma	Bot (H) 2nd sem	Jushel Debbarma
23.	Biplab Debbarma	Bot (H) 2nd Sem	Biplab Debbarma
24.	Sanel Debbarma	Bot (H) 2nd Sem	Sanel Debbarma
25.	Eruviel Debbarma	Bot (H) 2nd Sem	<u>Eruviel</u>
26	Bishal Moya Singh	Bot (H) 2nd Sem	Bishal Moya Singh
27	Anwesha Das	Bsc Gen 4 th sem " 4 th	Anwesha Das
28	Ankita Choudhury	Bot (H) 4 th	Ankita Choudhury
29	Angel Debbarma	Zoo (H) , 2nd	Angel Debbarma
30.	Debjani Bhattacharya	Zoo (H) , 2nd	Debjani
31.	Shweta Baidya	Zoo (H) , 2nd	Shweta Baidya
32.	Pratiksha Deb.	Zoo (H) , 2nd	Pratiksha Deb.
33.	Akash Paul .	Zoo (H) , 2nd	Akash Paul.
34.	Ankita Saha	Zoo (H) 2nd	Ankita Saha
35.	Bidushi Datta	Zoo (H) 2nd	Bidushi Datta
36.	Prepti Roy	Zoo (H) 2nd	Prepti Roy
37.	Srija Majumder	Zoo (H) 2nd	Srija Majumder

02/08/2023

HEAD

Department of Botany,
HOLY CROSS COLLEGE, AGARTALA



HOLY CROSS COLLEGE, AGARTALA

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Certificate of Appreciation

This is to Certify that

Dr. Samrat Hore

Head (I/C), Department of Statistics, Tripura University, Suryamaninagar

has been the Resource Person at the

2 days Workshop on

STATISTICAL ANALYSIS AND DATA HANDLING IN BIOSCIENCE RESEARCH

USING MS-EXCEL AND STATISTICAL PACKAGE

organised by Dept. of Botany, HCC

on 25th & 26th July, 2023

Dr. Fr. Benny K. John, CSC

Principal
Holy Cross College