



World and National Statistics Day



Report of National Statistics Day celebration:

On the occasion of 'National Statistics Day' - 29th June 2020, the Statistics Department organized an online webinar on 'National Systems in India' by Dr. Vrinda Joglekar, former Head, Department of Statistics, Hislop College. She briefed the audience about various national organizations like C. S. O, NSSO and other central statistical systems and highlighted their national importance.

The talk was followed by conduction of innovative online live Statistics quiz-'Stat-Storm' for all undergraduate students of Statistics affiliated to Nagpur University. The quiz was conducted by Head of the Department Dr. Jyoti Shiwalkar and former HOD of Statistics, Dr. Vrinda Joglekar using an online video conferencing platform WebEx. This online quiz gave an insight into how in future such quiz type of competitions can be conducted for students with the help of modern mediums. Conducting a live online quiz for the first time was met with a lot of apprehensions but the smooth and successful conduction by the coordinators along with the cooperative participants made it very interesting.

When the questions were asked by the quiz master and were simultaneously displayed on the screen, the name of the participant who sends correct and quick answer in the quiz master's chat box was declared by the quiz master. The correct answer was then declared for all participants. The feedbacks from the participants were all positive stating that the quiz was interesting and exciting. This programme was attended by almost 150 students from 5 colleges affiliated to Nagpur university.

1) Report of World Statistics Day Celebration by Department of Statistics:



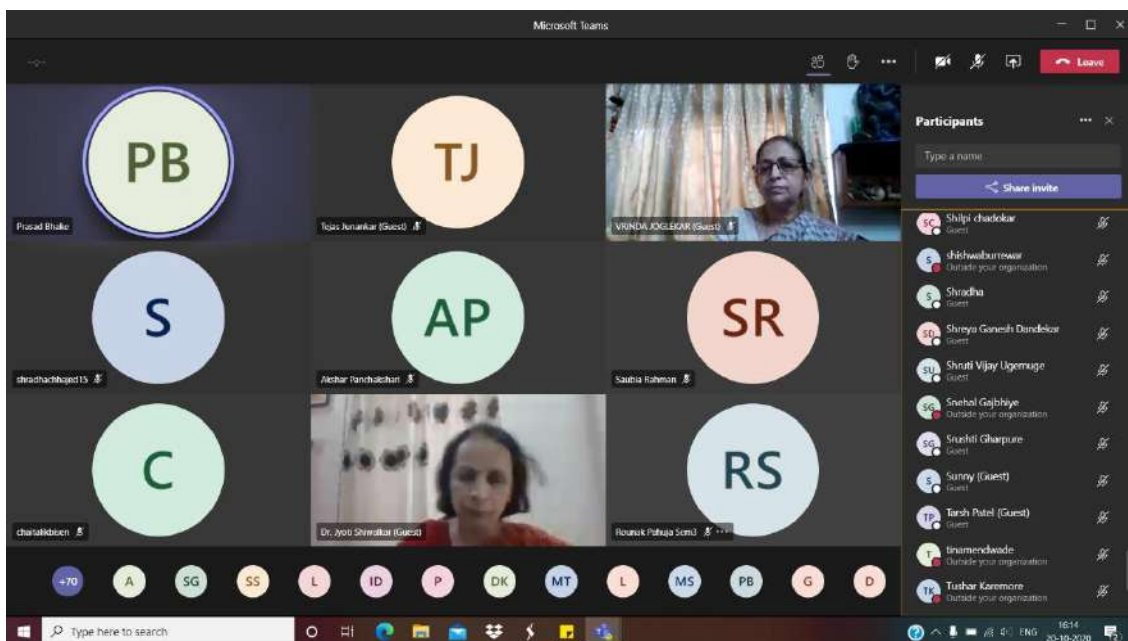
The Department of Statistics of Hislop College celebrated the World Statistics Day, a five-yearly event, on 20.10.2020 by organizing an online intercollegiate event 'Statopia' for the students of Statistics affiliated to RTM Nagpur University. It was the third World Statistics day, since 20.10.2010. This year the theme was 'Connecting the world with Data we can trust'.



Dr. Jyoti Shiwalkar, Head, Department of Statistics, in her introductory speech said that, this theme reflects the importance of collection of accurate and valid data and how we can connect with the

globe by means of trustworthy facts and figures. She further said that in the context of the recent outbreak of corona virus, it's possible origin from China, credibility of Chinese data and the role of 'WHO' this year's theme of World Statistics Day is very relevant and important.

The event Statopia was organized at an intercollegiate level by conducting two competitions namely FYI and Imposter competitions. FYI (For Your Information) was organized with an objective of knowing Statistics heritage. Ten students from 5 different colleges participated in this competition and briefed the audience about life and work of eminent National and International statisticians like Prof. P. C. Mahalanobis, Prof. R. A. Fisher, Prof. C. R. Rao, Karl Pearson, W. A. Gosset, Cox, Demig, Florence Nightingale, Thomas Bayes' and Debabrata Basu.



In the Imposter competition, seven students from various colleges presented their statistical diagrams / graphs in terms of beautiful e-posters based on real data sets available on net / in news papers. They interpreted their data sets with the help of prepared e-posters very well. The objective of this competition was to be able to represent and interpret the data correctly. This competition reflected the theme of World Statistics day very well. In addition to these competitions there were many interesting fillers presented by 14 student members of Statopia host team of Hislop College. These fillers gave many interesting examples of manipulation of data worldwide and stressed the importance of collection of valid and accurate data. These fillers were very well enjoyed by all audience.

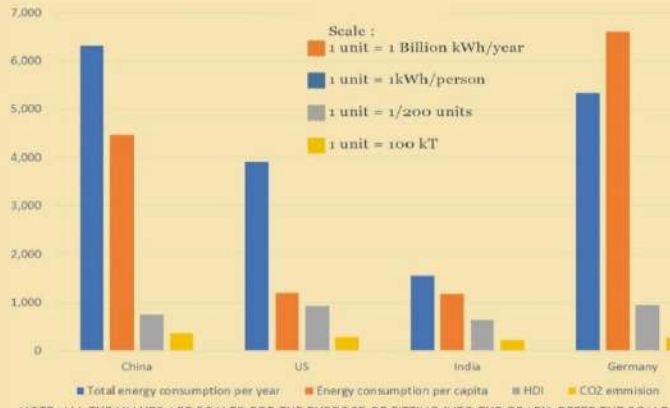
Dr. Vrinda Joglekar, former, HOD of Statistics Department was the judge for these two competitions. She reviewed all presentations in the two competitions and interviewed the FYI and Imposter participants. She guided them by providing add on information about statisticians and by giving suggestions for effective representation of data.

Ms. Emelin Mathew of Institute of Science, Nagpur and Ms. Paridhi Singh of Shivaji Science College, Nagpur bagged respectively the first and second prize in FYI competition.

Mr. Tejas Junankar of Hislop College was the winner and Mr. Sahil Pawar of Institute of science was the runner up in Imposter competition. The prizes were sponsored by Dr. Jyoti Shiwalkar, Head, Department of Statistics, Hislop College. All the students who participated in the intercollegiate competitions of Statopia were awarded certificates of participation by the host college.

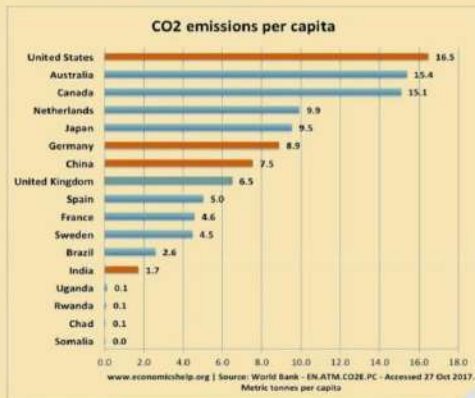
Almost 120 student participants attended the event Statopia from 4:00 pm to 6:00 on Microsoft Teams platform. The feedback and response of audience as well as teachers of participating colleges for the event Statopia was overwhelming. They all congratulated the host team of Statopia for successful and fruitful celebration of World Statistics Day.

COUNTRY WISE ENERGY AND CO2 CONSUMPTION AND HDI (HUMAN DEVELOPMENT INDEX)



NOTE: ALL THE VALUES ARE SCALED FOR THE PURPOSE OF FITTING INTO THE GRAPH. REFER THE SCALE GIVEN

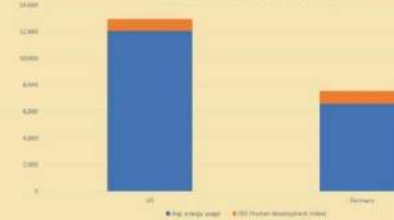
Selected countries CO2 emissions per capita



EXAMPLE OF EFFICIENT DEVELOPMENT

GERMANY SHOWS APROX. SAME HDI WITH 66% LESS ENERGY USAGE THEN US

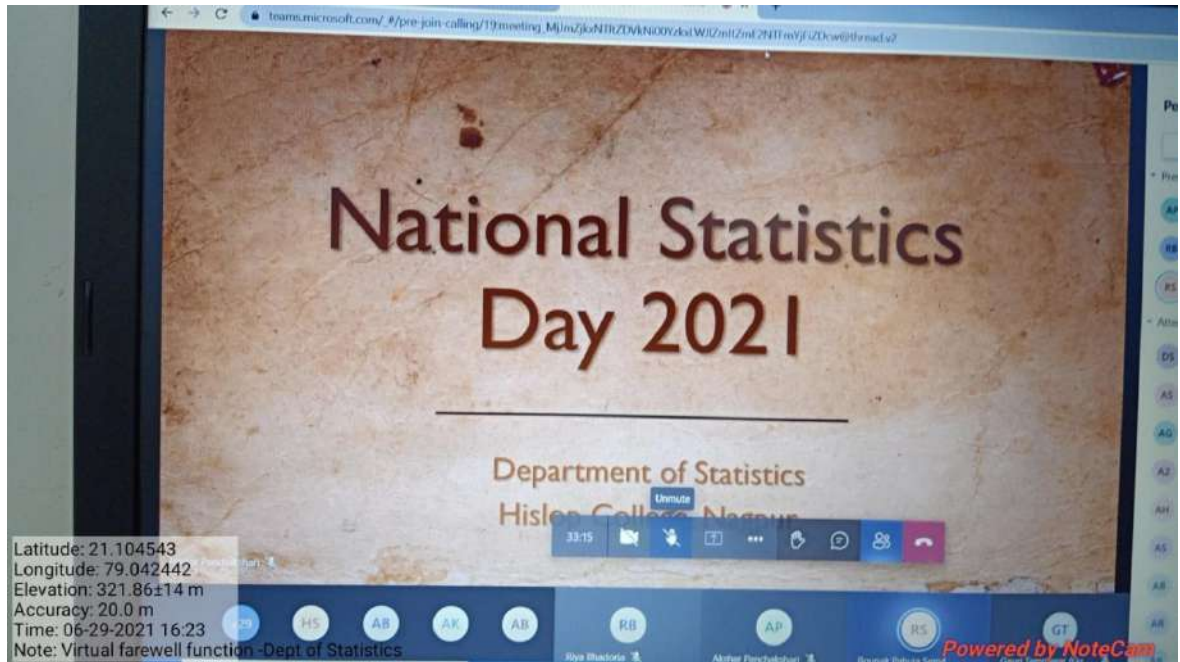
HDI of US and Germany at given energy usage



Tejas Junankar's (Hislop College) First prize winning Poster at Statopia

2) Online Celebration of National Statistics Day 29th June 2021:

Department of Statistics, Hislop College, Nagpur celebrated 129th Birth Anniversary of Dr. Prasanta Chandra Mahalanobis on 29th June 2021, as the 15th National Statistics Day. An innovative online programme was organized by the department for the students of Statistics from 5 colleges affiliated to RTM Nagpur University on Microsoft Teams platform.



The programme started with introductory speech by the Head of the Department, Dr. Jyoti Shiwalkar in which she said that the aim of this year's National Statistics Day is to create public awareness about the importance of data in socio-economic planning and policy formulation. She further said that the theme of today's programme is to conduct curricular activities in a fun-filled way so as to develop the basic understanding of the subject and related knowledge enrichment amongst the student audience.

Dr. Kumud Kherdekar Gore, former Principal, Government Arts and Science College, Aurangabad was the guest of honour and she was the judge for the Intercollegiate Statistical Enigma Competition.

Organizing team of students-Akshar, Rounak, Gauri, Riya and Atharva presented the life and work of Dr. Prasanta Chandra Mahalanobis very innovatively in the form of dialogues, interactive conversations and presenting stacks of memorable photographs. They highlighted all important events in the complete tenure of Dr. Mahalanobis. It created the impression of watching an interesting documentary film on life and work of this famous statistician of Indian origin.

Prof. P. C. Mahalanobis

Known as "Father of Indian Statistics", Prof. Prasanta Chandra Mahalanobis OBE, FNA, FASc, FRS an imminent scientist, a master planner, and a great statistician.

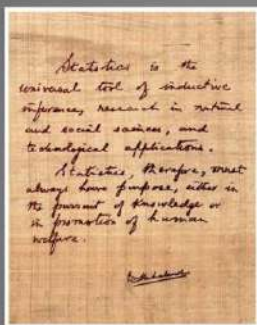
Latitude: 21.104547
 Longitude: 79.042445
 Elevation: 321.81±14 m
 Accuracy: 20.0 m
 Time: 06-29-2021 16:25
 Note: Virtual farewell function -Dept of Statistics

Powered by NoteCam



PC Mahalanobis at the conference on standardization and Quality Control at ISI (Presidency College Premises) 00.02.1948

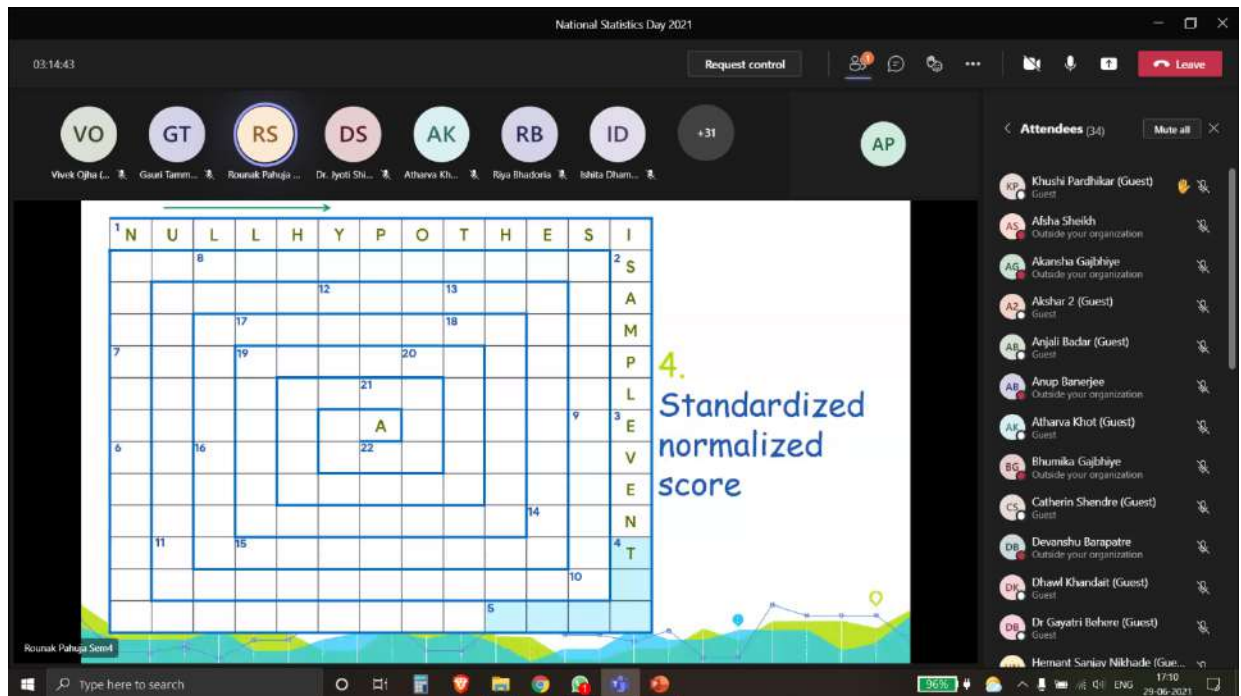
Mahalanobis also took efforts for statistical quality control for this he met with the "Father of Statistical Quality Control" - Dr. Walter Shewart.



Prof. Mahalanobis viewed statistics not as a branch of mathematics but as a technology. He is still being remembered for the Mahalanobis Distance, a statistical measure, and for his great contribution in the large scale sample survey. He continues to inspire statisticians in India and around the world.



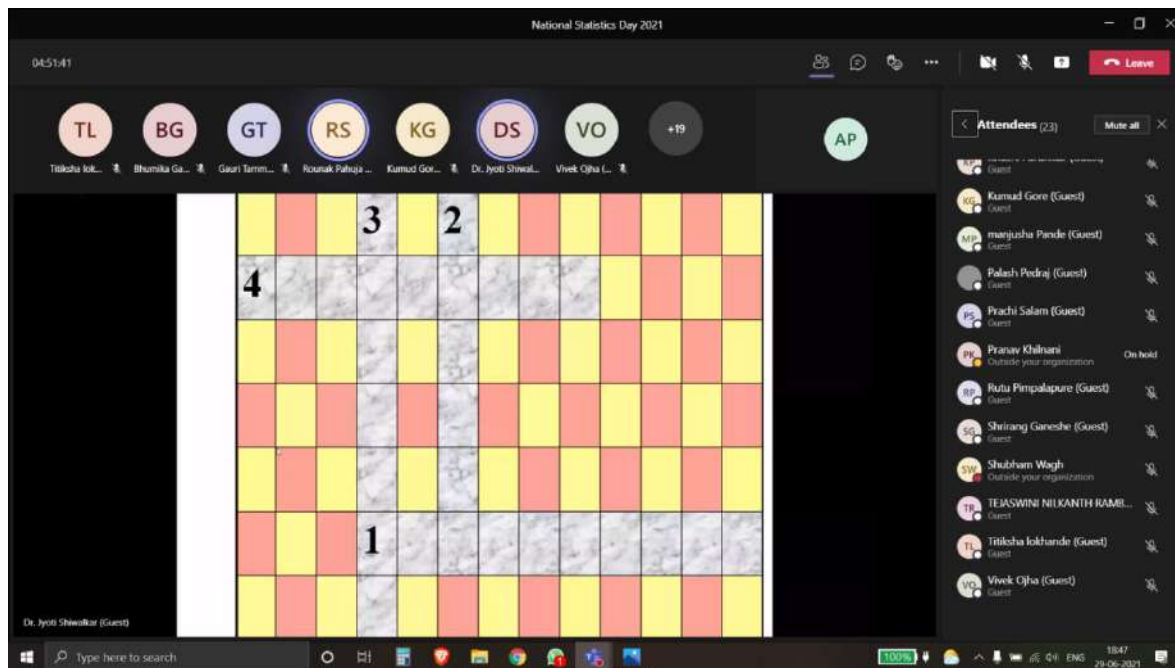
This was followed by a clue based competition on statisticians, titled as 'Know Your Statistician' with an objective to make students aware of the statistician's contribution in inventing statistical techniques. Three clues were given one by one to the audience for identifying the correct statistician. When the member from audience declared the answer, more information about the identified statistician was provided to students.



The second competition for audience was the ‘Stat Maze’ which received an amazing response. On the basis of statistical clues, the 22 words in the maze were enthusiastically and amazingly filled by the student audience.

The third competition was an innovative of its kind- Intercollegiate Statistical Enigma Competition. In this competition 11 students participated. They were asked to choose the topics /concepts in their Statistics syllabus which they feel are counterintuitive and were asked to present the topic in such a way that concept will be cleared to audience. They were asked to do this with the help of power point presentations. This competition was very innovative and lucid presentations and the interaction with the judge Dr. Kumud Gore, cleared all doubts of participants as well as the audience.

The last competition was a bunch of six online cross-word puzzles; titled-Whats the Good Word? Cross word puzzles appeared on screen sequentially. Dr. Jyoti Shiwalkar gave clues to identify the correct word. This competition received an overwhelming response from the audience.



At the end, Dr. Kumud Gore, in her speech reviewed the Statistical Enigma competition and congratulated the participants and gave her valuable suggestions to some participants and sponsored the third prize.

The prizes for Intercollegiate were declared as follows:

Statistical Enigma competition:

First Cash Prize of Rs. 1000/- Ms. Titiksha Lokhande –Institute of Science

Second Cash prize of Rs. 500/- Ms. Afsha Shelkh- Hislop College,

Third Cash prize of Rs, 500/- Ms. Bhumika Gajbhiye, Hislop College (Sponsored by Dr. Kumud Gore)

A pleasant surprise cash prize of Rs. 500/- was declared by the organizers at the end for scoring maximum points by giving correct answers in the three audience competitions. This prize was received by Mr. Hemant Nikhade from Institute of Science.

The programme concluded with vote of thanks. Ms. Gauri Tammiwar anchored the whole Programme. Student of Statistics from Institute of Science, Hislop College, Shivaji Science College, Dr. Ambedkar College and Dharampeth Science College participated as student audience. Teachers of Statistics from these collages also attended the programme. Everyone from the audience lauded the efforts of organizers and appreciated the programme as an Innovative fun filled learning experience.

Hislop College, Nagpur
Department of Statistics
Organizes

“STATISTICA-2021”

A National level Two-Day Online Workshop for students of Statistics

Date: 27th – 28th October 2021 Time: 10:00 AM to 3:45 PM on MS Teams

Programme schedule

Day-1 Wednesday, October 27th, 2021

Session	Programme	Time
I	Inaugural Session	9:45 am-11 am
	<ol style="list-style-type: none"> 1. Welcoming the guests and online lighting the lamp. 2. Prayer by Dr. Ajay Yoel, Vice Principal, Hislop College, Nagpur 3. University song 4. Statistics Zingle 5. Introductory speech by Convener -Dr. Mrs. Jyoti Shiwalkar 6. Principal’s address 7. Introduction of guest speaker Dr. Srinivas Bhogle 8. Key note address by Dr. Bhogle- ‘Argumentum: How to infer data?’ 9. Vote of thanks 	
II (1)	‘Stat Maze’ Competition for student audience	11:00 am to 11:40 am
(2)	Invited talk by Dr. A. P. Gore on ‘Statistics and Dixit Diet for Diabetes’ followed by Summary of talk & Q/A session	11:40 am to 12:50 noon
II (3)	Book release function ‘Do it Yourself-An Activity Book for the UG students of Statistics’ authored by Dr. Vrinda Joglekar and Dr. Jyoti Shiwalkar at the hands of Prof. M. N. Rao Speech by Prof. Rao	12:50 pm to 1:10 pm
	Lunch Break	1:10 pm -1:40 pm

III (1)	Case studies on Data Analysis by Hislop College UG students	1:40 pm -2:15pm
III (2)	“My Story” Guest Speaker Mr. Samadhan Ghubade	2:15 pm-2:45 pm
IV	‘Stat Star’-Problem Solving Competition for UG students	3:00 pm to 3:45 pm
End of day-1 programmes		

Day-2 Thursday, October 28th, 2021

Session	Programme	Time
I (1)	Summary (Recap) of day -1	10:00 am-10:15 am
I (2)	Invited talk by Dr. Srinivas Bhogle on ‘Statistics and Cricket’ followed by Summary of talk & Q/A session	10:15 am to 11:30 am
II	‘Practistic competition’ for student audience	11:30 am to 12:30 noon
Lunch Break		12:30 to 1:00 pm
III (1)	Invited talk by Dr. Shashibhushan Mahadik on ‘A Story of Peacock counting in Shivaji University Campus’ followed by Summary of talk & Q/A session	1:00 pm to 2:15 pm
III (2)	‘Think and Ink’ competition for student audience	2:15 pm -2:45 pm
IV (1)	Valedictory function Guest speaker Dr. Vrinda Joglekar	2:45 pm-3:30 pm
IV (2)	Participant student audience feedback speeches Prize distribution of Statistica-2021	3:30 pm- to 3:45 pm
End of day-2 programmes		



HISLOP COLLEGE PRESENTS

STATISTICA 2021



NATIONAL LEVEL TWO-DAY ONLINE WORKSHOP FOR STUDENTS
OF STATISTICS

27TH-28TH OCTOBER 2021

ORGANIZED BY
DEPARTMENT OF STATISTICS,
HISLOP COLLEGE, NAGPUR.

PATRON

THE MOST REV. DR. P. C. SINGH
MODERATOR CNI SYNOD,
CHAIRMAN HISLOP EDUCATION SOCIETY, NAGPUR.

PRINCIPAL

DR. PRASHANT SHELKE
OFFICIATING PRINCIPAL
HISLOP COLLEGE, NAGPUR

VICE PRINCIPALS

DR. AJAY YOEL
DR. P.E.P. MICHAEL
HISLOP COLLEGE, NAGPUR

CONVENER OF
WORKSHOP

DR. JYOTI SHIWALKAR
HEAD, DEPARTMENT OF
STATISTICS,
HISLOP COLLEGE, NAGPUR

ADVISORY
COMMITTEE

DR. A. P. GORE
DR. M. N. DESHPANDE
PROF. M. N. RAO
DR. K. S. BHANU
DR. VRINDA JOGLEKAR
DR. ANAGHA NASERY

THE OBJECTIVES OF STATISTICA

- TO FAMILIARISE THE STUDENTS OF STATISTICS WITH THE CURRENT TRENDS IN THE SUBJECT.
- TO MAKE STUDENTS AWARE ABOUT HOW TO DEAL WITH REAL LIFE DATA, DATA ANALYTICS OF REAL LIFE DATA AND APPLICATIONS OF STATISTICS IN VARIOUS DISCIPLINES.
- TO TEST AND DEVELOP THE CONCEPTUAL UNDERSTANDING OF STUDENTS IN STATISTICS BY ORGANISING INNOVATING STATISTICS ACTIVITIES FOR THE STUDENT AUDIENCE.
- TO LEARN STATISTICS IN AN ENTERTAINING WAY.

JOIN THE NATIONAL LEVEL WORKSHOP

Click on the link below for FREE registration

Link for registration of Students
& Teachers:

[HTTPS://FORMS.GLE/ATPYPKYTMXEQWZ2SA](https://forms.gle/ATPYPKYTMXEQWZ2SA)

- REFER 3RD PAGE TO REGISTER FOR "STAT-STAR" NATIONAL LEVEL PROBLEM SOLVING COMPETITION

INVITED SPEAKERS

DR. SRINIVAS BHOGLE
DR. ANIL P. GORE
DR. S.B. MAHADIK
DR. VRINDA JOGLEKAR
MR. SAMADHAN GHUBADE

ORGANISING COMMITTEE

DR. JYOTI SHIWALKAR
AKSHAR PANCHAKSHARI
RIYA BHADORIA
PRANAV KHILNANI
NIDHI LAKHE
ATHARVA KHOT
AKANSHA GAJBHIYE
ROUNAK PAHUJA
ANUP BANERJEE
CATHERINE SHENDRE
SRISHTY MISHRA
ASHWIN KURVE

INVITED TALK I



KEYNOTE SPEAKER

DR. SRINIVAS BHOGLE
HONORARY SCIENTIST AT CSIR
FOURTH PARADIGM INSTITUTE
INDIA

TOPIC

- STATISTICS AND CRICKET

KEYNOTE ADDRESS TOPIC:

- ARGUMENTUM : HOW TO INFER FROM DATA

INVITED TALK II



DR. ANIL GORE

FORMER HEAD & PROFESSOR OF STATISTICS,
PUNE UNIVERSITY
STATISTICAL CONSULTANT
EX VICE PRESIDENT
(STATISTICAL SERVICE) AT CYTEL, PUNE.

TOPIC

- STATISTICS & DIXIT DIET FOR DIABETES

INVITED TALK III



DR. SHASHIBHUSHAN B. MAHADIK

PROFESSOR
DEPARTMENT OF STATISTICS
SHIVAJI UNIVERSITY
KOLHAPUR

TOPIC

- A STORY OF PEACOCK COUNTING IN SHIVAJI UNIVERSITY CAMPUS

THINK AND INK

AN INNOVATIVE GAME FOR AUDIENCE

STAT STAR

A NATIONAL LEVEL PROBLEM SOLVING COMPETITION FOR UNDERGRADUATE STUDENTS OF STATISTICS

Registration link for participation in Stat Star competition

[CLICK HERE TO REGISTER](#)

(LAST DATE FOR REGISTRATION 26TH OCTOBER BY 5 PM)

Prizes:
1st Prize Rs. 2000/-
2nd Prize Rs. 1500/-

A SPECIAL PRIZE OF RS. 1000/- FOR 'STAT-SMART' THE HIGHEST SCORER IN THE ONLINE COMPETITIONS

STAT-MAZE

A CLUE BASED STATISTICS PUZZLE

CASE STUDIES

CASE STUDIES ON DATA ANALYSIS BY HISLOP STUDENTS

PRACTISTICS

LOOKING AT A SITUATION FROM A STATISTICIAN'S EYE

Glimpses of Innovative competitions in the Online two day national level workshop Statistica 2021- Practistics competition: Looking at a situation with Statistician's Eye...

The Burger Revenue

McDonald's corporation wants to know its future gross revenue on the basis of the data recorded on gross revenue (in billions of \$) from the year 2005 to 2015.

- Mode > mean (or Mean < mode)
- $\beta_1 > \text{zero}$ and $\mu_3 < 0$

Practistics

A distribution was obtained from a high school related to the achievement level of students and their respective family economic level.

Economic Level	Achievement Level			Total
	High	Average	Low	
High	40	36	16	92
Low	54	77	33	164
Total	94	113	49	256

What will be the alternate hypothesis?

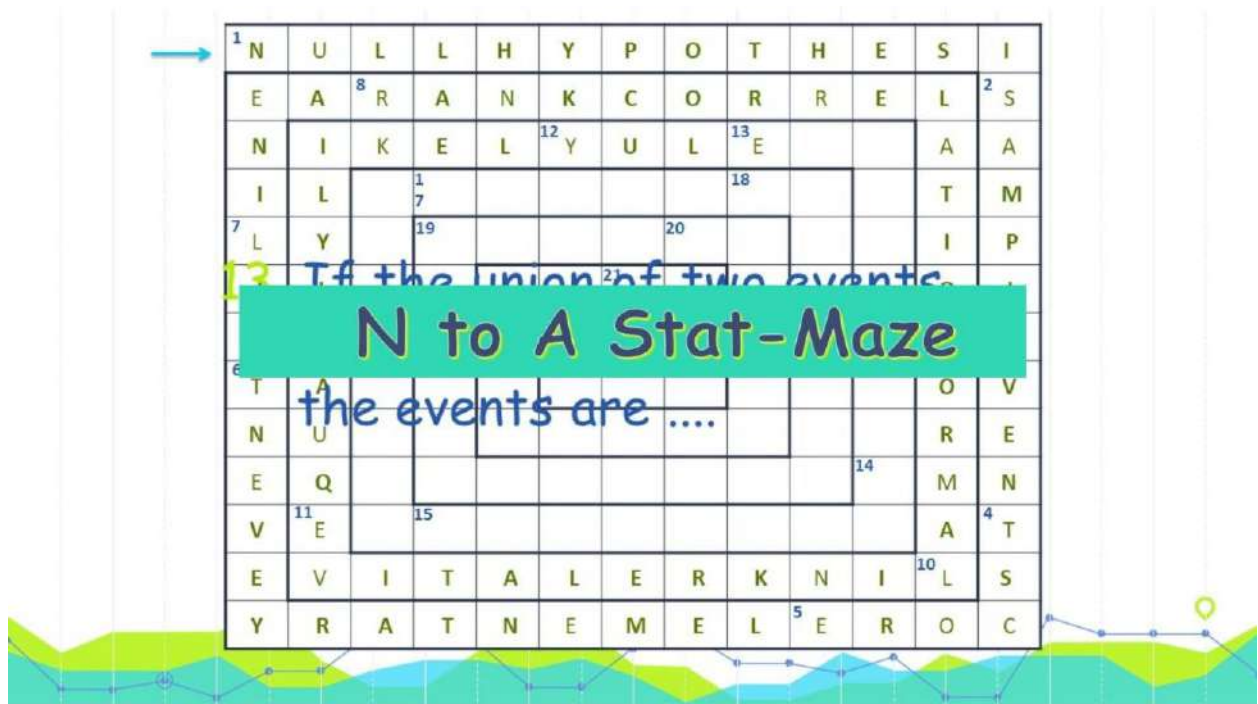
The scores (Out of 20) of 10 trainees at the time of recruitment and undergoing training after recruitment are as follows:

Test score at time of recruitment (X)	12	11	15	6	9	10	16	19	5
Test score after training (Y)	17	14	19	20	12	15	17	20	11

Looking at a Situation in Statistician's Way

Which Probability Distribution is (X, Y) assumed to follow?

Stat-Maze competition;



Online Stat maze Puzzle based on Statistical clues

‘Think and Ink’ – Online completion based on interesting clues....

THINK & INK
 What's the word from these jumble letters!

AAEI
 CSVP
 ONR
 TUE

A GRAPH THAT IS USED TO REPRESENT INCOME DISTRIBUTION

 (clue: 11 letters)

St Francis Galton
 1822-1911
 Geographer, anthropologist, natural scientist, director of Biometrics Research, inventor of the modern system of Charles Darwin's theory of evolution

The technique of developing functional relationship between two variables

WHAT'S THE WORD THAT LINKS THESE THREE TOGETHER?

 (clue: 10 letters)

WHAT'S THE WORD THAT LINKS THESE FOUR TOGETHER?

 (clue: 34 letters and 4 words)

A measure of association between ranks

Can be used for both numerical and ranked data

All these three competitions along with online 'Stat-Star' Problem solving competitions received overwhelming response from Student audience.

Email response (feedback) from one participant from Chennai...

Harshini Natraj - Statistica 2021 participant

Inbox



Harshini Natraj <hnbscstat@gmail.com>

Wed, Nov 3,
10:32 PM

to me

Hello mam, I'm Harshini Natraj from SDNB Vaishnav College, Chennai. I participated in the Statistica workshop last week.

I'm writing this mail to thank you for the wonderful experience you gave us by organizing the workshop and executing it flawlessly. It helped me explore various fields in statistics and we all learnt something new from each speaker. I really enjoyed the fact that the emphasis was more on the application of statistics and the wide spectrum of areas it covered. And like I said the other day, the events that were conducted after every speaker's talk kept us active and attentive throughout the day. I've decided to use the prize money I got for buying books in statistics. An order has already been placed for "An Introduction to Statistical Learning with applications in R" :) After a brief discussion with my professor I've also decided to buy a book on Biostatistics. With the remaining amount, I'm planning to take an NPTEL course for which I'll be enrolling myself by next month.

Thank you once again mam. Looking forward to participating in more such events.

Happy Diwali! :)

Regards,

Harshini Natraj