



DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE
(Autonomous)

College with Potential for Excellence, Linguistic Minority Institution
Affiliated to University of Madras
Arumbakkam, Chennai – 600 106.

DEPARTMENT OF STATISTICS



DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE
(AUTONOMOUS)

[Affiliated to University of Madras - Linguistic Minority Institution]

#833, E.V.R Periyar High Road,
Arumbakkam, Chennai - 600 106.

DEPARTMENT OF STATISTICS

The Secretary, Principal, staff and the students of the
department of statistics invite you to attend the E-Quiz
on

National Statistics Day
Which will held on 29-06-2021

E-Quiz link: <https://forms.gle/kDK7FvGYANVGX3tE7>



Dr.S.Sundarabalan
Convener

Dr.S.Santhosh Baboo
Principal

Shri.Ashok Kumar Mundhra
Secretary

Event: National Statistics Day

Speaker: Google Meet

Date: 29-06-2021

Venue: Online mode

Organizers: Department of Statistics, Dwaraka Doss Goverdhan Vaishnav College.

Department: Statistics

Total number of Participants: 106

Report:

The Department of Statistics conducted Quiz on **National Statistics Day** for commemorates the birth anniversary of Prof. P C Mahalanobis and his invaluable contribution in establishing the National Statistics Day and learnt about the uses of Statistics in daily life and also make us people understand how Statistics helps.

Outcome:

The students understood and gained some knowledge about National statistics day.

Quiz

Link: https://docs.google.com/spreadsheets/d/1eF_8hAsWdAZcfj88ayu8l6iINTttqjSHAsqZRvyBRJY/edit?usp=sharing



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DEPARTMENT OF STATISTICS

LIST OF PARTICIPANTS FOR THE ONLINE QUIZ HELD

ON 29-06-2021

| Name of the Candidate | Name of the Department with College (e.g., Commerce , DG Vaishnav College) |
|-----------------------|--|
| S.Tharunganesh | Maths , MVM mangadu |
| Bharath.T | B.a sociology and dg vaishnav college |
| P.Thilagavathi | FATIMA GIRLS HIGHER SECONDARY SCHOOL GUDALUR THE NILGIRIS |
| Srinivasan K R | Commerce, DG Vaishnav College |
| Xys | Hsjj |
| G Arthi | B. Com (C.S) |
| ARUN S | Mathematics, A. M Jain college |
| S. Anuradha | English, Annamalai university |
| Akash S | Commerce, A. M Jain college |
| V. Kiruthika | Drbccc Hindu College, B.Sc.Statistics |
| U Balaji | Physics, Loyola college |
| P.KEERTHANA | (Stasticis DRBCCC HINDU CLG) |
| Shirisha | Bsc(Mscs),Bbcit |
| MAHESVARAN T | Msc. Psychology. Alagappa university |
| Binitha kumara | bsc (mscs) |
| Tejavath prashanth | Aurora degree and pg college |
| Vishal goud | Aurora degree nd pg college |
| Sardarsumanjeetkaur | Statistics Aurora degree and pgcollege |
| P.Bargavi | Aurora degree and pg college |
| Odela Priyanka | Applied statistics, Aurora degree & PG college |
| A Sushma | Msc statistics |
| M Deshik Datta | Bsc mscs bhavan's Vivekananda college of science, humanities and commerce sainikpuri |
| Edke, shruthi | Aurora's degree &pg college |
| Ku Shivani | Statistics, Aurora's degree and PG college |
| M.Deshik Datta | Bsc Mac's Bhavans Vivekananda college sainikpuri |
| Mankala vaishnavi | Statistics, Aurora's Degree & PG College |
| P. Tejashree | Statistics (Aurora Degree and Pg college) |
| J.Lakshmi Jyothirmai | B.Sc. MSCS Bhavans Vivekananda degree college |
| MAHESVARAN T | PSYCHOLOGY, ALAGAPPA UNIVERSITY |
| Mohammed Abdul | MSc Aurora degree &pg College |

| | |
|---------------------------------|--|
| Rahaman | |
| Mallam Jaishika | Msc(statistics) Aurora pg college |
| Kadam Chandrika bai | MSc(Applied statistics)Aurora degree college |
| Nagari pavani | MSc statistics aurora degree and Pg college |
| YELLANNAGARI AKSHITHA | Aurora degree & pg college |
| AMUDHAVALLI S | Mohamed sathak college of arts and science |
| R. Sindhu | Statistics, Aurora degree and pg college |
| YELLANNAGARI ARCHANA | Bba, pragathi degree college |
| Akhilesh Krishnan P U | Genpro Research |
| Aashish Chandra P | Statistics,IIT KANPUR |
| Chekuri Rutvik Krishna Varma | Physical Sciences, Bhavan's Vivekananda Collge |
| G.S Sai Kalyan | Physical sciences,Bhavans vivekananda college |
| Namala Varalakshmi | Msc applied statistics,Kasturbha Gandhi degree and pg college for women |
| Kalaga V N S Anjanee Gayatri | MSC(STATISTICS), AURORA'S DEGREE AND PG COLLEGE |
| Resuka Mamatha | Govt city college |
| Kuntala Vishnupriya | Department of statistics Aurora Degree and pg college |
| V Ruchitha | Statistics, Aurora Degree and PG College |
| M. Maheswari | Aurora college |
| M.Akshaya | Statistics, Aurora's degree and pg College |
| Bhoompelly Sandhya | Statistics pg.kasturbagandhi college |
| Ponrasu.B | Bsc computer science (mohammed sathak collage) |
| Nagaphani Musunuri | Statistics,aurora college |
| Akhila Bogam | Applied statistics , kasturba gandhi degree & Pg college for women |
| 19bcs098 | Bsc (computer science) |
| Pasula Pavani | Statistics, Aurora's degree and pg college |
| Ponrasu.B | Bsc (computer science) sathak collage |
| RAHUMAN.S | B.Sc Mathematics., MOHAMED SATHAK COLLEGE OF ART'S AND SCIENCE |
| P ANANDHI | P ANANDHI |
| RAHUMAN.S | MATHEMATICS, MOHAMED SATHAK COLLEGE OF ART'S AND SCIENCE |
| Srividya | B.Sc(computer science) , Mohammed sathak College of arts and science |
| Bejjanki Navaneetha | Statistics |
| Tammanaboina Navya | Applied statistics |
| M.B.Rabiyathul Basiriya | Krishnaswamy college of science arts and management for women |
| S. Deepa | Krishnasamy college of science arts and management for women |
| SINDUJA.D | B.sc Mathematics; Krishnasamy college of science and art's management for women |
| Thivya | Bca, st. Joseph college |
| Jayasri. S | B.sc mathematics, krishnasamy college |
| S. Snega | Bsc computer science, Mohammad sathak college of arts and science |
| Bala | Commerce |

| | |
|---------------------------------|---|
| Prakash raj.m | B.com cs dg vaishnav college |
| Madella Anusha | Statistics, Aurora degree and pg college |
| H. Aafia | Computer science , krishnasamy college of arts and science management for women's |
| P pavithra | Mathematics, krishnasamy college of science,arts and management for women |
| S.S.Bharat | B.Com Corporate Secretaryship DG Vaishnav college |
| A.HARI PRIYA | BSC.MATHS,KCSAMW College |
| Selsiya. G | BSC Maths, KCSAMW college |
| srilaxmi dupakuntla | Msc. Applied statistics, D.srilaxmi |
| A.veena | Applied statistics , Aurora pg college |
| Ramya.S | Mathematics,Mohamed sathak college of arts and science |
| Pabbathi Harika | Statistics, Aurora Degree and P. G college, chikkadpalli |
| Deepa S | (Bsc. mathematics) Krishnaswamy college of science arts and management for women in Cuddalore |
| S. Kalaipriya | Mathematics, Mohamed sathak college of art and science |
| Sukanya Konar | Statistics, University of Madras |
| Peddagoni Anusha | Statistics |
| Bijurika Bandyopadhyay | Statistics, University of Madras |
| G Mounika | Statistics, Aurora's degree and Pg college |
| Hemamalini. U | Bsc mathematics, krishnasamy college of arts, science and management for women |
| NANDHAKUMAR J | Mathematics , A.M. Jain College, Meenambakkam. |
| Devadharshini.G | Bsc Mathematics,KCSAMW |
| M.RANJITH | Bsc. Computer science , Mohammad sathak college of arts and sciences |
| Dhivya. P | B. Sc mathematics and Krishnaswamy college |
| N.sangeetha | BBA, SDNB VAISHNAV COLLEGE |
| kedar eshwar M N | Mn kedar eshwar |
| Chirraboina Ruchitha Yadav | Statistics, Kasturbha degree and pg college |
| P.Anandhi | Statistics, research scholar,periyar University |
| Naveen raj.M | B.com (c.s) |
| Bandi Shruthi | Aurora degree & pg College (statistics) |
| Peyyeti Vaishnavi Sri Harshitha | Statistics, Bhavan's Vivekananda College |
| BASHABOINA SHRAVANI | Statistics , Kasturba Gandhi PG College |
| Lavanya Sundar | Commerce., Annamalai University |
| Rathnavel B | Statistics, university of madras |
| Deepan. A | Statistics, University of Madras |
| KEERTHIKA . D | statistics, University of Madras |
| R.padmapriya | Maths |
| Paru. K | B.form |
| Swetha.R | Mathematics, krishnasamy college of arts and science management for women Cuddalore |
| Priyadharshini. K | Bsc- Physics KrishnaSamy college of Science Arts and Management for Women Cuddalore |



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DEPARTMENT OF STATISTICS

| | |
|-------------------------------------|--|
| Event | : Social Activity |
| Resource Persons | : Mr.T.Maheshwaran and Dr. S.Santhi Department of Statistics, Dwaraka Doss Goverdhan Doss Vaishnav College. |
| Dates | : 19.08.21 and 21.08.21, Time 11.00 a.m-12.00 p.m. |
| Venue | : Digital Platform (Zoom meet) |
| Organizer | : Department of Statistics, Dwaraka Doss Goverdhan Doss Vaishnav College. |
| Department | : Statistics |
| No. of Staff participants | : 5 |
| No. of Student participants: | 42 |

Report:

The Department of Statistics organized two days social activity in the form of online classes for Eveleth class students in a government school which is located in Ayanambakkam, Chennai on the topic of Matrix Algebra and Determinants. The resource persons were Mr.T.Maheshwaran and Dr. S.Santhi from same department of statistics. On the first day students learnt about the topic of Matrix Algebra with examples and exercise problems. On the second day students learnt about the determinants and scope of study of statistics and after the classes, exercise problems sent to students group.

Comment:

The students had learnt about basics and real life applications of matrices and scope of study of statistics at college level.

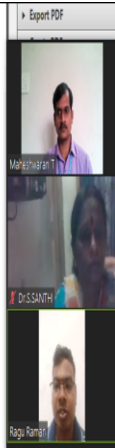
If two rows (columns) of a determinant are identical then the value of the determinant is zero.

























Let Δ be the value of the determinant. Assume that the first two rows are identical. By interchanging R_1 and R_2 we obtain $-\Delta$ (by property 2). Since R_1 and R_2 are identical even after the interchange we get the same Δ .

Property 4:

Proof:

$$\text{Let } \Delta = \begin{vmatrix} a_1 & b_1 & c_1 \\ a_2 & b_2 & c_2 \\ a_3 & b_3 & c_3 \end{vmatrix}$$



| | | |
|---|------------------------|---|
| RR | Ragu Raman (me) |    |
|  | Maheshwaran T (Host) |    |
| D | Dr.S.SANTHI |   |
| E | Emanuvel |   |
| M | Mano |   |
| ML | Meenakshi. L |   |
|  | SUREKHA PG ASST(MATHS) |   |
| SS | Sweetlin Sweet y |   |
| TS | Tamil selvan |   |
| UK | UDHAYA kumar |   |



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DEPARTMENT OF STATISTICS

The Secretary, Principal, Staff and the students of the
Department of Statistics invite you to attend the state level
Webinar

on

WHEN AND WHAT STATISTICS TO ANSWER RESEARCH QUESTION



Speaker :

Dr.C.PONNURAJA

Scientist E

Head, Dept. of Statistics

National Institute for Research in

Tuberculosis

*Indian Council of Medical Research
Chennai*

27.08.2021, Friday @ 2.00 pm-3.00 pm

Click here to join the webinar: meet.google.com/eov-upac-juj

Mr.T.Maheshwaran

Assistant Professor

Organizer

Dr.S.Sundarabalan

Convener

Dr.S.Santhosh Baboo

Principal

Shri.Ashok Kumar Mundra

Secretary

Event : State level Webinar on
“What and When Statistics to Answer Research Question”

Resource Person : Dr.C.PONNURAJA, Scientist E,
Head, Dept. of Statistics, NIRT, ICMR, Chennai.

Date : 27.08.2021 Duration: 2.00p.m -3.00p.m

Venue : Digital Platform (Google meet)

Organizer : Department of Statistics,
Dwaraka Doss Goverdhan Doss Vaishnav College.

Department : Statistics

No. of Staff participants : 12

No. of Student participants : 92

No. of Research Scholars : 3

Total No. of participants : 107

Report:

The Department of Statistics organized a State level Webinar on the topic of “What and When Statistics to Answer Research Question”. The resource person was Dr.C.PONNURAJA Scientist E, Head, Department of Statistics, NIRT, ICMR, Chennai. The welcome address was delivered by Dr.S.Sundarabalan, Head of the department. The introduction of the chief guest was given by Mr.T.Maheshwaran. The speaker explained elaborately about what statistics is and ‘when and where statistics can apply’ and real life applications and uses of statistics. Topics were useful for Students, Research scholars and Staff members. Finally participants have cleared their doubts related to topics from the resource person. The vote of thanks was proposed by Dr.S.Santhi.

Comment:

The Students and Research scholars had a knowledgeable session with the resource person and they got many ideas on the topic of “What and When Statistics to Answer Research Question”.

Link: <https://docs.google.com/spreadsheets/d/1GNElt1brnYm0WIEyFDaZ-BalQjpimuRkzZBfWBdE9yY/edit?usp=sharing>

DATA-SCALES OF MEASUREMENT

- Nominal – unordered categories
- Ordinal – ordered categories
- Discrete – only whole numbers are possible, order and magnitude matters
- Continuous – any value is conceivable
- Interval
- Ratio
- Time-to-event (with censoring)

Chinnaiyan Ponnuraja

People Information

| | | |
|-----------------------------|----|---|
| 20E3626dharun Chander | 10 | 1 |
| 20E3629 Sandeep Kumar | 10 | 1 |
| 20E3631 Arunkaushik | 10 | 1 |
| 20E3632 Bhavana gs | 10 | 1 |
| 20E3634 Naveen chandran | 10 | 1 |
| 20E3635 Santhana lakshmi... | 10 | 1 |
| 20E3637-Tharani Kumar.T | 10 | 1 |
| 20E3644 DEEPIKA.V | 10 | 1 |
| 24 Prashanthi R S | 10 | 1 |
| 28 Vishva | 10 | 1 |
| 30 Sanjay | 10 | 1 |
| 31 POOJA | 10 | 1 |
| 32 Manikandan | 10 | 1 |
| 39 kishore V | 10 | 1 |
| 40 Mohan Ganapathy D | 10 | 1 |



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DEPARTMENT OF STATISTICS

LIST OF PARTICIPANTS FOR THE STATE LEVEL WEBINAR HELD

ON 27-08-2021

| Name | Designation | Department with Name of the College |
|-------------------------|---------------------|--|
| S. Raguraman | Assistant Professor | Statistics, Dwaraka Doss Goverdhan Doss Vaishnav College |
| R.Rakshita | Student | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| K.P.Ankith | Student | BSc Statistics, Dwaraka Doss Goverdhan Doss Vaishnav College |
| pooja | Student | bsc.statistics,dg vaishnav college |
| Abishek | Student | Statistics, dgvc |
| Dr. R. Lakshmi Priya | Assistant Professor | Department of Statistics |
| T.Tharani Kumar | Student | Dwaraka Doss Goverdhan Doss Vaishnav College |
| S.Balaji | Student | Statistics, DRBCCC Hindu college |
| Bhavana g s | Student | Statistics,Dwaraka doss goverdhan doss Vaishnav college |
| L MARIA ALPHONSE LIGORI | Assistant Professor | STATISTICS, LOYOLA COLLEGE (AUTONOMOUS) |
| GOUTHAM S | Student | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| Murali Krishnan.B | Student | BSC statistics, Dwaraka doss Goverdhan doss vaishnav college |

| | | |
|-------------------------|---------------------|---|
| Harishwaran. S | Student | Statistics Dwaraka Doss Goverdan Doss vaishnav college |
| Hari S | Student | Statistics,Dwaraka Doss Goverdan Doss Vaishnav college |
| Logitha L | Student | Economics, Ethiraj college for women |
| KEERTHANA.P | Student | DRBCCC HINDU CLG |
| S.Mahabharathi | Student | Bsc.Statistics E.V.R College.Trichy |
| Dharunchander | Student | Statistics, Dwaraka doss Goverdhan doss vaishnav College |
| S. AMIRTHA RANI JAGULIN | Scholar | Mathematics and statistics, SRM University |
| S.Sundarabalan | Assistant Professor | Statistics, Dwaraka Doss Goverdhan Doss Vaishnav College |
| D.BABITHA | Student | B.SC.,STATISTICS(PONDICHERY UNIVERSITY) |
| M.Prasanth | Student | Statistics department Dwaraka doss govaradhan college |
| Abinaya P | Student | BSc Statistics, Dwaraka Doss Goverdhan Doss Vaishnav College |
| Kishore v | Student | Statistics dg vaishnav college |
| Surya Prakash | Student | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| Parthasarathy V | Student | Statistics, Dwaraka Doss Govardhan Doss Vaishnav college |
| Mani kandan | Student | Statistics, Dwaraka doss goverdhan Doss Vaishnav college |
| SANTHANA LAKSHMI.R | Student | STATISTICS , DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE |
| Aswathi.v | Student | Stats, dgvc |
| Hariharan R | Student | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| SRIRAM C | Student | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| Dr R Sasikumar | Assistant Professor | Statistics, Manonmaniam Sundaranar University |
| T.Maheshwaran | Assistant Professor | Statistics, Dwaraka Doss Goverdhan Doss Vaishnav College |
| Aravindra V | Student | Statistics,Dwaraka doss Goverdhan doss vaishnav college |
| Dr. S. Raguraman | Assistant Professor | Statistics, Dwaraka Doss Goverdhan Doss Vaishnav College |
| L . Vasantharaj | Student | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| Radhika. K | Student | Bsc. Statistics, Hindu college |
| Pragadeesh V | Student | Statistics, Dwaraka Doss Goverdhan Doss Vaishnav College |
| S. Jayashree | Student | B.sc statistics, Dwaraka Doss Goverdhan Doss |
| Mohan Ganapathy D | Student | B.sc statistics, Dwaraka Doss Goverdhan Doss Vaishnav College |
| SAAI SHRUTHI P V | Student | B.SC.Statistics, DRBCCC HINDU COLLEGE |
| S.Ashif Rawther | Student | Statistics, Dwaraka Doss Goverdhan Doss Vaishnav College |
| R.Anitha | Assistant Professor | Statistics, Rajah serfoji govt college (Autonomous)thanjavur -05 |
| Ms.N.Vijaya | Assistant Professor | Statistics, Muthayammal college of Arts and Science |
| Dr.S.SANTHI | Assistant Professor | Department of Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |

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|---------------------|---------------------|---|
| Dr R Sasikumar | Assistant Professor | Statistics, Manonmaniam Sundaranar University |
| Arun Kaushik.G | Student | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| Udhayan | Student | Bsc statistics, DG vaishnav college |
| Sri Krishna V | Student | BSc Statistics Dwaraka Doss Goverdhan Doss Vaishnav College |
| MUTHUKUMARAN.S | Student | Statistics |
| Ajithkumar.Rk | Student | Bsc statistics, Muthayammal college of arts and science |
| M.Prasanth | Student | Statistics. Dwaraka doss govaradhan doss vaishnav college |
| S.sindhuja | Student | Statistics ,vmcas |
| S E Vishva | Student | Bsc statistics, Dwaraka Doss Goverdhan Doss Vaishnav college |
| prashanthi r s | Student | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| Dr. Joshua Joseph A | Assistant Professor | Department of Statistics |
| HARRISH.S | Student | Statistics, Dwaraka Doss Goverdhan Doss Vaishnav College |
| Tharun Raj S | Student | Statistics DG Vaishnav College |
| Divyashree G | Student | B.com(Bank management),Ethiraj college for women |
| Aravindhan A | Student | Statistics, Dwaraka Doss Goverdhan Doss Vaishnav College |
| S.Akash | Student | Statistics , Dwaraka Doss Goverdhan Does Vaishnav College |
| Chandhuru.A | Student | LIAC, Loyola College |
| SNEHA.K | Student | statistics, Dharmamurthi tao bahadur calavala cunnan cherry's hindu college |
| Kiruthika G | Scholar | Biostatistics, ICMR-National Institute of Epidemiology |
| Dhyanesh T | Student | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| Yogesh R | Student | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| Bharathi S | Student | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| Sandeep Kumar | Student | Bsc.statistics , DDGD Vaishnav college |
| Naveen v | Student | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| V.Deepika | Student | Statistics, Dwaraka Doss Goverdhan Doss vaishnav college |
| Soumiyaa s | Student | Bsc statistics dwaraka doss goverdhan doss vaishnav college |
| KARTHIK | Student | B.SC.STATISTICS, Muthayammal College of Arts & Science |
| Rahul kumar | Student | Bsc statistics dg vaishnav |
| Kavin M | Student | Bsc,ststistics(muthyammal.college of arts and science) |
| Manikandan | Student | dwaraka dosa goverdhan doss vaishnav college |
| Brundha p | Student | Statistics, Muthayammal clg of arts and science |
| HV Pradhyumna | Student | Department of Statistics , DG Vaishnav college |
| M. Sanjay | Student | Bsc. Statistics, muthayammal art and science collage |
| Prasad T | Student | Statistics Dwaraka Doss Goverdhan Doss Vaishnav College |

| | | |
|----------------------|---------------------|---|
| Naveen chandran | Student | B.sc statistics , Dwaraka doss goverdhan doss vaishnav college |
| w.puela effcipa | Student | Statistics, muthayammal college of arts and science |
| Aadhavan K A | Student | B.sc Statistics, Dwaraka doss goverdhan doss vaishnav college |
| W.puela effcipa | Student | Statistics, muthayammal college of arts and science |
| S.SASI kumar | Student | MUTHAYAMMAL arts and college (statistics) |
| S.sindhuja | Student | Statistics, vmcas |
| AARTHI BALUSAMY | Student | Statistics,venatra Muthayammal college of arts and science in rasipuram |
| Bharath vaishnav | Student | B.sc statistics dg Vaishnav collge |
| KEERTHANA.P | Student | Statistics,Dharmamurthi Rao Bahadur Calavala Cunnan Chetty Hindu College. |
| Bharathi.K | Student | Statistics, Dwaraka Doss Goverdhan Doss Vaishnav Collage |
| T.M.Sheeba | Scholar | Computer Applications, SRMIST |
| Kokila.A | Student | DRBCCC Hindu college,from 3 yr B.sc statistics |
| Haritha. D | Student | DRBCCC HINDU COLLEGE |
| R Venkateshwar | Student | DRBCCC Hindu College |
| Kamalesh r | Student | Statistics,D.R.B.C.C.C HINDU COLLEGE |
| Ashwin Kumar G | Student | Statistics,Dwaraka Doss Govardhan Doss Vaishnav college |
| Ajithkumar.Rk | Student | Bsc statistics Muthayammal college of arts and science |
| IMAYASHRI | Student | Statistics muthayammal college of arts and sciences |
| S.Madavan | Student | B.Sc.,(STATISTICS) , Dwaraka Doss Goverdhan Doss Vaishnav College |
| Mr.S. JAGADESHKUMAR | Assistant Professor | Cs, ThavaThiru Santhalinga Adigalar Arts Science Tamil College |
| T.Tharani Kumar | Student | Dwaraka Doss Goverdhan Doss Vaishnav College |
| R.vasantha priya | Student | Statistics drbccchc |
| Pooja S | Student | Statistics DRBCCC Hindu College |
| Gokul Nath | Student | Statistics, Dwaraka Doss Goverdhan Doss Vaishnav College |
| DAYANIDHI A | Student | Statistics, Loyola College |
| Kondichetty Gayathri | Student | Bsc Statistics |
| Pavan krishna P | Student | Loyola College Chennai |
| BALAJI N | Student | STATISTICS,MADRAS CHRISTIAN COLLEGE |
| Bharath vaishnav | Student | B.sc statistics , Dwarka Doss Goverdhan Doss Vaishnav collge |



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DEPARTMENT OF STATISTICS

The Secretary, Principal, Staff and the students of the
Department of Statistics invite you to attend the state level
Webinar on **INTRODUCTION TO DATA SCIENCE**



Resource Person :

Dr. C.L.BABU

Senior Architect-Technology

Senior Manager-Data Science

IT INDUSTRY EXPERT

Chennai.

18.09.2021, Saturday @ 11.00 a.m Link:<http://meet.google.com/xra-cnzo-vud>

Organizer: Dr.S.Santhi, Assistant Professor

Dr.S.Sundarabalan
Convener

Dr.S.Santhosh Baboo
Principal

Shri.Ashok Kumar Mundra
Secretary

Event : State level Webinar on
“Introduction to Data Science”
Resource Person : Dr.C.L.Babu,
Senior Manager-Data Science
IT Industry Expert, Chennai.
Date : 18.09.2021 Duration: 11.00a.m -12.30p.m
Venue : Digital Platform (Google meet)
Organizer : Department of Statistics,
Dwaraka Doss Goverdhan Doss Vaishnav College.
Department : Statistics
No. of Staff participants : 10
No. of Student participants : 71
Total No. of participants : 81

Report:

The Department of Statistics organized a State level Webinar on the topic of **“Introduction to Data Science”**. The resource person was Dr.C.L.Babu, Senior Manager-Data Science, IT Industry Expert, Chennai. The welcome address was delivered by R.S.Prasanthi(Student). The introduction of the chief guest was given by Dr. S.Santhi Assistant Professor, Department of Statistics. The resource person explained about the Data science is the field of study that combines domain expertise, programming skills, and knowledge of mathematics and statistics to extract meaningful insights from data and why Data science is important in software field. Topics were useful for Students and Staff members. Finally participants have cleared their doubts related to topics from the resource person. The vote of thanks was proposed by Dr.S.Raguraman, Assistant Professor, and Department of Statistics.

Comment:

The Students had a knowledgeable session with the resource person and they acquired many ideas on the topic of **“Introduction to Data Science”**.

Link:

<https://docs.google.com/spreadsheets/d/1orTG0kBY7BySRvmY4Amjl83odZuNiNOS-C1wXnJnXYQ/edit?usp=sharing>

COMMUNICATION

- Manage churn.
- Locate sales opportunities.
- Improve asset utilization and optimize labor costs.

- ✓ Understanding existing customer usage profiles in a better way helps the company to take decisions to up-sell and cross-sell services.
- ✓ Use effective tools to discover the opportunities near to the existing sites will reduce network expansion costs leading to increase in return on investment.
- ✓ Better decisions in terms of efficient asset utilization and improved use of labor to increase the productivity of organization with optimum cost.

Babu Lakshmanan

Kp Anith

12 Abinaya P

Statistics T.Maha

15 S AKASH

santhi saravanan

Statistics BS

61 others

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01 goutham

03 Sriram

03Bharath Vaishnav

04 - Prasanth

05 Madavan

06-Aravindraj

08 Ashwin Kumar G

10 Pragadeesh V

11 Abishek S 2 Year

12 Abinaya P

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DEPARTMENT OF STATISTICS

LIST OF PARTICIPANTS FOR THE STATE LEVEL WEBINAR HELD

ON 18-09-2021

| Name | Designation | Department with Name of the College |
|------------------------------|---------------------|---|
| T.MAHESHWARAN | Assistant Professor | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| Hari.S | Student | Dwaraka Doss Goverdhan Doss Vaishnav College |
| GOUTHAM S | Student | Statistics, Dwaraka Doss Goverdhan Doss Vaishnav College |
| Dharunchander | Student | Statistics, Dwaraka doss Goverdhan doss vaishnav College |
| L . Vasantharaj | Student | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| S.AKASH | Student | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| Dhyanesh T | Student | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| Jayakodi G | Student | Statistics, presidency College |
| Prashanthi | Student | Bsc statistics DGVC |
| B.pavithra | Student | DRBCC Hindu college Pattabiram Chennai-72 |
| KEERTHANA.P | Student | STATISTICS , Dharmamurthi Rao Bhahadur Calavala Cunnan Chetty's Hindu College |
| PARTHASARATHY V | Student | STATISTICS,Dwaraka Doss Goverdhan Doss Vaishnav College |
| URATHAL ALIAS SRI SWATHIGA U | Assistant Professor | Computer Science, DRBCCC Hindu College |
| SANTHANA LAKSHMI.R | Student | STATISTICS, DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE |

| | | |
|-----------------------|---------------------|--|
| Pragadeesh V | Student | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| S. Jayashree | Student | Statistics, Dwaraka Doss Goverdhan Doss Vaishnav college |
| M. Charumathy | Others | B. Sc statistics |
| Mohan Ganapathy D | Student | II B.sc Statistics, Dwaraka Doss Goverdhan Doss Vaishnav College |
| Bharathi.K | Student | Statistics.Dwaraka Doss Goverdhan Doss Vaishnav collage |
| Jayakodi G | Student | Statistics, presidency college |
| Udhayan | Student | DG VAISHNAV COLLEGE |
| Gokul Nath | Student | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| Sreyash KB | Student | Statistics, Dwaraka Doss Goverdhan Doss Vaishnav College |
| Soumiyaa S | Student | Statistics, dwaraka doss goverdhan doss vaishnav college |
| Hari Haran | Student | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| S.Harrish | Student | Statistics, Dwaraka Doss Goverdhan Doss Vaishnav College |
| Hayagrive | Student | Statistics |
| Abishek | Student | Statistics, dgvc |
| Sri Krishna V | Student | Dwaraka Doss Goverdhan Doss Vaishnav College |
| Murali Krishnan.B | Student | Dwaraka doss Goverdhan doss vaishnav College |
| T.R.NITHIN KUMAR | Student | Statistics, dwaraka doss goverdhan doss vaishnav college |
| Arun Kaushik. G | Student | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| Sanjay | Student | Dwaraka doss goverdhan doss vaishnav college |
| Harishwaran. S | Student | Statistics Dwarakadoss Goverdan doss vaishnav college |
| manikandan | Student | dwaraka doss goverdhan doss vaishnav college |
| M.prasanth | Student | Statistics Dwaraka doss govaradhan doss vaishnav college |
| Bharath vaishnav | Student | B.sc statistics dg Vaishnav College |
| Bharathi.K | Student | Statistics, Dwaraka doss goverdhan doss vaishnav collage |
| Naveen chandran | Student | Statistics, Dwaraka Doss Goverdhan Doss Vaishnav College |
| A.Maria Pius Pachelli | Associate Professor | Mathematics,New Prince Shri Bhavani Arts and Science College |
| Aadhavan K A | Student | Statistics, Dwaraka Doss Goverdhan Doss Vaishnav College |
| Kishore v | Student | Statistics,Dwaraka Doss Goverdhan Doss Vaishnav College |
| Balamurugan P | Others | Department of Statistics, Manoanmaniam Sundaranar University |
| S E Vishva | Student | Statistics, Dwaraka doss Goverdhan doss Vaishnav college |
| Dr. S.Stephen Raj | Assistant Professor | Computational Sciences, Christ University, Delhi NCR |
| Dr.S.Sundarabalan | Assistant Professor | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| S.Madavan | Student | Statistics, Dwaraka Doss Goverdhan Doss Vaishnav College |

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|------------------|---------------------|---|
| S Tharun Raj | Student | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| Ashwin Kumar G | Student | Statistics,Dwaraka Doss Govardhan Doss Vaishnav college |
| Abinaya P | Student | BSc. Statistics, Dwaraka Doss Goverdhan Doss Vaishnav College. |
| K.P.Ankith | Student | BSc Statistics, Dwaraka Doss Goverdhan Doss Vaishnav College |
| Tharani Kumar.T | Student | Dwaraka Doss Goverdhan Doss Vaishnav College |
| Rakshita .R | Student | Bsc . Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| Prasad T | Student | Statistics ,Dwaraka doss goverdhan doss vaishnav college |
| Bharathi S | Student | Bsc statistics ,Dwaraka Doss Goverdhan Doss Vaishnav College |
| V.Deepika | Student | Bsc statistics, Dwaraka Doss Goverdhan Doss Vaishnav College) |
| SRIRAM C | Student | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| Aswathi.V | Student | Statistics |
| Bharathi.K | Student | Statistcs, Dwaraka doss goverdhan doss vaishnav collage |
| Sandeep Kumar | Student | Dwaraka doss goverdhan doss Vaishnav college |
| Praveen L | Student | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| Manikandan M | Student | Statistics, dwaraka doss goverdhan doss Vaishnav college |
| Bhavana . G.S | Student | Bsc Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| Aravindraaj.V | Student | Statistics,Dwaraka Doss Goverdhan Doss Vaishnav College |
| Dr. S. Raguraman | Assistant Professor | Statistics , Dwaraka Doss Goverdhan Doss Vaishnav College |
| S.SANtHI | Assistant Professor | Dwaraka Doss Goverdhan Doss Vaishnav College,Chennai |
| Rahul kumar | Student | Statistics |
| Divyashree G | Student | Bank management, Ethirajcollege for women |
| S. Pooja | Student | Statistics, dg vaishnav college |
| S.Ashif Rawther | Student | Statistics,Dwaraka Doss Goverdhan Doss Vaishnav College |
| A Preetha | Student | Bsc statistics,Dwaraka Doss Goverdhan Doss Vaishnav College |



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DEPARTMENT OF STATISTICS

Invites our first year students for the bridge course 2021-22



Date: 09.10.21(9.00 a.m -1.00 p.m)

Dr. S. Srinivasan, M.Sc., M.Phil., Ph.D

Assistant Professor, Periyar Arts College

Topic: Relations and Functions & Sequence and series

Date: 06.10.21(9.00 a.m -1.00 p.m)

Dr. A. Santha Kumar, M.Sc., B.Ed., M.Phil., Ph.D., SET

Associate Professor,

CK College of Engineering and Technology

Topic: Matrix Theory



Date: 08.10.21(9.00 a.m -1.00 p.m)

Dr. R. Vijaya Kumar, M.Sc., M.Phil., Ph.D

Assistant Professor, Periyar Arts College

Topic: Differential & Integral Calculus

Date: 07.10.21(9.00 a.m -1.00 p.m)

Dr. S. Poornima, M.Sc., M.Phil., Ph.D

Assistant Professor,

Krishnasamy College of Science,

Arts and Management for women

Topic: Elements of Statistics



Link: meet.google.com/zoc-zrrw-pcu

Organizing Members

Mr. T.Maheshwaran

Dr. S.Santhi

Dr. S.Raguraman

Dr.S.Sundarabalan
Convener

Dr.S.Santhosh Baboo
Principal

Shri.Ashok Kumar Mundra
Secretary

| | |
|------------------------------------|---|
| Event | : Bridge Course “ Basic concepts of Mathematics and Statistics ” |
| Resource Persons | : Dr. S.Srinivasan, Dr. A.Santha kumar Dr. R.Vijaya kumar & Dr. S.Poornima |
| Date | : 06-10-21 to 09-10-21 Duration: 9.00a.m -1.00p.m (3 hrs) |
| Venue | : Digital Platform (Google meet) |
| Organizer | : Department of Statistics, Dwaraka Doss Goverdhan Doss Vaishnav College. |
| Department | : Statistics |
| No. of Staff participants | : 4 |
| No. of Student participants | : 49 |
| Total No. of participants | : 53 |

Report:

The Department of Statistics organized a Bridge Course for the first year students on the four different topic in the field of Mathematics and Statistics. The resource person were Dr. S.Srinivasan, Dr. A.Santha kumar Dr. R.Vijaya kumar & Dr. S.Poornima. The introduction of the chief guest was given by Dr.S.Sundarabalan, Head of the department. The resource persons were explained deeply about the basics of mathematics and statistics with example problems. Finally students have cleared their doubts from the resource persons at the end of the sessions. We are collected feedback form from the students in each session.

Comment:

The Students are gained the knowledge of mathematics and statistics and it's important through this bridge course.

Properties of Determinant

- If I_n is the identity matrix of the order n , then $\det(I) = 1$
- If the matrix M^T is the transpose of matrix M , then $\det(M^T) = \det(M)$
- If matrix M^{-1} is the inverse of matrix M , then $\det(M^{-1}) = \frac{1}{\det(M)} = \det(M)^{-1}$
- If two square matrices M and N have the same size, then $\det(MN) = \det(M) \det(N)$
- If matrix M has a size $a \times a$ and C is a constant, then $\det(CM) = C^a \det(M)$
- If X , Y , and Z are three positive semidefinite matrices of equal size, then the following holds true along with the corollary $\det(X+Y) \geq \det(X) + \det(Y)$ for $X, Y, Z \geq 0$ $\det(X+Y+Z) + \det(C) \geq \det(X+Y) + \det(Y+Z)$
- In a triangular matrix, the determinant is equal to the product of the diagonal elements.

Handwritten notes: $I_n = \begin{bmatrix} 1 & 0 & \dots & 0 \\ 0 & 1 & \dots & 0 \\ \vdots & \vdots & \ddots & \vdots \\ 0 & 0 & \dots & 1 \end{bmatrix}$, $|A| = |A^T|$, $A^{-1} = \frac{\text{adj } A}{|A|}$, $|A| = 0$

The slide is titled 'HISTORY' and features a portrait of Sir Francis Galton. The text on the slide reads: 'Sir Francis Galton is considered as the Father of Biostatistics.'

Example Is the function, $f(x) = \begin{cases} \frac{\sin 2x}{x}, & x \neq 0 \\ 2, & \text{when } x = 0 \end{cases}$ continuous at $x = 0$?

Justify your answer.

Solution. Note that $f(0) = 2$.

$$\lim_{x \rightarrow 0} f(x) = \lim_{x \rightarrow 0} \frac{\sin 2x}{x} = \lim_{x \rightarrow 0} \frac{\sin 2x}{2x} \cdot 2 \quad (\text{for } x \neq 0, f(x) = \frac{\sin 2x}{x})$$

$$= \lim_{x \rightarrow 0} \frac{\sin 2x}{2x} \cdot 2 = 2 \cdot \lim_{x \rightarrow 0} \frac{\sin 2x}{2x}$$

$$= 2 \cdot \lim_{2x \rightarrow 0} \frac{\sin 2x}{2x} = 2 \cdot 1 = 2$$

Since $\lim_{x \rightarrow 0} f(x) = 2 \neq 1 = f(0)$, the function is not continuous at $x = 0$.
That is, the function is discontinuous at $x = 0$.

Note that the discontinuity of the above function can be removed if we define

$$f(x) = \begin{cases} \frac{\sin 2x}{x}, & x \neq 0 \\ 2, & x = 0 \end{cases} \text{ so that for this function } \lim_{x \rightarrow 0} f(x) = f(0).$$

Such points of discontinuity are called removable discontinuities.

12:42

shc-ajfx-bqe

REC

The video call interface shows a presentation slide with diagrams of neural networks. The slide is titled 'Shanmugam Srinivasan'.



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DEPARTMENT OF STATISTICS

LIST OF PARTICIPANTS FOR THE BRIDE COURSE HELD

FROM 06-10-2021 TO 09-10-2021

| S.No. | Roll Number | Name | Class |
|-------|-------------|-------------------------|-------------------|
| 1 | 21E4001 | Aswin M | I B.SC STATISTICS |
| 2 | 21E4002 | Vasanth V | I B.SC STATISTICS |
| 3 | 21E4003 | Annamalai Palaniappan G | I B.SC STATISTICS |
| 4 | 21E4004 | Kumaran S | I B.SC STATISTICS |
| 5 | 21E4005 | Gokul Amithan J | I B.SC STATISTICS |
| 6 | 21E4006 | Preetha A | I B.SC STATISTICS |
| 7 | 21E4008 | Bhumika P | I B.SC STATISTICS |
| 8 | 21E4009 | Rakesh I | I B.SC STATISTICS |
| 9 | 21E4010 | Rithika N | I B.SC STATISTICS |
| 10 | 21E4011 | Swetha S | I B.SC STATISTICS |
| 11 | 21E4012 | Chittesh Kumar G | I B.SC STATISTICS |
| 12 | 21E4013 | Subash C | I B.SC STATISTICS |
| 13 | 21E4014 | Kasheer E | I B.SC STATISTICS |
| 14 | 21E4015 | Akshita.A | I B.SC STATISTICS |
| 15 | 21E4016 | Vijayalakshmi R | I B.SC STATISTICS |
| 16 | 21E4017 | Meha Varshini S | I B.SC STATISTICS |
| 17 | 21E4018 | Venkatraman S | I B.SC STATISTICS |
| 18 | 21E4019 | Priyadharshini P | I B.SC STATISTICS |
| 19 | 21E4020 | Madhusudhanan G | I B.SC STATISTICS |
| 20 | 21E4021 | Anushree M | I B.SC STATISTICS |
| 21 | 21E4023 | Yash A | I B.SC STATISTICS |
| 22 | 21E4024 | Varshini SP | I B.SC STATISTICS |
| 23 | 21E4025 | Vishwa S | I B.SC STATISTICS |
| 24 | 21E4026 | Mythreyan.K | I B.SC STATISTICS |
| 25 | 21E4027 | Sri Shylaja G A | I B.SC STATISTICS |
| 26 | 21E4028 | Theevina C R | I B.SC STATISTICS |
| 27 | 21E4029 | Aparna.T | I B.SC STATISTICS |
| 28 | 21E4030 | Anant .G | I B.SC STATISTICS |
| 29 | 21E4031 | Brahmos Kumar A | I B.SC STATISTICS |
| 30 | 21E4032 | Akshaya S | I B.SC STATISTICS |
| 31 | 21E4033 | Samyukta S Warriar | I B.SC STATISTICS |
| 32 | 21E4034 | Hemant Sri Kumar | I B.SC STATISTICS |

| | | | |
|----|---------|---------------------------|-------------------|
| 33 | 21E4035 | Nirmalkumar A | I B.SC STATISTICS |
| 34 | 21E4036 | Sharveshwaran S. S | I B.SC STATISTICS |
| 35 | 21E4037 | Janaki B | I B.SC STATISTICS |
| 36 | 21E4038 | Praveen | I B.SC STATISTICS |
| 37 | 21E4039 | Hari Prasad O B | I B.SC STATISTICS |
| 38 | 21E4040 | Thilak. S | I B.SC STATISTICS |
| 39 | 21E4041 | Jayapal J | I B.SC STATISTICS |
| 40 | 21E4042 | Kishor M D | I B.SC STATISTICS |
| 41 | 21E4043 | Anbu kumar.p | I B.SC STATISTICS |
| 42 | 21E4044 | Hemesh K | I B.SC STATISTICS |
| 43 | 21E4045 | Rhithik Roshan Marlecha R | I B.SC STATISTICS |
| 44 | 21e4046 | Avinash G B | I B.SC STATISTICS |
| 45 | 21E4047 | Diwakar M | I B.SC STATISTICS |
| 46 | 21E4048 | Logasakthi S | I B.SC STATISTICS |
| 47 | 21E4049 | Vishal A T | I B.SC STATISTICS |
| 48 | 21E4050 | Vignesh K | I B.SC STATISTICS |
| 49 | 21E4051 | Madhana Gopal V K | I B.SC STATISTICS |