

# **BENFORD'S LAW AND ITS APPLICATIONS**

**A DISSERTATION SUBMITTED TO  
THE MAHATMA GANDHI UNIVERSITY, KOTTAYAM  
IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR  
THE DEGREE OF  
MASTER OF SCIENCE IN STATISTICS**

**SUBMITTED BY**

**ANANTHA PADMANABHAN A K**

**REG. NO: 140011010106**



**DEPARTMENT OF STATISTICS  
ST. THOMAS COLLEGE, PALAI  
KERALA**

**2016**



*Department of Statistics*

ST. THOMAS COLLEGE PALAI

ARUNAPURAM-686574, KERALA

Phone: 04822-212317, Fax: 91-4822-216313

Website: [www.stcp.ac.in](http://www.stcp.ac.in)

Dr. Sebastian George

Associate Professor

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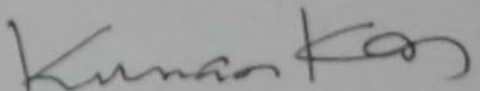
## CERTIFICATE

I hereby certify that this project is a bonafide record of work done by Mr. ANANTHA PADMANABHAN A K, under my supervision in partial fulfilment of the requirements for the Degree of Master of Science in Statistics of Mahatma Gandhi University, Kottayam and that no part of this work has been submitted earlier for the award of any Degree.

Dr. Sebastian George

(Supervisor)



Forwarded by: 

Dr. K. M. Kurian

Head of the Department

# **A STATISTICAL STUDY OF THE DATA ON DIETARY HABITS**

**A PROJECT REPORT SUBMITTED TO  
THE MAHATMA GANDHI UNIVERSITY, KOTTAYAM  
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR  
THE DEGREE OF  
MASTER OF SCIENCE IN STATISTICS**

SUBMITTED BY

BESLY K BABY

REG. NO: 140011010109



**DEPARTMENT OF STATISTICS  
ST. THOMAS COLLEGE, PALAI  
KERALA**

2016



Department of Statistics

ST. THOMAS COLLEGE PALAI

ARUNAPURAM-686574, KERALA

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Website: [www.stcp.ac.in](http://www.stcp.ac.in)

**Dr. Seemon Thomas**

Associate Professor

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## CERTIFICATE

I hereby certify that the project entitled "A STATISTICAL STUDY OF THE DATA ON DIETARY HABITS" is a bonafide record of work done by **Miss. Besly K Baby** under my supervision in partial fulfillment of the requirements for the Degree of Master of Science in Statistics of Mahatma Gandhi University Kottayam and that no part of this work has been submitted earlier for the award of any Degree.

**Dr. Seemon Thomas**

(Supervisor)



Forwarded by:

**Dr. K. M. Kurian**

**Head of the Department**

# **A STUDY ON BODY DIMENSIONS DATA**

A PROJECT REPORT SUBMITTED TO  
THE MAHATMA GANDHI UNIVERSITY, KOTTAYAM  
IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR  
THE DEGREE OF  
MASTER OF SCIENCE IN STATISTICS

SUBMITTED BY

**DIVIAMOL THOMAS**

REG. NO: 140011010110



DEPARTMENT OF STATISTICS  
ST. THOMAS COLLEGE, PALAI  
KERALA

2016





**Department of Statistics**

**ST. THOMAS COLLEGE PALAI**

ARUNAPURAM-686574, KERALA

Phone: 04822-212317, Fax: 91-4822-216313

Website: [www.stcp.ac.in](http://www.stcp.ac.in)

**Dr. Alex Thannippara**

Associate Professor

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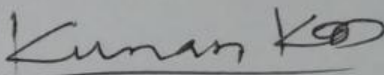
## CERTIFICATE

I hereby certify that this project is a bonafide record of work done by **MS. DIVIAMOL THOMAS**, under my supervision in partial fulfilment of the requirements for the Degree of Master of Science in Statistics of Mahatma Gandhi University, Kottayam and that no part of this work has been submitted earlier for the award of any Degree.

  
**Dr. Alex Thannippara**

(Supervisor)

Forwarded by:



**Dr. K. M. Kurian**

**Head of the Department**



# **A STUDY ON CORONARY HEART DISEASE DATA**

**A PROJECT REPORT SUBMITTED TO  
THE MAHATMA GANDHI UNIVERSITY, KOTTAYAM  
IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR  
THE DEGREE OF  
MASTER OF SCIENCE IN STATISTICS**

**SUBMITTED BY**

**GEETHU V**

**REG. NO: 140011010111**



**DEPARTMENT OF STATISTICS  
ST. THOMAS COLLEGE, PALAI  
KERALA**

**2016**



**Department of Statistics**

**ST. THOMAS COLLEGE PALAI**

ARUNAPURAM-686574, KERALA

Phone: 04822-212317, Fax: 91-4822-216313

Website: [www.stcp.ac.in](http://www.stcp.ac.in)

**Dr. Seemon Thomas**

Associate Professor

---

## CERTIFICATE

I hereby certify that this project is a bonafide record of work done by **Miss. GEETHU V** under my supervision in partial fulfilment of the requirements for the Degree of Master of Science in Statistics of Mahatma Gandhi University, Kottayam and that no part of this work has been submitted earlier for the award of any Degree.

**Dr. Seemon Thomas**

(Supervisor)



Forwarded by:

**Dr. K. M. Kurian**

**Head of the Department**



# ***A STATISTICAL STUDY OF ANTHROPOMETRIC DATA***

**Project Report Submitted to the  
Mahatma Gandhi University, Kottayam  
In partial fulfilment of the requirements for the  
Degree of Master of Science in Statistics**

SUBMITTED BY

**JINS KURIAKOSE**

Register No: 140011010112



**DEPARTMENT OF STATISTICS  
ST. THOMAS COLLEGE, PALAI  
KERALA**

2016



**DEPARTMENT OF STATISTICS**

**ST. THOMAS COLLEGE PALAI**

ARUNAPURAM-686574, KERALA

Phone: 04822-212317, Fax: 91-4822-216313

Website: [www.stcp.ac.in](http://www.stcp.ac.in)

**Dr. Seemon Thomas**

Associate Professor

---

## CERTIFICATE

I hereby certify that this project is a bonafide record of work done by **Mr. Jins Kuriakose** under my supervision in partial fulfilment of the requirements for the Degree of Master of Science in Statistics of Mahatma Gandhi University, Kottayam and that no part of this work has been submitted earlier for the award of any Degree.

**Dr. Seemon Thomas**

(Supervisor)



Forwarded by:

**Dr. K. M. Kurian**

**Head of the Department**

# **A STUDY ON ACCIDENTAL DEATHS**

Project Report Submitted to the

Mahatma Gandhi University, Kottayam

In partial fulfilment of the requirements for the

Degree of Master of Science in Statistics

SUBMITTED BY

**LIYA ANTONY**

Register No: 140011010114



**DEPARTMENT OF STATISTICS**

**ST.THOMAS COLLEGE, PALAI**

**KERALA**

**2016**



**DEPARTMENT OF STATISTICS**

**ST. THOMAS COLLEGE PALAI**

ARUNAPURAM-686574, KERALA

Phone: 04822-212317, Fax: 91-4822-216313

Website: [www.stcp.ac.in](http://www.stcp.ac.in)

**Dr. Benny Kurian**

Associate Professor

---

**CERTIFICATE**

I hereby certify that this project is a bonafide record of work done by **Miss. Liya Antony** under my supervision in partial fulfilment of the requirements for the Degree of master of Science in Statistics of Mahatma Gandhi University, Kottayam and that no part of this work has been submitted earlier for the award of any Degree.

**Dr. Benny Kurian**

(Supervisor)



Forwarded by:

**Dr. K. M. Kurian**

**Head of the Department of Statistics**

# **A STATISTICAL STUDY ON DIABETIC PATIENTS**

A PROJECT REPORT SUBMITTED TO  
THE MAHATMA GANDHI UNIVERSITY, KOTTAYAM  
IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR  
THE DEGREE OF  
MASTER OF SCIENCE IN STATISTICS

SUBMITTED BY

**RINY JOY**

REG. NO: 140011010115



DEPARTMENT OF STATISTICS  
ST. THOMAS COLLEGE, PALAI  
KERALA

2016





**Department of Statistics**

**ST. THOMAS COLLEGE PALAI**

ARUNAPURAM-686574, KERALA

Phone: 04822-212317, Fax: 91-4822-216313

Website: [www.stcp.ac.in](http://www.stcp.ac.in)

**Dr. K. M. Kurian**

Head of the Department

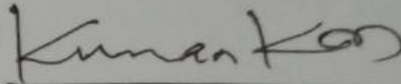
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## CERTIFICATE

I hereby certify that this project is a bonafide record of work done by **Miss. RINY JOY**, under my supervision in partial fulfilment of the requirements for the Degree of Master of Science in Statistics of Mahatma Gandhi University, Kottayam and that no part of this work has been submitted earlier for the award of any Degree.

**Dr. K. M. Kurian**

**(Supervisor)**

Forwarded by: 

**Dr. K. M. Kurian**

**Head of the Department**



# **A STUDY ON FACTORIAL EXPERIMENT**

**A DISSERTATION SUBMITTED TO  
THE MAHATMA GANDHI UNIVERSITY, KOTTAYAM  
IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR  
THE DEGREE OF  
MASTER OF SCIENCE IN STATISTICS**

**SUBMITTED BY**

**SANGARI T K**

**REG. NO: 140011010116**



**DEPARTMENT OF STATISTICS  
ST. THOMAS COLLEGE, PALAI  
KERALA**

**2016**



**Department of Statistics**

**ST. THOMAS COLLEGE PALAI**

ARUNAPURAM-686574, KERALA

Phone: 04822-212317, Fax: 91-4822-216313

Website: [www.stcp.ac.in](http://www.stcp.ac.in)

**Dr. Alex Thannippara**

Associate Professor

---

## CERTIFICATE

I hereby certify that this project is a bonafide record of work done by **Ms. SANGARI T K**, under my supervision in partial fulfilment of the requirements for the Degree of Master of Science in Statistics of Mahatma Gandhi University, Kottayam and that no part of this work has been submitted earlier for the award of any Degree.

**Dr. Alex Thannippara**

**(Supervisor)**

Forwarded by:

**Dr. K. M. Kurian**

**Head of the Department**

# **A STUDY ON GOMPERTZ DISTRIBUTION**

A DISSERTATION SUBMITTED TO  
THE MAHATMA GANDHI UNIVERSITY, KOTTAYAM  
IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR  
THE DEGREE OF  
MASTER OF SCIENCE IN STATISTICS

SUBMITTED BY

**SREEKUTTY GOPIKA RAVI**

REG. NO: 140011010118



DEPARTMENT OF STATISTICS  
ST. THOMAS COLLEGE, PALAI  
KERALA

2016





**Department of Statistics**

**ST. THOMAS COLLEGE PALAI**

ARUNAPURAM-686574, KERALA

Phone: 04822-212317, Fax: 91-4822-216313

Website: [www.stcp.ac.in](http://www.stcp.ac.in)

**Dr. Sebastian George**

**Associate Professor**

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## CERTIFICATE

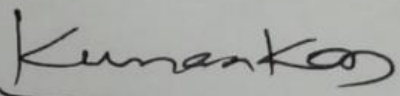
I hereby certify that this dissertation is a bonafide record of work done by **Miss. Sreekutty Gopika Ravi** under my supervision in partial fulfilment of the requirements for the Degree of Master of Science in Statistics of Mahatma Gandhi University, Kottayam and that no part of this work has been submitted earlier for the award of any Degree.

**Dr. Sebastian George**

**(Supervisor)**



**Forwarded by:**

  
**Dr. K. M. Kurian**

**Head of the Department**



**Mahatma Gandhi University, Kottayam, Kerala**

**Revised Syllabus of M.Sc. Statistics Program  
Under Credit and Semester System (CSS) 2012**

Course Code	Course Title	Credits	Teaching Hours
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**Semester-I ( Total credits-20)**

ST1C01	Distribution Theory	4	5
ST1C02	Analytical Tools for Statistics	4	5
ST1C03	Probability Theory	4	5
ST1C04	Mathematical Methods for Statistics	4	5
ST1C05	Statistical Computational Techniques	4	5

**Semester-II ( Total credits-20)**

ST2C06	Multivariate Distributions	4	5
ST2C07	Advanced Probability Theory	4	5
ST2C08	Statistical Estimation Theory	4	5
ST2C09	Stochastic Processes	4	5
ST2C10	Statistical Computing-1	4	5

**Semester-III ( Total credits-20)**

ST3C11	Sampling Theory	4	5
ST3C12	Statistical Testing of Hypotheses	4	5
ST3C13	Design and Analysis of Experiments	4	5
ST3C14	Multivariate Analysis ✓	4	5
ST3C15	Statistical Computing-2	4	5

**Semester-IV ( Total credits-20)**

ST4C16	Statistical Quality Control	3	5
ST4E-01	Elective-1 - Econometric methods	3	5
ST4E-02	Elective-2 - Operational Research	3	5
ST4E-06	Elective-3 - Advanced distribution theory	3	5
ST4E-08	Elective-4 - Statistical Computing-3	3	3
ST4CD	Dissertation/Project	3	2
ST4CV	Viva-Voce	2	

# **A STATISTICAL STUDY ON THE BODY MEASUREMENTS OF 252 AMERICAN MALES**

**Project Report Submitted to the  
Mahatma Gandhi University, Kottayam  
In partial fulfilment of the requirements for the  
Degree of Master of Science in Statistics**

**SUBMITTED BY**

**VINEETH M.S**

**Register No: 140011010119**



**DEPARTMENT OF STATISTICS  
ST. THOMAS COLLEGE, PALAI  
KERALA  
2016**



**DEPARTMENT OF STATISTICS**

**ST. THOMAS COLLEGE PALAI**

ARUNAPURAM-686574, KERALA

Phone: 04822-212317, Fax: 91-4822-216313

Website: [www.stcp.ac.in](http://www.stcp.ac.in)

**Dr. Benny Kurian**

Associate Professor

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**CERTIFICATE**

I hereby certify that this project is a bonafide record of work done by **Mr. Vineeth M.S** under my supervision in partial fulfilment of the requirements for the Degree of master of Science in Statistics of Mahatma Gandhi University Kottayam and that no part of this work has been submitted earlier for the award of any Degree.

**Dr. Benny Kurian**

(Supervisor)



Forwarded by:

**Dr. K. M. Kurian**

Head of the Department