

# Minutes of the meeting of Board of Studies of Statistics held on 21.02.2015

present

Dr. Salheesh Kumar, C.

Dr. Amil V

Prof Jayasree R

Girala Idaphonse

*[Signature]*

*[Signature]*

R. Jaga

*[Signature]*

The meeting commenced at 10.00 a.m at the Mathematics Computer Lab of the college. Ms Girala Idaphonse, Associate Prof. of Statistics FMN College, Kollam, chaired the meeting.

Agenda-wise discussion regarding Complementary Course in Statistics for FDP in Mathematics and Psychology was held and the following decision on each agenda has been taken. →

## Agenda-I Preparation of the list of examiners

The examiners as detailed below are selected.

### I. Complementary Course Statistics for FDP in Mathematics.

1. Ms Tess Mathew, Associate Professor & Head, Dept. of Statistics, MSM College, Kayamkulam.
2. Dr. V. Amil, Associate Prof., Dept. of Statistics, K.N. M Govt. College, Kanjiramkulam.
3. Ms Anupa V.S, Assistant Prof, Dept of Statistics, Christian College, Chengannoor.
4. Ms Girala Idaphonse, Associate Prof of Statistics, FMN college, Kollam.

### II Complementary Course Statistics for FDP in Psychology

1. Ms Jayasree R, Asso. Prof. & Head, Dept. of Statistics, D. B College, Sasthamcotta.
2. Dr K. L Sheela, Asso. Prof, Dept. of Statistics, Govt. College, Ambalapuzha.
3. Mr Sreekumar V, Asst. Prof; Dept. of Statistics, B.J.M Govt College, Chavara.
4. Ms Girala Idaphonse, Asso. Prof. FMN college, Kollam.



## Agenda II. Revision of syllabi of Complementary Course in Statistics for FDP in Mathematics and Psychology

### I Complementary Course in statistics for FDP in Mathematics

The changes to be made in the University syllabus have been discussed. The following changes have been finalized.

#### Semester I. Course I - ST1131.1 Descriptive Statistics & Introduction to Probability

No change in the content in the modules I, II, III & IV. Module V of practical based on Module I, II, III & IV by 'Computer (Excel)' has been specified.

#### Semester II. Course II - ST1231.1 Random variables

Name of the course has been changed to "Analysis of bivariate data and introduction to random variables". The following changes in the modules has been decided.

Present Module	Changed Module
Module I	Module III
II	Module IV
III	Module I
IV	Module II
V	Practical based on Module I, II, III & IV by using Computer (Excel)

#### Semester III. Course III - ST1331.1 Probability distribution & Theory of estimation

Degenerate (univariate) and Bernoulli distributions have been added to Module I

#### Semester IV. Course IV - ST1431.1 Testing of Hypotheses & Analysis of variance (ANOVA)

Design of experiments (local control, replication, and randomization, only concepts required) has been added to module III and derivations of one-way and two-way classifications are not required.

### II Complementary Course statistics for FDP in Psychology.

The following changes in the syllabus of Complementary Course statistics for FDP in Psychology have been finalized. The following hours of teaching has been specified.

Semester	I	Module II	III	IV	V	Total (hrs)
I	12	8	10	12	12	54
II	10	8	12	10	14	54
III	10	8	12	10	14	54
IV	15	15	10	8	6	54

**FATIMA MATA NATIONAL COLLEGE(AUTONOMOUS)**

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Semester IV - Analysis of variance (ANOVA) (one-way & two-way classifications, only concepts required) has been added to module V

The present Module	Changed Module
I & II	I
III	II
IV	III
V	IV & V

Agenda III. Assignment of tasks for individual/group.

For complementary course Statistics (for Maths & Psychology) assignments may be based on class work / computer practical using Excel / Seminar reports etc.

Agenda IV. Syllabus for the new courses under self-financing scheme, if any.

No new course under self-financing scheme.

Agenda V. Suggestion for the new programmes/courses.

The members suggested B.Sc Statistics with Actuarial Statistics.

The meeting came to close at 3 p.m

Gurata Idaphon 21.2.2015.  
Gurata Idaphonse  
Chairperson

**MINUTES OF THE MEETING OF THE BOARD OF STUDIES OF STATISTICS, FATIMA MATA  
NATIONAL (AUTONOMOUS) COLLEGE, KOLLAM AT 10.00 AM ON 21-02-2015.**

**Members present:**

**1. Ms Grata Ildaphonse,**

Associate Professor of Statistics,

-Sd-

FMN College, Kollam

**2. Dr. Satheeshkumar C**

Associate Professor and Head

-Sd-

Department of Statistics

University of Kerala, Karyavattom, TVM.

**3. Ms. Jayasree R,**

Associate Professor and Head,

-Sd-

Department of Statistics, D.B College, Sastamcottah.

**4. Dr. V Anil**

Associate Professor,

-Sd-

Dept. of Statistics, K.N.M Govt. College, Kanjiramkulam

The meeting commenced at 10.00 am at the Mathematics Computer Lab of the college. Ms Grata Ildaphonse, Associate Professor of Statistics, FMN College, Kollam, chaired the meeting.

Agenda-wise discussion regarding Complementary Course in Statistics for FDP in **Mathematics and Psychology** was held and the following decision on each agenda has been taken.

**Agenda-I Preparation of the list of examiners**

The examiners as detailed below are selected.

**1. Complementary Course Statistics for FDP in Mathematics**

Sl.No	Name & Official Address	E-mail ID & Phone No.
1.	<b>Ms. Tess Mathew</b> Associate Professor & Head, Department of Statistics, MSM College, Kayamkulam	tesskunnappallil@gmail.com 9446515557
2.	<b>Dr. V Anil</b> , Associate Professor, Dept. of Statistics, K.N.M Govt. College, Kanjiramkulam	anilvstat@mail.com 9446171379
3.	<b>Ms. Anupa V.S</b> Assistant Professor, Dept. of Statistics, Christian College, Chenganoor	anupasooraj@gmail.com 9400503127
4.	<b>Ms. Grata Ildaphonse</b> , Associate Professor of Statistics, FMN College, Kollam	gratailda@yahoo.co 9496127576 0474-2764855

**2. Complementary Course Statistics for FDP in Psychology**



Sl.No	Name& Official Address	E-mail ID &Phone No.
1.	<b>Ms. Jayasree R</b> Associate Professor and Head, Department of Statistics,D.B College,Sastamcottah	jayasree7764@gmail.com 9446205935
2.	<b>Dr.K.L Sheela</b> Associate Professor, Dept. of Statistics,Govt.College, Ambalapuzha	drklsheela@gmail.com 9496231643
3.	<b>Mr. Sreekumar V</b> ,Assistant Professor, Dept. of Statistics,B.J.M Govt.College, Chavara	Sreekumar678@yahoo.com 9447976918
4.	<b>Ms. Grata Ildaphonse</b> , Associate Professor of Statistics,FMN College,Kollam	gratailda@yahoo.co.in 9496127576,0474-2764855

**Agenda-II- Revision of syllabi of Complementary Course in Statistics for FDP in Mathematics and Psychology**

**Complementary Course in Statistics for FDP in Mathematics**

The changes to be made in the University syllabus have been discussed.The following changes have been finalized.

**Semester I Course I- ST 1131.1: Descriptive Statistics and Introduction to Probability**

No change in the content in the Modules I,II,III and IV. Module V of Practical based on Module I,II,III and IV by using Computer (Excel) has been specified.

**Semester II Course II - ST 1231.1: Random Variables**

Course name has been changed to 'Analysis of Bivariate data and Introduction to Random Variables'.

The following changes in the modules has been decided.

Present Module	Changed Module
Module I	Module III
Module II	Module IV
Module III	Module I
Module IV	Module II
Module V	Practical based on Module I,II,III and IV by using Computer (Excel)

**Semester III Course III- ST 1331.1: Probability Distribution and Theory of Estimation**

Degenerate(univariate) and Bernoulli Distributions have been added to Module I.

**Semester IV Course IV- ST 1431.1: Testing of Hypotheses and Analysis of Variance(ANOVA)**

Design of Experiments ( local control, replication and randomization,only concepts required) has been added to Module III and derivations of one way and two way classifications are not required.

**Complementary Course Statistics for FDP in Psychology**

The following changes in the syllabus of Complementary Course Statistics for FDP in Psychology have been finalized. The following hours of Teaching has been specified.

**Semester I Complementary Course I - ST 1131.5: Statistical Methods for Psychology I**

Module	Number of teaching hours
Module I	12
Module II	8
Module III	10
Module IV	12
Module V	12

**Semester II Complementary Course II - ST 1231.5 : Statistical Methods for Psychology II**

Module	Number of teaching hours
Module I	10
Module II	8
Module III	12
Module IV	10
Module V	14

**Semester III Complementary Course III -ST 1331.5 : Statistical Methods for Psychology III**

Module	Number of teaching hours
Module I	10
Module II	8
Module III	12
Module IV	10
Module V	14

**Semester IV Complementary Course IV- ST 1431.5: Statistical Methods for Psychology IV**

Analysis of Variance(ANOVA) (one way and two way classifications, only concepts required) has been added to Module V.

The Present Module	Changed Module	Number of teaching hours
Module I& Module II	Module I	15
Module III	Module II	15
Module IV	Module III	10
Module V	Module IV	8
	Module V	6

**Agenda -III Assignment of tasks for individual /group**

For Complementary Course Statistics( for Maths and Psychology), assignment may be based on class work/Computer

Practical using Excel/Seminar Reports etc.

**Agenda -IV Syllabus for the new courses under self financing scheme, if any.**

No new course under self financing scheme.

**Agenda -V Suggestion for the new programmes/Courses**

The members suggested B Sc Statistics with Actuarial Statistics.

The meeting came to close at 3 pm.

*Grata Ildaphonse*  
Grata Ildaphonse

Chairperson

Kollam

21-02-2015



## Minutes of the meeting of Board of Studies of Statistics held on 21-01-2017

Members present

1. Dr. Salheeshkumar C

*[Signature]*

2. Dr. Anil V

*[Signature]*

3. Prof. Jayasree R

*[Signature]*

4. Grata Idaphonse

*[Signature]*

The meeting commenced at 10.00 a.m. at Department of Mathematics of the college. Ms. Grata Idaphonse, Associate Professor of Statistics, FMN College, Kollam chaired the meeting.

### Preparation of the list of examiners.

Meeting discussed the names of examiners for setting question papers for complementary course in statistics for BSc Mathematics and Psychology and finalized the following list.

- Complementary course statistics for BSc. Mathematics.
1. Ms. Jayasree R, Associate Prof. & Head, Dept. of Statistics, D.B. College, <sup>Sastham</sup>cottah
  2. Dr. V. Anil, Asso. Prof., Dept. of Statistics, KVM Govt College, Kariyankulam
  3. Ms. Anupa V. S, Asst. Prof., Dept. of Statistics, Christian College, Chengannoor
  4. Ms. Grata Idaphonse, Asso. Prof. <sub>of stats</sub>, Dept. of Maths, FMN College, Kollam

### Complementary Course Statistics for BSc. Psychology

1. Dr. K.L. Sheela, Asso. Prof., Dept. of Statistics, Arts College, TUM
2. Dr. Urmeltha K, Asso. Prof., Dept. of Statistics, M.G. College, TUM
3. Dr. Preethi M, Associate Prof., Dept. of Statistics, TKMM College, <sup>Nangazh</sup>Langoodu
4. Ms. Grata Idaphonse, Asso. Prof. of stats, FMN College, Kollam.



## Revision of syllabi of Complementary Course Statistics for BSc. Mathematics & Psychology.

### Complementary Course Statistics for BSc Mathematics.

The following changes in the existing syllabus of Complementary Course Statistics 15USTB1.1 (Descriptive Statistics and introduction to Probability) for BSc Mathematics has been made after discussion.

No change has been proposed in the remaining portion of the syllabus.

present topic of the module.	Changed topic of the module
Module 1. 1.5 census & Sampling methods, Simple random sampling, Sampling & non-sampling errors.	Module 1. 1.5. census & Sampling, merits and demerits of census and sampling, SRS-lottery method, stratified & Systematic sampling methods.

### Complementary Course Statistics for BSc Psychology.

It is decided that existing syllabus of Complementary course Statistics for BSc Psychology will continue without any change.

The meeting came to a close at 1.30 P.m

Gurata Idaphens  
21.1.2017  
Chair person  
Bos-stats.

**FATIMA MATA NATIONAL COLLEGE(AUTONOMOUS)**

**KOLLAM**

**Minutes of the**

**Meeting of the Board of Studies in Statistics**

**held on**

**21 January 2017**



**MINUTES OF THE MEETING OF THE BOARD OF STUDIES IN STATISTICS,  
FATIMA MATA NATIONAL COLLEGE(AUTONOMOUS), KOLLAM  
AT 10.00 AM ON 21-01-2017**

**Members present:**

- 1. Ms Grata Ildaphonse** -Sd-  
Associate Professor of Statistics.  
FMN College, Kollam
- 2. Dr.Satheeshkumar C** -Sd-  
Associate Professor and Head  
Department of Statistics  
University of Kerala, Karyavattom, TVM.
- 3. Ms. Jayasree R** -Sd-  
Associate Professor and Head,  
Department of Statistics.  
D.B College, Sastamcottah.
- 4. Dr. V Anil** -Sd-  
Associate Professor,  
Dept. of Statistics,  
K.N.M Govt.College, Kanjiramkulam

The meeting commenced at 10.00 am at Department of Mathematics of the college. Ms Grata Ildaphonse, Associate Professor of Statistics, FMN College, Kollam, chaired the meeting.

**Preparation of the list of examiners**

Meeting discussed the names of examiners for setting question papers for Complementary Course in Statistics for B. Sc. Mathematics and Psychology and finalized the following list.

**Complementary Course in Statistics for B. Sc. Mathematics**

Sl. No	Name & Official Address	E-mail ID & Phone No.
1.	<b>Ms. Jayasree R</b> , Associate Professor and Head, Department of Statistics, D.B College, Sastamcottah	jayasree7764@gmail.com 9446205935
2.	<b>Dr. V Anil</b> , Associate Professor, Dept. of Statistics, K.N.M Govt.College, Kanjiramkulam	anilvstat@mail.com 9446171379
3.	<b>Ms. Anupa V.S</b> , Assistant Professor, Dept. of Statistics, Christian College, Chenganoor	9400503127 anupasooraj@gmail.com
4.	<b>Ms. Grata Ildaphonse</b> , Associate Professor of Statistics, FMN College, Kollam	<a href="mailto:gatailda@yahoo.co.in">gatailda@yahoo.co.in</a> 9496 127576 0474-2764855

**Complementary Course Statistics for B.Sc in Psychology**

Sl.No	Name & Official Address	E-mail ID &Phone No.
1.	<b>Dr.K.L Sheela</b> , Associate Professor, Dept. of Statistics,Arts.College, Thiruvanthapuram	drklsheela@gmail.com 9496231643
2.	<b>Dr Vineetha K</b> , Associate Professor ,Dept. of Statistics, M. G College, Thiruvanthapuram	<a href="mailto:vineethamoosath@yahoo.com">vineethamoosath@yahoo.com</a> 6446333148
3	<b>Dr Preeth M</b> , Associate Professor, Dept. of Statistics TKMM College,Nangiarkulangara	9947775497
4.	<b>Ms. Grata Ildaphonse</b> , Associate Professor of Statistics,FMN College,Kollam -	gratailda@yahoo.co.in 9496127576,0474-2764855

**Revision of syllabi of Complementary Course in Statistics for B.Sc. Mathematics and B.Sc. Psychology**

**Complementary Course in Statistics for B.Sc. Mathematics**

The following changes in the existing Syllabus of Complementary Course in Statistics 15UST131.1 (Descriptive Statistics and Introduction to Probability ) for B Sc Mathematics has been made after discussion. No changes has been proposed in the remaining portion of the syllabus.

Present topic of the Module	Changed topic of the Module
Module I 1.5 Census and Sampling methods,Simple Random Sampling, Sampling and non-sampling errors	Module I 1.5 Census and Sampling, merits and demerits of Census and Sampling,SRS-lottery method,Stratified and systematic sampling methods

**Complementary Course in Statistics for B.Sc. Psychology**

It is decided that existing syllabus of Complementary Course Statistics for B.Sc. Psychology will continue without any change.

The meeting came to a close at 1.30 pm.

  
Ms Grata Ildaphonse

Kollam



**Fatima Mata National College(Autonomous),  
Kollam**

**Board of Studies – Statistics-2018-2021**

**Members**

1. Ms Grata Ildaphonse  
Associate Professor of Statistics  
Fatima Mata National College(Autonomous)  
Kollam  
9496127576  
grataglad@gmail.com
2. Dr C.Satheesh Kumar  
Head, Department of Statistics  
University of Kerala, Karyavattom. (University Nominee)  
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3. Dr Alex Thannippara  
Associate Professor of Statistics  
St. Thomas College ,Pala  
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4. Dr Deemat C.Mathew  
Assistant Professor in Statistics  
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8547436154  
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5. Dr Ann Philip  
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Government College ,Karyavattom  
8547549991  
anne04philip@gmail.com
6. Dr Manju L.  
Assistant Professor in Statistics  
Gokulam medical College,  
Venjaramoodu  
Thiruvananthapuram  
9947231195  
[manjuhariharan@yahoo.co.in](mailto:manjuhariharan@yahoo.co.in)

From  
Ms Grata Ildaphonse  
Associate Professor of Statistics  
Fatima Mata National College(Autonomous),  
Kollam

Kollam  
23-7-2018

To  
The Principal  
Fatima Mata National College(Autonomous),  
Kollam

Sir,  
Sub: Meeting of Board of Studies of Statistics-details furnishing of reg.

A meeting of Board of Studies of Statistics is proposed to be held at 10.00 am on  
4-08-2018.

**Agenda**

1. Revision of the syllabus of Statistics (Complementary Course) of B.Sc.(Mathematics) and B.Sc (Psychology).
2. Pattern of Question Paper


**External Members**

1. **Dr C.Satheesh Kumar**  
Head, Department of Statistics  
University of Kerala, Karyavattom. 9895980078  
drsatheeshkumar@mail.com
2. **Dr Alex Thannippara**  
Associate Professor of Statistics  
St. Thomas College ,Pala 9447080388  
dralexthannippara@gmail.com
3. **Dr Deemat C.Mathew**  
Assistant Professor in Statistics  
St. Thomas College ,Pala 8547436154  
deematcm@gmail.com
4. **Dr Ann Philip**  
Assistant Professor in Statistics  
Government College ,Karyavattom 8547549991  
anne04philip@gmail.com
5. **Dr Manju L.**  
Assistant Professor in Statistics  
Gokulam medical College,  
Thiruvananthapuram 9947231195  
[manjuhariharan@yahoo.co.in](mailto:manjuhariharan@yahoo.co.in)

**Expected Expense(TA,DA&hospitality)**

**Rs.10,000 (Rupees ten thousand only)**

Yours faithfully

  
Grata Ildaphonse  
Associate Professor of Statistics



## **FATIMA MATA NATIONAL COLLEGE(AUTONOMOUS),KOLLAM**

### **Members of Board of Studies of Statistics-2018-2019**

- 1. Dr C.Satheesh Kumar** University nominee  
Head, Department of Statistics  
University of Kerala, Karyavattom. 9895980078  
[drsatheeshkumar@mail.com](mailto:drsatheeshkumar@mail.com)
- 2. Dr Alex Thannippara** M.G University  
Associate Professor of Statistics  
St. Thomas College ,Pala 9447080388  
[dralexthannippara@gmail.com](mailto:dralexthannippara@gmail.com)
- 3. Dr Deemat C.Mathew** M.G University  
Assistant Professor in Statistics  
St. Thomas College ,Pala 8547436154  
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- 4. Dr Ann Philip** Almnus  
Assistant Professor in Statistics  
Government College ,Karyavattom 8547549991  
[anne04philip@2gmail.com](mailto:anne04philip@2gmail.com)
- 5. Dr Manju L.** Corporate sector  
Assistant Professor in Statistics  
Gokulam medical College,  
Thiruvananthapuram 9947231195  
[manjuhariharan@yahoo.co.in](mailto:manjuhariharan@yahoo.co.in)
- 6. Ms Grata Ildaphonse** Chairperson  
Associate Professor of Statistics  
Fatima Mata National College(Autonomous)  
Kollam 9496127576  
[grataglad@gmail.com](mailto:grataglad@gmail.com)





**FATIMA MATA NATIONAL COLLEGE(AUTONOMOUS)**  
**KOLLAM**

**Minutes of the**  
**Meeting of the Board of Studies of Statistics**  
**held on**  
**4<sup>th</sup> August 2018**



## Minutes of the meeting of Board of Studies of Statistics held on 4-08-2018

Members present

1. Dr Alex Thannippara 
2. Dr Manju L 
3. Dr Anne Philip 
4. Ms Grata Dclaphonse 

5. The meeting commenced at 10.00 a.m at the Department of Mathematics, with a silent prayer. Ms Grata Dclaphonse, Associate Professor of Statistics, FMN College, Kollam chaired the meeting.

Discussion regarding Complementary course in Statistics for FDP in Mathematics and Psychology was held and the following decision has been taken.

### Complementary course in Statistics for FDP in Mathematics

The following changes in the existing syllabus have been discussed and finalized.

#### Semester I

Course I - 15UST131.1 Descriptive Statistics and Introduction to probability.

Course name has been changed to 'Descriptive Statistics.'

**MINUTES OF THE MEETING OF THE BOARD OF STUDIES OF  
STATISTICS, FATIMA MATA NATIONAL (AUTONOMOUS) COLLEGE, KOLLAM  
AT 10.00 AM ON 4-08-2018 .**

**Members present:**

1. **Ms Grata Ildaphonse**  
Associate Professor of Statistics,  
FMN College, Kollam -Sd-
2. **Dr Alex Thannippara**  
Associate Professor of Statistics  
St. Thomas College ,Pala -Sd-
3. **Dr Ann Philip**  
Assistant Professor in Statistics  
Government College ,Karyavattom -Sd-
4. **Dr Manju L.**  
Assistant Professor in Statistics  
Gokulam medical College,  
Thiruvananthapuram -Sd-

The meeting commenced at 10.00 am at the Department of Mathematics, with a silent prayer. Ms Grata Ildaphonse, Associate Professor of Statistics, FMN College, Kollam, chaired the meeting.

Discussion regarding Complementary Course in Statistics for **B.Sc (Mathematics) and B.Sc Psychology** was held and the following decision has been taken.

**Complementary Course in Statistics for B.Sc (Mathematics )**

The following changes in the existing syllabus have been discussed and finalized.

**Semester I**

**Course I- 15UST 131.1: Descriptive Statistics and Introduction to Probability**

Course name has been changed to **“Descriptive Statistics”**.



Present Module & Topic		Changes and Additions
Module I	<b>Statistics–Introduction</b>	Added Histogram (Equal and unequal class interval),Lorenz curve and its applications to subtopic 1.8
Module II	<b>Descriptive Statistics</b>	No change
Module III	<b>Random experiments</b>	Changed to <b>Module III. Analysis of bivariate data</b> (Module I of Semester II)  3.1 Scatter diagram  3.2 Curve fitting-method of least squares, fitting of straight lines,parabola, power curves $y=ab^x$ , $y=ax^b$ , $y=ae^{bx}$ ,and $y=\frac{a}{x}+b$
Module IV	<b>Probability</b>	Changed to <b>Module IV. Regression &amp; Correlation</b> (Module II of Semester II) 4.1 Regression, regression equations and angle between regression equations.  4.2 Pearson's coefficient of correlation  4.3 Spearman's rank correlation Added 4.4 Multiple and partial correlation and regression (only concepts ,no problems)
Module V	<b>Practical based on Module I,II,III and IV by using Computer (Excel)</b>	Change according to the <b>Modules III &amp;IV</b>

## Semester II

**Course II -15UST 231.1: Analysis of Bivariate data and Introduction to Random Variables**

Course name has been changed to “Probability and Introduction to Random Variables”

Present Module & Topic		Changes and Additions
Module I	<b>Analysis of bivariate data</b>	Changed to <b>Module I: Random experiments</b> (Module III of Semester I) 1.1 Sample point and sample space-discrete and continuous 1.2 Events, operations of events, concepts of equally likely, mutually exclusive and exhaustive events.
Module II	<b>Correlation &amp; Regression</b>	Changed to <b>Module II: Probability</b> (Module IV of Semester I)  2.1 Probability-classical, axiomatic and relative frequency definitions. Probability measure, probability space and Probability 2.2 Theorems in probability 2.3 Addition and multiplication theorem of probability and conditional Probability, independence of two and three events and compound probability 2.4 Bayes' theorem and its applications
Module III	<b>Random Variables</b>	No change
Module IV	<b>Mathematical expectation</b>	No change
Module V	<b>Practical based on Module I, II, III and IV by using Computer (Excel)</b>	Change according to the Modules I & II

### Semester III

#### **Course III- 15UST 331.1: Probability Distribution and Theory of Estimation**

Present Module & Topic		Changes and Additions
Module I	<b>Standard distributions</b>	No change
Module II	<b>Law of large numbers</b>	No change
Module III	<b>Sampling distributions</b>	No change
Module IV	<b>Theory of estimation</b>	No change
Module V	<b>Practical based on Module I, II, III and IV by using Computer (Excel)</b>	No change



### Semester IV

#### **Course IV- 15UST 431.1: Testing of Hypotheses and Analysis of Variance(ANOVA)**

Present Module & Topic		Changes and Additions
Module I	<b>Testing of hypothesis –Introduction</b>	Added concept of consumer's risk and producer's risk
Module II	<b>Large sample tests &amp; small sample tests</b>	No change
Module III	<b>Design of Experiments and Analysis of Variance (ANOVA)</b>	Added examples of CRD(completely randomized design) and RBD(randomized block design). Derivations of one way and two way classifications are not required.
Module IV	<b>Practical based on Module I,II,III and IV by using Computer (Excel)</b>	No change

### Complementary Course Statistics for B.Sc Psychology

The following changes in the syllabus of Complementary Course Statistics for FDP in Psychology have been finalized.

#### Semester I

#### **Complementary Course I - 15U ST 131.5: Statistical Methods for Psychology I**

Present Module & Topic		Changes and Additions
Module I	<b>Statistic–Introduction</b>	No change
Module II	<b>Primary data and secondary data</b>	No change
Module III	<b>Census and sampling methods</b>	No change
Module IV	<b>Classification &amp; Tabulation</b>	No change
Module V	<b>Diagrammatic &amp; Graphical representation of data</b>	Added Histogram (Equal and unequal class interval)

#### Semester II

#### **Complementary Course II – 15U ST 231.5 : Statistical Methods for Psychology II**

Present Module & Topic		Changes and Additions
Module I	<b>Measures of Central Tendency</b>	No change
Module II	<b>Partition Values &amp; percentile rank</b>	No change
Module III	<b>Measures of Variability(Dispersion)</b>	No change
Module IV	<b>Moments ,Skewness &amp; Kurtosis</b>	Deleted 4.1 Moments-raw and central Moments,Basic concepts and definition. Deleted measure of skewness and Kurtosis based on moments from subtopic 4.2 and 4.3.Simple numerical problems for raw data only
Module V	<b>Correlation Analysis</b>	<b>Module V:Probability</b> (Module III of Semester III)

**Semester III**

**Complementary Course III -ST 1331.5 : Statistical Methods for Psychology III**

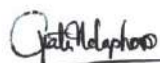
Present Module & Topic		Changes and Additions
Module I	<b>Regression Analysis</b>	No change
Module II	<b>Association</b>	Module II: <b>Correlation Analysis</b> (Module V of Semester II)
Module III	<b>Probability</b>	<b>Module III : Association</b> (Module II of Semester III)
Module IV	<b>Normal distribution</b>	<b>Module IV: Random variables</b> Added Binomial distribution and Poisson distribution (only concepts and definition, no problems based on it)
Module V	<b>Sampling distribution</b>	Module V : <b>Normal distribution</b> (Module IV of Semester III) Deleted <b>Sampling distribution</b> (changed to semester IV-Module I)

**Semester IV**

**Complementary Course IV- 15UST 431.5: Statistical Methods for Psychology IV**

Present Module & Topic		Changes and Additions
Module I	<b>Testing of hypothesis- Large sample tests</b>	Module I: <b>Sampling distribution</b> (Module V of Semester III)
Module II	<b>Small sample tests</b>	Module II : <b>Testing of hypothesis :Introduction</b>
Module III	<b><math>\chi^2</math> (Chi-square) tests</b>	Module III : <b>Large sample tests &amp; <math>\chi^2</math> (Chi-square) tests</b>
Module IV	<b>Non-parametric tests</b>	Module IV : <b>Small sample tests &amp; Analysis of Variance (ANOVA)</b>
Module V	<b>Analysis of Variance (ANOVA)</b>	Module V : <b>Non-parametric tests</b> Deleted <b>Analysis of Variance (ANOVA)</b> Add application of Statistical tools in Psychology-Data Analysis using Microsoft Excel-Practical Knowledge only ,not for examination purpose.

The meeting came to a close at 3 pm.

  
Grata Ildaphonse 4/8/2018

Associate Professor of Statistics & Chairman, BOS of Statistics



From  
Ms Grata Ildaphonse  
Associate Professor of Statistics  
Fatima Mata National College(Autonomous),  
Kollam

Kollam  
22 -2-2019

To  
The Principal  
Fatima Mata National College(Autonomous),  
Kollam

Sir,  
Sub: Meeting of Board of Studies of Statistics-details furnishing of reg.

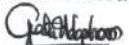
A meeting of Board of Studies of Statistics is proposed to be held at 10.00 a.m on  
1 -03 -2019.

**Agenda**

Finalization of the syllabus of Statistics (Complementary Course) of  
B.Sc.(Mathematics) and B.Sc (Psychology).

**External Members**

1. **Dr C.Satheesh Kumar**  
Head, Department of Statistics  
University of Kerala, Karyavattom.  
9895980078  
drsatheeshkumar@gmail.com
2. **Dr Alex Thannippara**  
Associate Professor of Statistics  
St. Thomas College ,Pala  
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3. **Dr Deemat C.Mathew**  
Assistant Professor in Statistics  
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4. **Dr Ann Philip**  
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5. **Dr Manju L.**  
Assistant Professor in Statistics  
Gokulam medical College,  
Venjaramoodu  
Thiruvananthapuram  
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Yours faithfully  
  
Grata Ildaphonse





**FATIMA MATA NATIONAL COLLEGE(AUTONOMOUS)**  
**KOLLAM**

**Minutes of the**  
**Meeting of the Board of Studies of Statistics**  
**held on**  
**1<sup>st</sup> March 2019**



# Minutes of the meeting of the Board of Studies of Statistics held on 1<sup>st</sup> March 2019

Members present

1. Dr. C. Satheesh Kumar 
2. Dr. Mary L. 
3. Deemat C. Mathew 
4. Gracia Dladphonse 

The meeting commenced at 10.00 a.m at the Department of Mathematics, with a silent prayer. Ms Gracia Dladphonse, Associate Professor of Statistics, FNV college, Kollam, chaired the meeting.

Discussion regarding Complementary Course in Statistics for FDP in Mathematics and Psychology was held and finalized the syllabus.

Complementary Course in Statistics for FDP in Mathematics.

Semester I. Course I. 19UST131.1 Descriptive Statistics

Module	Topic	Changes & Additions.
I	Statistics introduction.	Added histogram (equal & unequal class interval), Lorenz curve & its applications. to subtopic 1.8
2	Descriptive Statistics.	-
3	Analysis of bivariate data	-
4	Regression and Correlation	Added 4.4. Multiple and partial correlation and regression (only concepts no problems)
5	Practical based on Module 1, 2, 3 and 4 by using Computer Excel.	

**MINUTES OF THE MEETING OF THE BOARD OF STUDIES OF  
STATISTICS, FATIMA MATA NATIONAL (AUTONOMOUS) COLLEGE, KOLLAM  
AT 10.00 AM ON 1-03-2019 .**

**Members present:**

1. **Ms Grata Ildaphonse**  
Associate Professor of Statistics,  
FMN College, Kollam -Sd-
2. **Dr C. Satheesh Kumar**  
Head, Department of Statistics  
University of Kerala, Karyavattom. -Sd-
3. **Dr Manju L.**  
Assistant Professor in Statistics  
Gokulam medical College,  
Thiruvananthapuram -Sd-
4. **Dr Deemat C. Mathew**  
Assistant Professor in Statistics  
St. Thomas College, Pala -Sd-

The meeting commenced at 10.00 am at the Department of Mathematics, with a silent prayer. Ms Grata Ildaphonse, Associate Professor of Statistics, FMN College, Kollam, chaired the meeting.

**Discussion regarding Complementary Course in Statistics for FDP in Mathematics and Psychology was held and the following changes in the existing syllabus have been finalized.**

**Complementary Course in Statistics for B.Sc (Mathematics)**

**Semester I Course I- 19UST 131.1: Descriptive Statistics**

Module & Topics		Changes and Additions	Teaching Hours(72)
Module 1 Part A	Statistics— Introduction	<b>Topics for General Awareness on Statistics which are not intended for Examination purpose</b> <b>1.1</b> Nature and uses of Statistics in various disciplines, misuse and Limitations. <b>1.2</b> Official Statistical system of India. <b>1.3</b> Census Reports of India <b>1.4</b> Environmental Statistics & Gender Statistics <b>1.5</b> Concepts of primary data and secondary data, population and sample <b>1.6</b> Meaning and objectives of Classification, Types of Classification-geographical Classification, chronological Classification, qualitative Classification and quantitative Classification.	20



<b>Module 1. Part B:</b>		<b>Collection and Presentation of Data:</b> Added Histogram (Equal and unequal class interval), Lorenz curve and its applications to subtopic 1.8. Deleted stem and leaf chart and box plot	
<b>Module 2</b>	Descriptive Statistics	No change	24
<b>Module 3</b>	Analysis of bivariate data	No change	10
<b>Module 4</b>	Regression & Correlation	Added 4.4 Multiple and partial correlation and regression (only concepts ,no problems)	18
<b>Module 5</b>	Practical based on Module 1,2,3 and 4 by using Computer (Excel)		

### Semester II

#### **Course II -19UST 231.1: Probability and Introduction to Random Variables**

Module	Topics	Teaching Hours(72)
Module 1	Random experiments	8
Module 2	Probability	14
Module 3	Random Variables	25
Module 4	Mathematical expectation	25
Module 5	Practical based on Module 1,2,3 and 4 by using Computer (Excel)	

### Semester III

#### **Course III- 19UST 331.1: Probability Distribution and Theory of Estimation**

No change in the syllabus of sem.III.

Module	Topics	Teaching Hours(90)
Module 1	Standard distributions	30
Module 2	Law of large numbers	20
Module 3	Sampling distributions	20
Module 4	Theory of estimation	20
Module 5	Practical based on Module 1,2,3 and 4 by using Computer (Excel)	

**Semester IV**

**Course IV- 19UST 431.1: Testing of Hypotheses and Analysis of Variance(ANOVA)**

Module	Topics	Changes and Additions	Teaching Hours(90)
Module 1	Testing of hypothesis – Introduction	Added concept of consumer's risk and producer's risk	20
Module 2	Large sample tests & small sample tests	No change	30
Module 3	Design of Experiments and Analysis of Variance(ANOVA)	Added examples of CRD(completely randomized design) and RBD(randomized block design). Derivations of one way and two way classifications are not required.	10
Module 4	Practical based on Module 1,2,3 and 4 by using Computer (Excel)		30

**Complementary Course Statistics for B.Sc(Psychology)**

The following changes in the syllabus of Complementary Course Statistics for FDP in Psychology have been finalized.

**Semester I**

**Complementary Course I - 19U ST 131.5: Statistical Methods for Psychology I**

Module	Topics	Changes and Additions	Teaching Hours(54)
Module 1	Statistics-Introduction	<b>Added Part A:</b> Concepts of Official Statistical system of India, Census Reports of India, Environmental Statistics, & Gender Statistics (not intended for Examination purpose)	14
Module 2	Primary data and secondary data	No change	8
Module 3	Census and sampling methods	No change	8
Module 4	Classification & Tabulation	No change	12
Module 5	Diagrammatic & Graphical representation of data	Added Histogram (Equal and unequal class interval)	12

**Semester II**

**Complementary Course II – 19U ST 231.5 : Statistical Methods for Psychology II**

Module	Topics	Changes and Additions	Teaching Hours(54)
Module1	Measures of Central Tendency	No change	14
Module 2	Partition Values & percentile rank	No change	6
Module 3	Measures of Variability(Dispersion)	No change	14
Module 4	Skewness & Kurtosis	Deleted 4.1 Moments-raw and central Moments,Basic concepts and definition. Measure of skewness and Kurtosis based on moments from subtopic 4.2 and 4.3	12
Module 5	Probability	No change	8



**Semester III**

**Complementary Course III -19UST 331.5 : Statistical Methods for Psychology III**

Module	Topics	Changes and Additions	Teaching Hours(54)
Module 1	Regression Analysis	No change	12
Module 2	Correlation Analysis	No change	12
Module 3	Association	No change	10
Module 4	Random variables	Module 4 Added Binomial distribution and Poisson distribution (only concepts and definition, no problems based on it)	8
Module 5	Normal distribution	No change	12

**Semester IV**

**Complementary Course IV- 19UST 431.5: Statistical Methods for Psychology IV**

Module	Topics	Changes and Additions	Teaching Hours(54)
Module 1	<b>Sampling distribution</b>	No change	8
Module 2	<b>Testing of hypothesis :Introduction</b>	No change	8
Module 3	<b>Large sample tests &amp; <math>\chi^2</math> (Chi-square) tests</b>	No change	15
Module 4	<b>Small sample tests and Analysis of Variance</b>	Added <b>Analysis of Variance (ANOVA)</b> -only concepts	15
Module 5	<b>Non-parametric tests</b>	Add application of Statistical tools in Psychology-Data Analysis using Microsoft Excel-Practical Knowledge only ,not for examination purpose.	8

The meeting came to a close at 3.30 pm.

  
**Grata Idaphonse** 1/3/2019

Associate Professor of Statistics& Chairman, Board of Studies of Statistics