



**BHAVANS VIVEKANANDA COLLEGE OF SCIENCE,  
HUMANITIES AND COMMERCE  
Autonomous College  
Affiliated to Osmania University**

**DEPARTMENT OF MATHEMATICS AND STATISTICS  
STATISTICS SYLLABUS  
(2019 – 2020)**

*J. Jayasree*  
10/5/19

**Chairman**

**Board Of Studies in Statistics, OU**

*[Signature]*  
10/5/19

**Chairman**

**Board Of Studies in Mathematics & Statistics, BVC**

**BHAVANS VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND  
COMMERCE**

**SAINIKPURI, SECUNDERABAD  
AUTONOMOUS COLLEGE  
Affiliated to Osmania University**

**THE DEPARTMENT OF MATHEMATICS & STATISTICS**

**BOARD OF STUDIES MEETING**

**Friday, 10 May 2019**

**2:30 pm**

**Seminar Hall, MBA Block**

**AGENDA**

1. Welcome
2. Approval request for B .Sc Statistics I & II Semester CBCS syllabus for the year  
2019-20.
3. Suggestions by the Members.
4. Any other matter.



**BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE**  
**ACCREDITED WITH A GRADE BY NAAC**  
**Autonomous College**

**Affiliated to Osmania University**

**BOARD OF STUDIES IN STATISTICS (UG), BVC**

The Sixth meeting of Board of Studies in Statistics held on 10.05.2019 at 2:30 PM in Seminar hall, MBA Block, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri.

**MINUTES OF THE MEETING:**

The Sixth BOS meeting was held to take up the agenda as listed and take decisions pertaining to the agenda.

The syllabus was put forward to the BOS committee for approval with the following resolutions:

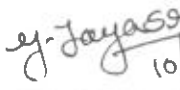

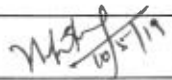


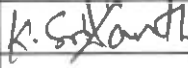

- B.Sc.I year (I and II Semesters) syllabus was approved with objectives and outcomes for the 2019-2020 admitted students onwards.
- Decided to continue with the existing examination pattern for Theory.
- Instead of solving Statistics problems manually they will solve using MS-Excel and R- Programming in practicals of Semester I and II.**
- Discussed about starting a new programme with statistics course.

**Members Present:**

**Chairman:**

Dr. K. Vasudeva Rao, Chairman, BOS in Mathematics, BVC

**Members Attended:**

S.No	Name	Designation	Signature
1	Dr. G. Jayasree	Chairperson ,BOS ,Associate Professor, Department of Statistics, Osmania University	 10/5/19
2	Dr. Ch. Yugandhar	Subject Expert, St. Francis College For Women	
3	Mr. V. Selva Kumar	Lecturer in Statistics, BVC	
4	Mrs. P. Rajini	Lecturer in Statistics, BVC	
5	Mr. N. Chandan Babu	Lecturer in Statistics, BVC	
6	Mr. K. Srikanth	Industry Expert, Data Scientist, IBM	
7	Ms. Arun Jyothi	Alumni	
8	Ms. T. Sudha Ravali	Student, B.V.C.	

Chairman expressed gratitude to all the members of board for their valuable suggestions and cooperation. The meeting concluded with the vote of thanks by Dr.K.Vasudeva Rao, BOS, and BVC.

**Dr. G. Jayasree**  
**Chairman, BOS**  
**Department of Statistics, OU**

*G. Jayasree*  
10/5/19.

**Dr. K. Vasudeva Rao**  
**Head of the Department, BVC**

*K. Vasudeva Rao*  
10/5/19.

**Prof. Y. Ashok**  
**Principal**



**BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE**  
**ACCREDITED WITH A GRADE BY NAAC**  
**Autonomous College(Affiliated To Osmania University)**

**DEPARTMENT OF STATISTICS**

**LIST OF EXTERNAL EXAMINERS(2019-2020)**

S.NO	NAME	COLLEGE	PHONE NO.
1	Dr. Ch. Yugandhar	St. Francis Degree college for Women	9849651251
2	Mr.G. Govardhan	MNR Degree college, Kukatpally	9848019846
3	Mr. Raghavendra Kulkarni	Nrupathunga Degree college	9849621263
4	Mrs. Rama Devi	Sujatha Degree college For Women	9908019440
5	Mrs. L. Rajini	Koti Women's Degree college	9032822116
6	Mrs. V. Sai Sri Kishore	St. Ann's Degree college, Mehdipatnam	9908277382
7	Mr. Venugopal	Avanti Degree College	9492543935
8	Mr. Venkata Ramana	Jagruti Degree college	9490313411
9	Mrs. Parimala Sudheer	Aurora Degree College	9885128667
10	Dr. Lavanya	AMS Degree College	9948470727
11	Mr. Vishveshwar	Wesley Boys Degree college, Sec-Bad	9989685936
12	Mr. Shekaran	Mega Women's Degree college, RamanthaPur.	9966960382
13	Mrs. Sailaja	Loyola Academy Degree & PG College, Old Alwal, Sec_bad.	9490124257
14	Mrs. Jaya Sree	RBVRR Women's college	9849236602
15	Dr. M. Jagan Mohan Rao	Jagruti Degree college	9849821368
16	Mrs. Sunita	Govt. Degree college for women, Begumpet	9000103953
17	Mrs. Srikala	St. Ann's Degree college, Mehdipatnam	7729077295
18	Mrs. Sumalatha	Koti Women's Degree college	9291434772
19	Mrs. Aarti	Anurag Degree college	9959875222
20	Mrs. P. Laxmi Prasanna	RBVRR Women's Degree College	9676645332
21	Mrs. Vedavati	Begumpet women's College	
22	Mrs. Dr. K. Padmavathi	Babu Jagjeevan Ram College	9989334991

*[Handwritten Signature]*  
19/5/19

*[Handwritten Signature]*  
10/5/19



**BHAVANS VIVEKANANDA COLLEGE OF SCIENCE,  
HUMANITIES AND COMMERCE  
Autonomous College  
Affiliated to Osmania University**

**DEPARTMENT OF MATHEMATICS AND STATISTICS  
STATISTICS SYLLABUS  
(2019 – 2020)**

  
14/12/19  
Chairman

**Board of Studies in Statistics, OU**

  
Chairman

**Board of Studies in Statistics, BVC**

**Principal**

**BHAVANS VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND  
COMMERCE**

**SAINIKPURI, SECUNDERABAD  
AUTONOMOUS COLLEGE  
Affiliated to Osmania University**

**THE DEPARTMENT OF MATHEMATICS & STATISTICS**

**BOARD OF STUDIES MEETING**

**Saturday, 14 December 2019**

**11:30 pm**

**Committee Room, MBA Block**

**AGENDA**

1. Welcome
2. Review of B .Sc Statistics Semester VI, Skill Enhancement Course (SEC) & Generic Elective (GE) syllabus.
3. Discussion about the employability of the courses
4. Proposal for introducing B.Sc. (Honors) Data Science Program.
5. Suggestions by the Members and any other points.

**BHAVANS VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND  
COMMERCE**

**SAINIKPURI, SECUNDERABAD  
AUTONOMOUS COLLEGE  
Affiliated to Osmania University**

**THE DEPARTMENT OF MATHEMATICS & STATISTICS**

**BOARD OF STUDIES MEETING**

**Saturday, 14 December 2019**

**11:30 pm**

**Committee Room, MBA Block**

**AGENDA**

1. Welcome
2. Review of B .Sc Statistics Semester VI, Skill Enhancement Course (SEC) & Generic Elective (GE) syllabus.
3. Discussion about the employability of the courses
4. Proposal for introducing B.Sc. (Honors) Data Science Program.
5. Suggestions by the Members and any other points.



## **Bhavan's Vivekananda College of Science, Humanities and Commerce**

### **Resolutions of the Seventh Board of Studies Meeting**

#### **Department of Mathematics and Statistics**

The Seventh Board of Studies meeting was conducted on 14-12-2019 at 10:00 am in the Committee Room, MBA block, Bhavan's Vivekananda College of Science, Humanities & Commerce to discuss the following agenda:

1. Review of Semester VI syllabus – Paper VI and Paper VIA.
2. Employability and Skill development of the Courses.
3. Proposal to introduce B.Sc. (Honors) in Data Science.
4. Any other points.

Members present:

1. Dr. K. Vasudeva Rao, Chairperson BoS, Statistics, Dept. of Mathematics & Statistics, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.
2. Dr. G. Jayasree, University Nominee, Head of the Department, Associate Professor, Dept. of Statistic, Osmania University.
3. Dr. Ch. Yugandhar, Subject Expert, Assistant Prof, Dept. of Statistics, St. Francis College For Women, Begumpet, Secunderabd.
4. Mr. Srikanth, Expert from Industry, Data Scientist, IBM, Hyderabad.
5. Ms. Sudha Ravali, Student Member, B.Sc. MSCs(Student), Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.
6. Faculty members of Statistics, Dept. of Mathematics and Statistics, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.

Dr. K. Vasudeva Rao, Chairperson BoS welcomed the members of the BoS for the seventh Board of Studies meeting.

The following points were discussed as per the agenda and resolved as follows:

1. Review of Semester VI – Papers VI & VI A.
  - It was decided that in Semester VI, Papers VI and VI A would be followed as per the syllabus without any changes.
2. Employability and skill development of courses
  - The employability of the Core Courses and skill development of the SEC and GE courses were approved and well appreciated by Dr. G. Jayasree.

### **I. B.Sc.(MSCs) :**

- i. Mathematics, Statistics, and Computer Science skills are indispensable problem-solving and decision-making tools at the heart of advances in many areas of life. Many fields of private and public sectors use the services of statisticians (health, education, public services, insurance companies, information and communication companies, retail, and other industries). That gives the students incredibly diverse employment opportunities.
- ii. Learning interdisciplinary subjects Statistics, Mathematics, and Computer science students employability skills will develop the ability to:
  - use mathematics and statistics help them to develop solutions to practical problems
  - follow complex mathematical and statistical arguments and to develop a brief algorithm using a computer programming language of their own
  - work with statistical computer software packages
  - find, extract and analyze data from many sources
  - communicate mathematical and statistical information effectively
  - manage time and employ good organizational skills
  - work with patience and persistence.

### **II. Data Analysis with R – I (SE 322) and Data Analysis with R – II (SE 422)**

- i. The program is designed to encourage the students to develop new statistical modeling using R programming languages for data science problems across different applied domains and gain employability in private and public sectors.

### **III. Data Analysis with SPSS – I (SE 522) and Data Analysis with SPSS – II (SE 622)**

- i. The program helps the students to develop technical skills in probability modeling and statistical inference for the practical application of statistical methods in their future employment.

### **IV. Data Analysis with Excel (GE 522):**

- i. The course is designed for non-mathematics students - those who have very little functional knowledge of Excel. The program helps the student's ability to analyze data which helps the student to make better decisions and gain employability in their respective areas.

### **V. Data Analysis with SPSS (GE 622):**

- i. The program helps non-mathematics students to analyze scientific data related with the social science like market research, surveys, data mining, etc. With the help of the obtained SPSS knowledge, students gain employability in the field of finance, Marketing, manufacturing, pharmaceuticals, government and education.


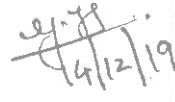
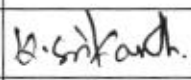




### 3. Proposal to start B.Sc.(Honors) Data Science

- I. The HoD, Dr. K. Vasudeva Rao informed the board members regarding the proposal to start a B.Sc.(Honors) Data Science program subject to approval by the Governing Body of the College and OU.
- II. DR. G. Jayasree, The OU nominee asked the HoD and Faculty members to find out the guidelines for starting a new program from the Dean, College of Science, OU.

### 4. Any Other Points

- I. 30 classes are allotted for each of the SEC and GE courses of which 15 classes are scheduled for theory and 15 classes for field work / practical work.
- II. It was decided in the Governing Body Meeting of the College that the revised credit system and the syllabus proposed by Osmania University would be implemented from the academic year 2020-2021 as the communication was given in July 2019.

The meeting was conducted by the vote of thanks proposed by Dr. K. Vasudeva Rao, Chairperson BoS, Dept of Mathematics & Statistics.

S.No	NAME AND DESIGNATION	Signature
1.	Dr. K. Vasudeva Rao, Chairperson BoS, Statistics, Dept. of Mathematics & Statistics, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.	
2.	University Nominee: Dr. G. Jayasree, Head of the Department, Associate Professor, Dept. of Statistic, Osmania University.	 14/12/19
3.	Subject Expert: Dr. Ch. Yugandhar, Subject Expert, Assistant Prof, Dept. of Statistics, St. Francis College For Women, Begumpet, Secunderabd.	
4.	Expert from Industry: Mr. Srikanth, Data Scientist, IBM, Hyderabad.	
5.	Student Member: Ms. Sudha Ravali, Student Member, B.Sc. MSCs(Student), Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.	
6.	Mr. V. Selva Kumar, Lecturer in Statistics, Department of Mathematics & Statistics, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.	
5.	Mrs. P. Rajini, Lecturer in Statistics, Department of Mathematics & Statistics, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.	
6.	Mr. N. Chandan Babu, Lecturer in Statistics, Department of Mathematics & Statistics, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.	

## **Bhavan's Vivekananda College of Science, Humanities and Commerce**

### **Resolutions of the Seventh Board of Studies Meeting**

#### **Department of Mathematics and Statistics**

The Seventh Board of Studies meeting was conducted on 14-12-2019 at 10:00 am in the Committee Room, MBA block, Bhavan's Vivekananda College of Science, Humanities & Commerce to discuss the following agenda:

1. Review of Semester VI syllabus – Paper VI and Paper VIA.
2. Employability and Skill development of the Courses.
3. Proposal to introduce B.Sc. (Honors) in Data Science.
4. Any other points.

Members present:

1. Dr. K. Vasudeva Rao, Chairperson BoS, Statistics, Dept. of Mathematics & Statistics, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.
2. Dr. G. Jayasree, University Nominee, Head of the Department, Associate Professor, Dept. of Statistic, Osmania University.
3. Dr. Ch. Yugandhar, Subject Expert, Assistant Prof, Dept. of Statistics, St. Francis College For Women, Begumpet, Secunderabd.
4. Mr. Srikanth, Expert from Industry, Data Scientist, IBM, Hyderabad.
5. Ms. Sudha Ravali, Student Member, B.Sc. MSCs(Student), Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.
6. Faculty members of Statistics, Dept. of Mathematics and Statistics, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.

Dr. K. Vasudeva Rao, Chairperson BoS welcomed the members of the BoS for the seventh Board of Studies meeting.

The following points were discussed as per the agenda and resolved as follows:

1. Review of Semester VI – Papers VI & VI A.
  - It was decided that in Semester VI, Papers VI and VI A would be followed as per the syllabus without any changes.
2. Employability and skill development of courses
  - The employability of the Core Courses and skill development of the SEC and GE courses were approved and well appreciated by Dr. G. Jayasree.

### **I. B.Sc.(MSCs) :**

- i. Mathematics, Statistics, and Computer Science skills are indispensable problem-solving and decision-making tools at the heart of advances in many areas of life. Many fields of private and public sectors use the services of statisticians (health, education, public services, insurance companies, information and communication companies, retail, and other industries). That gives the students incredibly diverse employment opportunities.
- ii. Learning interdisciplinary subjects Statistics, Mathematics, and Computer science students employability skills will develop the ability to:
  - use mathematics and statistics help them to develop solutions to practical problems
  - follow complex mathematical and statistical arguments and to develop a brief algorithm using a computer programming language of their own
  - work with statistical computer software packages
  - find, extract and analyze data from many sources
  - communicate mathematical and statistical information effectively
  - manage time and employ good organizational skills
  - work with patience and persistence.

### **II. Data Analysis with R – I (SE 322) and Data Analysis with R – II (SE 422)**

- i. The program is designed to encourage the students to develop new statistical modeling using R programming languages for data science problems across different applied domains and gain employability in private and public sectors.

### **III. Data Analysis with SPSS – I (SE 522) and Data Analysis with SPSS – II (SE 622)**

- i. The program helps the students to develop technical skills in probability modeling and statistical inference for the practical application of statistical methods in their future employment.

### **IV. Data Analysis with Excel (GE 522):**

- i. The course is designed for non-mathematics students - those who have very little functional knowledge of Excel. The program helps the student's ability to analyze data which helps the student to make better decisions and gain employability in their respective areas.

### **V. Data Analysis with SPSS(GE 622):**

- i. The program helps non-mathematics students to analyze scientific data related with the social science like market research, surveys, data mining, etc. With the help of the obtained SPSS knowledge, students gain employability in the field of finance, Marketing, manufacturing, pharmaceuticals, government and education.

### 3. Proposal to start B.Sc.(Honors) Data Science

- I. The HoD, Dr. K. Vasudeva Rao informed the board members regarding the proposal to start a B.Sc.(Honors) Data Science program subject to approval by the Governing Body of the College and OU.
- II. DR. G. Jayasree, The OU nominee asked the HoD and Faculty members to find out the guidelines for starting a new program from the Dean, College of Science, OU.

### 4. Any Other Points

- I. 30 classes are allotted for each of the SEC and GE courses of which 15 classes are scheduled for theory and 15 classes for field work / practical work.
- II. It was decided in the Governing Body Meeting of the College that the revised credit system and the syllabus proposed by Osmania University would be implemented from the academic year 2020-2021 as the communication was given in July 2019.

The meeting was conducted by the vote of thanks proposed by Dr. K. Vasudeva Rao, Chairperson BoS, Dept of Mathematics & Statistics.

S.No	NAME AND DESIGNATION	Signature
1.	Dr. K. Vasudeva Rao, Chairperson BoS, Statistics, Dept. of Mathematics & Statistics, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.	
2.	University Nominee: Dr. G. Jayasree, Head of the Department, Associate Professor, Dept. of Statistic, Osmania University.	
3.	Subject Expert: Dr. Ch. Yugandhar, Subject Expert, Assistant Prof, Dept. of Statistics, St. Francis College For Women, Begumpet, Secunderabd.	
4.	Expert from Industry: Mr. Srikanth, Data Scientist, IBM, Hyderabad.	
5.	Student Member: Ms. Sudha Ravali, Student Member, B.Sc. MSCs(Student), Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.	
6.	Mr. V. Selva Kumar, Lecturer in Statistics, Department of Mathematics & Statistics, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.	
5.	Mrs. P. Rajini, Lecturer in Statistics, Department of Mathematics & Statistics, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.	
6.	Mr. N. Chandan Babu, Lecturer in Statistics, Department of Mathematics & Statistics, Bhavan's Vivekananda College of Science, Humanities & Commerce, Sainikpuri, Secunderabad.	

BVC/BOS-Stats/2019-20

13<sup>th</sup> Dec, 2019

To  
Dr. G Jayasree  
Associate Prof. Dept. of Statistics  
Osmania University  
Hyderabad.

Sir/Madam,

Sub : Meeting of BOS - Department of Statistics.

\*\*\*

The meeting of Board of Studies, Department of Statistics is scheduled on 14<sup>th</sup> Dec, 2019 at 11.00 am in Committee room, MBA Block. We request you to make it convenient to attend the meeting.

We look forward for your presence and valuable contribution.

Thanking you,

Yours Sincerely



Prof. Y Ashok  
Principal

ej. 88.  
14/12/19.



BOS-Stats/2019-20

14<sup>th</sup> Dec, 2019

To  
Dr.G Jayasree  
Associate Professor, Dept. of Statistics  
Osmania University  
Hyderabad.

Sir,

We express our sincere thanks for your presence for the meeting of Board of Studies, Department of Statistics on 14<sup>th</sup> December, 2019. We also thank you for your valuable contribution on various aspects of the agenda.

Thanking you,

Yours Sincerely



Prof. Ashok  
Principal

24/12  
14/12/19.





Bhavan's Vivekananda College, Sanikpuri  
Faculty of Physical Sciences  
B. Sc (Honours) in Data Science  
Course title and allocation of teaching hours, credits and marks

**Computer Science**

S No	Semester	Course titles	Hours/week	Credits	Marks
1	I	Programming in 'C'	4	4	100
2		Operating Systems	4	4	100
3		Programming in 'C' Lab	2	1	50
4		Operating Systems Lab	2	1	50
5	II	Database Management Systems	4	4	100
6		Introduction to Data Science	4	4	100
7		DBMS Lab	2	1	50
8		Advanced Excel Lab	2	1	50
9	III	Artificial Intelligence	4	4	100
10		OOP using Python	4	4	100
11		OOP using Python Lab	2	1	50
12		AI Lab	2	1	50
13	IV	Big Data Analytics	4	4	100
14		Design and Analysis of Algorithms	4	4	100
15		Big Data Lab	2	1	50
16	V	Software Engineering	4	4	100
17		Network security	4	4	100
18		Software Engineering Lab	2	1	50
20	VI	Cloud Computing	4	4	100
21		Blockchain Technology	4	4	100
			<b>64</b>	<b>56</b>	<b>1600</b>

**Statistics**

S No	Semester	Course titles	Hours/week	Credits	Marks
1	I	Computational Statistics	4	4	100
2		Computational Statistics Practical using Sp	2	1	50
3	II	Probability and Statistical Methods	4	4	100
4		Exploratory Data Analysis using R Program	2	1	50
5	III	Inferential Statistics I	4	4	100
6		Optimization Methods for Analytics I	4	4	100
7	IV	Inferential Statistics II	4	4	100
8		Optimization Methods for Analytics II	4	4	100
9		Data Analysis using Python and TORA	2	1	50
10	V	Predictive Analytics	4	4	100
11		Machine Learning	4	4	100
13		Predictive Analytics Practical using SPS	2	1	50

13	Machine Learning Practicals	2	1	50
		<b>42</b>	<b>37</b>	<b>1050</b>

### Mathematics

S No	Semester	Course titles	Hours/week	Credits	Marks
1	I	Ordinary Differential Equations	5	5	100
2	II	Calculus	5	5	100
3	III	Discrete Mathematics	5	5	100
4	IV	Linear Algebra	5	5	100
5		Practical in Linear Algebra using MATLAB	2	1	50
6	V	Numerical Analysis	5	5	100
			<b>27</b>	<b>26</b>	<b>550</b>

Course Type	Hours	Credits	Marks
English	8	8	200
AECC	4	4	100
Mathematics	27	26	550
Statistics	46	37	1050
Computer Science	64	56	1600
SEC	4	4	100
GE	4	4	100
Project	10	10	250
Seminar	2	1	50
<b>Total</b>	<b>169</b>	<b>150</b>	<b>4000</b>



**BHAVANS VIVEKANANDA COLLEGE OF SCIENCE,  
HUMANITIES AND COMMERCE  
Autonomous College  
Affiliated to Osmania University**

**DEPARTMENT OF MATHEMATICS AND STATISTICS  
STATISTICS SYLLABUS  
(2018 – 2019)**

*ey. Jayasree.*  
Chair-Person  
Chairman B.O.S. in Statistics  
Board of Studies in Statistics, OU  
U.C.S.  
Osmania University,  
HYDERABAD-7.

*ey*  
Chairman  
Board of Studies in Statistics, BVC

Principal

**BHAVANS VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND  
COMMERCE**

**SAINIKPURI, SECUNDERABAD  
AUTONOMOUS COLLEGE  
Affiliated to Osmania University**

**THE DEPARTMENT OF MATHEMATICS & STATISTICS**

**BOARD OF STUDIES MEETING**

**Friday, 13<sup>th</sup> April 2018**

**12:00 Noon**

**Committee Room, M.B.A. Block**

**AGENDA**

1. Welcome
2. Approval request for B.Sc Statistics Semesters V, VI Generic electives (GE) CBCS syllabus.
3. Practical Examination is conducted for 2 hours with 25 marks and 1 credit from the academic year 2018-19.
4. Suggestions by the Members.
5. Any other matter.

*Jayasree.*

Chair-Person  
B.O.S. in Statistics  
U.C.S.  
Osmania University,  
HYDERABAD-7.

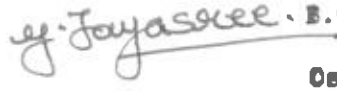




Bharatiya Vidya  
**Bhavan**

**BHAVANS VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND  
COMMERCE**

**ACCREDITED WITH A GRADE BY NAAC  
Autonomous and Affiliated To Osmania University**

**DEPARTMENT OF STATISTICS  
BOARD OF STUDIES MEMBERS**

S.No	Name	Signature
1	Dr. K. Vasudeva Rao Chairman	
2	Dr.G. Jayasree Chairperson, BOS, OU	 Chair-Person B.O.S. in Statistics U.C.S. Osmania University, HYDERABAD-7.
3	Dr. Ch. Yugandhar Subject Expert	
4	Mr. V. Selva Kumar Member	
5	Mrs. P. Rajini Member	
6	Mr. N. Chandan Babu Member	
7	Mr. Srikanth Industry Expert	
8	Ms. Arun Jyothi Alumni	
9	Ms. M.Akhila Student, B.V.C.	



**BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND  
COMMERCE**

**ACCREDITED WITH A GRADE BY NAAC  
Autonomous College**

**Affiliated to Osmania University**

**BOARD OF STUDIES IN STATISTICS (UG), BVC**

The Fifth meeting of Board of Studies in Statistics held on 13.04.2018 at 12:00 Noon in Committee Room, M.B.A. Block, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, Secunderabad.

**MINUTES OF THE MEETING:**

The Fifth BOS meeting was held to take up the agenda as listed and take decisions pertaining to the agenda.

The syllabus was put forward to the BOS committee for approval with the following resolutions:

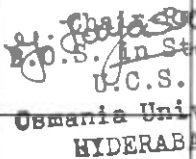
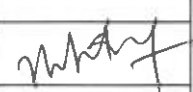
- a) Decided to continue with the approved B.Sc.I, B.Sc.II & B.Sc.III year syllabus (I, II, III, IV, V & VI Semesters) for the academic year 2018-19.
- b) The syllabus for *Generic Electives* is proposed and approved the same for the semesters V & VI.
- c) Decided to continue with the existing examination pattern for Theory.
- d) Practical Examination will be conducted for 2 hours with 25 marks and 1 credit for the batch of students from 2018-19 onwards.
- e) Industry Expert Mr. Srikanth suggested to introduce projects for SEC statistics students.
- f) Ms. Arun Jyothi, Ms. Akhila appreciated the introduction of R-Programming in semesters III & IV and SPSS in semesters V & VI.

**Members Present:**


**Chairman:**

Dr. K. Vasudeva Rao, Chairman, BOS in Statistics, BVC

**Members Attended:**

S.No	Name	Designation	Signature
1	Dr. G. Jayasree	Chairperson ,BOS ,Associate Professor, Department of Statistics, Osmania University	 Chairperson BOS in Statistics U.C.S. Osmania University, HYDERABAD-7.
2	Dr. Ch. Yugandhar	Subject Expert, St. Francis College For Women	
3	Mr. V. Selva Kumar	Lecturer in Statistics, BVC	
4	Mrs. P. Rajini	Lecturer in Statistics, BVC	
5	Mr. N. Chandan Babu	Lecturer in Statistics, BVC	
6	Mr. Srikanth	Industry Expert, Data Scientist, IBM	
7	Ms. Arun Jyothi	Alumni	
8	Ms. M.Akhila	Student, B.V.C.	

Chairman expressed gratitude to all the members of board for their valuable suggestions and cooperation. The meeting concluded with the vote of thanks by Dr.K.Vasudeva Rao, BOS and BVC.

  
Chair-Person  
Dr. G. Jayasree, Associate Professor,  
Chairman, BOS  
Department of Statistics, Osmania University,  
HYDERABAD-7.

Dr. K. Vasudeva Rao  
Head of the Department, BVC



**BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE**  
**ACCREDITED WITH A GRADE BY NAAC**  
**Autonomous College(Affiliated To Osmania University)**

**DEPARTMENT OF STATISTICS**  
**LIST OF EXTERNAL EXAMINERS**

S.NO	NAME	COLLEGE	PHONE NO.
1	Dr. Ch. Yugandhar	St. Francis Degree college for Women	9849651251
2	Mr.G. Govardhan	MNR Degree college, Kukatpally	9848019846
3	Mr. Raghavendra Kulkarni	Nrupathunga Degree college	9849621263
4	Mrs. Rama Devi	Sujatha Degree college For Women	9908019440
5	Mrs. L. Rajini	Koti Women's Degree college	9032822116
6	Mrs. V. Sai Sri Kishore	St. Ann's Degree college, Mehdipatnam	9908277382
7	Mr. Venugopal	Avanti Degree College	9492543935
8	Mr. Venkata Ramana	Jagruti Degree college	9490313411
9	Mrs. Parimala Sudheer	Aurora Degree College	9885128667
10	Dr. Lavanya	AMS Degree College	9948470727
11	Mr. Vishveshwar	Wesley Boys Degree college, Sec-Bad	9989685936
12	Mr. Shekaran	Mega Women's Degree college, RamanthaPur.	9966960382
13	Mrs. Sailaja	Loyola Academy Degree & PG College, Old Alwal, Sec_bad.	9490124257
14	Mrs. Jaya Sree	RBVRR Women's college	9849236602
15	Dr. M. Jagan Mohan Rao	Jagruti Degree college	9849821368
16	Mrs. Sunita	Govt. Degree college, Vidya Nagar	9000103953
17	Mrs. Srikala	St. Ann's Degree college, Mehdipatnam	7729077295
18	Mrs. Sumalatha	Koti Women's Degree college	9291434772
19	Mrs. Aarti	Anurag Degree college	9959875222
20	Mrs. P. Laxmi Prasanna	RBVRR Women's Degree College	9676645332
21	Mrs. Vedavati	Begumpet women's College	
22	Mrs. Dr. K. Padmavathi	Babu Jagjeevan Ram College	9989334991

*y-jayasree.*  
Chair-person  
B.O.S. in Statistics  
U.C.S.  
Osmania University,  
HYDERABAD-7.





Bharatiya Vidya  
**Bhavan**

**BHAVANS VIVEKANANDA COLLEGE OF SCIENCE,  
HUMANITIES AND COMMERCE  
ACCREDITED WITH A GRADE BY NAAC  
Autonomous College**

**Affiliated to Osmania University**

**DEPARTMENT OF MATHEMATICS AND STATISTICS  
STATISTICS SYLLABUS  
CBCS Batch 2016 – 2019**

17-18

*V V Have Simal*  
**Chairperson** 31/03/2017

**Board Of Studies in Statistics, OU**  
Chair-Person  
B.O.S. in Statistics  
U.C.S.  
Osmania University,  
HYDERABAD-7.

**Chairman**

**Board Of Studies in Statistics, BVC**

**Principal**

**BHAVANS VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND  
COMMERCE**

**SAINIKPURI, SECUNDERABAD**  
ACCREDITED WITH A GRADE BY NAAC  
AUTONOMOUS COLLEGE  
Affiliated to Osmania University

**THE DEPARTMENT OF MATHEMATICS & STATISTICS**

**BOARD OF STUDIES MEETING  
IN STATISTICS**

**Monday, 31 March 2017**

**12:00 Noon**

**Seminar Hall**

**AGENDA**

1. Welcome
2. Approval of Statistics CBCS II year (III & IV semesters) and III year (V & VI semesters) syllabus for the students admitted in 2016-17 batch.
3. Approval of Statistics SEC – Titles and, SEC – syllabus of semesters III, IV, V & VI.
4. Any other matter.



**BHAVANS VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND  
COMMERCE**

**ACCREDITED WITH A GRADE BY NAAC  
Autonomous and Affiliated To Osmania University**

**DEPARTMENT OF STATISTICS  
BOARD OF STUDIES MEMBERS**

S.No	Name	Signature
1	Dr. K. Vasudeva Rao Chairman	
2	Prof. V. V. Haragopal Chairperson, BOS, OU	<i>V.V. Haragopal</i> 31/03/2017
3	Dr. Ch. Yugandhar Subject Expert	<i>Ch. Yugandhar</i> 31/03/2017
4	Mr. V. Selva Kumar Member	<i>V. Selva Kumar</i> 31/03/2017
5	Mrs. P. Rajini Member	<i>P. Rajini</i> 31/03/17
6	Mr. N. Chandan Babu Member	<i>N. Chandan Babu</i> 31/03/17

Chair-Person  
B.O.S. in Statistics  
U.C.S.  
Osmania University,  
HYDERABAD-7.



**BHAVANS VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE**  
**ACCREDITED WITH A GRADE BY NAAC**  
**Autonomous College**

**Affiliated to Osmania University**

**BOARD OF STUDIES IN STATISTICS (UG), BVC**

The fourth meeting of Board of Studies in Statistics held on 31.03.2017 at 12:00 Noon in MBA Seminar Hall, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri.

**MINUTES OF THE MEETING:**

The fourth BOS meeting was held to take up the agenda as listed and take decisions pertaining to the agenda.

The modified syllabus was put forward to the BOS committee for approval with the following resolutions:

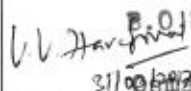
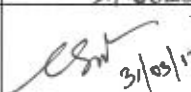
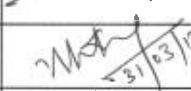
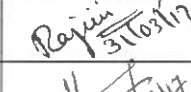

- Decided to start CBCS System with approved syllabus for Second year (III and IV Semesters) for 2016-17 admitted students.
- Approval of SEC – syllabus for semester III, IV, V and VI.
- Suggestions about results.
- Decided to continue with the existing examination pattern.

**Members Present:**

**Chairman:**

Dr. K. Vasudeva Rao, Chairman, BOS in Statistics, BVC

**Members:**

S.No	Name	Designation	Signature
1	Prof .V. V. Haragopal	Chairperson ,BOS ,Professor, Department of Statistics, Osmania University	 31/03/17
2	Dr. Ch. Yugandhar	Subject Expert, St. Francis College For Women	 31/03/17
3	Mr. V. Selva Kumar	Lecturer in Statistics, BVC	 31/03/17
4	Mrs. P. Rajini	Lecturer in Statistics, BVC	 31/03/17
5	Mr. N. Chandan Babu	Lecturer in Statistics, BVC	 31/03/17

Chair-Person  
BOS in Statistics  
U.C.S.  
Osmania University,  
HYDERABAD-7.

Chairman expressed gratitude to all the members of board for their valuable suggestions and cooperation. The meeting concluded with the vote of thanks by Dr.K.Vasudeva Rao, BOS, and BVC.

*V. V. Haragopal*  
31/03/2017

**Prof V. Haragopal**  
**Chairman, BOS**  
**Department of Statistics, OU**  
Chair-Person  
**B.O.S. in Statistics**  
**U.C.S.**  
**Osmania University,**  
**HYDERABAD-7.**

*K. Vasudeva Rao*  
31/3/17

**Dr. K. Vasudeva Rao**  
**Head of the Department, BVC**

**Prof. Y. Ashok**  
**Principal**

**BHAVAN'S VIVEKANANDA COLLEGE**  
**STATISTICS SYLLABUS**

**Proposed scheme for B.Sc Programme under Choice Based Credit System**

w.e.f 2016-17

<b>SEMESTER-I</b>				
<b>Code</b>	<b>Course Title</b>	<b>Course Type</b>	<b>HPW</b>	<b>Credits</b>
ST122	Discriptive Statistics and Probability	DSC	4T+2P=6	4+1=5
<b>SEMESTER-II</b>				
ST222	Probability Distributions	DSC	4T+2P=6	4+1=5
<b>SEMESTER-III</b>				
SE322	Data Analysis with R - I	SEC-I	2	2
ST322	Statistical Methods and Inference I	DSC	4T+2P=6	4+1=5
<b>SEMESTER-IV</b>				
SE422	Data Analysis with R - II	SEC-2	2	2
ST422	Statistical Inference II	DSC	4T+2P=6	4+1=5
<b>SEMESTER-V</b>				
SE522	Data Analysis with SPSS - I	SEC-3	2	2
ST522	Applied Statistics I	DSC	3T+2P=5	3+1=4
ST522 A	Statistical Quality Control and Reliability	DSE	3T+2P=5	3+1=4
GE522	Data Analysis with MS-Excel	GE-1	2	2
<b>SEMESTER-VI</b>				
SE622	Data Analysis with SPSS-II	SEC-4	2	2
ST622	Applied Statistics II	DSC	3T+2P=5	3+1=4
ST622A	Operation Research	DSE	3T+2P=5	3+1=4
GE622	Data Analysis with SPSS	GE-2	2	2

**BHAVAN'S VIVEKANANDA COLLEGE**  
**STATISTICS SYLLABUS**

**Proposed scheme for B.Sc Programme under Choice Based Credit System**

w.e.f 2016-17

<b>SEMESTER-I</b>				
<b>Code</b>	<b>Course Title</b>	<b>Course Type</b>	<b>HPW</b>	<b>Credits</b>
ST122	Discriptive Statistics and Probability	DSC	4T+2P=6	4+1=5
<b>SEMESTER-II</b>				
ST222	Probability Distributions	DSC	4T+2P=6	4+1=5
<b>SEMESTER-III</b>				
SE322	Data Analysis with R - I	SEC-I	2	2
ST322	Statistical Methods and Inference I	DSC	4T+2P=6	4+1=5
<b>SEMESTER-IV</b>				
SE422	Data Analysis with R - II	SEC-2	2	2
ST422	Statistical Inference II	DSC	4T+2P=6	4+1=5
<b>SEMESTER-V</b>				
SE522	Data Analysis with SPSS - I	SEC-3	2	2
ST522	Applied Statistics I	DSC	3T+2P=5	3+1=4
ST522 A	Statistical Quality Control and Reliability	DSE	3T+2P=5	3+1=4
GE522	Data Analysis with MS-Excel	GE-1	2	2
<b>SEMESTER-VI</b>				
SE622	Data Analysis with SPSS-II	SEC-4	2	2
ST622	Applied Statistics II	DSC	3T+2P=5	3+1=4
ST622A	Operation Research	DSE	3T+2P=5	3+1=4
GE622	Data Analysis with SPSS	GE-2	2	2



Bharatiya Vidya  
**Bhavan**

**BHAVANS VIVEKANANDA COLLEGE OF SCIENCE,  
HUMANITIES AND COMMERCE  
ACCREDITED WITH A GRADE BY NAAC  
Autonomous College  
Affiliated to Osmania University**

**DEPARTMENT OF MATHEMATICS AND STATISTICS  
STATISTICS SYLLABUS  
(2016 – 2017)**

*V. V. Hanumanth*

Chairperson Chair-Person 03/2016  
B.O.S. in Statistics  
Board Of Studies in Statistics, OU  
Osmania University,  
HYDERABAD-7.

**Chairman**

**Board Of Studies in Statistics, BVC**

**Principal**



**BHAVANS VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND  
COMMERCE**

**SAINIKPURI, SECUNDERABAD**  
ACCREDITED WITH A GRADE BY NAAC  
AUTONOMOUS COLLEGE  
Affiliated to Osmania University

**THE DEPARTMENT OF MATHEMATICS & STATISTICS**

**BOARD OF STUDIES MEETING  
IN STATISTICS**

**Monday, 21 March 2016**

**11:30 am**

**Seminar Hall**

**AGENDA**

1. Welcome
2. Review of I and II Semesters Syllabus along with I Semester results
3. Approval of Second year syllabus (III and IV Semesters)
4. Suggestions by the members
5. Revised list of examiners
6. Any other matter



Bharatiya Vidya  
**Bhavan**

**BHAVANS VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND  
COMMERCE**

**ACCREDITED WITH A GRADE BY NAAC  
Autonomous and Affiliated To Osmania University**

**DEPARTMENT OF STATISTICS  
BOARD OF STUDIES MEMBERS**

S.No	Name	Signature
1	Dr. K. Vasudeva Rao Chairman	
2	Prof. V. Haragopal Chairperson, BOS, OU	 21/03/2016
3	Dr. Ch. Yugandhar Subject Expert	
4	Mr. Raghavendra Kulkarni Subject Expert	
5	Dr. Sudheer Reddy Industry Expert	
6	Mr. K. Srikanth Alumni	
7	Mr. V. Selva Kumar Member	
8	Mrs. P. Rajini Member	 21/03/16
9	Mr. N. Chandan Babu Member	

**Chair-Person**  
**U.O.S. in Statistics**  
**U.C.S.**  
**Osmania University,**  
**HYDERABAD-7.**



**BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE**  
ACCREDITED WITH A GRADE BY NAAC  
Autonomous College

Affiliated to Osmania University

**BOARD OF STUDIES IN STATISTICS (UG), BVC**

The Second meeting of Board of Studies in Statistics held on 21.03.2016 at 11:30 AM in MBA Seminar Hall, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri.

**MINUTES OF THE MEETING:**

The Second BOS meeting was held to take up the agenda as listed and take decisions pertaining to the agenda.

The syllabus was put forward to the BOS committee for approval with the following resolutions:

- The Department is asked to prepare the CBCS syllabus for the academic year 2016-17 as per the guidelines of UGC & Osmania University.
- B.Sc. II year (III and IV Semesters) syllabus was approved for the 2015-16 batch students.
- The Board presented the results & ~~admitted~~ <sup>live</sup> the members ~~and also~~ congratulated the teachers.
- Revised list of Examiners were finalised.
- Decided to continue with the existing examination pattern for II & III years.

**Members Present:**

**Chairman:**


Dr. K. Vasudeva Rao, Chairman, BOS in Statistics, BVC

**Members:**

S.No	Name	Designation	Signature
1	Prof. V. V. Haragopal	Chairperson, BOS, Professor, Department of Statistics, Osmania University	 21/03/2016
2	Dr. Ch. Yugandhar	Subject Expert, HOD, Department of Statistics St. Francis Degree college for Women	 21/03/16
3	Mr. Raghavendra Kulkarni	Subject Expert, Principal Nrupathunga Degree College	
4	Dr. Sudheer Reddy	Industry Expert, ADRIN, Sikh Village.	
6	Mr. K. Srikanth	Alumni member, Data Analyst - IBM	
7	Mr. V. Selva Kumar	Lecturer in Statistics, BVC	 21/3/16
8	Mrs. P. Rajini	Lecturer in Statistics, BVC	 21/03/16
9	Mr. N. Chandan Babu	Lecturer in Statistics, BVC	 21/3

Chair-Person  
B.O.S. in Statistics  
U.C.S.  
Osmania University,  
HYDERABAD-7.

Chairman expressed gratitude to all the members of board for their valuable suggestions and cooperation. The meeting concluded with the vote of thanks by Dr.K.Vasudeva Rao, BOS, and BVC.

  
Prof V.V. Haragopal 21/03/2016

Chairman, BOS

Department of Statistics, OU

Chairman  
B.O.S. in Statistics  
U.C.S.  
Osmania University,  
HYDERABAD-7.



Dr. K. Vasudeva Rao  
Head of the Department, BVC

Prof. Y. Ashok  
Principal



Bharatiya Vidya  
**Bhavan**

**BHAVANS VIVEKANANDA COLLEGE OF SCIENCE,  
HUMANITIES AND COMMERCE  
ACCREDITED WITH A GRADE BY NAAC  
Autonomous College**

**Affiliated to Osmania University**

**DEPARTMENT OF MATHEMATICS AND STATISTICS  
STATISTICS SYLLABUS  
(2016 – 2017)**

Chairperson

Board of Studies in Statistics, Osmania University,  
HYDERABAD-7.

*V.V. Hanumanth*  
Chairperson  
B.O.S. in Statistics  
U.C.S.  
Osmania University,  
HYDERABAD-7.

Chairman

Board of Studies in Statistics, BVC

Principal



Bharatiya Vidya  
**Bhavan**

**BHAVANS VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND  
COMMERCE**

**SAINIKPURI, SECUNDERABAD**  
ACCREDITED WITH A GRADE BY NAAC  
AUTONOMOUS COLLEGE  
Affiliated to Osmania University

**DEPARTMENT OF MATHEMATICS & STATISTICS**

**BOARD OF STUDIES MEETING  
IN STATISTICS**

**Thursday, 16 June 2016**

**11:30 am**

**Committee Room**

**AGENDA**

1. Welcome
2. Approval of statistics CBCS I year (I and II semesters) syllabus for the students  
admitted in 2016-17 batch.
3. Any other matter



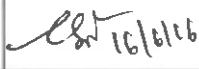
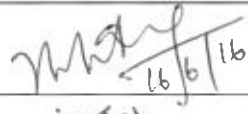
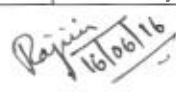
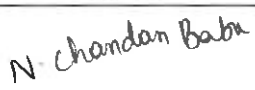


Bharatiya Vidya  
**Bhavan**

**BHAVANS VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND  
COMMERCE**

**ACCREDITED WITH A GRADE BY NAAC  
Autonomous and Affiliated To Osmania University**

**DEPARTMENT OF STATISTICS  
BOARD OF STUDIES MEMBERS**

S.No	Name	Signature
1	Dr. K. Vasudeva Rao Chairman	 16/6/16
2	Prof. V. V. Haragopal Chairperson, BOS, OU	 16/06/16
3	Dr. Ch. Yugandhar Subject Expert	 16/6/16
4	Mr. V. Selva Kumar Member	 16/6/16
5	Mrs. P. Rajini Member	 16/06/16
6	Mr. N. ChandanBabu Member	 N. Chandan Babu

**Chair-Person**  
B.O.S. in Statistics  
U.C.S.  
Osmania University,  
HYDERABAD-7.



Bharatiya Vidya  
**Bhavan**

**BHAVANS VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE**  
ACCREDITED WITH A GRADE BY NAAC  
Autonomous College

Affiliated to Osmania University

**BOARD OF STUDIES IN STATISTICS (UG), BVC**

The Third meeting of Board of Studies in Statistics held on 16.06.2016 at 11:30 AM in Committee Room, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri.

**MINUTES OF THE MEETING:**

The Third BOS meeting was held to take up the agenda as listed and take decisions pertaining to the agenda.

The modified syllabus was put forward to the BOS committee for approval with the following resolutions:

- Decided to start CBCS (as per TSCHE) System with approved syllabus for first year (I and II Semesters) 2016-17 admitted students.
- The Board suggested SEC-I as Data Analysis using Ms-Excel, SEC-II as Data Analysis using SPSS, SEC-III as Data Analysis using R-I, SEC-IV as Data Analysis using R-II. Also GE-I and GE-II to be modified to Basics statistics/Data Analysis.
- It is also suggested that in the final year (V and VI Semesters) three electives are to be offered in Paper-IV.
- Suggestions about results.
- Decided to continue with the existing examination pattern.

**Members Present:**

**Chairman:**

Dr. K. Vasudeva Rao, Chairman, BOS in Statistics, BVC

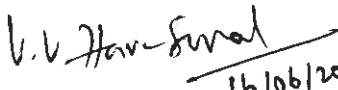
**Members:**

S.No	Name	Designation	Signature
1	Prof.V. V. Haragopal	Chairperson ,BOS ,Professor, Department of Statistics, Osmania University	<i>V.V. Haragopal</i> 16/06/16
2	Dr. Ch. Yugandhar	Subject Expert, HOD, Department of Statistics St. Francis Degree College for women	<i>Ch. Yugandhar</i> 16/6/16
3	Mr. V. Selva Kumar	Lecturer in Statistics, BVC	<i>V. Selva Kumar</i> 16/6/16
4	Mrs. P. Rajini	Lecturer in Statistics, BVC	<i>P. Rajini</i> 16/06/16
5	Mr. N. Chandan Babu	Lecturer in Statistics, BVC	<i>N. Chandan Babu</i>

**Chair-Person**  
O.S. in Statist  
U.C.S.  
Osmania Universi-  
HYDERABAD-7.



Chairman expressed gratitude to all the members of board for their valuable suggestions and cooperation. The meeting concluded with the vote of thanks by Dr.K.Vasudeva Rao, BOS, and BVC.

  
Prof V. Haragopal 16/06/2016  
Chairman, BOS  
Department of Statistics, OU  
Chair-Person  
E.O.S. in Statistics  
U.C.S.  
Osmania University,  
HYDERABAD-7.

  
Dr. K. Vasudeva Rao  
Head of the Department, BVC

Prof. Y. Ashok  
Principal

**BHAVAN'S VIVEKANANDA COLLEGE**  
**STATISTICS SYLLABUS**

**Proposed scheme for B.Sc Programme under Choice Based Credit System**

w.e.f 2016-17

SEMESTER-I				
Code	Course Title	Course Type	HPW	Credits
ST122	Discriptive Statistics and Probability	DSC	4T+2P=6	4+1=5
<b>SEMESTER-II</b>				
ST222	Probability Distributions	DSC	4T+2P=6	4+1=5
<b>SEMESTER-III</b>				
SE322	Data Analysis using Ms-Excel	SEC-I	2	2
ST322	Statistical Methods and Inference I	DSC	4T+2P=6	4+1=5
<b>SEMESTER-IV</b>				
SE422	Data Analysis using SPSS	SEC-2	2	2
ST422	Statistical Inference II	DSC	4T+2P=6	4+1=5
<b>SEMESTER-V</b>				
SE522	Data Analysis using R-I	SEC-3	2	2
ST522	Applied Statistics I	DSC	3T+2P=5	3+1=4
ST522 A	Statistical Quality Control and Reliability	DSE	3T+2P=5	3+1=4
GE522	Basic Statistics	GE-1	2	2
<b>SEMESTER-VI</b>				
SE622	Data Analysis Using R-II	SEC-4	2	2
ST622	Applied Statistics II	DSC	3T+2P=5	3+1=4
ST622A	Operation Research	DSE	3T+2P=5	3+1=4
GE622	Data Analysis	GE-2	2	2



Bharatiya Vidya  
**Bhavan**

**BHAVAN'S VIVEKANANDA COLLEGE  
OF SCIENCE, HUMANITIES AND COMMERCE  
(Accredited with A grade by NAAC)  
Autonomous College  
Affiliated to Osmania University**

**DEPARTMENT OF MATHEMATICS AND STATISTICS**

**STATISTICS SYLLABUS**

**2015-2016**

*V. V. Har-Singh*

**Chairperson**

**Board of Studies in Statistics**

**Osmania University**

16/06/2015  
**CHAIRMAN,  
Board of Studies  
in Statistics O.U.**

*[Signature]*

**Chairman**

**Board of Studies in Statistics, BVC**

**Principal**



**BHAVAN'S VIVEKANANDA COLLEGE**  
**OF SCIENCE, HUMANITIES AND COMMERCE**  
 (Accredited with A grade by NAAC)  
 Autonomous College  
 Affiliated to Osmania University

**BOARD OF STUDIES IN STATISTICS (UG), BVC**

Minutes of the meeting of the Board of Studies in Statistics held on **16-6-15 at 11.15 a.m.** in the Seminar Hall, Bio Chemistry Block, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri.

**Members Present:**

**Chairman:**

Dr.K.Vasudeva Rao, Chairman, BoS in Statistics, BVC

**Members:**

S.No	Name	Designation	Signature
1	Prof V. Haragopal	Chairman, BOS, Professor, Department of Statistics, Osmania University	<i>V.V. Haragopal</i> 16/06/2015
2	Dr. Ch. Yugandhar	Subject Expert, HOD, Department of Statistics St. Francis Degree College for Women	<i>Ch. Yugandhar</i>
3	Mr. Raghavendra Kulkarni	Subject Expert, Principal Nrupathunga Degree college	
4	Dr Sudheer Reddy	Industry Expert, ADRIN, Sikh village	<i>Dr Sudheer Reddy</i> 29/7/2015
5	Mr. K. Srikanth	Alumni member, Data Analyst - IBM	
6	Mr. V Selva Kumar	Lecturer in Statistics, BVC	<i>V. Selva Kumar</i>
7	Ms. P Rajini	Lecturer in Statistics, BVC	<i>P. Rajini</i>
8	Mr. N. Chandan Babu	Lecturer in Statistics, BVC	<i>N. Chandan Babu</i>

**1. First BoS Meeting in Statistics for approval of U.G syllabus:**

College had obtained Autonomous status and the first BOS meeting was called to discuss and approve Statistics syllabus for U.G course for the academic year 2015-2016.

**2. Scheme of examination for Theory and Practical:**

- College had decided to follow 70 marks for theory paper and 30 marks for Internals. The question paper pattern was discussed. Under section A short note type Total 8 questions would be given and the student could attempt any 6 out of 8. In section B i.e Essay type questions total 8 questions that is two essay questions from each unit would be given and the students should write 4 essay answers.
- Practical paper is for total 50 marks out of which, 35 marks for practical semester end exam and 15 marks exam based on MS Excel.
- Internal paper would be for total 30 marks. Two tests would be conducted for 25 marks each and average marks of the two tests should be taken. 5 marks for Assignment / Seminar.

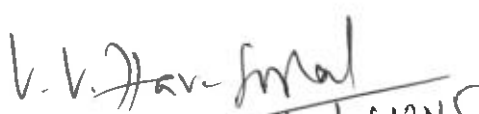
**3. Syllabus Review:**

- In Semester I, Cluster Bar diagram, Steam Leaf diagram and Box plot diagram to be included in the Theory and Practicals. In Semester II, Weibull distribution and its computation of Mean & Variance to be included.
- Multiple Regressions for 3 variables and Coefficient of determination ( $R^2$ ) should be included in Semester III – Theory and Practicals.
- Comparison of  $3\sigma$  and  $6\sigma$  to be included in Semester V. In Semester VI Practicals,  $n$  jobs to 2 machines,  $n$  jobs to 3 machines and  $n$  jobs to  $m$  machines problems should be included.

**4. List of examiners:**

List of examiners were finalized for evaluation for all semesters.

Chairman expressed gratitude to all members of the board for their valuable suggestions and Cooperation. The Meeting concluded with vote of thanks by Dr.K.Vasudeva Rao, Chairman, BoS, BVC.

  
16/06/2015  
CHAIRMAN,  
Board of Studies  
in Statistics O.U.  
Prof V. Haragopal  
Chairman, BOS  
Department of Statistics, OU

  
Dr.K.Vasudeva Rao  
Head of the Department, BVC

Prof.Y .Ashok  
Principal



**BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES AND COMMERCE**  
(Accredited with 'A' Grade by NAAC)

**Autonomous College & Affiliated to Osmania University**

*Department of Mathematics and Statistics*

*B.Sc Statistics Syllabus and Scheme of Examination*

YEAR	SEM	PAPER	CODE	TITLE OF THE PAPER	HRS / WEEK	Duration of Semester Exam	Assessment Exam			Credits
							Internal Marks	External Marks	Total Marks	
I	I	I Theory	ST122	Descriptive Statistics and Probability	4	3	30	70	100	4
		I Practical	ST122P	Descriptive Statistics and Probability Practical	2	3	15	35	50	1
	II	II Theory	ST222	Probability Distributions	4	3	30	70	100	4
		II Practical	ST222P	Probability Distributions Practical	2	3	15	35	50	1
II	III	III Theory	ST322	Statistical Methods and Inferene I	4	3	30	70	100	4
		III Practical	ST322P	Statistical Methods and Inferene I Practical	2	3	15	35	50	1
	IV	IV Theory	ST422	Statistical Inferene II	4	3	30	70	100	4
		IV Practical	ST422P	Statistical Inferene II Practical	2	3	15	35	50	1
III	V	V Theory	ST522	Applied Statistics I	3	3	30	70	100	3
		VA Theory	ST522A	Statistical Quality Control and Reliability	3	3	30	70	100	3
		V Practical	ST522P	Applied Statistics I Practical	2	3	15	35	50	1
		VA Practical	ST522AP	Statistical Quality Control and Reliability Practical	2	3	15	35	50	1
	VI	VI Theory	ST622	Applied Statistics II	3	3	30	70	100	3
		VIA Theory	ST622A	Operation Research	3	3	30	70	100	3
		VI Practical	ST622P	Applied Statistics II Practical	2	3	15	35	50	1
		VIA Practical	ST622AP	Operation Research Practical	2	3	15	35	50	1
Total					44	48	360	840	1200	36

*V. K. Hareendran*  
CHAIRMAN,  
Board of Studies  
in Statistics O.U. 16/06/2015