



**Sri Dharmasthala Manjunatheshwara College**  
**(Autonomous), Ujire-574 240, Dakshina Kannada, Karnataka State**

*(Re-accredited by NAAC at 'A' grade with CGPA 3.61 out of 4)*

# **PG Studies in Statistics Meeting Minutes 2020-21**



# Sri Dharmasthala Manjunatheshwara College

(Autonomous), Ujire-574 240, Dakshina Kannada, Karnataka State

(Re-accredited by NAAC at "A" grade with CGPA 3.61 out of 4)

**DEPARTMENT OF P.G. STUDIES IN STATISTICS**  
**Proceedings of BOS meeting**

Date: 17-08-2020

Time: 10:30 a.m.

Venue: Department of PG Studies in Statistics (Mode: Online - Google Meet platform)

AGENDA NO.	AGENDA
Agenda 1 SDMCU/PG STAT-BOS/2020-21/01/01	Reading the minutes of the previous BOS meeting and action taken report.
Agenda 2 SDMCU/PG STAT-BOS/2020-21/01/02	Revision and approval of the syllabus: a) Highlighting the issues of gender equity, human values, environment, and professional ethics. b) Highlighting the local, national and global issues in the courses. c) Incorporating skill components.
Agenda 3 SDMCU/PG STAT-BOS/2020-21/01/03	Approval for the additional elective papers.
Agenda 4 SDMCU/PG STAT-BOS/2020-21/01/04	Approval for the value added courses (Certificate courses).
Agenda 5 SDMCU/PG STAT-BOS/2020-21/01/05	Finalizing the list of examiners.
Agenda 6 SDMCU/PG STAT-BOS/2020-21/01/06	Any other matter.

**Members Present:**

Sl. No.	Name and Address	Designation
I.	Dr. Savitha Rao Assistant Professor, Department of Statistics.	Chairperson



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	SDM College (Autonomous), Ujire.	
2.	Dr. P. V. Pandit Chairman, Department of Statistics, Bangalore University, Bangalore.	Subject Expert
3.	Dr. Sujatha Ingin Shetty Associate Professor, Department of Statistics, Gulbarga University, Gulbarga.	Subject Expert
4.	Mr. Dileep Shetty Assistant Professor, St. Joseph's College of Commerce, Bangalore.	University Nominee
5.	Mr. Shravan Analyst, Assessments, Sattva Media and Consulting Pvt. Ltd., Bangalore.	Industrial Representative
6.	Mr. Mahammad Irshad Junior Data Analyst, HealthMinds Consulting Pvt. Ltd., Bangalore.	Meritorious Alumni
7.	Mr. Shanthiprakash Associate Professor and Coordinator, HOD of Statistics, SDM College (Autonomous), Ujire.	Member
8.	Dr. Shambhu Sharma Professor, Department of PG Studies in Statistics, SDM College (Autonomous), Ujire.	Member
9.	Mr. Pradeep K.	Member





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	Assistant Professor, Department of PG Studies in Statistics, SDM College (Autonomous), Ujire.	
10.	Ms. Ankitha M. K. Assistant Professor, Department of Statistics, SDM College, Ujire.	Member
11.	Ms. Supriya S. P. Assistant Professor, Department of PG Studies in Statistics, SDM College (Autonomous), Ujire.	Member

**Members not present:**Nil.

The Chairperson welcomed the members and presented the agenda in the meeting.

**Agenda 1**

**Reading the minutes of the previous BOS meeting held on 05-09-2019 and action taken report**

The Chairperson read out the minutes of the previous meeting and action taken report.

The following actions were taken on the basis of the suggestions given by the members.

**Suggestion 1:**

Inclusion of singular value decomposition in unit – 3 of ‘Linear Algebra’ for knowledge enhancement.

**Action taken:**

This topic is added in unit - 3.

**Suggestion 2:**

Inclusion of distribution function of random variables in unit – 3 of ‘Probability and Distributions - I’ for knowledge enhancement.

**Action taken:**

This topic is added in unit - 3.

**Suggestion 3:**



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Shift of sampling distributions, chi-square, t, F, and non-central chi-square, mgf of non-central  $x^2$  distribution, reproductive property, non-central t & non-central F from unit – 3 of ‘Probability and Distributions – I’ to the unit – 4 of ‘Probability and Distributions – II’ in order to justify the paper title.

**Action taken:**

These changes are incorporated.

**Suggestion 4:**

Inclusion of non-random sampling in unit – 1 of ‘Theory of Sampling’ for knowledge enhancement.

**Action taken:**

This topic is added in unit - 1.

**Suggestion 5:**

Inclusion of practical paper based on ‘Programming in Python’ to give an exposure towards Data Science.

**Action taken:**

This paper is added.

**Suggestion 6:**

Exclusion of outliers and robust procedures in unit - 1, and use of software for computation in all three units of ‘Introductory Statistics and Data Analysis (Open Elective)’, as these topics are too advanced for the students.

**Action taken:**

These topics are excluded.

**Suggestion 7:**

Inclusion of first two units of ‘Linear Models and Regression Analysis’ as unit – 1, clear specification of BIBD in unit – 3, and rearrangement of concepts in unit – 4 of ‘Design and Analysis of Experiments’ for knowledge enhancement.

**Action taken:**

These changes are incorporated.

**Suggestion 8:**

Inclusion of theory paper titled ‘Data Management and Statistical computing with Python’ to give an exposure towards Data Science.

**Action taken:**







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This paper is added.

## **Suggestion 9:**

Inclusion of theory paper titled 'Artificial Intelligence' to give an exposure towards Data Science.

## **Action taken:**

This paper is added.

## **Suggestion 10:**

Inclusion of practical paper using R based on 'Design and Analysis of Experiments' and 'Theory of Estimation' to give an exposure towards applications of theoretical papers.

## **Action taken:**

This paper is added.

## **Suggestion 11:**

Inclusion of practical paper based on 'Data Management and Statistical computing with Python' to give an exposure towards applications of theoretical papers.

## **Action taken:**

This paper is added.

## **Suggestion 12:**

Exclusion of two-way analysis of variance in unit – 2, mean squared error, their use in judging goodness of fit of the estimated model, its utility in prediction example using statistical software and interpretation of output in unit – 3, and use of software for computation in all three units of 'Introductory Statistics and Data Analysis (Open Elective)', as these topics are difficult for understanding.

## **Action taken:**

These topics are excluded.

## **Suggestion 13:**

Inclusion of theory paper titled 'Regression Analysis' for knowledge enhancement.

## **Action taken:**

This paper is added.

## **Suggestion 14:**



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Exclusion of canonical correlation analysis and factor analysis in unit – 3 of ‘Multivariate Analysis’, in order to reduce the teaching hours and make this paper as softcore.

**Action taken:**

These topics are excluded.

**Suggestion 15:**

Inclusion of practical paper using R based on ‘Theory of Testing of Hypothesis’ and ‘Regression Analysis’ to give an exposure towards applications of theoretical papers.

**Action taken:**

This paper is added.

**Suggestion 16:**

Inclusion of practical paper based on ‘Machine Learning with Python’ and ‘Multivariate Analysis’ to give an exposure towards applications of theoretical paper and Data Science.

**Action taken:**

This paper is added.

**Suggestion 17:**

Inclusion of theory paper titled ‘Big Data Analytics’ to give an exposure towards Data Science.

**Action taken:**

This paper is added.

**Suggestion 18:**

Inclusion of practical paper using R based on ‘Time Series Analysis’, ‘Reliability and Survival Analysis’ and ‘Statistical Modelling’ to give an exposure towards applications of theoretical papers.

**Action taken:**

This paper is added.

**Suggestion 19:**

The board members suggested that the ‘Project work’ internal assessment component for 30 marks be divided as 20 + 10, where 20 marks will be given for internal assessment and 10 marks will be given for skill component. Skill component will be





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evaluated based on implementation of new (advanced) techniques in the research project, which will help in enhancing the analytical skill of the students.

**Action taken:**

This suggestion is incorporated.

The agenda was approved.

**Agenda 2**

**Revision and approval of the syllabus**

- In the III semester, the hardcore paper STH 534 – Stochastic Processes was made as softcore STS 535, in which each unit will be of 10 hours duration, thus making up a total of 40 hours duration.
- Similarly, in the III semester, the softcore paper STS 535 – Multivariate Analysis was made as hardcore STH 534, in which each unit will be of 13 hours duration, thus making up a total of 52 hours duration. Concepts added were as follows:  
Canonical correlation analysis – canonical variates and canonical correlations, sample canonical variates, sample canonical correlations, inference problems. Factor analysis – orthogonal factor model, factor loadings, estimation of factor loadings, factor scores were added to Unit-3. Cluster analysis – distances and similarity measures, hierarchical clustering methods, k-means method were removed from Unit-3 and were added at the end of Unit-4. 15% changes were incorporated.

(Annexure 1)

In all the theoretical papers (hardcore and softcore) of I, II, III and IV semesters, the local, national and global issues, and the skill components were highlighted as follows:

**The local, national and global issues incorporated in the courses:**

Components	Paper and Unit	Topic/Remarks
Local, National and Global Issues	STH 414, Unit-1, Unit-3 & Unit-4	Sampling Techniques and Official Statistics for National Development.
	STH 423, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts and Techniques of Design and Analysis of Experiments.
	STH 424, Unit-1, Unit-2, Unit-3 & Unit-4	Estimation Techniques.







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	STH 533, Unit-1, Unit-2, Unit-3, Unit-4 & Unit-5	Concepts and Techniques of Regression Analysis.
	STH 541, Unit-2	Concepts and Techniques of Time Series Analysis.
	STH 542, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts and Techniques of Reliability and Survival Analysis.
	STS 543, Unit-1, Unit-2 & Unit-3	Concepts and Techniques of Statistical Modelling.

Skill components incorporated:

Components	Paper and Unit	Topic/Remarks
Knowledge Component (Conceptual understanding)	STH 411, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts of Real Analysis.
	STS 412, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts of Linear Algebra.
	STH 422, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts of Probability and Distributions.
	STH 424, Unit-1, Unit-2, Unit-3 & Unit-4	Estimation Techniques.
	STS 425, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts and Techniques of Artificial Intelligence.
	STE 531, Unit-1, Unit-2 & Unit-3	Concepts and Techniques of Inferential Statistics.
	STH 532, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts and Techniques of Hypothesis Testing.
	STH 534, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts and Techniques of Multivariate Analysis.





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	STS 535, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts of Stochastic Processes.
	STH 541, Unit-1	Concepts and Techniques of Time Series Analysis.
Problem-solving Skill	STH 413, Unit-3	Probability Distributions and Transformation Techniques.
	STH 423, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts and Techniques of Design and Analysis of Experiments.
Decision-making Skill	STH 423, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts and Techniques of Design and Analysis of Experiments.
	STH 532, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts and Techniques of Hypothesis Testing.
Conceptual and Basic Computing Skill	STE 421, Unit-1 & Unit-3	Descriptive Statistics and Sampling Techniques.
	STE 531, Unit-1, Unit-2 & Unit-3	Concepts and Techniques of Inferential Statistics.
Analytical Skill	STH 534, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts and Techniques of Multivariate Analysis.
Employability	STS 425, Unit-1, Unit-2 & Unit-3	Python Programming Paradigms for Data Management and Statistical Computing.
	STH 533, Unit-1, Unit-2, Unit-3, Unit-4 & Unit-5	Concepts and Techniques of Regression Analysis.
	STH 534, Unit-3 & Unit-4	Concepts and Techniques of Multivariate Analysis.
	STH 541, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts and Techniques of Time Series Analysis.
	STH 542, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts and Techniques of Reliability and Survival Analysis.





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	STS 543, Unit-1, Unit-2 & Unit-3	Concepts and Techniques of Statistical Modelling.
	STS 544, Unit-1, Unit-2, Unit-3 & Unit-4	Concepts and Techniques of Big Data Analytics

The agenda was approved.

### Agenda 3

#### Approval for the additional elective papers

As per the CBCS structure, the institutions are expected to broaden the elective option to the students. The autonomous status of the institution has provided ample opportunities to design the syllabus and offer many elective courses. In this regard, along with two existing open electives, the department has proposed four new open elective courses to enable expanded scope, to enable to new discipline, to provide the support to the discipline of study and to nurture learners' proficiency and skill. The drafted syllabus of the open elective courses was presented for approval.

List of new open elective courses are as follows:

#### II Semester Open Elective

- **Questionnaire Design and Sample Selection:** This course will enable the students understand regarding how to design questionnaires and ask specific questions in a way that will encourage responses and will also help in choosing the best method of distributing survey and get the right people to answer it.
- **Data Visualization:** This course will enable the students understand regarding the characteristics and purpose of visualizing data, develop simple summaries and exploratory graphs, and employ best practices to develop charts, maps, tables, and other visual representations of data.

#### III Semester Open Elective

- **Categorical Data Analysis:** This course will enable the students identify designs of contingency tables and recommend appropriate measures of association and statistical tests, and develop models for binary, polytomous and multivariate categorical responses, interpret results and diagnose model fits.







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- **Demographic Methods and Analysis:** This course will enable the students understand the key measures and techniques used in studying population behaviour and change, explore different sources of demographic data, and study the basic demographic indicators and their applications.

The agenda was approved.

#### Agenda 4

##### Approval for the value added courses (Certificate courses)

The institution has taken the initiative to introduce value added courses from the academic year 2020-21. In this regard, the department has proposed three value added courses (20 hours in each semester) in view of additional skills and knowledge in areas of interest of the learners, namely,

1. Microsoft Excel (Basic to Advanced)
2. R for Data Science
3. R for Advanced Statistical Methods and Machine Learning

The chairperson presented the drafted syllabus and the following suggestions were made by the board members:

- In the certificate course on 'Microsoft Excel (Basic to Advanced)', the members suggested to include the concepts of Visual Basic and Macros.
- In the certificate course on 'R for Data Science', no changes were suggested.
- In the certificate course on 'R for Advanced Statistical Methods and Machine Learning', the members suggested to include the concepts of Longitudinal Data Analysis.
- The members also suggested to introduce the concepts of Visualization Softwares such as Tableau and Power BI in the proposed certificate course.

The agenda was approved.

#### Agenda 5

##### Finalizing the list of examiners

The drafted list of examiners was presented for approval. The list is updated based on the following suggestions made by the members:



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Names of external examiners such as Dr. P. Rajalakshmi, Dr. J. V. Janhavi and Dr. G. Nanjundan were removed. The following external examiners were added:

1. Dr. Ashwini Kumari, Assistant Professor, Department of Statistics, Alva's College, Moodbidri.
2. Dr. Harsha, Department of Statistics, Mangalore University, Mangalore.

The address of the following external examiner was modified:

Dr. R. Suresh, Assistant Professor, Department of Statistics, Bangalore University, Bangalore.

The agenda was approved.

## Agenda 6

### Any other matter

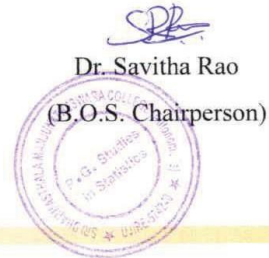
Under any other matter, the following discussions were held:

- The members suggested that as extension activities, statistics fest, exhibition, training programmes/ coaching on competitive examinations such as KSET, NET, ISS, etc. can be conducted.
- They also suggested that under community-oriented programmes, students can be made to undertake research projects to study and evaluate the effectiveness of Government sponsored schemes coming under the departments of human development, women and child welfare, women empowerment, nutrition, etc.
- To make the students more active and engaged towards the subject, the members suggested the following:
  - o Make the students present their mini research projects in front of faculties from non-statistics discipline.
  - o Ask the students to organize statistical events.
  - o Organize intra-departmental statistics fest for the students.
  - o Encourage the students to undertake online courses.

The meeting was adjourned with vote of thanks.



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# **PG Studies in Statistics Meeting Minutes 2020-21**



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## DEPARTMENT OF P.G. STUDIES IN STATISTICS

### Proceedings of BOS meeting

Date: 30-06-2021

Time: 10.30 A.M.

Venue: Department of PG Studies in Statistics (Mode: Online - Google Meet platform)

AGENDA NO.	AGENDA
Agenda I SDMCU/PG STAT-BOS/2020-21/02/01	Reading the minutes of the previous BOS meeting and action taken report.
Agenda 2 SDMCU/PG STAT-BOS/2020-21/02/02	Review of results and brief report of the department activities.
Agenda 3 SDMCU/PG STAT-BOS/2020-21/02/03	Revision/ modification of syllabus/ Question paper pattern.
Agenda 4 SDMCU/PG STAT-BOS/2020-21 /02/04	Introduction of MOOC's related to the emerging areas in Elective/ Value added courses.
Agenda 5 SDMCU/PG STAT-BOS/2020-21/02/05	SWAYAM integrated chapters/ units.
Agenda 6 SDMCU/PG STAT-BOS/2020-21/02/06	Finalizing the list of examiners.
Agenda 7 SDMCU/PG STAT-BOS/2020-21/02/07	Any other matter.

#### Members Present:

Sl. No.	Name and Address	Designation
I.	Dr. Savitha Rao Assistant Professor.	Chairperson



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	Department of Statistics, SDM College (Autonomous), Ujire.	
2.	Dr. P. V. Pandit Chairman, Department of Statistics, Bangalore University, Bangalore.	Subject Expert
3.	Dr. Sujatha Ingin Shetty Associate Professor, Department of Statistics, Gulbarga University, Gulbarga.	Subject Expert
4.	Mr. Dileep Shetty Assistant Professor, St. Joseph's College of Commerce, Bangalore.	University Nominee
5.	Mr. Shravan Analyst, Assessments, Sattva Media and Consulting Pvt. Ltd., Bangalore.	Industrial Representative
6.	Mr. Mahammad Irshad Junior Data Analyst, HealthMinds Consulting Pvt. Ltd., Bangalore.	Meritorious Alumni
7.	Mr. Shanthiprakash Associate Professor and Coordinator, HOD of Statistics, SDM College (Autonomous), Ujire.	Member
8.	Dr. Shambhu Sharma Professor, Department of PG Studies in Statistics,	Member



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	SDM College (Autonomous), Ujire.	
9.	Mr. Pradeep K. Assistant Professor, Department of PG Studies in Statistics, SDM College (Autonomous), Ujire.	Member
10.	Ms. Supriya S. P. Assistant Professor, Department of PG Studies in Statistics, SDM College (Autonomous), Ujire.	Member

**Members not present:**

Sl. No.	Name and Address	Designation
1.	Ms. Ankitha M. K. Assistant Professor, Department of Statistics, SDM College, Ujire.	Member

The Chairperson welcomed the members and presented the agenda in the meeting.

**Agenda 1**

**Reading the minutes of the previous BOS meeting held on 17-08-2020 and action taken report**

The Chairperson read out the minutes of the previous meeting and action taken report.

The following actions were taken on the basis of the suggestions given by the members.

**Suggestion 1:**

Shift of the theory paper 'Stochastic Processes' from hardcore to softcore, in which each unit will be of 10 hours duration, making up a total of 40 hours duration, since the syllabus content was comparatively less.

**Action taken:**

These changes are incorporated.



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**Suggestion 2:**

Shift of the theory paper ‘Multivariate Analysis’ from softcore to hardcore, in which each unit will be of 13 hours duration, making up a total of 52 hours duration, by adding Canonical correlation analysis – canonical variates and canonical correlations, sample canonical variates, sample canonical correlations, inference problems. Factor analysis – orthogonal factor model, factor loadings, estimation of factor loadings, factor scores to Unit-3, and Cluster analysis – distances and similarity measures, hierarchical clustering methods, k-means method to Unit-4, for knowledge enhancement.

**Action taken:**

These changes are incorporated.

**Suggestion 3:**

Highlighting of local, national and global issues, and skill components such as knowledge component, problem-solving skill, decision-making skill, conceptual and basic computing skill, analytical skill and employability in all the theoretical papers (hardcore and softcore) of I, II, III and IV semesters, in order to reflect on the relevance and scope of the syllabus.

**Action taken:**

These highlights are incorporated.

**Suggestion 4:**

Inclusion of open elective paper titled ‘Questionnaire Design and Sample Selection’ in the II semester to give an exposure and also to broaden the elective option to the students of non-statistics discipline.

**Action taken:**

This paper is added.

**Suggestion 5:**

Inclusion of open elective paper titled ‘Data Visualization’ in the II semester to give an exposure and also to broaden the elective option to the students of non-statistics discipline.

**Action taken:**





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This paper is added.

### **Suggestion 6:**

Inclusion of open elective paper titled 'Categorical Data Analysis' in the III semester to give an exposure and also to broaden the elective option to the students of non-statistics discipline.

### **Action taken:**

This paper is added.

### **Suggestion 7:**

Inclusion of open elective paper titled 'Demographic Methods and Analysis' in the III semester to give an exposure and also to broaden the elective option to the students of non-statistics discipline.

### **Action taken:**

This paper is added.

### **Suggestion 8:**

Inclusion of value added course (certificate course) titled 'Microsoft Excel (Basic to Advanced)' for skill enhancement.

### **Action taken:**

This course is added.

### **Suggestion 9:**

Inclusion of value added course (certificate course) titled 'R for Data Science' for skill enhancement.

### **Action taken:**

This course is added.

### **Suggestion 10:**

Inclusion of value added course (certificate course) titled 'R for Advanced Statistical Methods and Machine Learning' for skill enhancement.

### **Action taken:**

This course is added.

The agenda was approved.



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### Agenda 2

#### Review of results and brief report of the department activities

The Chairperson presented the activities conducted by the department and brought into notice the following considerations:

- The results of I & III semester 2020-21 could not be reviewed since the results were delayed due to the pandemic situation and are yet to be announced.
- A State level Webinar on “Quantitative Analysis of Qualitative Variables and Measurement Scales” was conducted. Due to the pandemic situation, more number of activities could not be organized.

The agenda was noted.

### Agenda 3

#### Revision/ modification of syllabus/ Question paper pattern

The Chairperson presented the drafted syllabus before the board members and the modifications made were as follows:

- In Unit-2 of STH 423 – Design and Analysis of Experiments (II semester), General block design – Complete block design and incomplete block design were specified to avoid ambiguity.
- In Unit-1 of STE 421 – Questionnaire Design and Sample Selection (II semester), checking the validity and reliability of questionnaire were added. 5% changes were incorporated.

(Annexure 1)

#### Incorporation of Skill component and Employability in the curriculum

- Under I semester, skill components were highlighted in 3 theory papers, and employability components were highlighted in 1 theory paper.
- Under II semester, skill components were highlighted in 4 theory papers, and employability components were highlighted in 5 theory papers.



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- Under III semester, skill components were highlighted in 4 theory papers, and employability components were highlighted in 6 theory papers.
- Under IV semester, skill components were highlighted in 1 theory paper, and employability components were highlighted in 4 theory papers.

The agenda was approved.

### Agenda 4

#### Introduction of MOOC's related to the emerging areas in Elective/ Value added courses

As an institution policy, it was decided to offer courses on MOOC's related to the emerging areas in elective/value added courses to students. The Chairperson presented the list of MOOC courses available in Coursera, Udemy and edX websites, relevant for the theoretical papers in the syllabus, for approval. The following suggestions were made by the board members:

- The members suggested mentioning the websites offering MOOC courses relevant to the syllabus rather than mentioning the title of MOOC courses, since the courses keep on changing.
- They also suggested giving preference for online courses available whose duration is in and around 25 hours, so that the students can complete the course within a semester.
- It was decided that for some of the theoretical papers, study materials can be accessed from online courses rather than completing the entire course.

The agenda was approved.

### Agenda 5

#### SWAYAM integrated chapters/ units

As an institution policy, it was decided to offer MOOC courses available in SWAYAM related to the emerging areas in elective/value added courses to students. The Chairperson presented the following list of online courses available in SWAYAM website, relevant for the theoretical papers in the syllabus, for approval.



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(Autonomous), Ujire-574 240, Dakshina Kannada, Karnataka State

(Re-accredited by NAAC at "A" grade with CGPA 3.61 out of 4)

Sl. No.	Title of the online course	Corresponding theory course
1.	Introduction to Abstract and Linear Algebra	Linear Algebra
2.	Regression Analysis	Regression Analysis
3.	Predictive Analytics	
4.	Non-parametric Statistical Inference	Theory of Testing of Hypothesis
5.	Introduction to Probability Theory and Stochastic Processes	Stochastic Processes
6.	Predictive Analytics	Time Series Analysis

The suggestions made by the board members are same as mentioned in the above agenda.  
The agenda was approved.

**Agenda 6**

**Finalizing the list of examiners**

The Chairperson presented the drafted list of examiners for approval. The list is updated based on the following suggestions made by the members:

The following modifications were made in the internal examiners list:

1. Mr. Pradeep K., Assistant Professor, Department of PG Studies in Statistics, SDM College, Ujire, was added.
2. Dr. R. N. Rattihalli, Professor (Rtd.), Department of PG Studies in Statistics, SDM College, Ujire, was deleted, since he left the department and moved to some other place.
3. Dr. Shambhu Sharma, Professor (Rtd.), Department of PG Studies in Statistics, SDM College, Ujire, was shifted to external examiners list.
4. Dr. Babitha, Assistant Professor, Department of PG Studies in Statistics, SDM College, Ujire, was shifted to external examiners list with the following address:  
Dr. Babitha, Assistant Professor, Department of Statistics, GITAM (Deemed to be University), Bengaluru.





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The following modifications were made in the external examiners list:

1. Dr. S. V. Bhat, Professor, Department of Statistics, Karnatak University, Dharwad – 580003. (Designation changed)
2. Dr. S. B. Munoli, Professor, Department of Statistics, Karnatak University, Dharwad – 580003. (Designation changed)
3. Dr. A. S. Talawar, Professor, Department of Statistics, Karnatak University, Dharwad – 580003. (Designation changed)
4. Dr. Sujatha S. Ingishetty, Professor, Department of Statistics, Gulbarga University, Gulbarga, Karnataka – 585106. (Designation changed)
5. Dr. H. V. Kulkarni, Professor, Department of Statistics, Shivaji University, Kolhapur – 416004. (Designation changed)
6. Dr. D. N. Kashid, Professor, Department of Statistics, Shivaji University, Kolhapur – 416004, was deleted, since he got retired.
7. Dr. D. M. Sakate, Associate Professor, Department of Statistics, Central University of Tamil Nadu, Neelakudi, Thiruvavur – 610005. (Address changed)
8. Dr. S. B. Mahadik, Professor, Department of Statistics, Shivaji University, Kolhapur – 416004. (Designation changed)
9. Dr. Jayakumar, Professor, Department of Statistics, Calicut University, Malappuram (Dist.), Kerala – 673635. (Designation changed)
10. Dr. Asha Gopalakrishna, Professor, Department of Statistics, Cochin University of Science and Technology, Cochin – 682022. (Designation added)
11. Dr. Mallappa, Assistant Professor, Department of Statistics, Bangalore University, Bangalore, was added.

The agenda was approved.

## Agenda 7

### Any other matter

Under any other matter, the following discussions were held:







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- The members suggested that under extension activities, students can be made to undertake research projects to study and evaluate the effectiveness of Government sponsored schemes/programmes coming under the departments of human development, women and child welfare, women empowerment, nutrition, etc.
- They also suggested making the students enrol in 'Internshala', an internship and online training platform, for internship opportunities.

The meeting was adjourned with vote of thanks.



  
Dr. Savitha Rao  
(B.O.S. Chairperson)

