



Anekant Education Society's  
**Tuljaram Chaturchand College  
of Arts, Science, Commerce, Baramati  
(Autonomous)**

**DEPARTMENT OF STATISTICS**

(Faculty of Science and Technology)

**Minutes of Board of Studies Meeting No. 7**

**Date of Meeting: 09/04/2022**

**Venue: Department of Statistics**

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April, 2022

Anekant Education Society's  
Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati  
(Autonomous)

Department of Statistics

NOTICE

Date: 25/03/2022

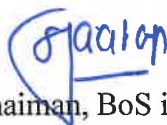
Board of Studies Meeting


All members of the Board of Studies are hereby informed that, our BoS meeting is organised online through Google Meet on 09<sup>th</sup> April, 2022 during 12.00 Noon to 01.30 PM. As esteemed members of the board, your presence and suggestions during the meeting would be greatly appreciated.

**The agenda of the meeting included the following subjects:**

1. To confirm the minutes of the previous meeting held on 08/12/2021.
2. To design and approve course and credit structure for the B.Sc., B.Com, F.Y.B.Sc. (Comp. Sci.) and M. Sc. programme in accordance with 2022 pattern.
3. To prepare and approve curriculum of F.Y.B.Sc., F.Y.B.Com., F.Y.B.Sc. (Comp. Sci.) Semester-I (2022 pattern) to be implemented from the academic year 2022-2023.
4. To prepare and approve curriculum of M.Sc.-I Semester-I (2022 pattern) to be implemented from the academic year 2022-2023.
5. To prepare and approve curriculum of certificate courses for UG and PG programmes as per 2022 pattern.
6. To discuss and incorporate the relevant feedbacks of the stakeholders (students, teachers, parents, alumni and employers) in the curriculum.
7. Any other issue with the permission of the chair.

Therefore, I kindly request you all to attend the aforementioned meeting and invite you to provide your valuable inputs for the designing the curriculum in accordance with 2019 pattern.

  
Chairman, BoS in Statistics

  
Principal

**Anekant Education Society's  
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**Department of Statistics**

**List of Members Presented for the BOS Meeting**

The following internal and external BoS members were attended the Board of Studies (Statistics) meeting held on 09<sup>th</sup> April, 2022.

Sr. No.	Name	Designation
1.	Dr. Avinash S. Jagtap	Chairman
2.	Mr. Vikas C. Kakade	Member
3.	Dr. Neeta K. Dhane	Member
4.	Dr. Vaishali V. Patil	Member
5.	Mr. Chandrashekhar P. Swami	Member
6.	Mrs. Sarita D. Wadkar	Member (Ad hoc)
7.	Ms. Priti M. Mohite	Member (Ad hoc)
8.	Ms. Nilambari A. Jagtap	Member (Ad hoc)
9.	Miss.Kalyani C. Kale	Member (Ad hoc)
10.	Ms.Pooja S. Zanjurne	Member (Ad hoc)
11.	Dr. Akanksha S. Kashikar	Vice-Chancellor Nominee
12.	Dr. Rajendra G. Gurao	Expert from other University
13.	Mr. Rohan Koshti	Expert from other University
14.	Mr. Saurabh Kadam	Representative from Industry
15.	Dr. Jaya L. Limbore	Meritorious Alumni
16.	Dr. Sharad Gore	Invitee Member
17.	Miss. Sejal Nahar	UG Student Invitee Member
18.	Mr. Dhiraj Phalke	UG Student Invitee Member
19.	Miss. Saishri Bhosale	PG Student Invitee Member
20.	Miss. Prajakta Mankar	PG Student Invitee Member

## **MINUTES OF THE MEETING**

The Meeting of Board of Studies in Statistics was held online and offline through Google Meet on 09<sup>th</sup> April 2022 at 02.00 pm in Department of Statistics, T. C. College, Baramati. The Meeting of Board of Studies in Statistics was conducted to design the revise the syllabus of the F.Y.B.Sc., F.Y.B.Com. F. Y. B.Sc.(Comp. Sci.), M.Sc. Part-I Statistics for (SEM-I) courses and academic framework of B.Sc., B.Com., FYBSc (Comp. Sci) and MSc Statistics. In this connection, we have submitting herewith the revise the syllabus of F.Y.B.Sc., F.Y.B.Com. F. Y. B.Sc. (Comp. Sci.), M.Sc. Part-I Statistics for (SEM-I) and Also academic framework of B.Sc., B.Com., FYBSc (Comp. Sci) and MSc Statistics for approving in the Academic Council of our college.

During the meeting, fruitful discussions were held on the items mentioned in the circulated agenda. We are pleased to inform you that the following resolutions were made during the BOS meeting.

**1. To confirm the minutes of the previous meeting held on 08<sup>th</sup> December, 2021.**

Dr. Avinash S. Jagtap read the minutes of the BoS meeting held on 08<sup>th</sup> December, 2021 and put forward to the BoS members for the approval.

**Resolution No. 1:** The minutes of the previous Board of Studies meeting were approved and confirmed.

**2. To design and approve course and credit structure for the B.Sc., B.Com. F.Y.B.Sc. (Comp. Sci.) and M. Sc. programme in accordance with 2022 pattern.**

The Chairman of BoS Dr. Avinash Jagtap has provided an overview of the 2022 pattern and emphasized its significance in curriculum development. The members discussed key features and any potential challenges associated with its implementation. A detailed discussion took place regarding the course and credit structure of the B.Sc., B.Com. F.Y.B.Sc. (Comp. Sci.) and M.Sc. programmes. The following points were considered:

- Core and elective course distribution.
- Credit hours for each course.
- Inclusion of practical components.
- Alignment with industry requirements.
- Opportunities for interdisciplinary studies.

The Chairman presented a proposal for the course and credit structure. The proposal included a breakdown of required courses, elective options, and credit hours for each program.

### Course Structure for B. Sc. STATISTICS

Class	Pattern	Sem	Course Code	Course Title	Course Type	No. of Credits
<b>FYBSc</b>						
FYBSc	2022	I	USST111	Descriptive Statistics- I	Theory	2
FYBSc	2022	I	USST112	Discrete Probability and Probability Distributions - I	Theory	2
FYBSc	2022	I	USST113	Practical Paper- I	Practical	2
FYBSc	2022	II	USST121	Descriptive Statistics- II	Theory	2
FYBSc	2022	II	USST122	Discrete Probability and Probability Distributions - II	Theory	2
FYBSc	2022	II	USST123	Practical Paper- II	Practical	2
FYBSc	2022	II	CC	Certificate Course	CC	2
<b>SYBSc</b>						
SYBSc	2022	III	USST231	Statistical Techniques- I	Theory	3
SYBSc	2022	III	USST 232	Continuous Probability Distribution- I	Theory	3
SYBSc	2022	III	USST233	Practical Paper- III	Practical	2
SYBSc	2022	III	CC	Certificate Course	CC	2
SYBSc	2022	IV	USST241	Statistical Techniques- II	Theory	3
SYBSc	2022	IV	USST242	Continuous Probability Distribution- II	Theory	3
SYBSc	2022	IV	USST243	Practical Paper- IV	Practical	2
SYBSc	2022	IV	CC	Certificate Course	CC	2
<b>TYBSc</b>						
TYBSc	2022	V	USST351	Distribution Theory	Theory	3
TYBSc	2022	V	USST 352	Statistical Inference- I	Theory	3
TYBSc	2022	V	USST353	Sampling Methods	Theory	3
TYBSc	2022	V	USST354	Design of Experiments	Theory	3
TYBSc	2022	V	USST 355	Introduction to Python	Theory	3
TYBSc	2022	V	USST356(A)	Introduction to Stochastic Processes	Elective Theory	3
			USST356(B)	Biostatistics		
TYBSc	2022	V	USST357	Practical Paper- V	Practical	2
TYBSc	2022	V	USST358	Practical Paper- VI	Practical	2
TYBSc	2022	V	USST359	Practical Paper- VII	Practical	2
TYBSc	2022	V	CC	Certificate Course	CC	2
TYBSc	2022	VI	USST361	Introduction to Regression Analysis	Theory	3
TYBSc	2022	VI	USST362	Statistical Inference- II	Theory	3
TYBSc	2022	VI	USST363	Statistical Quality Control and	Theory	3

				Reliability		
TYBSc	2022	VI	USST364	Operations Research	Theory	3
TYBSc	2022	VI	USST365	Statistical Computing Using R-Software	Theory	3
TYBSc	2022	VI	USST366(A)	Official Statistics	Elective Theory	3
			USST366(B)	Actuarial Statistics		
TYBSc	2022	VI	USST367	Practical Paper- VIII	Practical	2
TYBSc	2022	VI	USST368	Practical Paper- IX	Practical	2
TYBSc	2022	VI	USST369	Project	Project	2

### Course Structure for F. Y. B. Sc. (Comp. Sci.) Statistics

Class	Pattern	Sem	Course Code	Course Title	Course Type	No. of Credits
<b>FYBSc (Comp. Sci.)</b>						
FYBSc (CS)	2022	I	UCSST111	Statistical Methods -I	Theory	2
FYBSc (CS)	2022	I	UCSST112	Probability and Some Discrete Probability Distributions	Theory	2
FYBSc (CS)	2022	I	UCSST113	Practical-I	Practical	2
FYBSc (CS)	2022	II	UCSST121	Statistical Methods- II	Theory	2
FYBSc (CS)	2022	II	UCSST122	Continuous Probability Distributions and Testing of Hypothesis	Theory	2
FYBSc (CS)	2022	II	UCSST123	Practical-II	Practical	2

### Course Structure for B.Com. Statistics

Class	Pattern	Sem	Course Code	Course Title	Course Type	No. of Credits
<b>FYBCom</b>						
FYBCom	2022	I	UCBS111(A)	Business Statistics-I	Theory	3
FYBCom	2022	II	UCBS121(A)	Business Statistics-II	Theory	3
<b>SYBCom</b>						
SYBCom	2022	III	UCBS236(D)	Business Statistics-III	Theory	3
SYBCom	2022	IV	UCBS246(D)	Business Statistics-IV	Theory	3
<b>TYBCom</b>						
TYBCom	2022	V	UCBS355(D)	Business Statistics-V	Theory	3
TYBCom	2022	V	UCBS356(D)	Business Statistics-VI	Theory	3
TYBCom	2022	VI	UCBS365(D)	Business Statistics-VII	Theory	3
TYBCom	2022	VI	UCBS366(D)	Business Statistics-VIII	Theory	3

**Course Structure for M.Sc. STATISTICS**

Class	Pattern	Sem	Course Code	Course Title	Course Type	No. of Credits
<b>MSc – I</b>						
MSc – I	2022	I	PSST111	Mathematical Analysis	Theory	4
MSc – I	2022	I	PSST112	Linear Algebra	Theory	4
MSc – I	2022	I	PSST113	Probability Distributions	Theory	4
MSc – I	2022	I	PSST114	Sampling Theory	Theory	4
MSc – I	2022	I	PSST115	Statistics Practical – I	Practical	4
MSc – I	2022	I	PSST116	Statistics Practical – II	Practical	4
MSc – I	2022	II	PSST121	Modern Probability Theory	Theory	4
MSc – I	2022	II	PSST122	Statistical Inference	Theory	4
MSc – I	2022	II	PSST123	Applied Multivariate Analysis	Theory	4
MSc – I	2022	II	PSST124	Regression Models	Theory	4
MSc – I	2022	II	PSST125	Statistics Practical – III	Practical	4
MSc – I	2022	II	PSST126	Statistics Practical – IV	Practical	4
			CC	Certificate Course	--	2
<b>MSc – II</b>						
MSc – II	2022	III	PSST231	Asymptotic Inference	Theory	4
MSc – II	2022	III	PSST232	Design and Analysis of Experiments	Theory	4
MSc – II	2022	III	PSST233	Time Series Analysis	Theory	4
MSc – II	2022	III	PSST234 (A)	Data Mining	Elective Theory	4
			PSST234 (B)	Design and Analysis of Clinical Trials		
			PSST235	Practical Paper -V	Practical	
			PSST-236	Practical Paper -VI	Practical	
MSc – II	2022	III	CC	Certificate Course	--	2
MSc – II	2022	III	SD	Skill Development Course	--	2
MSc – II	2022	III	PSST241	Stochastic Processes	Theory	4
MSc – II	2022	III	PSST242	Statistical Process Control	Theory	4
MSc – II	2022	IV	PSST243	Survival Analysis	Theory	4
MSc – II	2022	IV	PSST244 (A)	Actuarial Statistics	Elective Theory	4
			PSST244 (B)	Optimization Techniques		
MSc – II	2022	IV	PSST245	Practical Paper-VII	Practical	4
MSc – II	2022	IV	PSST246	Project	Project	4
MSc – II	2022	IV	SD	Skill Development Course	--	2

**Resolution No. 2:** The course and credit structure for the B.Sc., B.Com. F.Y.B.Sc. (Comp. Sci.) and M. Sc. programme in accordance with 2022 pattern has been unanimously approved by all members of the BOS.

**3. To prepare and approve curriculum of F.Y.B.Sc., F.Y.B.Sc. (Comp. Sci.), F.Y.B.Com. Semester-I (2022 pattern) to be implemented from the academic year 2022-2023.**

The Board of Studies (BoS) members meticulously designed and crafted the curriculum for Semester I of the F.Y.B.Sc., F.Y.B.Sc. (Comp. Sci.), F.Y.B.Com. program well in advance of the BoS meeting. This preliminary draft was then shared with all BoS members for their input and suggestions to enhance its quality. During the meeting, Dr. Viaks Kakde presented the curriculum of F.Y.B.Sc., F.Y.B.Sc. (Comp. Sci.), F.Y.B.Com. course-by-course basis, and the recommendations and valuable insights provided by the BoS members were thoughtfully incorporated into the curriculum. Dr. Rajendra Gurao and Mr. Saurabh Kadam specifically recommended maintaining consistency in the sub-points of all chapters.

In light of the constructive suggestions offered by the BoS members, the curriculum structure underwent necessary corrections. After thorough deliberation and careful consideration, the curriculum of following courses was presented for approval during the BoS meeting.

Class	Pattern	Sem	Course Code	Course Title	Course Type	No. of Credits
<b>FYBSc</b>						
FYBSc	2022	I	USST111	Descriptive Statistics- I	Theory	2
FYBSc	2022	I	USST112	Discrete Probability and Probability Distributions - I	Theory	2
FYBSc	2022	I	USST113	Practical Paper- I	Practical	2
<b>FYBSc (Comp. Sci.)</b>						
FYBSc (CS)	2022	I	UCSST111	Statistical Methods -I	Theory	2
FYBSc (CS)	2022	I	UCSST112	Probability and Some Discrete Probability Distributions	Theory	2
FYBSc (CS)	2022	I	UCSST113	Practical-I	Practical	2
<b>FYBCom</b>						
FYBCom	2022	I	UCBS111(A)	Business Statistics-I	Theory	3

**Resolution No. 3:** The curriculum for F.Y.B.Sc., F.Y.B.Sc. (Comp. Sci.), F.Y.B.Com. Semester I (2022 pattern) has been unanimously approved by all members of the BoS.

**4. To prepare and approve curriculum of M.Sc.-I Semester-I (2022 pattern) to be implemented from the academic year 2022-2023.**

The Board of Studies (BoS) members meticulously designed and crafted the curriculum for M.Sc.-I Semester – I (2022 pattern) program well in advance of the BoS meeting. This



preliminary draft was then shared with all BoS members for their input and suggestions to enhance its quality. During the meeting, Mr. Chandrashekhar Swami presented the curriculum on a course-by-course basis, and the recommendations and valuable insights provided by the BoS members were thoughtfully incorporated into the curriculum. During the discussion, some minor changes were suggested by the board members. The board thoroughly discussed and finalized the syllabus for the courses of M.Sc. Part-I, Semester-I. In light of the constructive suggestions offered by the BoS members, the curriculum structure underwent necessary revisions. After thorough deliberation and careful consideration, the curriculum of following courses was presented for approval during the BoS meeting.

Class	Pattern	Sem	Course Code	Course Title	Course Type	No. of Credits
<b>MSc – I</b>						
MSc – I	2022	I	PSST111	Mathematical Analysis	Theory	4
MSc – I	2022	I	PSST112	Linear Algebra	Theory	4
MSc – I	2022	I	PSST113	Probability Distributions	Theory	4
MSc – I	2022	I	PSST114	Sampling Theory	Theory	4
MSc – I	2022	I	PSST115	Statistics Practical – I	Practical	4
MSc – I	2022	I	PSST116	Statistics Practical – II	Practical	4

**Resolution No. 4:** The curriculum for M.Sc-I Semester I (2022 pattern) has been unanimously approved by all members of the BoS.

**5. To prepare and approve curriculum of certificate courses for UG and PG programmes as per 2022 pattern.**

The proposed curriculum for certificate courses for UG and PG programmes as per the 2022 pattern was presented by Dr. Neeta Dhane. Members provided feedback on the proposed structure, addressing concerns and suggesting modifications. A collaborative discussion ensued to refine the proposal and ensure alignment with academic standards and institutional goals. After discussions and necessary modifications made and approve the curriculum.

Certificate Course	No. of Credits	Name of the Teacher	UG/PG
Statistics for Management Studies	2	Dr. N. K. Dhane	UG
Quantitative Biology	2	Dr. A. S. Jagtap	UG
Basic Python	2	Mr. C. P. Swami	PG
Basic SPSS	2	Dr. V. V. Patil	PG
Research Methodology	2	Dr. V. C. Kakade	PG

**Resolution No. 5:** The curriculum for of certificate courses for UG and PG programmes as per 2022 pattern has been unanimously approved by all members of the BoS.

**6. To discuss and incorporate the relevant feedbacks of the stakeholders (students, teachers, parents, alumni and employers) in the curriculum.**

The Chairman initiated the discussion by highlighting the importance of incorporating feedback from both Alumni and current students in the syllabus design process. The department created a curriculum feedback form and distributed it to students, teachers, parents, alumni, and employers. Subsequently, the stakeholders filled out the feedback forms. It was noted that their insights and suggestions would greatly contribute to creating a curriculum that aligns with the needs and expectations of the students. Therefore, the BOS members reviewed the feedback and suggestions given by the alumni and students and incorporated the relevant suggestions into the curriculum of F.Y.B.Sc. and M.Sc. Statistics.

**Resolution No. 6:** Considered and Approved

**7. Any other matter with the consent of Chairperson.**

During discussion of the syllabus of above motioned courses, the BoS members Dr. Akanksha S. Kashikar, Dr. Rajendra G. Gurao and Mr. Saurabh Kadam have given suggestions regarding some new techniques to be introduced in the syllabus as per the NET / SET and Competitive Exams in Statistics. In M.Sc.-I syllabi they have suggested to add one extra theory paper (Integral Calculus and Statistical Computing) and to have one practical paper instead of two. Also some reference books are suggested in the UG / PG syllabi. We have made changes to the syllabi accordingly of all the mentioned courses.

**Resolution No. 7:** Considered and Approved

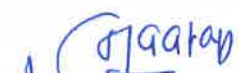
Our BoS members Dr. V. B. Ghute and Mr. Rohan Koshti remained absent for the meeting but they have sent their suggestions regarding UG / PG syllabus through e-mail to BoS Chairman. Dr. Avinash S. Jagtap read those suggestions and accordingly relevant changes were made in the syllabi.

Meeting was ended with the vote of thanks proposed by Dr. V. C. Kakade.

  
Chairman  
Board of Studies



  
IQAC  
Coordinator

  
Principal  
Principal  
Tuljaram Chaturchand College  
Baramati