



M.C.E. Society's
Abeda Inamdar Senior College
of Arts, Science & Commerce, Pune 1. (Autonomous)
 NAAC Reaccredited 'A' Grade
 Faculty of Science

Board of Studies in
Mathematics and Statistics

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Minutes of meeting of Board of Studies in Mathematics and Statistics held on 7th June 2021, 8th June 2021 and 3rd July 2021

The meeting of board of studies in Mathematics and Statistics of Abeda Inamdar Senior College was held on 7th June 2021 from 2:00 p.m. – 5:24 p.m., on 8th June from 2:00p.m-4:47 p.m and on 3rd July 2021 from 2.30p.m– 2.53 p.m. The meeting was conducted online using the Google meet platform.

The meeting was attended by the members of Board of studies in Mathematics and Statistics. The agenda of meeting was to discuss the syllabus of Mathematics and Statistics for F.Y.B.Sc, F.Y.B.Sc. (Computer Science), F.Y.B.Com, F.Y.B.C.A. (Science), F.Y.B.B.A.(C.A), F.Y.B.B.A., F.Y.B.Voc. and M.Sc-I. courses to be implemented under autonomous status during the academic year 2021-2022. Meeting was recorded on both these days and recording link is given below:

Link-

1. <https://drive.google.com/file/d/1t6IHlCaERMYKAPsZkLNLecUwwKYAxys/view?usp=sharing> - 7th June 2021.
2. <https://drive.google.com/file/d/1bbOCN0wkouBuiSMKTEvL4Kxvnfy1E1p/view?usp=sharing> - 8th June 2021
3. https://drive.google.com/file/d/12UrG6_8Ww7DRiKpxe4Qt9KvtBSu5xCoh/view?usp=sharing - 3rd July 2021

A] On 7th June 2021 the following points were discussed:

1. The meeting started with the introduction of members Board of Studies in Mathematics and Statistics by Mrs. H.J.Siamwalla, the Chairman Board of Studies in Mathematics and Statistics.
2. Mrs. H.J. Siamwalla gave a glimpse of the college to the members Board of Studies in Mathematics and Statistics by Power Point Presentation.
3. Six papers were presented of F.Y.B.Sc. (Mathematics) by Ms. Asma Kazi.
4. The changes were implemented as given in the **Annexure I**.
5. Ten papers were presented of M.Sc.-I (Mathematics) by Mr. Yashwant Madake.
6. The changes were implemented as given in the **Annexure II**.

B] On 8th June 2021 the following points were discussed:

1. The meeting started with welcoming the members Board of Studies in Mathematics and Statistics again on second day by Mrs. H.J.Siamwalla, the Chairman Board of Studies in Mathematics and Statistics.
2. Three papers (Mathematics) of Sem-I were presented of F.Y.B.Sc. (Computer Science) by Mrs. Madhuri Modak.
3. Three papers (Mathematics) of Sem-II were presented of F.Y.B.Sc. (Computer Science) by Mrs. Saba Shaikh

4. The changes were implemented as given in the **Annexure III**.
5. Ms. Ishrat Ansari presented the following papers:
 - a) Two paper (Mathematics and Statistics) of F.Y.B.C.A.(Science).
 - b) One paper (Mathematics) of F.Y.B.B.A.
 - c) One paper (Mathematics) of F.Y.B.B.A.(CA).
 - d) Two paper (Mathematics and Statistics) of F.Y.B.Com.
6. The changes were implemented as given in the **Annexure IV**.
7. Dr. Mahmood Sayyed presented the following papers:
 - a) Six paper (Statistics) of F.Y.B.Sc..
 - b) One paper (Statistics) of F.Y.B.B.A.
 - c) One paper (Statistics) of F.Y.B.B.A.(CA).
8. The changes were implemented as given in the **Annexure V**.
9. Six papers (Statistics) were presented of F.Y.B.Sc.(Computer Science) by Ms. Pradnya Gajengi.
10. The changes were implemented as given in the **Annexure VI**

C] On 03rd July 2021 the following points were discussed:

1. The meeting started with welcoming and thanking the members Board of Studies in Mathematics and Statistics by Mrs. H.J.Siamwalla, the Chairman Board of Studies in Mathematics and Statistics for attending this urgent meeting to approve the syllabus of one paper of F.Y.B.Voc., as this course is started for the first time in the college for the technical reason the paper could not be presented in the previous meetings.
2. One paper (Mathematics and Statistics) of Sem-II was presented of F.Y.B.Voc.by Mrs. H.J.Siamwalla.
3. The changes were implemented as given in the **Annexure VII**.

D] General suggestions received during the meeting held on 7th, 8th June 2021 and 3rd July 2021 are as follows:

1. All syllabus should have reference websites related to the topics covered in the syllabus.
2. All syllabus should mention the Continuous Internal Evaluation (CIE) criteria to be followed.
3. All syllabus should be checked through Grammarly software for any grammatical mistakes.
4. All syllabus should have the same format.
5. In the structure of syllabus, lectures per week should be added in each paper.

All above general suggestions are implemented except for suggestion (5) as it is not at par with the college structure.

As there is no points to discuss, the meeting ended with thanks to the members.

Mrs. H.J.Siamwalla

Chairman of Board of Studies in
Mathematics and Statistics

Annexure I

Board of Studies in Mathematics and Statistics

Class	Semester	Paper code	Unit No	Point No	Suggested changes	Action Taken
F.Y.B.Sc (Mathematics)	I	21SBMT111	NA	--	Subject title Algebra should be changed to Foundation of Mathematics	Subject title changed to Foundation of Mathematics
	I	21SBMT112	II	5	Cauchy Sequences should be added	Section Cauchy Criterion: Definition and examples is added
	I	21SBMT113	NA	--	Subject title Operation Research and Maxima should be changed to Operation Research and Software Maxima	Subject title changed to Operation Research and Software Maxima
					In Operation Research and Software Maxima , Operation Research practical's can be conducted thorough Maxima Software	In references added TORA EXCEL Software and MAXIMA Software.
	II	21SBMT121	NA	--	Subject title Analytical Geometry should be changed to Co-ordinate Geometry	Subject title changed to Co-ordinate Geometry
	II	21SBMT122	--	--	No changes	--

	II	21SBMT123	NA	--	Subject title Abstract Algebra and Maxima should be changed to Abstract Algebra and Software Maxima	Subject title changed to Abstract Algebra and Software Maxima
			III	1,2	Groups to be added	Groups is added with sections 1. Definition and Examples. 2. Finite Group and Group tables

Annexure II

Board of Studies in Mathematics and Statistics

Class	Semester	Paper code	Unit No.	Point No.	Suggested changes	Action Taken
M.Sc.	I	21SMMT111	NA	--	In reference, Algebra –Michael Artin should be added.	In reference, Algebra –Michael Artin is added.
		21SMMT112	--	--	No changes.	--
		21SMMT113	NA	--	In reference, Basic Abstract Algebra Second Edition by P.B.Bhattacharya, S.K. Nagpaul should be added.	In reference, Basic Abstract Algebra Second Edition by P.B.Bhattacharya, S.K. Nagpaul is added.
		21SMMT114	NA	--	Title should be changed from Advance Calculus to Advanced Calculus.	Title change to Advanced Calculus.
		21SMMT115	IV	NA	Second order equations with regular singular points-the general case and A convergence proof should be deleted.	Second order equations with regular singular points-the general case and A convergence proof is deleted.
			VI	1	System as vector equations should be added.	System as vector equations is added.
				2	Existence and	Existence and

					uniqueness of solutions to systems should be added.	uniqueness of solutions to systems is added.
				3	Existence and uniqueness for linear systems should be added.	Existence and uniqueness for linear systems is added.
				NA	10 lectures should be added.	10 lectures is added.
	II	21SMMT121	NA	--	In reference, Complex Variable with Applications by S. Ponnusamy, Herb Silverman should be added.	In reference, Complex Variable with Applications by S. Ponnusamy, Herb Silverman is added.
		21SMMT122	--	--	No changes	--
		21SMMT123	--	--	No changes	--
		21SMMT124	NA	--	Title should be changed from Advance Numerical Analysis to Advanced Numerical Analysis.	Title change to Advanced Numerical Analysis.
			NA	--	In reference, Introductory Methods of Numerical Analysis by S.S. Sastry and Numerical Analysis by G. Shanker Rao should be added.	In reference, Introductory Methods of Numerical Analysis by S.S. Sastry and Numerical Analysis by G. Shanker Rao are added.
			I	NA	Instead of 10 lectures it should have 08 lectures.	Changed to 08 lectures.
			III	NA	Instead of 10 lectures it should have 05 lectures.	Changed to 05 lectures.
			IV	NA	09 lectures should be added.	09 lectures is added.
				1	Lagrange Form of Interpolating Polynomial should be added.	Lagrange Form of Interpolating Polynomial is added.
				2	Neville's Algorithm should be added.	Neville's Algorithm is added.

				3	The Newton Form of Interpolating Polynomial should be added.	The Newton Form of Interpolating Polynomial is added.
				4	Optimal Points for Interpolation should be added.	Optimal Points for Interpolation is added.
				5	Piecewise Linear Interpolation should be added.	Piecewise Linear Interpolation is added.
				6	Cubic Spline Interpolation should be added.	Cubic Spline Interpolation is added.
			V	NA	Instead of 14 lectures it should have 12 lectures.	Changed to 12 lectures.
			VI	3	Only Adams-Bashforth Methods, The Two Step Adams-Bashforth Method and Milnes's Method should be considered.	Changes made in syllabus.
		21SMMT125	--	--	No changes.	--

Annexure III

Board of Studies in Mathematics and Statistics

Class	Semester	Paper code	Unit No	Point No	Suggested changes	Remark
F.Y.B.Sc.(CS) (Mathematics)	I	21SBCS111M	--	---	No Changes	--
		21SBCS112M	II	3	Lattices, Complemented lattice, Bounded lattice, and Distributive Lattice should be added	Lattices, Complemented lattice, Bounded lattice, and Distributive Lattice is added
				4	Boolean functions: Introduction, Boolean variable, Boolean function of degree n, Boolean identities,	Boolean functions: Introduction, Boolean variable, Boolean function of degree n, Boolean identities, Definition of

					Definition of Boolean Algebra should be added	Boolean Algebra is added
				5	Representation of Boolean functions: Disjunctive Normal form, Conjunctive Normal Form should be added	Representation of Boolean functions: Disjunctive Normal form, Conjunctive Normal Form is added
		21SBCS113M	NA	---	Title should be changed from “Mathematics Practical Based on Matrix Algebra and Discrete Mathematics” to “Maxima Software and Practical Based on Matrix Algebra and Discrete Mathematics”	Title changed to “Maxima Software and Practical Based on Matrix Algebra and Discrete Mathematics”
					Detailed practical questions to be mentioned for each unit.	Practical slips are prepared and the unit wise questions are included in each practical.
	II	21SBCS121M	--	---	No Changes	--
		21SBCS122M	I	3	Directed graphs, types of directed graphs should be added	Directed graphs, types of directed graphs is added
				5	Degree sequence, and Havel Hakimi algorithm should be added.	Degree sequence, and Havel Hakimi algorithm is added.
		21SBCS122M	NA	---	In references, Introduction to Graph Theory by Douglas B. West book should be added.	In references, Introduction to Graph Theory by Douglas B. West book is added.
		21SBCS123M	NA	---	Title should be changed from	Title changed to “Maxima Software and

					“Mathematics Practical Based on Linear Algebra and Graph Theory” to “Maxima Software and Practical Based on Linear Algebra and Graph Theory”	Practical Based on Linear Algebra and Graph Theory”
			NA	---	Detailed practical questions to be mentioned for each unit.	Practical slips are prepared and the unit wise questions are included in each practical.

Annexure IV

Board of Studies in Mathematics and Statistics

Class	Semester	Paper code	Unit No	Point No	Suggested changes	Action Taken
FYBCA (Science) (Mathematics and Statistics)	I	21SBCA113	III	7	Graphs and Graph Models should be added.	Graphs and Graph Models is added.
				8	Graph Terminology and Special Graphs should be added.	Graph Terminology and Special Graphs is added.
				9	Representing Graphs should be added.	Representing Graphs is added.
				10	Connectivity should be added.	Connectivity is added.
		21SBCA117	--	--	No changes	--
FYBBA (Mathematics)	I	21CBBA115			No changes	
FYBBA (CA) (Mathematics)	II	21CBCA123	I	NA	Instead of 5 lectures it should have 3 lectures.	Changed to 3 lectures

			VI	NA	Instead of 10 lectures it should have 12 lectures.	Changed to 12 lectures
F.Y.B.Com (Mathematics and Statistics)	I	21CBCO114A			No Changes	
	II	21CBCO124A	III	4	Section on Concept of regression, Line of regression of Y on X for ungrouped data, prediction using line of regression Y on X where Y- dependent variable and X independent variable should be added.	Section on Concept of regression, Line of regression of Y on X for ungrouped data, prediction using line of regression Y on X where Y- dependent variable and X independent variable can be added.

Annexure V

Board of Studies in Mathematics and Statistics

Class	Semester	Paper code	Unit No	Point No	Suggested changes	Remark
FYBSc (Statistics)	I	21SBST111	--	--	No Changes	--
		21SBST112	NA	--	Equation of p.m.f.s not to be mentioned	Now all equation are removed
		21SBST113	NA	--	No. of practicals to be added considering the workload of one FT faculty	Revised as per the suggestion
	II	21SBST121	II	3	Only one Regression line to be included	One regression line Y on X has been included
			NA	--	Equation of p.m.f.s not to be mentioned	Now all equation are removed

		21SBST122	--	--	No Changes	--
		21SBST123	NA	--	No. of practicals to be added considering the workload of one FT faculty	Revised as per the suggestion
FYBBA (CA) (Statistics)	I	21CBCA115	IV	3	Only one Regression line to be included	Revised as per the suggestion
FYBBA (Statistics)	II	21CBBA125	IV	3	Only one Regression line to be included	Revised as per the suggestion

Annexure VI

Board of Studies in Mathematics and Statistics

Class	Semester	Paper code	Unit No	Point No	Suggested changes	Remark
F.Y.B.Sc.(CS) (Statistics)	I	21SBCS111S	III	2	Measures of skewness: Types of skewness, Pearson's and Bowley's coefficient of skewness, measures of skewness based on moments.should be added	Measures of skewness: Types of skewness, Pearson's and Bowley's coefficient of skewness, measures of skewness based on moments is added
		21SBCS112S	III	---	Title should be changed from Random Variable to Functions of Random Variable and Mathematical Expectation.	Title changed to Functions of Random Variable and Mathematical Expectation
		21SBCS112S	NA	---	In reference,	In reference,

					Fundamentals of Statistics. Vol I by A.M.Goon and B.Das Gupta should be added.	Fundamentals of Statistics. Vol I by A.M.Goon and B.Das Gupta is added.
		21SBCS113S	NA	---	Title should be changed from Statistics Practical Based on Descriptive Statistics and Mathematical Statistics to Practical based on Descriptive Statistics and Mathematical Statistics	Title changed to “Practical based on Descriptive Statistics and Mathematical Statistics”
					Detailed practical questions to be mentioned for each unit.	Practical slips are prepared and the unit wise questions are included in each practical.
	II	21SBCS121S	---	---	No Change	---
		21SBCS122S	---	---	No change	---
		21SBCS123S	NA	---	Title should be changed from “Statistics Practical Based on Methods of Applied Statistics and Testing of Hypothesis” to “Practical based on Methods of Applied Statistics and Testing of Hypothesis”	Title changed to “Practical based on Methods of Applied Statistics and Testing of Hypothesis”
			NA	---	Detailed practical questions to be mentioned for each unit.	Practical slips are prepared and the unit wise questions are included in each practical.

Annexure VII

Board of Studies in Mathematics and Statistics

Class	Semester	Paper code	Unit No	Point No	Suggested changes	Action Taken
F.Y.B.Voc. (Retail Management)	II	21CBVR203	I	NA	Unit title should be changed from Interest to Cash Flow.	Unit title changed from Interest to Cash Flow.
				NA	Instead of 10 lectures it should have 07 lectures.	Changed to 07 lectures.
			II	NA	Separate unit for Linear Programming Problem from Unit of Correlation.	Separate unit on Linear Programming Problem is formed.
				NA	This unit should be titled Operation Research.	This unit is titled Operation Research.
				NA	06 lectures should be added.	06 lectures is added.
			III	NA	Unit title should be changed from Statistics to Data and Visualization.	Unit title changed from Statistics to Data and Visualization
				3	Delete the line "Measure of Central Tendency and Dispersion".	Deleted the line "Measure of Central Tendency and Dispersion".
			IV	NA	Unit title should be changed from Measures of Central tendency to Exploration of Univariate Data.	Unit title is changed from Measures of Central tendency to Exploration of Univariate Data.

				Measures of dispersion 2	Topic on Coefficient of variation should be added after Coefficient of range	Topic on Coefficient of variation added after Coefficient of range
			V	Measures of Central tendency 4	Mode should be added after Median	Mode added after Median
				NA	Unit title should be changed from Correlation to Exploration of Bivariate Data	Unit title changed from Correlation to Exploration of Bivariate Data
				Linear Programming Problem 1,2,3	Linear Programming Problem and its three subunits should form separate unit under the name Operation Research	Linear Programming Problem and its three subunits is formed separate Unit II under the name Operation Research
				NA	Instead of 09 lectures it should have 06 lectures.	Changed to 06 lectures.
				--	Text books should be added with details of Chapters and section to be covered	Text books added with details of Chapters and section to be covered
			--	--	Publication details of all reference books should be added.	Publication details of all reference books be added.