MATHEMATICS & STATISTICS

Minutes of the 1st BOS Meeting Held on Thursday, 29th August 2019

Following members were present;

1. Dr. Smitha Jayaram HOD/Chairperson

Dr. Kumudini Das Member
 Mrs. Sabitha Praveen Member
 Mrs. Sudha Ramesh Member
 Mrs. Soly Zachariah Member

6. Prof. Sampat Vaidya Subject Expert7. Ms. Uttara Athawale Subject Expert

8. Dr. Rajeshwar R. Andhale Vice Chancellor Nominee

9. Mr. P.V. Ramdev Industry Expert

10. Ms. Kajal Dhangre Alumni
11. Dr. Gajanan Wader Principal
12. Mrs. Deepika Sharma Vice Principal

Meeting started at 12.00 noon under the chairmanship of Dr. Smitha Jayaram after self introduction

Agenda 1: To Intimate about Notification Regarding Autonomous Status

The Chairperson welcomed members and presented the following documents awarding Autonomous status to the College

- (a) Report of UGC Expert Committee appointed for evaluation.
- (b) Approval Letter from UGC Dated 2^{4th} June, 2019 Approval Letter from University Dated 1 July, 2019

Agenda 2: To discuss the Pattern of Revision in Syllabus undertaken uniformly by all the subject teachers.

The Board of Studies members reviewed the change in syllabus made by the respective subject teachers related to Mathematics & Statistics subjects. The Chairperson intimated the members that syllabus has been revised to the extent of 5% to 10% changes.

Agenda 3: To discuss and finalize the Revision in Syllabus of subjects under Department of Mathematics & Statistics

- Dr. Rajeshwar Andhale, Vice Chancellor Nominee of University of Mumbai suggested online internal test for 10 Marks.
- Dr. Rajeshwar Andhale, Vice Chancellor Nominee of University of Mumbai suggested introducing certificate Course in Aptitude Test for all the streams.
- Prof. Uttara Athawale, Expert Faculty Specialization, suggested that Maximum mark for each question should vary from 5 mark to 15
- It was also discussed and decided that the question paper pattern will be either / or option.
- Prof. Uttara Athawale, Expert Faculty Specialization, suggested that Baye's Theorem and conditional probability should not be removed from the syllabus.
- Prof. Uttara Athawale, Expert Faculty Specialization, suggested that Multiple Regression Analysis should be introduced in the syllabus of Information Technology and Computer Science.
- Prof. Uttara Athawale, Expert Faculty Specialization, suggested that Error Coding Should be introduced in Discrete mathematics.

After the discussions, the Board approved the revision/changes in the syllabus of following subjects for SEM I, III & V.

Syllabus Details under Autonomy B.Sc.I.T.

S N	Name of the Subject	Subject Teacher	Topic Added	Topic Removed		son for blacement	Reference for Added Topic	15 Internal Marks Allocation	
	Semester I								
1	Discrete Mathematics	Soly Zachariah	Binary Trees	Language if relations and functions	defii rela	neating in the nitions of tions and ctions	Susanna S.Epp	Class test (10m) and assignment(5m)	
	Semester III								
1	Applied Mathematics	Dr.kumudini Das	De Moivers Theorem, Average by	J operator Particular Integral other	er	The topics added in the syllabus	Applied Mathematics II,P. N.	Assignment (5m) and Class	

	double integration	method, Solution of simultaneous differential equation by laplace, Differentiation under integral sign	will give a practical knowledge to the students	Wartikar and J. N. Wartikar,Pune VidyathiGraha	Test(10m)
--	-----------------------	--	---	---	-----------

Syllabus Details under Autonomy

B.Sc. C.S.

	D.SC. C.S.								
S N	Name of the Subject	Subject Teacher	Topic Added	Topic Removed	Reason for Replaceme nt	Reference for Added Topic	15 Internal Marks Allocation		
	Semester I								
1	Discrete Mathematics	Sudha Ramesh	Number Theory	Intersection of lines	Number theory is useful in computer algorithms and programmin languages	Discrete mathematics and its applications by Kenneth H. Rosen	Class test and assignment		
2	Descriptive Statistics and introduction to Probability	Sabitha Praveen	Permutation and combination	Coefficient of determination	Permutation and combination is the base for probability	and Kapoor, V.K. (1987):	Class test (10m) and assignment (5m)		

	Semester III							
1	Combinatorics and graph theory	Sudha Ramesh	Graph algorithms	Applying probability to combinatorics	Graphs are widely used in softwares	Applied Combinatoric s by Mitchel T. Keller	Class test (10m) and assignment (5m)	

B.Com FINANCIAL MARKETS

				Semester - I		
•		Topic Added	Topic Removed	Reason for Replacement	Reference for Added Topic	15 Internal Marks Allocation
Business Mathem atics	Sudha Ramesh	Matrices and determinant s	Shares and mutual funds	Shares and mutual funds is included in other financial subjects	Business Mathematics by A. P. Kumtha	Class test (10m) and assignment (5m)
		Ba	chelor of M	 anagement Studies (E	<u> </u> B.M.S.)	
Business Statistics	Dr. Smitha Jayaram	Nil	Probabilit y and Probabilit y Distributio ns	To be added in the Second Semester as a continuity to nPr & nCr	Business Statistics by A. P. Kumtha	Class Test (10m) + Assignment (5m)
		I	Bachelor	of Commerce (B.Com	1.)	I
Business Statistics	Dr. Smitha Jayaram	Probability Theory: Continuous Probability Theory - Binomial, Poisson and Normal Distributions	Shares and Mutual Funds	Topic continuation in the same term under Statistics and Shares and Mutual Fund is a part of finance subject	Probability: An Introduction by Geoffrey Grimmet and Dominic Welsh	Class Test for another Unit (10M) + Assignment for another Unit (5M)

Agenda 4: To discuss and finalize the Question Paper Pattern

The question paper pattern was discussed and finalized with 60:40 pattern, 60 marks for external assessment Semester end exam and 40 marks for internal continuous assessment consisting of a 20 marks class test, 5 marks for active participation in the class & 15 marks- Projects, Presentations, class tests, assignments, etc. The question paper pattern was discussed and finalized as 4 questions of either / or of 15 marks each.

Agenda 5: To approve and recommend changed syllabus to Academic Council

Members of Board of Studies approved the revised syllabus and question paper pattern and recommended the same to be forwarded to the Academic Council for their approval.

Agenda 6: Any other matter with the permission of the chair

Dr. Rajeshwar Andhale, Vice Chancellor Nominee of University of Mumbai advised the Board to introduce B.A. in Statistics courses in the future.

The meeting was dissolved with thanks to the Chair and all the Board of Studies Members.