



Re-accredited by NAAC with 'A' Grade - CGPA 3.62  
Ranked 94 in College Category-2018 Under NIRF, MHRD, Government of India.  
Recognised by UGC as "College with Potential for Excellence"  
College with 'STAR STATUS' conferred by DBT, Govt. of India.

No: SAC 40/Syllabus 2019-20

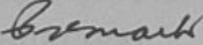
Date: 13-12-2019

### NOTIFICATION

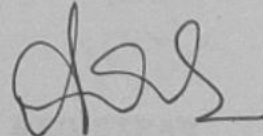
**Sub:** Syllabus of **B.Sc. ECONOMICS** Under Choice Based Credit System.

- Ref:** 1. Academic Council decision dated 02-05-2019  
2. Academic Council decision with regard to CBCS Courses  
dated :16-10-2019  
3. Office Notification dated 13-12-2019

Pursuant to the Notification cited under reference (2) above, the Syllabus of **B.Sc. ECONOMICS** is hereby notified for implementation with effect from the academic year 2019-20.

  
**PRINCIPAL**



  
**REGISTRAR**

To:

1. The Chairman/Dean/HOD.
2. The Registrar
3. Library

ಸಂತ ಅಲೋಶಿಯಸ್ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ)  
ಸಂತ ಅಲೋಶಿಯಸ್ ಕಾಲೇಜು ರಸ್ತೆ  
ಮಂಗಳೂರು - 575 003  
www.staloyisius.edu.in



ST ALOYSIUS COLLEGE(AUTONOMOUS)  
ST ALOYSIUS COLLEGE ROAD  
MANGALURU - 575 003  
Phone: 0824-2449700, 2449701  
Fax: 0824-2449705  
Email: principal\_sac@yahoo.com

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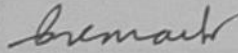
Date: 16-02-2021

### NOTIFICATION

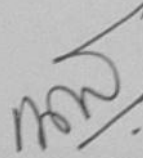
**Sub:** Syllabus of **B.Sc. ECONOMICS** Under Choice Based Credit System.

**Ref:** 1. Academic Council decision dated 12-12-2020  
2. Office Notification dated 16-02-2021

Pursuant to the Notification cited under reference (2) above, the changes in Syllabus of B.Sc. ECONOMICS in IV, V & VI Semesters is hereby notified for implementation with effect from the academic year 2020-21.

  
PRINCIPAL



  
REGISTRAR

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1. The Chairman/Dean/HOD.
2. The Registrar
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**BOARD OF STUDIES**

Sl. No.	Category	Members
1.	Chairman/Chairperson	<b>Dr Norbert Lobo</b>
2.	Members of the Department	Mr Alwyn Stephen Misquith Mr Reji P. John
3.	Subject Experts	<b>Dr Venessa A.C.</b> Assistant Prof. of Economics St Agnes College (Autonomous), Mangaluru – 575 002
		<b>Dr Laxminarayana Bhat</b> Associate Prof. of Economics Besant Evening College Mangaluru-575003
4.	Vice Chancellor Nominee	<b>Dr B Ramakrishna</b> Associate Prof. of Economics University College Mangaluru-575001
5.	Representative from Industry / Corporate Sector / Allied Area	<b>Mr A D Serrao</b> Director, Albertson's International Pvt Ltd 2 <sup>nd</sup> Floor, Parin, Collectors Gate, Balmatta – Mangaluru-575001
6.	Meritorious Alumnus	<b>Dr Prakash Rao</b> Associate Prof. of Economics Poorna Prajna College Chitpady, Udupi, Karnataka 576101
7.	Student Representative	Ferdinand Balapphang Thangkhiew

**B.Sc. – ECONOMICS (3- Major CBCS System):**

**Semester – wise Course Titles**

SEMESTER	CODE	TITLE OF THE COURSE
I Semester ( 6 hours) Core Course	Economics Core I : G 513.1	Principles of Economics -I
II Semester ( 6 hours) Core Course	Economics Core II : G 513.2	Principles of Economics -II
III Semester ( 6 hours) Core Course	Economics Core III : G 513.3	Monetary Economics
IV Semester( 6 hours) Core Course	Economics Core IV: G 513.4	International Trade and Public Finance
V Semester: ( 5 hours) Core Course	Economics Core Va G 513.5a	Development Economics
( 5 hours)	Economics Core Vb G 513.5b	Mathematical Economics
VI Semester: ( 5 hours) Core Course	Economics Core VIa G 513.6a	Indian Economics
( 5 hours)	Economics Core VIb G 513.6b	Econometrics

**NOTE: Each paper is divided into 6 modules**

**CBCS : Courses Semester wise**

SEMESTER	CODE	TITLE OF THE COURSE Only for I Sem during 2019	TITLE OF THE COURSE For 2020 onwards
I Semester ( 2 hours) Elective Course	Economics Elective Course : G 513.1E	Economics of Human Resource Development	Human Resource Economics
II Semester ( 2 hours) Elective Course	Economics Elective Course : G 513.2E	Health Economics	Health Economics
III Semester ( 2 hours) Elective Course	Economics Elective Course : G 513.3E	Indian Economy	Indian Economy
IV Semester ( 2 hours) Elective Course	Economics Elective Course : G 513.4E	Quantitative Economics	Quantitative Economics

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ST ALOYSIUS COLLEGE  
(Autonomous)  
P.B.No.720  
MANGALURU- 575 003, INDIA  
Phone:+91-0824 2449700,2449701  
Fax: 0824-2449705  
Email: [principal\\_sac@yahoo.com](mailto:principal_sac@yahoo.com)  
[principal@staloysius.edu.in](mailto:principal@staloysius.edu.in)  
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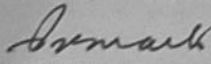
Date: 18-07-2019

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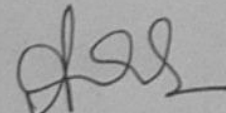
Sub: Syllabus of **B.Sc. Statistics** under Choice Based Credit System.

- Ref: 1. Decision of the Academic Council meeting held on 02-05-2019 vide  
Agenda No: 22(2019-20)  
2. Office Notification dated 18-07-2019

Pursuant to the above, the Syllabus of **B.Sc. Statistics** under Choice Based Credit System which was approved by the Academic Council at its meeting held on 02-05-2019 is hereby notified for implementation with effect from the academic year 2019-20.

  
PRINCIPAL



  
REGISTRAR

To:

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**Scheme of Instruction & Examination: B.Sc. Statistics-(Theory and Practical)**

Semester	Title of the Paper	Hrs. of instruction	Duration of Exam	Maximum Marks Theory + IA	No. of Credits
I	G 506.1: Descriptive Statistics & Probability Theory	04	03	70+30=100	2
	G 506.1a: Descriptive Statistics & Probability Theory Practical.	03	03	40+10=50	1
	<b>G 506.1E: Applied Statistics</b>	02	02	40+10=50	1
II	G506.2:Probability Distributions	04	03	70+30=100	2
	G506.2a: Probability Distributions Practical.	03	03	40+10=50	1
	<b>G 506.2E: Data Analysis using Ms Excel</b>	02	02	40+10=50	1
III	G506.3: Statistical Inference I	04	03	70+30=100	2
	G506.3a: Statistical Inference I Practical.	03	03	40+10=50	1
	<b>G 506.3E: Probability Distributions</b>	02	02	40+10=50	1
IV	G506.4: Statistical Inference II	04	03	70+30=100	2
	G506.4a: Statistical Inference II Practical.	03	03	40+10=50	1
	<b>G 506.4E: Statistical Data Analysis using SPSS</b>	02	02	40+10=50	1
V	G506.5a.: Designs of Experiments	03	03	70+30=100	2
	G506.5 b: Elective (1) - <b>Total Quality Management</b>	03	03	70+30=100	2
	<b>OR</b> Elective (2) - Regression Analysis G506.5a: Practical based on G506.5 and G506.5a	04	04	80+20=100	2
VI	G506.6a: Sampling Theory	03	03	70+30=100	2
	G506.6: Elective (1) - <b>Operation Research</b>	03	03	70+30=100	2
	<b>OR</b> Elective (2) - Simulation G506.6a.: Practical based on G506.6 and G506.6a	04	04	80+20=100	2

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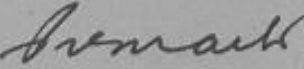
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Sub: Syllabus of **B.Sc. Mathematics** under Choice Based Credit System.

- Ref: 1. Decision of the Academic Council meeting held on 02-05-2019 vide  
Agenda No: 21(2019-20)  
2. Office Notification dated 18-07-2019

Pursuant to the above, the Syllabus of **B.Sc. Mathematics** under Choice Based Credit System which was approved by the Academic Council at its meeting held on 02-05-2019 is hereby notified for implementation with effect from the academic year 2019-20.

  
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REGISTRAR

## SCOPE OF THE SYLLABUS

This syllabus is framed in such a way that the students learn Calculus and Differential Equations and their applications, which help them to learn allied subjects like Physics, Computer Science, in a better way. Also, the students learn Number Theory and Algebra which can motivate the students to go for higher studies in Mathematics. A variety of optional papers are given so that the students can learn the subjects of their interest.

Course Pattern and Scheme of Examinations

Group II: Optional III B.Sc. Mathematics

Semester	Paper	Hours per week	Duration of the Exam(hrs)	Semester Exams	Marks Internal Assessment*	Total
I	Paper1	6	3	100	50	150
II	Paper2	6	3	100	50	150
III	Paper3	6	3	100	50	150
IV	Paper4	6	3	100	50	150
V	Paper5(a)	5	3	100	50	150
	Paper5(b) Elective*	5	3	100	50	150
VI	Paper6(a)	5	3	100	50	150
	Paper6(b) Elective*	5	3	100	50	150
					Total	1200

\*For each paper Internal Assessment marks shall be awarded based on the marks scored in two tests and projects/assignment/Surprise tests.

\*During the V & VI semester, a student can opt for any one of the special papers offered in syllabus, except that a student studying statistics in B. Sc. cannot opt for the paper 'distribution theory'.



Semester	Paper	Paper Code	Title of the Paper
I	Paper 1	G 503.1	Calculus
		<b>G 503.1E</b>	<b>Functions and Applications</b>
II	Paper 2	G 503.2	Calculus, Number Theory And Differential Equations
		<b>G 503.2E</b>	<b>Vector Calculus</b>
III	Paper 3	G 503.3	Number Theory, Group Theory & Multivariate Calculus
		<b>G 503.3E</b>	<b>Applications of Basic Arithmetic</b>
IV	Paper 4	G 503.4	Functions Of A Complex Variable, Number Theory, Group Theory And Real Analysis
		<b>G 503.4E</b>	<b>Skill Development Techniques In Mathematics using Computer aided Tools</b>
V	Paper 5(a)	G 503.5(a)	Differential Equations, Laplace transform and Algebra
	Paper 5(b)	G 503.5(b)i	5(b)i Discrete Mathematics
	Special	G 503.5(b)ii	5(b)ii Numerical Methods
	Paper	G 503.5(b)iii	5(b)iii Graph Theory
		G 503.5(b)iv	5(b)iv Linear programming
		G 503.5(b)v	5(b)v Mathematical Modeling
		G 503.5(b)vi	5(b)vi Distribution Theory
VI	Paper 6(a)	G 503.6(a)	Partial Differential Equations, Fourier Series and linear algebra.
	Paper 6(b)	G 503.6(b)i	6(b)i Discrete Mathematics
	Special	G 503.6(b)ii	6(b)ii Numerical Methods
	Paper	G 503.6(b)iii	6(b)iii Graph Theory
		G 503.6(b)iv	6(b)iv Linear programming
		G 503.6(b)v	6(b)v Mathematical Modeling
		G 503.6(b)vi	6(b)vi Distribution Theory

A Student has to opt a special paper in paper 6(b) which is different from what was opted earlier in paper 5(b).