ಸಂತಅಲೋಶಿಯಸ್ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ)
ಮಂಗಳೂರು– 575 003
www.staloysius.edu.in

ESTD : 1880

ST ALOYSIUS COLLEGE(AUTONOMO
MANGALURU – 575 0
Phone: 0824-2449700, 2449
Fax: 0824-2449
Email: principal@staloysius.edu

Re-accredited by NAAC with 'A' Grade with CGPA 3.62/4
Recognised by UGC as "College with Potential for Excellence"
Conferred "College with "STAR STATUS" by DBT, Government of India.
Centre for Research Capacity Building under UGC-STRIDE

Date: 17-08-2022

NOTIFICATION

Sub: Syllabus of **B.Sc. MATHEMATICS** under NEP Regulations, 2021.
(As per Mangalore University guidelines)

Ref: 1. Decision of the Academic Council meeting held on 18-12-2021 vide Agenda No: 6.21(2021-22)
2. Decision of the Academic Council meeting held on 09-07-2022 vide Agenda No:14
3. Office Notification dated 21-02-2022.
4. Office Notification dated 17-08-2022

Pursuant to the above, the Syllabus of **B.Sc. MATHEMATICS** under NEP Regulations, 2021 which was approved by the Academic Council at its meeting held on 18-12-2021& 09-07-2022 is hereby notified for implementation with effect from the academic year **2021-22**.

PRINCIPAL

REGISTRAR

ST ALOYSIUS COLLEGE MANGALURU 575 003 (AUTONOMOUS)

To:

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

Board of Studies meeting held on 20th November 2021 chaired by Ms Priya Monteiro, Head of the Department.

Members present:

1. Dr Adelaide Saldanha, HOD, Department of Mathematics, St Agnes College (Autonomous), Mangaluru.
2. Mr Udaya K, HOD of Mathematics, St Philomena College, Puttur.
3. Dr John Edward Dsilva
4. Ms Melvita Leema Baretto
5. Ms Rollin Preetha Vaz
6. Ms Shaila Priya Rodrigues

Programme Outcomes (PO):

By the end of the program it is expected that the students will be benefited by the following:

PO 1	**Disciplinary Knowledge**: Bachelor degree in Mathematics is the culmination of in-depth knowledge of Algebra, Calculus, Geometry, differential equations and several other branches of pure and applied mathematics. This also leads to study the related areas such as computer science and other allied subjects
PO 2	**Communication Skills**: Ability to communicate various mathematical concepts effectively using examples and their geometrical visualization. The skills and knowledge gained in this program will lead to the proficiency in analytical reasoning which can be used for modeling and solving of real life problems.
PO 3	**Critical thinking and analytical reasoning:** The students undergoing the programme acquire ability of critical thinking and logical reasoning and capability of recognizing and distinguishing the various aspects of real life problems.
PO 4	**Problem Solving**: The Mathematical knowledge gained by the students through the programme develop an ability to analyze the problems, identify and define appropriate computing requirements for its solutions. This

Assessment

Weightage for the Assessments (in percentage)

Type of Course	Formative Assessment/ I.A.	Summative Assessment (S.A.)
Theory	40%	60 %
Practical	50%	50 %
Projects	40%	60 %
Experiential Learning (Internship etc.)	--	--

Structure under NEP

Course Code	Title of course	Category of course	Teaching hours per week	SEE	CIE	Total Marks	Credits
SEMESTER I							
G 503 DC1.1	Number Theory - I, Algebra - I and Calculus - I	DSC	4	60	40	100	4
G 503 DC2.1P	Theory based practicals on Number Theory – I, Algebra - I and Calculus - I	DSC	4	25	25	50	2
G 503 OE1.1	Mathematics - I	OEC	3	60	40	100	3
Total credit							9
SEMESTER II							
G 503 DC1.2	Number Theory - II, Algebra - II and Calculus - II	DSC	4	60	40	100	4
G 503 DC2.2P	Theory based practicals on Number Theory – II, Algebra - II and Calculus - II	DSC	4	25	25	50	2
G 503 OE1.2	Mathematics - II	OEC	3	60	40	100	3
Total credit							9

St Aloysius College (Autonomous)

Mangaluru

Re-accredited by NAAC "A" Grade

Course structure and syllabus of

B.Sc.

ELECTRONICS

Under NEP Regulations, 2021

(2021-22 Batch Onwards)

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Date: 17-08-2022

NOTIFICATION

Sub: Syllabus of **B.Sc. ELECTRONICS** under NEP Regulations, 2021.
(As per Mangalore University guidelines)

Ref: 1. Decision of the Academic Council meeting held on 09-07-2022 vide Agenda No: 14 (2022-23)
2. Office Notification dated 17-08-2022

Pursuant to the above, the Syllabus of **B.Sc. ELECTRONICS** under NEP Regulations, 2021 which was approved by the Academic Council at its meeting held on 09-07-2022 is hereby notified for implementation with effect from the academic year **2022-23**.

PRINCIPAL

ST ALOYSIUS COLLEGE MANGALORE 575 003 AUTONOMOUS

REGISTRAR

To:

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

Sl. No.	Semester	Title of thePaper	Teaching Hours	Hours /week		Examination PatternMax. Marks /Paper				Duration of Exam (hours)		Total Marks / paper	Theory Credits	Practical Credits
						Theory		Practical						
				Theory	Practical	Exam	IA	Exam	IA	Theory	Practical			
1	I	ELE-CT1: G 504 DC1.1 FUNDAMENTALS OF ANALOG AND DIGITAL	60	4	4	60	40	25	25	2.5	4	100+50	4	2
		ELE-OE 1.1 Basics of Electronic circuits and PCB Design	36	2	1	40	10	-	-	2	-	50	2	1
2	II	ELE-CT2: G 504 DC1.2 Discrete amplifiers, Operational amplifiers, Combinational circuits and Sequential Circuits	60	4	4	60	40	25	25	2.5	4	100+50	4	2
		ELE-OE 2.1: Renewable Energy and Energy harvesting	36	2	1	40	10	-	-	2*	-	50	2	1
3	III	ELE-CT3: G 504 DC1.3 Power control, Oscillators, wave shaping circuits, Principles of Radio Communication and Digital circuits	60	4	4	60	40	25	25	2.5	4	100+50	4	2
		ELE-OE3.1: Domestic Equipment Maintenance	36	2	1	40	10	--		2	---	50	2	1
4	IV	ELE-CT4: G 504 DC1.4 Power control, Oscillators, wave shaping circuits, Principles of Radio Communication and Digital circuits	60	4	4	60	40	25	25	2.5	4	100+50	4	2
5	V		60	4	4	60	40	2	2	2.5	4	100+50	4	2
			60	4	4	60	40	2	2	2.5	4	100+50	4	2

Semester	Code	Paper Title
I	G 504DC1.1	Fundamentals of analog and digital
	G 504DC2.1P	Practicals - I
	G 504OE1.1	Basics of Electronic circuits and PCB design
II	G 504DC1.2	Discrete amplifiers, Operational amplifiers, Combinational circuits and Sequential Circuits
	G 504DC2.2P	Practicals - II
	G 504OE1.2	Renewable Energy and Energy harvesting
III	G 504DC1.3	Power control , Oscillators, waves shaping circuits, Principles of Radio Communication and Digital circuits
	G 504DC2.3P	Practicals - III
	G 504OE1.3	ELE-OE3.1: Domestic Equipment Maintenance
IV	G 504DC1.4	
	G 504DC2.4P	Practicals - IV
V	G 504DC1.5	Power control , Oscillators, waves shaping circuits, Principles of Radio Communication and Digital circuits
	G 504DC2.5P	Practicals -
	G 504DC16.4	Power control , Oscillators, waves shaping circuits, Principles of Radio Communication and Digital circuits
	G 504DC2.4P	Practicals - VI