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(ÄéAiÄÄvÄÛ)
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ST ALOYSIUS COLLEGE(AUTONOMOUS)
MANGALURU - 575 003
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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. PHYSICS** 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: 6.23 (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. PHYSICS** under NEP Regulations, 2021 which was approved by the Academic Council at its meeting held on 18-12-2021, 09-07-2022 & 25-02-2023 is hereby notified for implementation with effect from the academic year **2021-22**.

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PRINCIPAL

To:

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



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REGISTRAR

Course Structure – B.Sc. Physics

3 Years B.Sc. Course with Physics as one of the major subject and open Electives according to National education policy(2020)

Semester	Discipline core (DC) Subject	Subject code	Theory hours/ week	Practical hours/ week	Duration of exams (Hours)	Marks and Credits			
						Exam	IA	Total	Credits
I	Mechanics and Properties of Matter	G501 DC1.1	4		2.5	60	40	100	4
I	Practical-Lab	G501 DC2.1P		4	4	25	25	50	2
I	Electrical Circuits and Wiring	G501 OE1.1	3		2.5	60	40	100	3
II	Electricity and Magnetism	G501 DC1.2	4		2.5	60	40	100	4
II	Practical-Lab	G501 DC2.2P		4	4	25	25	50	2
II	Renewable Energy and Energy Harvesting	G501 OE1.2	3		2.5	60	40	100	3
III	Waves and Optics	G501 DC1.3	4		2.5	60	40	100	4
III	Practical-Lab	G501 DC2.3P		4	4	25	25	50	2
III	Fundamentals of Optics and Electricity	G501 OE1.3	3		2.5	60	40	100	3
IV	Thermal Physics and Electronics	G501 DC1.4	4		2.5	60	40	100	4
IV	Practical-Lab	G501 DC2.4P		4	4	25	25	50	2
IV	Financial Education and Investment Awareness		3		2.5	30	20	50	



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)



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. 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



REGISTRAR

To:

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2. The Registrar Office
3. Library

Sl. No.	Semester	Title of the Paper	Teaching Hours	Hours /week		Examination Pattern Max. Marks /Paper				Duration of Exam (hours)		Total Marks / paper	Theory Credits	Practical Credits
				Theory	Practical	Theory		Practical		Theory	Practical			
						Exam	IA	Exam	IA					
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