

ಸಂತ ಅಲೋಶಿಯಸ್ ಕಾಲೇಜು
(ಸ್ವಾಯತ್ತ)
ಮಂಗಳೂರು- 575 003



ST ALOYSIUS COLLEGE
(Autonomous)
P.B.No.720
MANGALURU- 575 003, INDIA
Phone:+91-0824 2449700,2449701
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Re-accredited by NAAC with 'A' Grade - CGPA 3.62

Recognised by UGC as "College with Potential for Excellence"

College with 'STAR STATUS' conferred by DBT, Government of India

3rd Rank in "Swacch Campus" Scheme, by MHRD, Govt of India

No: SAC 40/Syllabus 2019-20

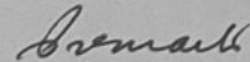
Date: 18-07-2019

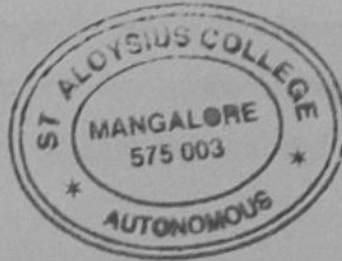
NOTIFICATION

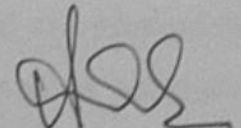
Sub: Syllabus of **B.Sc. & B.A. Computer Animation** under Choice Based Credit System.

Ref: 1. Decision of the Academic Council meeting held on 02-05-2019 vide Agenda No: 19(2019-20)
2. Office Notification dated 18-07-2019

Pursuant to the above, the Syllabus of **B.Sc. & B.A. Computer Animation** 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:

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

CBCS Structure B.A. - Computer Animation

Subject Code	Subject	Theory hours/week	Practical hours/Week	Duration of Exams (hrs)	Marks & Credits			
					IA	Exam	Total	Credits
10.1	1 Introduction to Computer Animation and Animation Graphics	4	-	3	20	100*	100	2
10.1E	Traditional Animation	2		2	10	40	50	1
10.1P	Graphics Designing Lab Using Adobe Photoshop	-	3	3	10	40	50	1
10.2	2 Introduction to the 2D Animation and Macromedia Flash	4	-	3	20	100*	100	2
10.2E	2D Character & Environment Sketching	2		2	10	40	50	1
10.2P	2D Animation Lab Using Macromedia Flash		3	3	10	40	50	1
10.3	3 Multimedia Techniques	4	-	3	20	100*	100	2
10.3E	Graphic design	1	1	2	10	40	50	1
10.3P	Multimedia Editing Lab	-	3	3	10	40	50	1
10.4	4 3D Modeling	4	-	3	20	100*	100	2
10.4E	Video editing	1	1	2	10	40	50	1
10.4P	3D modeling lab		3	3	10	40	50	1
10.5a	5 3D Texturing, Camera & Lighting	3	-	3	20	100*	100	2
10.5b(i) OR 10.5b(ii)	Opt 1: Web Technology OR Opt 2 : C-Programming & Sound mixing	3	-	3	20	100*	100	2
10.5P	1) 3D Texturing, Camera and Lighting Lab 2) web Technology lab (opt1)	-	4	3	20	80	100	2
10.6a	6 3D Rigging & Animation	3	-	3	20	100*	100	2
10.6b(i) OR 10.6b(ii)	Opt 3: Media & Interactive animation OR Opt 4: Visual Programming	3	-	3	30	100*	100	2
10.6P	1) 3D Animation lab 2) Interactive animation Lab (opt3)	-	4	3	20	80	100	2

CBCS Structure B.Sc. - Computer Animation

Subject Code		Subject	Theory hours/week	Practical hours/Week	Duration of Exams (hrs)	Marks & Credits			
						IA	Exam	Total	Credits
512.1	1	Introduction to Computer Animation and Animation Graphics	4	-	3	20	100*	100	2
512.1E		Traditional Animation	2		2	10	40	50	1
512.1P		Graphics Designing Lab Using Adobe Photoshop	-	3	3	10	40	50	1
512.2	2	Introduction to the 2D Animation and Macromedia Flash	4	-	3	20	100*	100	2
512.2E		2D Character & Environment Sketching	2		2	10	40	50	1
512.2P		2D Animation Lab Using Macromedia Flash		3	3	10	40	50	1
512.3	3	Multimedia Techniques	4	-	3	20	100*	100	2
512.3E		Graphic design	1	1	2	10	40	50	1
512.3P		Multimedia Editing Lab	-	3	3	10	40	50	1
512.4	4	3D Modeling	4	-	3	20	100*	100	2
512.4E		Video editing	1	1	2	10	40	50	1
512.4P		3D Modeling lab		3	3	10	40	50	1
512.5a	5	3D Texturing, Camera & Lighting	3	-	3	20	100*	100	2
512.5b(i) OR 512.5b(ii)		Opt 1: Web Technology OR Opt 2: C-Programming & Sound mixing	3	-	3	20	100*	100	2
512.5P		1) 3D Texturing, Camera and Lighting Lab 2) Web Technology lab (opt1)	-	4	3	20	80	100	2
512.6a	6	3D Rigging & Animation	3	-	3	20	100*	100	2
512.6b(i) OR 512.6b(ii)		Opt 3: Media & Interactive animation OR Opt 4: Visual Programming	3	-	3	30	100*	100	2
512.6P		1)3D Animation lab 2) Interactive animation Lab (opt3)	-	4	3	20	80	100	2

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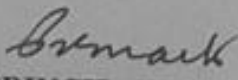
Date: 18-07-2019

NOTIFICATION

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

- Ref: 1. Decision of the Academic Council meeting held on 02-05-2019 vide
Agenda No: 23(2019-20)
2. Office Notification dated 18-07-2019

Pursuant to the above, the Syllabus of **B.Sc. Physics** 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:

1. The Chairman/Dean/HOD.
2. The Registrar Office
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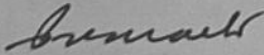
Date: 25-06-2020

NOTIFICATION

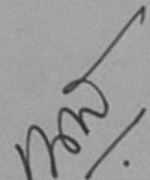
Sub: Syllabus of **B.Sc. Physics** under Choice Based Credit System.

- Ref: 1. Decision of the Academic Council meeting held on 09-06-2020 vide
Agenda No: 15(2020-21)
2. Office Notification dated 25-06-2020

Pursuant to the above, the replacement of CBCS IV Semester to Syllabus of **B.Sc. Physics** under Choice Based Credit System which was approved by the Academic Council at its meeting held on 09-06-2020 is hereby notified for implementation with effect from the academic year **2020-21**.


PRINCIPAL




REGISTRAR

To:

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Objectives:

The goal of this course in physics is to provide the student with a flavor of the physical principles of this science, to empower them to think critically and to provide insights to students in the physical sciences in order to enhance their career opportunities.

COURSE STRUCTURE

Semester & Course Code	Lecture/ Practical per week (Hr)	Duration of Exam (Hr)	Max. Marks			Credits
			Internal assessment	End Semester Exam	Total	
I Sem G501.1 (Theory)	4	3	20	80	100	2
G501.1P (Practical)	3	3	10	40	50	1
G501.1E (Open Elective)	2	2	10	40	50	1
II Sem G501.2 (Theory)	4	3	20	80	100	2
G501.2P (Practical)	3	3	10	40	50	1
G501.2E (Open Elective)	2	2	10	40	50	1
III Sem G501.3 (Theory)	4	3	20	80	100	2
G501.3P (Practical)	3	3	10	40	50	1
G501.3E (Open Elective)	2	2	10	40	50	1
IV Sem G501.4 (Theory)	4	3	20	80	100	2
G501.4P (Practical)	3	3	10	40	50	1
G501.4E (Open Elective)	2	2	10	40	50	1
V Sem G501.5a (Theory)	3	3	20	80	100	2
G501.5b (Theory)	3	3	20	80	100	2
G501.5P (Practical)	4	3	20	80	100	2
VI Sem G501.6a (Theory)	3	3	20	80	100	2
G501.6b (Theory)	3	3	20	80	100	2
G501.6P (Practical)	4	3	20	80	100	2

Title of the papers with Code:

Semesters	Code	Paper Title
I	G501.1	Properties of matter, Thermal Physics and Electricity I
	G501.1P	Practical I
	G501.1E	ELECTRICAL CIRCUITS AND NETWORK SKILLS
II	G501.2	Mechanics, Relativity and Photonics
	G501.2P	Practical II
	G501.2E	PHYSICS WORKSHOP SKILLS
III	G501.3	Acoustics, Optics and Networks
	G501.3P	Practical III
	G501.3E	BASIC INSTRUMENTATION SKILLS
IV	G501.4	Electromagnetism, Electricity II and Electronics I
	G501.4P	Practical IV
	G501.4E	RENEWABLE ENERGY AND ENERGY HARVESTING
V	G501.5a	Atomic Physics
	G501.5b	Solid State Physics
	G501.5P	Practical V
VI	G501.6a	Nuclear Physics and Analog Electronics
	G501.6b	Communication and Digital Electronics, Special properties of materials
	G501.6P	Practical VI

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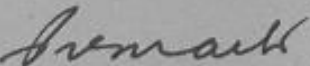
Date: 18-07-2019

NOTIFICATION

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.


PRINCIPAL




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	Paper1	G 503.1	Calculus
		G 503.1E	Functions and Applications
II	Paper 2	G 503.2	Calculus, Number Theory And Differential Equations
		G 503.2E	Vector Calculus
III	Paper 3	G 503.3	Number Theory, Group Theory & Multivariate Calculus
		G 503.3E	Applications of Basic Arithmetic
IV	Paper 4	G 503.4	Functions Of A Complex Variable, Number Theory, Group Theory And Real Analysis
		G 503.4E	Skill Development Techniques In Mathematics using Computer aided Tools
V	Paper5(a)	G 503.5(a)	Differential Equations, Laplace transform and Algebra
	Paper5(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	Paper6(a)	G 503.6(a)	Partial Differential Equations, Fourier Series and linear algebra.
	Paper6(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).