

ಸಂತ ಅಲೋಶಿಯಸ್ ಕಾಲೇಜು  
(ಸ್ವಾಯತ್ತ)  
ಮಂಗಳೂರು- 575 003



ST ALOYSIUS COLLEGE  
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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  
3<sup>rd</sup> Rank in "Swacch Campus" Scheme, by MHRD, Govt of India

No: SAC 40/Syllabus 2019-20

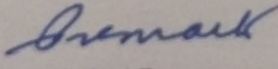
Date: 18-07-2019

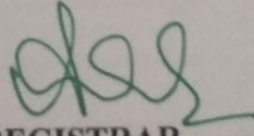
### NOTIFICATION

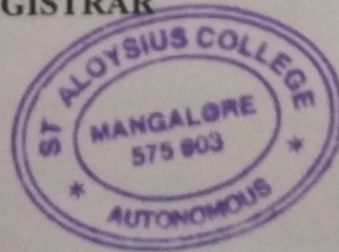
Sub: Syllabus of M.Sc. Physics under Choice Based Credit System.

Ref: 1. Decision of the Academic Council meeting held on 02-05-2019 vide  
Agenda No: 3(2019-20)  
2. Office Notification dated 18-07-2019

Pursuant to the above, the Syllabus of M.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
3. Library
4. PG Office

M.Sc. Physics							
I Semester (4 Hard core and 2 soft core paper)							
Code	Papers	Instructi on hours/ Week	Duration of Exam	Marks		Total	Credits
				IA	End Semester		
<b>I Semester (3 Hard core and 2 Soft core papers)</b>							
PH 571.1	Mathematical Physics - I	4	3	30	70	100	4
PH 572.1	Classical Mechanics	4	3	30	70	100	4
PH 573.1	Classical Electrodynamics	4	3	30	70	100	4
PH 574.1	Electronics	4	3	30	70	100	4
PS 575.1P	General Physics Experiments - I	6	3	30	70	100	3
PS 576.1P	Electronics Experiments - I	6	3	30	70	100	3
	Seminar	2				25	1
	<b>Total</b>					<b>625</b>	<b>23</b>
<b>II Semester (4 Hard core and 2 Soft core papers and 1 open elective paper)</b>							
PH 571.2	Mathematical Physics II	4	3	30	70	100	4
PH 572.2	Quantum Mechanics I	4	3	30	70	100	4
PH 573.2	Thermodynamics and Statistical Physics	4	3	30	70	100	4
PH 574.2	Condensed Matter Physics I	4	3	30	70	100	4
PS 575.2P	General Physics Experiments - II	6	3	30	70	100	3
PS 576.2P	Electronics Experiments - II	6	3	30	70	100	3
PO 577.2	Bio Physics	3	3	30	70	100	3
	Seminar	2				25	1
	<b>Total</b>					<b>725</b>	<b>26</b>

Code	Papers	Instructi on hours/ Week	Duration of Exam	Marks		Total	Credits
				IA	End Semester		
<b>III Semester (2 Hard core and 2 Soft core papers and 1 open elective paper)</b>							
PH 571.3	Quantum Mechanics II	4	3	30	70	100	4
PH 572.3	Condensed Matter Physics II	4	3	30	70	100	4
PS 573.3	Relativity and Cosmology	3	3	30	70	100	3
PS 574.3	Optics	3					
PS 575.3P	General Physics Experiments - III	6	3	30	70	100	3
PS 576.3P	Computational Physics Practicals	6	3	30	70	100	3
PO 577.3	Experimental Techniques	3	3	30	70	100	3
	Seminar	2				25	1
						<b>625</b>	<b>21</b>
<b>IV Semester (2+1 Hard core and 2+1 Soft core papers)</b>							
PH 571.4	Atomic and Molecular Physics	4	3	30	70	100	4
PH 572.4	Nuclear and Particle Physics	4	3	30	70	100	4
PH 573.4P	Project	8	3	30	70	100	4
PS 574.4	Communication Theory	3	3	30	70	100	3
PS 575.4	Lasers, Vacuum Techniques and Nonlinear Optics	3					
PS 576.4	Condensed Matter Physics III	3	3	30	70	100	3
PS 577.4	Nuclear Structure	3					
PS 578.4P	General Physics Experiments IV	6	3	30	70	100	3
PS 579.4	Seminar	2				25	1
						<b>625</b>	<b>22</b>
						<b>2600</b>	<b>92</b>