

ST ALOYSIUS COLLEGE
(AUTONOMOUS)
P.B. NO. 720, MANGALURU - 575 003, KARNATAKA
INDIA
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Re-accredited by NAAC with 'A' Grade with CGPA 3.62/4
Ranked 95 in College Category - 2021 under NIRF, Ministry of Education, Government of India
Recognised as Centre for Research Capacity Building under UGC-STRIDE Scheme
Recognized under DBT - BUILDER Scheme, Government of India
College with "STAR STATUS" Conferred by DBT, Government of India
Recognised by UGC as "College with Potential for Excellence"

Date: 12-08-2021

NOTIFICATION

Sub: Syllabus of **M.Sc. Analytical Chemistry** under Choice Based Credit System.

Ref: 1. Decision of the Academic Council meeting held on 19-06-2021 vide

Agenda No: 20 (2) (2021-22)

2. Office Notification dated 12-08-2021

Pursuant to the above, the Syllabus of **M.Sc. Analytical Chemistry** under Choice Based Credit System which was approved by the Academic Council at its meeting held on 19-06-2021 is hereby notified for implementation with effect from the academic year **2021-22**.

Principal



Registrar

To:

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

Structure, Credits and Scheme of Examination of the Postgraduate Courses under Choice Based Credit System

M.Sc. Analytical Chemistry 2021							
I Semester = 3 Hard core and 1+5 soft core paper							
Code	Papers	Hours/ Week	Durati on of Exam	Marks		Total	Credits
				IA	End Sem		
PH 541.1	Inorganic Chemistry	4	3	30	70	100	4
PH 542.1	Organic Chemistry	4	3	30	70	100	4
PH 543.1	Physical Chemistry	4	3	30	70	100	4
PS 544.1	Principles of Analytical Chemistry & Separation Techniques or	3	3	30	70	100	3
PS 545.1	Bioorganic Chemistry						
PS 546.1	Research Methodology	3	3	30	70	100	3
PS 547.1P	Inorganic Chemistry - Practicals – I	4	4	15	35	50	2
PS 548.1P	Organic Chemistry Practical – I	4	4	15	35	50	2
PS 549.1P	Physical Chemistry Practical – I	4	4	15	35	50	2
						650	24
II Semester = 3 Hard core and 1+4 soft core paper and 1 open elective							
PH 541.2	Advanced Inorganic Chemistry	4	3	30	70	100	4
PH 542.2	Advanced Organic Chemistry	4	3	30	70	100	4
PH 543.2	Advanced Physical Chemistry	4	3	30	70	100	4
PS 544.2	Molecular Symmetry and Molecular Spectroscopy Or	3	3	30	70	100	3
PS 545.2	Chemistry of Biomolecules						
PS 546.2P	Inorganic Chemistry Practical – II	4	4	15	35	50	2
PS 547.2P	Organic Chemistry Practical – II	4	4	15	35	50	2
PS 548.2P	Physical Chemistry Practical – II	4	4	15	35	50	2
PO 549.2	Analytical Techniques	3	3	30	70	100	3
						650	24

M.Sc. Analytical Chemistry							
III Semester = 2 Hard core and 1+5 soft core paper and 1 open elective							
Code	Papers	Instruction Hours/Week	Duration of Exam	Marks		Total	Credits
				IA	End Semester		
PH 541.3	Organometallic, Bioinorganic and Coordination Chemistry	4	3	30	70	100	4
PH 542.3	Electroanalytical Radiochemical and Thermoanalytical Techniques	4	3	30	70	100	4
PS 543.3	Molecular Spectroscopy or	3	3	30	70	100	3
PS 544.3	Medicinal Chemistry						
PS 545.3P	Computers for Chemists - Practicals	4	4	15	35	50	2
PS 546.3P	Analytical Chemistry Practicals- I	4	4	15	35	50	2
PS 547.3P	Analytical Chemistry Practicals- II	4	4	15	35	50	2
PS 548.3P	Analytical Chemistry Practicals- III	4	4	15	35	50	2
PO 549.3	Optical Methods of Analysis	3	3	30	70	100	3
						600	22
IV Semester = 4 Hard core and 1+3 soft core paper							
PH 541.4	Organic Synthetic Methods	4	3	30	70	100	4
PH 542.4	Spectroscopic Methods of Analysis	4	3	30	70	100	4
PH 543.4	Chemistry of Polymers and Natural Products	4	3	30	70	100	4
PS 544.4P	Analytical Chemistry Practical- IV	4	4	15	35	50	2
PS 545.4P	Analytical Chemistry Practical- V	4	4	15	35	50	2
PH 546.4	Project Work	6	6	30	70	100	3
PS 547.4	Applied Analysis and Automation	3	3	30	70	100	3
	OR						
PS 548.4	Radiation and Photochemistry						
	Total					600	22
	Grand Total						92

NOTE: The First, Second and Third Semesters of the course involve theory and practical, while the IV Semester involves theory, practical and project work. The project work shall be carried out