

ST ALOYSIUS COLLEGE
(AUTONOMOUS)
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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. Chemistry** under Choice Based Credit System.

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

Agenda No: 20 (1) (2021-22)

2. Office Notification dated 12-08-2021

Pursuant to the above, the Syllabus of **M.Sc. 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. 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 581.1	Inorganic Chemistry	4	3	30	70	100	4
PH 582.1	Organic Chemistry	4	3	30	70	100	4
PH 583.1	Physical Chemistry	4	3	30	70	100	4
PS 584.1	Principles of Analytical Chemistry & Separation Techniques or	3	3	30	70	100	3
PS 585.1	Bioorganic Chemistry						
PS 586.1	Research Methodology	3	3	30	70	100	3
PS 587.1P	Inorganic Chemistry - Practicals – I	4	4	15	35	50	2
PS 588.1P	Organic Chemistry Practical – I	4	4	15	35	50	2
PS 589.1P	Physical Chemistry Practical – I	4	4	15	35	50	2
						650	24
II Semester = 3 Hard core and 1+4 soft core paper and open elective 1 paper							
PH 581.2	Advanced Inorganic Chemistry	4	3	30	70	100	4
PH 582.2	Advanced Organic Chemistry	4	3	30	70	100	4
PH 583.2	Advanced Physical Chemistry	4	3	30	70	100	4
PS 584.2	Molecular Symmetry and Molecular Spectroscopy Or	3	3	30	70	100	3
PS 585.2	Chemistry of Biomolecules						
PS 586.2P	Inorganic Chemistry Practical – II	4	4	15	35	50	2
PS 587.2P	Organic Chemistry Practical – II	4	4	15	35	50	2
PS 588.2P	Physical Chemistry Practical – II	4	4	15	35	50	2
PO 589.2	Spectral Methods Of Analysis	3	3	30	70	100	3
						650	24

M.Sc. Chemistry							
III Semester = 2 Hard core and 1+4 soft core paper open elective 1 paper							
Code	Papers	Hours/ Week	Duration of Exam	Marks		Total	Credits
				IA	End Semester		
PH 581.3	Organometallic, Bioinorganic and Coordination Chemistry	4	3	30	70	100	4
PH 582.3	Electrochemistry and Thermoanalytical Methods	4	3	30	70	100	4
PS 583.3	Molecular Spectroscopy or	3	3	30	70	100	3
PS 584.3	Medicinal Chemistry						
PS 585.3P	Computers for Chemists - Practicals	4	4	15	35	50	2
PS 586.3P	Inorganic Chemistry Practicals- III	4	4	15	35	50	2
PS 587.3P	Organic Chemistry Practicals- III	4	4	15	35	50	2
PS 588.3P	Physical Chemistry Practicals- III	4	4	15	35	50	2
PO 589.3	Bio-Inorganic Chemistry, Green Chemistry And Environmental Chemistry	3	3	30	70	100	3
						600	22
IV Semester = 2 Hard core and 1+4 soft core paper open elective 1 paper							
PH 581.4	Organic Synthetic Methods	4	3	30	70	100	4
PH 582.4	Radiation and Photochemistry	4	3	30	70	100	4
PH 583.4	Chemistry of Polymers and Natural Products	4	3	30	70	100	4
PS 584.4P	Organic Chemistry Practicals - IV	4	4	15	35	50	2
PS 585.4P	Inorganic Chemistry Practicals - IV	4	4	15	35	50	2
PH 586.4	Project Work	6	6	30	70	100	3
PS 587.4	Solid State and Nano Chemistry Or	3	3	30	70	100	3
	OR						
PS 588.4	Optical Methods of Analysis						
	Total					600	22
	Grand Total						92