



Nallamuthu Gounder Mahalingam College

(An Autonomous Institution, Affiliated to Bharathiar University)

90, Palghat Road, Pollachi -642001, Coimbatore, Tamil Nadu, India.

95th Rank in NIRF –2023 - Among Colleges in India.



Laboratory Teaching

(2018-2019 To 2022-2023)

(Sample)

Laboratory courses offer hands-on experiences that reinforce theoretical concepts taught in lectures. This experiential learning deepens understanding and retention of subject matter. To get the practical exposure, the laboratory teaching is inducted in the syllabus.

S.No	Name of the Programme	Page No
1	B.Sc. (Zoology)	2
2	M.Sc. (Chemistry)	5
3	B.Sc. (Computer Technology)	8
4	B.Sc. (Computer Science)	11
5	B.Com (Banking & Insurance)	14



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B.Sc. (Zoology) Laboratory Courses in Curriculum -2021-2022

SEMESTER – III										
Part	Subject Code	Title of the Paper	Hrs / Week			Exam Hrs.	Maximum Marks		Total Marks	Credits
			L	P	T		Internal	External		
I	21UTL303 /	Tamil Paper - III /	5	-	-	3	50	50	100	3
	21UHN303	Hindi Paper - III/								
	/ 21UFR303	French Paper – III								
II	21UEN303	Communication Skills - III (Level I)	6	-	-	3	50	50	100	3
	21UEN304	Communication Skills - III (Level II)								
III	21UZY304	Core - III:Cell Biology	6	-	-	3	50	50	100	5
		Core –Lab II: Cell biology & Genetics (Non-Semester Pattern)	-	3	-	-	-	-	-	-
	21UZY3A4	Allied - III :Ancillary Chemistry (offered by Department of Chemistry)	6	-	-	3	50	50	100	4
		Allied Lab - II : Chemistry(offered by Department of Chemistry)	-	2	-	-	-	-	-	-
IV	21UZY3N1 /	Non Major Elective - I : Public Health and Hygiene/ Non Major Elective - I : Ornamental Fish Culture	1	-	-	2	-	50	50	2
	21UZY3N2									
	21HEC303	Human Excellence - Professional Values & Ethics – III	1	-	-	2	25	25	50	1
V		Extension Activities - Annexure I	-	-	-	-	-	-	-	-
CC	21CFE303	Fluency in English-III	-	-	-	-	-	-	-	-
	21CMM302	Manaiyiyal Mahathuvam-II	1	-	-	2	-	50	50	Grade
	21 CUB302	Uzhavu Bharatham-II	1	-	-	2	-	50	50	Grade
Total									500	18



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SEMESTER – IV											
Part	Subject Code	Title of the Paper	Hrs / Week			Hrs / Sem.	Exam Hrs.	Maximum Marks		Total Marks	Credits
			L	P	T			Internal	External		
I	21UTL404 / 21UHN404 / 21UFR404	Tamil Paper - IV / Hindi Paper - IV/ French Paper – IV	5	-	-	3	50	50	100	3	
	II	21UEN403	Communication Skills - IV (Level I)	6	-	-	3	50	50	100	3
		21UEN404	Communication Skills - IV (Level II)	-	-	-	-	-	-	-	-
III	21UZY405	Core - IV :Genetics	6	-	6	3	50	50	100	5	
	21UZY406	Core Lab - II : Cell biology & Genetics (Non-Semester Pattern)	-	3	-	3	50	50	100	4	
	21UZY4A5	Allied - IV :Ancillary chemistry Paper II(offered by Department of Chemistry)	6	-	-	3	50	50	100	4	
	21UZY4A6	Allied Lab-II:Chemistry (offered by Department of Chemistry)	-	2	-	3	50	50	100	2	
IV	21UZY4N3/ 21UZY4N4	Non Major Elective - II :Food and Nutrition / Non Major Elective - II : Apiculture	1	-	-	2	-	50	50	2	
	21HEC404	Human Excellence - Social Values & SKY Yoga Practice – IV	1	-	-	2	25	25	50	1	
V		Extension Activities - Annexure I	-	-	-	-	-	50	50	1	
CC	21CFE 404	Fluency in English-IV	-	-	-	-	-	-	-	-	
	21CMM403	Manaiyiyal Mahathuvam-III	1	-	-	2	-	50	50	Grade	
	21 CUB403	Uzhavu Bharatham-III	1	-	-	2	-	50	50	Grade	
Total									750	25	



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NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

DEPARTMENT OF ZOOLOGY

2.3.1.LABORATORY EXERCISES





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M. Sc (Chemistry) Laboratory Courses in Curriculum -2022-2023

SCHEME OF SYLLABUS & EXAMINATION



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE

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Accredited by NAAC, An ISO 9001:2015 Certified Institution



SEMESTER - I

Semester	Subject Code	Title of the Paper	Hrs / Week		Hrs / Sem.	Exam Hrs.	Maximum Marks		Total Marks	Credits
			L	P			T	Internal		
I	22PCY101	Inorganic Chemistry –I- Solid State and Nuclear Chemistry	5	--	75	3	50	50	100	4
	22PCY102	Organic Chemistry – I- Organic Reaction Mechanisms	5	--	75	3	50	50	100	5
	22PCY103	Physical Chemistry – I- Group Theory and Chemical Kinetics	5	--	75	3	50	50	100	5
	22PCY207	Inorganic Chemistry Practical-I	--	5	75	--	--	--	--	--
	22PCY208	Organic Chemistry Practical-I	--	5	75	--	--	--	--	--
	22PCY209	Physical Chemistry Practical –I	--	5	75	--	--	--	--	--
Total			15	15	450	9	150	150	300	14



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SEMESTER - II

Semester	Subject Code	Title of the Paper	Hrs / Week		Hrs / Sem.	Exam Hrs.	Maximum Marks		Total Marks	Credits
			L	P	T		Internal	External		
II	22PCY204	Inorganic Chemistry –II- Coordination Chemistry	5	--	75	3	50	50	100	4
	22PCY205	Organic Chemistry-II –Organic Reactions and Stereochemistry	5	--	75	3	50	50	100	5
	22PCY206	Physical Chemistry-II – Quantum Chemistry and Nano Chemistry	5	--	75	3	50	50	100	4
	22PCY2E1	*Major Elective –I – Green Chemistry, Research Methodology & Cyber Security	3	--	45	3	50	50	100	3
	22PCY2E2	*Food Science and Technology								
	22PCY2E3	* Advanced Polymeric Materials								
	22PCY2N1	*Non Major Elective Chemistry in day to day life	2		30	3	--	100	100	2
	22PCY207	Inorganic Chemistry Practical –I	--	4	60	6	50	50	100	4
	22PCY208	Organic Chemistry Practical-I	--	3	45	6	50	50	100	4
22PCY209	Physical Chemistry Practical –I	--	3	45	6	50	50	100	4	
Total			20	10	450	33	350	450	800	30



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Laboratory Teaching



Laboratory Experiment by Students of PG Department of Chemistry



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B.Sc. (Computer Technology) Laboratory Courses in Curriculum -2022-2023

Nallamuthu Gounder Mahalingam College - Curriculum Development Cell										
Scheme of Examination For 2022 - 2025										
Choice Based Credit System & OBES										
For Part I and Part II In First & Second Semesters Only										
SEMESTER - I										
Part	Subject Code	Title of the Paper	Hrs / Week			Exam Hrs.	Maximum Marks		Total Marks	Credits
			L	P	T		Internal	External		
I	22UTL101 / 22UHN101 / 22UFR101	Tamil Paper - I / Hindi Paper - I / French Paper - I	6	-	-	3	50	50	100	3
	22UEN101	Communication Skills - I (Level I)	5	-	-	3	50	50	100	3
	22UEN102	Communication Skills - I (Level II)	5	-	-	3	50	50	100	3
III	22UCT101	CORE - I : Programming in C	4	-	-	3	50	50	100	4
	22UCT102	CORE II: Digital Fundamentals and Computer Organization	4	-	-	3	50	50	100	4
	22UCT1A1	ALLIED I: Mathematics - I: Mathematical Structures For Computer Science	5	-	-	3	50	50	100	4
	22UCT103	CORE LAB - I : Programming in C	-	4	0	3	25	25	50	2
IV	22UHR101	Human Rights	1	-	-	2	-	50	50	2
	22HEC101	Human Excellence - Personal Values & SKY Yoga Practice - I	1	-	-	2	25	25	50	1
V		Extension Activities - Annexure I	-	-	-	-	-	-	-	-
EC	22CFE101	Fluency in English - I	-	-	-	-	-	-	-	-
		Online Course (Optional) (MOOC / NPTEL / SWAYAM)								Grade
Total			26	4	0	22	300	350	650	23



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SEMESTER – II											
Part	Subject Code	Title of the Paper	Hrs / Week		Hrs / Seat		Exam Hrs.	Maximum Marks		Total Marks	Credits
			L	P	T	Internal		External			
I	221ITL202 / 221HIN202 / 221FR202	Tamil Paper - II / Hindi Paper - II / French Paper - II	6	-	-	3	50	50	100	3	
	22UEN202	Communication Skills - II (Level I)	5	-	-	3	50	50	100	3	
	22UEN203	Communication Skills - II (Level II)	5	-	-	3	50	50	100	3	
III	22UCT204	CORE III: Java programming	4	-	-	3	50	50	100	4	
	22UCT205	Core - IV :Data Structures	4	-	-	3	50	50	100	4	
	22UCT2A2	Allied - II : Mathematics II – Operations Research	4	-	-	3	50	50	100	4	
	22UCT206	Core Lab - II : Java programming Lab	-	4	-	3	25	25	50	2	
IV	22EVS201	Environmental Studies	2	-	-	2	-	50	50	2	
	22HEC202	Human Excellence - Family Values & SKY Yoga Practice - II	1	-	-	2	25	25	50	1	
V		Extension Activities - Annexure I	-	-	-	-	-	-	-	-	
EC	22CFE202	Fluency in English – II	-	-	-	-	-	-	-	-	
	22CMM201	Manniyal Mahabuvam - I	1	-	-	2	-	50	50*	Grade	
	22CUB201	Uzhavu Bharatham – I	1	-	-	2	-	50	50*	Grade	
		Online Course (Optional) (MOOC / NPTEL / SWAYAM)									Grade
Total			26	4	-	26	300	350	650	23	



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Laboratory Teaching and Experiential Learning by Students of Computer Technology Department



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B.Sc. (Computer Science) Laboratory Courses in Curriculum -2022-2023

B.Sc Computer Science

Effective from the year 2022 onwards

**B.Sc. – COMPUTER SCIENCE DEGREE COURSE
(FOR THE CANDIDATES ADMITTED FROM THE ACADEMIC YEAR 2022 ONWARDS)
I to VI SEMESTERS: SCHEME OF EXAMINATIONS**

Part	Course Code	COURSE NAME	Hrs/Week		Exam Hrs	MAX.MARKS			Credits	
			T	P		CIA	ESE	Total		
<u>I SEMESTER</u>										
I	22UTL101/ 22UHN101/ 22UFR101	Tamil Paper-I/ Hindi Paper-I/ French Paper-I	6		3	50	50	100	3	
	II	22UEN101	English Paper-I	5		3	50	50	100	3
	III	22UCS101	Core I: C Programming	4		3	50	50	100	4
22UCS102		Core II: Digital Computer fundamentals and organization	4		3	50	50	100	4	
22UCS1A1/ 22UCS1A2		Allied-I: Mathematics (Statistical Methods & Linear Algebra) / Allied-I: Advanced Mathematics and applied Statistics	4		3	50	50	100	4	
22UCS103		Core Lab I: Programming Lab in C	5		3	25	25	50	2	
IV	22HEC101	Human Excellence: Personal Values & SKY Yoga Practice-I		1	2	25	25	50	1	
	22UHR101	Human Rights in India	1		2	-	50	50	2	
V		Extension Activities (NSS, NCC, Sports & Games, etc.)	-	-	-	-	-	-	-	
EC	22CFE101	Communicative English (Fluency) – I	-	-	-	-	-	-	-	
		Online Course (Optional) (MOOC / NPTEL/SWAYAM)	-	-	-	-	-	-	Grade	
Total			30					650	23	



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B.Sc Computer Science

Effective from the year 2022 onwards

II SEMESTER									
Part	Course Code	COURSE NAME	Hrs/Week		Exam Hrs	MAX.MARKS			Credits
			T	P		CIA	ESE	Total	
I	22UTL202/ 22UHN202/ 22UFR202	Tamil Paper-II/ Hindi Paper-II/French Paper-II	6		3	50	50	100	3
II	22UEN202	English Paper – II	5		3	50	50	100	3
III	22UCS204	Core III: C++ Programming	4		3	50	50	100	3
	22UCS205	Core IV: Data and File Structure	4		3	50	50	100	4
	22UCS2A1/ 22UCS2A2	Allied -2:Discrete Mathematics Level-I / Allied-2:Discrete Mathematical Structure Level-II	4		3	50	50	100	4
	22UCS206	Core Lab II: Programming Lab in C++		4	3	25	25	50	2
IV	22HEC202	Human Excellence: Family Values& SKY Yoga Practice-II		1	2	25	25	50	1
	22EVS201	Environmental Studies	2		2	-	50	50	2
V		Extension Activities (NSS, NCC, Sports & Games, etc..)	-	-	-	-	-	-	-
EC	22CFE202	Communicative English (Fluency) – II	-	-	-	-	-	-	-
	22CMM201	Manaiyyal Mahathavam-I	1	-	2	-	50	50	Grade
	22CUB201	Uzhavu Bharatham – I	1	-	2	-	50	50	Grade
		Online Course (Optional) (MOOC / NPTEL / SWAYAM)	-	-	-	-	-	-	-
Total			30					650	22



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Laboratory Teaching and Learning by Department of Computer Science



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B.Com (Banking & Insurance) Laboratory Courses in Curriculum -2022-2023

SEMESTER – III										
Part	Subject Code	Title of the Paper	Hrs / Week		Hrs / Sem.	Exam Hrs.	Maximum Marks		Total Marks	Credits
			L	P	T		Internal	External		
III	21UBI305	CORE V: Corporate Accounting	6	-	5	3	50	50	100	4
	21UBI306	CORE VI: Executive Business Communication	5	-	5	3	50	50	100	4
	21UBI307	CORE VII: Principles of Life Insurance	6	-	-	3	50	50	100	4
	21UBI308	CORE VIII: Business Law	5	-	-	3	50	50	100	4
	21UBI3A3	ALLIED III: Business Application Software and Information Security	4	-	-	3	50	50	100	3
	21UBI3A4	ALLIED LAB I :Programming Laboratory in MS Office	-	2	-	3	25	25	50	1
IV	21UBI3N1 / 21UBI3N2	Non Major Elective - I : Fundamentals of Insurance / Non Major Elective - I : Fundamentals of Banking	1	-	-	2	-	50	50	2
	21HEC303	Human Excellence - Professional Values & Ethics - III	1	-	-	2	25	25	50	1
V		Extension Activities - Annexure I	-	-	-	-	-	-	-	-
CC	21CFE303	Fluency in English - III	-	-	-	-	-	-	-	-
	21CMM302	Manaiyiyal Mahathuvam - II	1*	-	-	2	-	(50)	(50)	Grade
	21CUB302	Uzhavu Bharatham – II	1*	-	-	2	-	(50)	(50)	Grade
Total			28	2	-	-	300	350	650	23

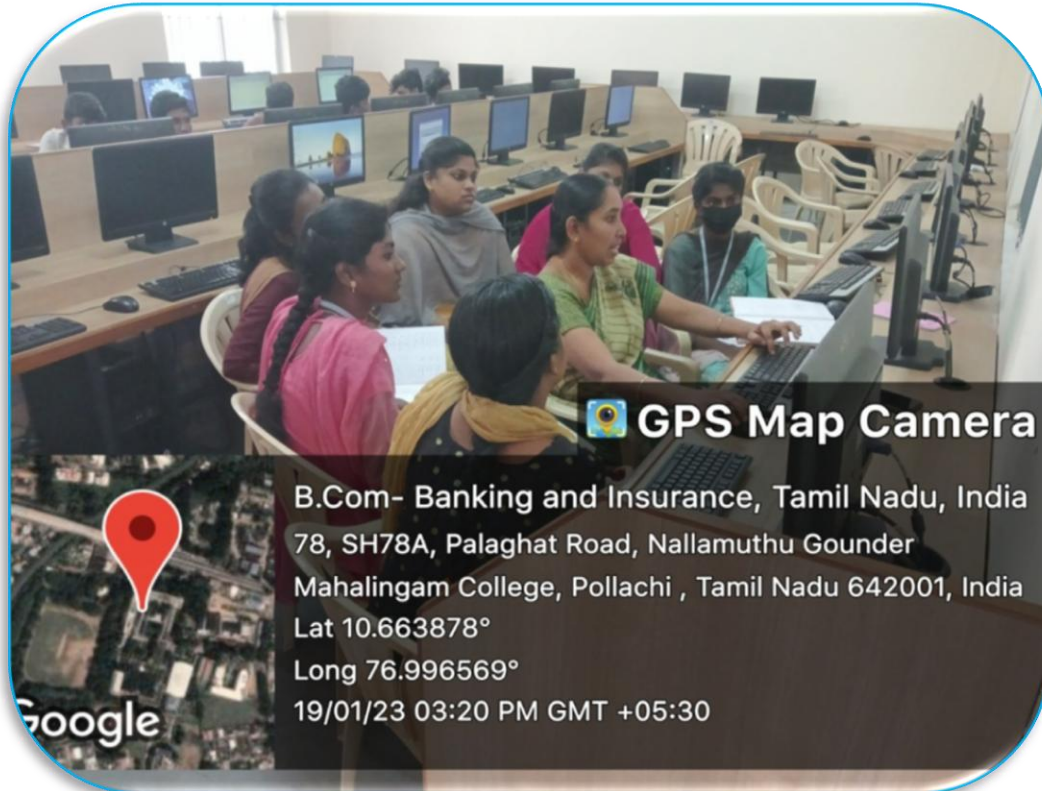


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Laboratory Teaching and Demonstration by Department of Commerce (Banking and Insurance)