



Velumanoharan Arts and Science College for Women

Empowering Women for Change

(An Educational initiative under Velumanoharan Health & Education Trust)

(Affiliated to Alagappa University, Karaikudi)

Marapalam, Peravoor post, Ramanathapuram District

DEPARTMENT OF CHEMISTRY

ANNUAL REPORT -2023-2024

Introduction

The Department of Chemistry was established in 2019. It offers an undergraduate program in Chemistry and has fully utilized its resources to enhance the quality of education. The primary goal of the Department is to prepare students to excel in Chemical education and to equip them to face the challenges of the world with confidence and credibility.

During the academic year 2023-2024, the Department has seen growth across all three years, with a total of 58 students (Third Year - 14; Second Year - 25; First Year - 19)

Scope

- ❖ The course helps the students in improving their diverse skills in various areas such as laboratory skills, numerical and computing skills, ability to approach to the problems both analytically and logically, time management skills, etc.
- ❖ Graduates from this course will be better prepared to understand the new environment friendly system and can understand the processes that the chemical industry is adopting.
- ❖ The B.Sc. Chemistry graduates have many options for their higher studies. After doing B.Sc. one can go for M.Sc.in chemistry or take various jobs and also take up internships.

Employment areas include pharmaceutical industries, Chemical manufacturers, Forensic Science Department, Plastic Industries, Agrochemical Industries ,Health& Care Industry ,Cosmetics &Perfume Industry etc

Facilities

An effective classroom design is crucial for creating an optimal learning environment. Our Chemistry classroom is meticulously designed to cover every angle, providing students with a dynamic space that encourages exploration and learning. It offers room to breathe and space to explore, fostering a fantastic learning atmosphere.

To further enrich the learning experience, we have a spacious and well-equipped laboratory. This enables the smooth conduct of qualitative and quantitative experiments, allowing students to gain practical, hands-on experience.

In addition, our department is supported by a substantial collection of the latest textbooks and reference books from the Central Library. These resources are available to all students and faculty members, providing valuable support and facilitating teaching and learning activities.

Department Faculty

Dr.A.GIRIJA.,M.Sc.,M.Phil.,Ph.D.,

Head-Department of Chemistry (29/05/2019 onwards)



Dr. A. Girija boasts 18 years of teaching experience, demonstrating a deep commitment to her profession. She has contributed to academia by publishing research articles in both National and International Journals. Dr. A. Girija is an active participant in academic discourse, having presented papers and attended numerous Conferences, Symposiums, and Seminars. Additionally, she has guided M.Sc. & M.Phil Projects, showcasing her dedication to mentoring and developing students. Dr. A. Girija is known as a positive educator, focused on nurturing and empowering her students.

Ms.S.PRIYAM.Sc.,M.Phil.,

Assistant Professor, Department of Chemistry.

(04/10/2021- 23/12/2023)



She is a qualified lecturer with 3 years of experience in teaching. She published research articles in international journals. She has participated and presented papers in many state level seminars. Her field of interest is nano chemistry. She facilitates and encourages the students with the opportunity to achieve their individual potential.

Ms.R.SATHANASRI M.Sc.,B.ED.

Assistant Professor, Department Of Chemistry(12/12/2022 onwards)



She is a qualified lecturer with an MSc degree in Chemistry. She achieved a University Rank in her undergraduate degree. Her primary fields of interest are Inorganic Chemistry and Industrial Chemistry. She aspires to be a positive educator and a motivating individual.

MS.G.YOGADHARSHINI M.Sc.,B.ED.

Assistant Professor, Department Of Chemistry(01/09/2023 onwards)



She possesses qualifications as a lecturer and has a background in teaching, focusing on Industrial chemistry. She actively facilitates students and empowers them with opportunities to realize their unique potential

Academic Profile

The Bachelor of Science in Chemistry curriculum, designed to follow the guidelines and recommendations set forth by Alagappa University, Karaikudi. During the Academic year 2023-2024 all the three years followed three different regulations.i.e 2017Regulation for III Year,2022 Regulation for II Year and 2023 Regulation (TANSCH) for I Year.

B.Sc. CHEMISTRY-PROGRAMME STRUCTURE(2021-2024 Batch)

Sem	Part	Course Code	Title of the Course	Cr.	Hrs./ Week	Marks		Total
						Int.	Ext.	
I	I	711T	Tamil/other languages – I	3	6	25	75	100
	II	712E	English – I	3	6	25	75	100
	III	7BCH1C1	Core-I-Fundamentals of Chemistry	4	6	25	75	100
		7BCH1P1	Core – II – Inorganic and organic Volumetric Analysis Practical – I	4	6	40	60	100
		-----	Allied – I – (Theory only) (or)	5	5	25	75	100
			Allied – I – (Theory cum Practical)	4	3	15	60	75
			Allied Practical – I	-	2**	--	--	---
	IV	7NME1A / 7NME1B / 7NME1C	(1) Non-Major Elective – I (A) jkpo;nkhopapd; mbg;gilfs;/ (B) ,f;fhyyf;fpak; / (C) Communicative English	2	1	25	75	100
			Total(Allied – Theory only)	21	30	-	-	600
			Total(Allied-Theory cum Practical)	20				575
II	I	721T	Tamil/other languages – II	3	6	25	75	100
	II	722E	English – II	3	6	25	75	100
	III	7BCH2C1	Core –III– Physical Chemistry –I	4	5	25	75	100
		7BCH2C2	Core – IV – Inorganic Chemistry–I	4	6	25	75	100
			Allied – II – (Theory only) (or)	5	5	25	75	100
			Allied– II – (Theory cum Practical)	4	3	15	60	75
			Allied Practical – I	2	2	20	30	50
	IV	7BES2	(3) Environmental Studies	2	2	25	75	100
			Total(Allied – Theory only)	21	30	-	-	600
			Total(Allied-Theory cum Practical)	22				625
III	I	731T	Tamil /other languages – III	3	6	25	75	100
	II	732E	English – III	3	6	25	75	100
		7BCH3C1	Core – V –Organic Chemistry – I	4	5	25	75	100
	III	7BCH3P1	Core – VI – Inorganic and organic Qualitative Analysis Practical – II	4	5	40	60	100
			Allied – III – (Theory only) (or)	5	5	25	75	100
			Allied– III –(Theory cum Practical)	4	3	15	60	75
			Allied Practical – I	-	2**	--	--	---
	IV	7NME3A/ 7NME3B/ 7NME3C	(1) Non-major Elective – II –(A),yf;fpaKk; nkhopg;gad;ghLk;/ (B)goe;jkpo; ,yf;fpaq;fSk; ,yf;fpatuyhWk;/ (C)Employability Skills	2	1	25	75	100
			(2) Skill Based Subjects – I	2	2	25	75	100

	V	7BEA3	Extension activities	1	--	100	--	100
			Total(Allied – Theory only)	24	30	-	-	800
			Total(Allied-Theory cum Practical)	23				775
IV	I	741T	Tamil /other languages – IV	3	6	25	75	100
	II	742E	English – IV	3	6	25	75	100
	III	7BCH4C1	Core– VII– Physical Chemistry– II	4	4	25	75	100
		7BCH4C2	Core–VIII–Inorganic Chemistry–II	4	5	25	75	100
			Allied – IV – (Theory only) (or)	5	5	25	75	100
			Allied– IV –(Theory cum Practical)	4	3	15	60	75
			Allied Practical – I	2	2	20	30	50
	IV	7SBS4B1/ 7SBS4B2/ 7SBS4B3	(2) Skill Based Subjects – II	2	2	25	75	100
7BVE4/ 7BMY4/ 7BWS4		(4) Value Education /Manavalakalai Yoga /Women’s Studies	2	2	25	75	100	
			Total(Allied – Theory only)	23	30	-	-	700
			Total(Allied-Theory cum Practical)	24				725
V	III	7BCH5C1	Core –IX–Organic Chemistry– II	4	5	25	75	100
		7BCH5C2	Core–X – Physical Chemistry–III	4	5	25	75	100
		7BCH5P1	Core–XI–Gravimetric Estimation and Organic Preparation Practical-III	4	4	40	60	100
		7BCH6P1	Core–XII–Physical Chemistry–Practical–IV	-	2*	--	--	---
		7BCHE1A/ 7BCHE1B	Elective–I–A)Analytical Chemistry (or) B)Agricultural Chemistry	5	5	25	75	100
		7BCHE2A/ 7BCHE2B	Elective–II–A)Industrial Chemistry (or) B)Medicinal Chemistry	5	5	25	75	100
		IV	7SBS5A4/ 7SBS5A5/ 7SBS5A6/ 7SBS5A7	(2) Skill Based Subjects – I	2	2	25	75
			(2) Skill Based Subjects – I	2	2	25	75	100
				Total	26	30	-	-
VI	III	7BCH6P1	Core–XII–Physical Chemistry –Practical – IV	4	4	40	60	100
		7BCH6C1	Core–XIII–Inorganic Chemistry–III	4	6	25	75	100
		7BCH6C2	Core–XIV–Organic Chemistry-III	4	6	25	75	100
		7BCH6P2	Core–XV–Applied Chemistry Practical – V	4	5	40	60	100
		7BCHE3A/ 7BCHE3B/ 7BCHEPR	Elective–III–A)Polymer Chemistry (or) B)Material Chemistry & Nano-Science (or) C)Project*	5	5	25	75	100
						40*	60*	
	IV	7SBS6B4/ 7SBS6B5/ 7SBS6B6 7SBS6B7	(2) Skill Based Subjects – II	2	2	25	75	100
			(2) Skill Based Subjects – II	2	2	25	75	100
Total				25	30	-	-	700
Grand Total				140	180	-	-	4100

B.Sc. CHEMISTRY-PROGRAMME STRUCTURE(2022-2025 Batch)

Sem.	Part	Course Code	T/OL/E/CC/AL/SEC	Title of the Paper	T/P	Credit	Hours/Week	Max. Marks		
								Int.	Ext.	Total
I	I	2211T	T/OL	Tamil/Other Languages-I	T	3	6	25	75	100
	II	712CE	E	Communicative English -I	T	3	6	25	75	100
	I I I	22BCH1C1	CC	Physical Chemistry - I	T	5	5	25	75	100
		22BCH1P1	CC	Inorganic Volumetric Analysis Practical-I	P	4	4	40	60	100
		-	AL-IA	Physics/ Maths/ Zoology/ Botany	T	3	3	25	75	100
		-	AL-IA	Practical-Respective Allied Theory Course	P	2	2	40	60	100
	IV	22BVE1	SEC -I	Value Education	T	2	2	25	75	100
				Library			2			
				Total		22	30	205	495	700
I I	I	2221T	T/OL	Tamil/Other Languages-II	T	3	6	25	7	100
	II	722CE	E	Communicative English - II	T	3	6	25	7	100
	I I I	22BCH2C1	CC	Inorganic Chemistry –I	T	5	5	25	7	100
		22BCH2P1	CC	Inorganic Qualitative Analysis Practical-II	P	4	4	40	6	100
		-	AL-IB	Physics/ Maths/ Zoology/ Botany	T	3	3	25	7	100
		-	AL-IB	Practical-Respective Allied Theory Course	P	2	2	40	6	100
	IV	22BES2	SEC-II	Environmental Studies	T	2	2	25	7	100
				Library			2			
				Total		22	30	205	495	700
III	I	2231T	T/OL	Tamil/Other Languages-III	T	3	6	25	75	100
	II	2232E	E	English for Enrichment– I	T	3	6	25	7	100
	I I I	22BCH3C1	CC	Physical Chemistry–II	T	3	3	25	7	100
		22BCH3C2	CC	Organic Chemistry –I	T	3	3	25	7	100
		22BCH3P1	CC	Organic Estimation Practical– III	P	3	3	40	6	100
		-	AL-IIA	Maths	T	3	3	25	7	100
		-	AL-IIA	MathsPractical-	P	2	2	40	6	100

	I V	22BE3	SEC-III	Entrepreneurship	T	2	2	2 5	7 5	100
		-	NME-II	IT Skills for Employment/ MOOC'S	T	2	2	2 5	7 5	100
				Total		24	3 0	255	64 5	900
IV	I	22411T	T/OL	Tamil/Other Languages -IV	T	3	6	2 5	7 5	100
	II	2242E	E	English for Enrichment– II	T	3	6	2 5	7 5	100
	I I I	22BCH4C 1	CC	Organic Chemistry –II	T	4	4	2 5	7 5	100
		22BCH4C 2	CC	Inorganic Chemistry – II	T	4	4	2 5	7 5	100
		22BCH4P 1	CC	Organic Analysis Practical – IV	P	3	3	4 0	6 0	100
		-	AI-IIB	Maths	T	3	3	2 5	7 5	100
		-	AL-II B	MathsPractical-	P	2	2	4 0	6 0	100
		-	NME-II	Small Business Management	T	2	2	2 5	7 5	100
	IV	-								
				Total		24	3 0	230	57 0	800

As per TANSCH, the Professional English book need to be taught with additional hours of teaching (1hour/day) as a 4 creditpaper as an add on course on par with Major paper and completion of the paper is a must to continue her studies further.

Se m.	Part	Course Code	Title ofthePaper	Cr.	Hrs ./W eek	Max. Marks		
						Int.	Ext.	Total
I	III	71BEPP	Professional English for Physical Science-I	4	5	25	75	100
II		72BEPP	Professional English for Physical Science-II	4	5	25	75	100

B.Sc. CHEMISTRY-PROGRAMME STRUCTURE(2023-2026 Batch)

Sem.	Part	Course Code	Course Code	Title of the Paper	T/P	Credit	Hours/ Week	Max. Marks		
								Int.	Ext.	Total
I	I	2311T	T/OL	தமிழ் இலக்கிய வரலாறு-I /Other Languages-I	T	3	6	25	75	100
	II	2312E	E	General English-I	T	3	6	25	75	100
	III	23BCH1C1	CC1	General Chemistry-I	T	5	5	25	75	100
		23BCH1P1	CC2	Practical-I-Quantitative Inorganic Estimation and Inorganic Preparation	P	3	4	25	75	100
		-	Generic Elective (Allied)	Mathematics/Botany/ Zoology	T	3	3	25	75	100
		-		Practical-IA-Respective Allied Theory	P	2	2	25	75	100
	IV	23BCH1S1/ 23BCH1S2	SEC	Food Chemistry or Role of Chemistry In Daily Life	T	2	2	25	75	100
		23BCH1FC	FC	Foundation of Course for Chemistry	T	2	2	25	75	100
				TOTAL	-	23	30	200	600	800
II	I	2321T	T/OL	தமிழ் இலக்கிய வரலாறு -2/Other Languages-II	T	3	6	25	75	100
	II	2322E	E	General English -II	T	3	6	25	75	100
	III	23BCH2C1	CC-3	General Chemistry-II	T	5	5	25	75	100
		23BCH2P1	CC -4	Practical-II- Qualitative Organic Analysis & Preparation of Organic compounds	P	3	4	25	75	100
		--	Allied	Theory- IB Maths(or) Botany/Zoology	T	3	3	25	75	100
		--	Allied	Practical-IB-Respective Allied Theory Course	P	2	2	25	75	100
	IV	23BCH2S1	SEC-2	Dairy Chemistry	T	2	2	25	75	100
		23BCH2S2	SEC-3	Cosmetics and Personal Grooming.	T	2	2	25	75	100
				Total		23	30	200	600	800
III	I	2331T	T/OL	தமிழ் கவரலாறு GD/Other Languages-III	T	3	6	25	75	100
	II	2332E	E	General English-III	T	3	6	25	75	100
	III	23BCH3C1	CC-5	General Chemistry-III	T	5	6	25	75	100
		23BCH3P1	CC-6	Practical-III- Qualitative Inorganic Analysis	P	3	4	25	75	100
		--	Allied	Theory- Physics EC-3	T	3	3	25	75	100
		--	Allied	Allied Practical	P	2	2	25	75	100
	IV	23BCH3SP	SEC-4	Entrepreneurial Skills in Chemistry	P	2	2	25	75	100
		233AT/ 23BCH3S1	SEC-5	Adipadai Tamil/ Pesticide Chemistry	T	2	2	25	75	100
				Total		22	30	200	600	800

IV	I	2341T	T/OL	தமிழ்/Other Languages-IV	T	3	6	25	75	100
	II	2342E	E	GeneralEnglish-IV	T	3	6	25	75	100
	III	23BCH4C1	CC-7	GeneralChemistry–IV	T	4	4	25	75	100
		23BCH4P1	CC-8	PracticalIV -PhysicalChemistryI	P	3	3	25	75	100
		--	Allied	Theory–Physics	T	3	3	25	75	100
		--	Allied	Practical	P	2	2	25	75	100
	IV	23BCH4S1	SEC-6	InstrumentalmethodsofchemicalA nalysis	T	2	2	25	75	100
		234AT/ 23BCH4S2	SEC-7	AdipadaiTamil/ Forensicscience	T	2	2	25	75	100
		23BES4		EVS	T	2	2	25	75	100
						24	30	225	675	900

V	III	23BCH5C1	CC-9	OrganicChemistry-I	T	4	5	25	75	100
		23BCH5C2	CC-10	Inorganic Chemistry– I	T	4	5	25	75	100
		23BCH5C3	CC-11	PhysicalChemistry– I	T	4	5	25	75	100
		23BCH5E1	DSE-I	Biochemistry	T	3	4	25	75	100
		23BCH5E2	DSE-II	Industrialchemistry	T	3	4	25	75	100
		23BCH5PR	CC-12	Projectwithviva-voce		4	5	25	75	100
	IV	23BVE5		ValueEducation	T	2	2	25	75	100
		23BCH5IV		IndustrialVisit/Field Visit(CarriedoutinIIYearSummerVa cation) (30 hours)		2	-	25	75	100
						26	30	200	600	800
VI	III	23BCH6C1	CC-13	OrganicChemistry-II	T	4	6	25	75	100
		23BCH6C2	CC-14	Inorganic Chemistry– II	T	4	6	25	75	100
		23BCH6C3	CC-15	PhysicalChemistry– II	T	4	6	25	75	100
		23BCH6P1	CC-16	PracticalV-Physical ChemistryII	P	4	5	25	75	100
		23BCH6E1	DSE-III	Fundamentals of Spectroscopy	T	3	5	25	75	100
	IV	23BCH6S1	-	Essential Reasoning and Quantitative Aptitude		2	2	25	75	100
		--		Extension Activity		1	-	-	100	100
				Total		22	30	150	550	700
				Grand Total		140	--	--	-	-

Internal Assessment

- ❖ **Two Continuous Internal Assessment (CIA)** tests and Model exam were conducted in each semester and the results were intimated to the parents through oral communication & PTA Meeting.
- ❖ Parents are requested to follow up the academic performance of their wards and may also discuss with the Students' Mentor. Special coaching classes was conducted regularly for those Students who did not perform well in the internal assessment examinations
- ❖ The passing minimum for CIA was 40% out of 25/15* marks (i.e.10/6* marks) in Theory papers and 40% out of 40/10* marks (i.e. 16/4* marks) in Practical Examinations.

Student Mentoring Cell

Mentoring of students is an essential feature to provide equitable service to all our students having varied background. The mentoring system ensures that the students adapt to the dynamic learning environment and lead their ways into highly successful career.

Objectives

- ❖ To enhance students' academic performance and attendance
- ❖ To promote Faculty-Student relationship
- ❖ To coordinate with the parents regarding the progress of the students
- ❖ To minimize student drop-out rates
- ❖ To ensure the students regularity and Discipline through counseling

In order to resolve day to day academic problems mentors are appointed for a group of 27 from all the three year students. Faculty members of the Department are assigned as Mentors.

The following is the List of Mentor-Mentee followed in the Academic year 2022-2023

S.No	Register Number	Name of the Mentees	Name of Mentor
1	5821124001	Aarthi S	Dr.A.GIRIJA
2	5821124002	Abinaya B	
3	5821124003	Ataikleshwary R	
4	5821124004	Bavani S	
5	5821124005	Indhumathi S	
6	5821124006	Kavitha K	
7	5821124007	Kaviya M	
8	5821124008	Kavyaa J	
9	5821124009	Lavanya S	
10	5821124010	MahaSrinithiP	
11	5821124011	Rajika R	
12	5821124012	Ramya T	
13	5821124014	Samreetha N	
14	5821124015	Seema A	

S.No	Register Number	Name of the Mentees	Name of Mentor
1	5822124001	A Abi	Ms.S.Priya (III Sem)
2	5822124002	T Ariyanatchi	
3	5822124003	R Devadharshini	
4	5822124004	S Faahima	Dr.A.Girija (IV Sem)
5	5822124005	S.Ishwariya	
6	5822124006	M.Ishwarya	
7	5822124007	P Kamali	Ms.Sathana Sri (IV Sem)
8	5822124008	S Karthiga Devi	
9	5822124009	N.Keerthika	
10	5822124010	G.Madhubashini	
11	5822124011	S.Madhumitha	Ms.G.Yogadharshini (IV Sem)
12	5822124012	R.Mahima	
13	5822124013	V.Malini Shree	
14	5822124014	R.NiprasFathima	
15	5822124015	K. Ponnala	

*Ms. S. Priya was relieved from her duties on December 23, 2023, due to her delivery. The remaining students were divided among the remaining three staff members.

S.No	Register Number	Name of the Mentees	Name of Mentor
1	5822124016	M.Ragjana	Ms.R.Sathana Sri
2	5822124017	K.Rajashri	
3	5822124018	D. Rajathi	
4	5822124019	K SahinaBegam	
5	5822124020	K SaravanaPriya	
6	5822124021	G.Sarumathi	
7	5822124022	M.SajinaBegam	
8	5822124023	M.UmaBharathi	
9	5822124024	C.Varshini	
10	5822124025	K. Vijayakala	
11	5823124001	Aarthi A	
12	5823124002	Ahalya A	
13	5823124003	Akalya K	
14	5823124004	Akalya M	

S.No	Register Number	Name of the Mentees	Name of Mentor
1	5823124005	Bagumitha R	Ms.G.Yogadharshini
2	5823124006	Bhuvaneshwari S	
3	5823124007	Durka R	
4	5823124008	Durga Devi T	
5	5823124009	Harini. B	
6	5823124010	JayaSri M	
7	5823124011	Jeevitha Sri M	
8	5823124012	JerinaParveen R	
9	5823124013	Malathi S	
10	5823124014	Praveena M	
11	5823124015	Priyadarzini M	
12	5823124016	Rabiga.G	
13	5823124017	Suhashini G	
14	5823124018	Sivapriya V	

Open and friendly environment between the mentors & mentees motivated the students to groom themselves in all academic, personal and career concerns. The mentors rendered both professional and personal advice to solve the problems of the students. The Mentors met their respective mentees every fortnight and offered counseling to fix the problems they came across.

Academic performance of the students was regularly intimated to the parents through Text messages & Parents-Teachers meets organized by the Department. The result of these cumulative activities was reflected in the End Semester examination.

Result Analysis 2021-2024 (V-Sem)

Subjects	7BCH5C1	7BCH5C2	7BCHE1A	7BCHE2A	7BCH5P1	7SBS5A4	7SBS5A5
Total No Of Students	14	14	14	14	14	14	14
Total No Of Students Attended	14	14	14	14	14	14	14
Total No Of Students Passed	14	14	14	14	14	14	14
Total No Of Students failed	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Pass Percentage	100	100	100	100	100	100	100

All Clear Percentage -100

Result Analysis 2021-2024 (III-Sem)

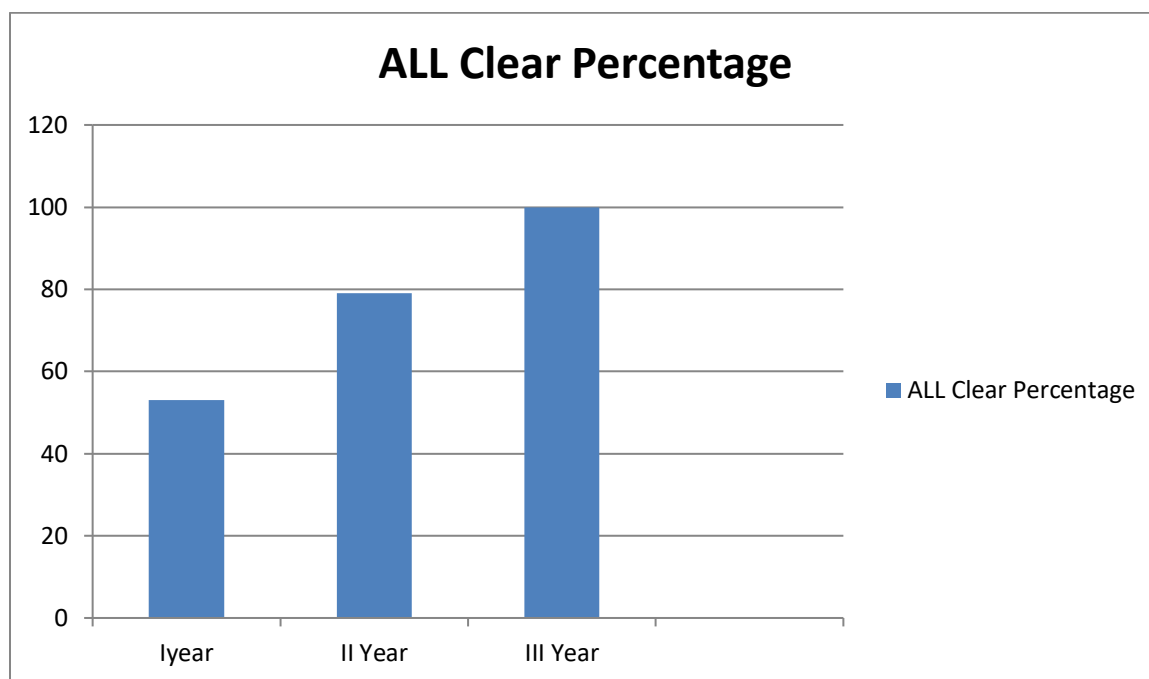
Subjects	2231T	2232E	22BCH3C1	22BCH3C2	22BMAA3	22BCH3P1	22BMAAP 3	22NM3C
Total No Of Students	25	25	25	25	25	25	25	25
Total No Of Students Attended	25	25	25	25	25	25	25	25
Total No Of Students Passed	24	22	24	20	24	25	25	25
Total No Of Students failed	01	03	01	05	01	25	NIL	NIL
Pass Percentage	96	88	96	80	96	NIL	100	100

All clear percentage (19/25)= 76

Result Analysis 2021-2024 (I -Sem)

Subjects	2311T	2312E	23BCH1C1	23BMAA2	23BCH1P1	23BMAAP2	23BCHS1A	23BCH FC
Total No Of Students	20	20	20	19	20	20	20	20
Total No Of Students Attended	19	19	19	19	19	19	19	19
Total No Of Students Passed	18	18	16	14	19	19	19	19
Total No Of Students failed	01	01	03	05	NIL	NIL	NIL	NIL
Pass Percentage	95	95	84	74	100	100	100	100

All Clear Percentage (10/19) – 53



List of Centum Scorers & Staff Handled

S.No	Name of the Student	Month & Year of Examination	Sub.Code & Title	Staff Handled
1.	A AbsanNisha	April-2023	7BCH6C1 Inorganic Chemistry-III	Ms.S.Priya
2.	B Abinaya		7BCH4C1 –Physical Chemistry-II	Dr.A.Girija
3.	S.Madhumitha		22BCH2C1 Inorganiv Chemistry-I	Ms.R.SathanaSri
4.	R Ataiklaleswary	Nov-2023	7BCHE2A Industrial Chemistry	Ms.R.sathanSri & MsG.Yogadharshini
5.	M Kaviya			
6.	J Kavyaa			
7.	R Rajika			
8.	Jannathul Firthouse (II-Phy)	April-2023	7BCHA2-General chemistry-II (Allied Chemistry)	Ms.R.SathanaSri
9.	Mahalakshmi (II Phy)			

List of staff who produced Centum Result

S.No	Name of the Staff	Month & Year Examination	Semester & Batch	Sub Code & Title
1	Dr.A.GIRIJA	April-2023	VI Sem & (2020-2023 Batch)	7BCHE3A & Polymer Chemistry
		Nov-2023	V-Sem & (2021-2024 Batch)	7BCH5C2 & Physical Chemistry-III
2	Ms.S.PRIYA	April-2023	VI Sem & (2020-2023 Batch)	7BCH6C1& Inorganic Chemistry-III
		Nov-2023	V-Sem & (2021-2024 Batch)	7BCH5C1& Organic Chemistry-II
3	Ms.R.SATHANASRI	Nov-2023	V-Sem & (2021-2024 Batch)	7BCHE1A & Analytical chemistry
		Nov-2023	I-Sem & (2023-2025 Batch)	23BCHS1A-Skill enhancement Course-Food Chemistry
		Nov-2023	I-Sem & (2023-2025 Batch)	23BCHFC & Foundation course-Foundation Course For Chemistry
4	Ms.G.YOGADHARSHINI	Nov-2023	V-Sem & (2021-2024 Batch)	7BCHE2A & Industrial chemistry

DEPARTMENT ACTIVITIES

PTA Meeting October 2023

PTA meeting was organized on 06/10/2023 to discuss the academic progress and overall development of students with their parents. It also provided a platform for parents to address their concerns and queries they had regarding their ward's education. Nearly 83 % parents made their presence to discuss individual student performances

Department Association-GeNiUS

Founded in 2019, the Chemistry Association - GeNiUS stands as a beacon of inspiration and exploration for students eager to unravel the mysteries of chemical science. It serves as a platform for fostering a healthy competitive spirit among students, encouraging them to push the boundaries of their knowledge and skills.

GeNiUS is a student-led initiative, supported by dedicated faculty members who guide and mentor the members. Through various activities and events, GeNiUS aims to ignite a passion for chemistry, inspiring students to pursue excellence in the field. The Student Members of the Association during 2023-2024 are as follows

Secretary: Ms.M.Kaviya (III Chem)

Asst.Secretary :Ms.P.Kamali (II Chem)

Treasurer: Ms.R.Ataikaleshwary (III Chem)

Asst.Treasurer::Ms.R.NiprasFathima (II Chem)

Members :

Ms.R.rajika (III Chem)

Ms.A.Abi (II Chem)

Ms.V.MaliniShree(II Chem)

Ms.M/Uma Bharathi (II Chem)

Ms.K.SahinaBegam (II Chem)

All the events of the Department are organized through this association.

DEPARTMENTAL ACTIVITIES 2023-2024

S.No	Month & Year	Events	Report
1	June-2023	World Environment day	With the objective to create awareness among the youth enclave, the Department of Chemistry organized Enviz-2023 , an e-Quiz on environmental Studies on 5 th June 2023. Sixty five students from all the three years attended the quiz on 05/06/2023 & on 06/06/2023. Link for Enviz-2023: https://forms.gle/aQAjKup1XRkkeuT8A
2		Intra Departmental Quiz	To enhance the expansion of knowledge of students, GeNiUS -The Chemistry Association conducted Intra Departmental Quiz on 27/06/23. Fundamentals of Chemistry was the theme of the quiz and it covered basic concepts of Chemistry. All the three year students were made to participate in it.
3	July-2023	Taking Oath of Office	GeNiUS -The Chemistry Association organize various events and activities to enhance students' experiences beyond academics, develop leadership skills and explore their interests. The new members of the association for the academic year 2023-2024 took formal oath of office on 24/07/23
4	August-2023	Industrial visit	In order to gain knowledge in Spirulina production and Processing, III - Year Chemistry were taken to -Sanat Product LTD , Dindugal on 14/08/2023.
5	September-2023	Coastal International Clean Up Drive	To commemorate the International Clean Up Day and to raise awareness among the students, the Department of Marine and Coastal Studies, School of Energy, Environment, and Natural Resources, Madurai Kamarajar University, Madurai organized a clean-up drive on 16/09/23 in Pudumadam. Thirteen students from III-Year Chemistry participated and received the certificate from the event.

6		Ozone Day-2023	<p>In order to renew our commitment to preserve this precious shield and to secure a bright future for our Planet, GeNiUS-The Chemistry Association organized various Competitions,i.e. Poster Presentation, Documentary Film, Essay writing& Slogan Writing for the students of Department of Chemistry to sensitize the importance of protecting ozone Layer on 15/09/23 & 16/09/23</p>
7	October -2023	MOU Signing Ceremony& Two Days Industrial Training Program	<p>To establish a mutual beneficial relationship to promote collaboration and knowledge exchange between college and an industry, aMOU has been signed between the Department of Chemistry in association with the Department of Microbiology and Galileovasan Offshore Research & Development ,Nagapattinam on 05/10/23</p> <p>A preliminary approach towards MOU was initiated by Mr.G.M.Srinivasan-Managing Director - Galileovasan Offshore Research &Development on 07/10/23 through an Industrial training in petroleum refining ,paint manufacture and bio-fuel production. He was accompanied by Dr.Vijayalakshmi and a team of four members from his concern.38 Students from the second and third years of Chemistry actively participated and they were also encouraged to share their perspective insights during the workshop</p>
8	January-2024	VETRE-2024	<p>VeluManonian's Empowerment Training And Reach out Programme for Education(VETRE) is an extension activity practiced by the college to transform the students in to active learners, eager to explore and contribute to world around them.So in order to contribute a positive social change while gaining valuable skills and experiences, Department of Chemistry organized an awareness program to the students of Government Higher Secondary School ,Kadukavalasai on 24/01/2024.</p>

9	February -2024	International Day Of Women And Girls In Science	To commemorate International Day Of Women And Girls In Science (11/02/2024) ,Department of Chemistry organized Drawing & quiz Competitions for the students on 10/02/2024
10		National Science Day	On account of National Science Day, Department of Chemistry organized various events(Science Quiz, Science Debate, Chem-Magic, Vegetatus).Students from all the three years participated enthusiastically and show cased their talents.
11	April-2024	Industrial Visit	CSIR - Central Electrochemical Research Institute (CECRI) located in Karaikudi, Tamil Nadu, is a premier research organization in the field of electrochemical science and technology.22 students from II Year Chemistry visited CECRI on 05.04.2024. The visit to CSIR - CECRI was an enriching experience that provided valuable insights into the cutting-edge research being conducted at the institute

***LIST OF FDP/CONFERENCE/WORKSHOP ATTENDED BY FACULTY
(2023-2024)***

S.No	Name of the staff	FDP/Conference/Workshop/Books	Date/Duration	Title of the FDP/Conference/Workshop	Organizers
1.	Dr.A.Girija	FDP	14.08.2023 to 18.8.2023 & 5 Days	Recent advances & applications in chemical sciences (Online)	Mohamed Sathak & A.J.College of Engineering-Chennai.
		FDP	04.09.2023 to 09.09.2023 & 5 Days	International level online faculty development program on artificial intelligence in chemistry: current trends & future perspectives(AICCTFP-2023)	Holy cross college-Trichi.
		Workshop	05.10.2023 & 07.10.2023 & 2Days	Industrial training On Paints, Petroleum & Biofuels	Velumanoharan Arts & Science college for women & Galileovasan offshore & research and development Pvt.Ltd
		FDP	14.08.2023 to 18.8.2023 & 5 Days	Recent advances & applications in chemical sciences (Online)	Mohamed Sathak & A.J.College of Engineering-Chennai.
		Published Book Chapter	December 2023	Advances in dye Degradation (Volume-1) Chapter-2 Toxicity Analysis of dyes	Bentham science Publishers Pte.Ltd Singapore.
		Workshop	15/02/24	Empowering UBA Coordinators: Workshop to Identify Low-Cost /No Cost Strategies for Sustainable Development.	The Gandhigram Rural Institute - Dindigul

2.	Ms.S.Priya	Workshop	05.10.2023 & 07.10.2023 & 2Days	Industrial training On Paints, Petroleum & Biofuels	Velumanoharan Arts & Science college for women & Galileovasan offshore &research and development Pvt.Ltd
3.	Ms.R.Sathana Sri	FDP	17.07.2023 To 21.07.2023 & 5 Days	International regulatory requirement in good manufacturing practices.	Alagappa University
		Workshop	05.10.2023 & 07.10.2023 & 2Days	Industrial training On Paints, Petroleum & Biofuels	Velumanoharan Arts & Science college for women & Galileovasan offshore &research and development Pvt.Ltd
4.	Ms.G.Yogadharshini	Workshop	4.12.2023 to 5.12.2023 & 2 days	Workshop on localization of sustainable development goals and panchayat development index	The Gandhigram Rural Institute - Dindigul
		Workshop	05.10.2023 & 07.10.2023 & 2Days	Industrial training On Paints, Petroleum & Biofuels	Velumanoharan Arts & Science college for women & Galileovasan offshore &research and development Pvt.Ltd

Student Participation 2023-2024
2021-2024 Batch

S.No	Name of the student	Date	Name of the Event	Name of the Competition	Organized by	Participation/Prize
1	S.Aarthi	5.8.2023	National Breast Feeding Week	Documentary Film(Myths & Facts Of Breast Feeding)	VMASCW	II Prize
		28.2.2024	GeNiUS-Association	Quiz Competition	VMASCW	I Prize
		28.2.2024	GeNiUS-Association	Vegetable Carving	VMASCW	Participation
2	B.Abinaya	5.8.2023	National Breast Feeding Week	Documentary Film(Myths & Facts Of Breast Feeding)	VMASCW	II Prize
		8.6.2023 & 16.09.2023	Awareness Programme On Beach Cleaning		Mk University & Marine Department	Participation
		27.9.2023	Chem Compa-23	Chem Master	Dr Zahir Husain College, Ilaiyangudi	II Price
		8.6.2023	World Ocean Day	Awareness Programme	Mk University & Marine Department	Participation
3	R.Ataikleshwary	5.8.2023	National Breast Feeding Week	Documentary Film(Myths & Facts Of Breast Feeding)	VMASCW	II Prize
		8.6.2023 & 16.09.2023	Awareness Programme On Beach Cleaning		Mk University & Marine Department	Participation
		27.9.2023	Chem Compa-23	Know Your Scientist	Dr Zahir Husain College, Ilaiyangudi	I Prize
		9.02.2024	GeNiUS-Association	Chem Quiz	VMASCW	1 Prize
		5.8.2023	National Breast Feeding Week	Documentary Film(Myths & Facts Of Breast Feeding)	VMASCW	II Prize
4	S.Bavani	5.8.2023	National Breast Feeding Week	Debate	VMASCW	1 Prize
5	S.Indhumathi	9.2.2024	GeNiUS-Association	Chem Quiz	VMASCW	Runner
		28.2.2024	Science day	Vegetable Carving	VMASCW	Participant
6	K.Kavitha	29.2.2024	GeNiUS-Association	Chem Quiz	VMASCW	1 St Prize
		28.2.2024	GeNiUS-Association	Vegetable Carving	VMASCW	Participant
7	J.Kavyaa	28.2.2024	GeNiUS-Association	Vegetable Carving	VMASCW	Participation
8	S.Lavanya	5.8.2023	National Breast Feeding Week	Documentary Film(Myths & Facts Of Breast Feeding)	VMASCW	Participation

S.No	Name of the student	Date	Name of the Event	Name of the Competition	Organized by	Participation/Prize
9	M.Kaviya	5.8.2023		Documentary Film(Myths & Facts Of Breast Feeding)	VMASCW	1 st Prize
		8.6.2023 & 16.09.2023	Awareness Programme On Beach Cleaning		Mk University & Marine Department	Participation
		27.9.2023	Chem Compa-23	Chem Turn Coat	Dr Zahir Husain College ,Ilaiyangudi	Participation
		8.6.2023	World Ocean Day	Awareness Programme	Mk University & Marine Department	Participation
10	P.Mahasrinithi	5.8.2023		Documentary Film(Myths & Facts Of Breast Feeding)	VMASCW	Participation
		9.2.2024	GeNiUS-Association	Chem Quiz	VMASCW	Runner
11	R,Rajika	5.8.2023		Documentary Film(Myths & Facts Of Breast Feeding)	VMASCW	Participation
		8.6.2023 & 16.09.2023	Awareness Programme On Beach Cleaning		Mk University & Marine Department	Participation
		27.9.2023	Chem Compa-23	Chem Rangoli	Dr Zahir Husain College ,Ilaiyangudi	1 st Prize
		8.6.2023	World Ocean Day	Awareness Programme	Mk University & Marine Department	Participation
12	T.Ramya	28.2.2024	GeNiUS-Association	Vegetable Carving	VMASCW	Participation
13	N.Samreetha	5.8.2023	National Breast Week	Documentary Film(Myths & Facts Of Breast Feeding)	VMASCW	Participation
		8.6.2023	World Ocean Day	Awareness Programme	Mk University & Marine Department	Participation
		28.2.2024	Association Activities	Vegetable Carving	VMASCW	Participation
		5.8.2023	National Breast Feeding Week	Documentary Film(Myths & Facts Of Breast Feeding)	VMASCW	Participation
14	A.Seema	5.8.2023	National Breast Feeding Week	Documentary Film(Myths & Facts Of Breast Feeding)	VMASCW	Participation
		8.6.2023	World Ocean Day	Awareness Programme	Mk University & Marine Department	Participation
		8.6.2023 & 16.09.2023	Awareness Programme On Beach Cleaning		Mk University & Marine Department	Participation
		27.9.2023	Chem Compa-23	Chem Quiz	Dr Zahir Husain College ,Ilaiyangudi	1 st Prize

2022-2025 Batch

	R.Deva Dharshini	14.8.2023	Breast Feeding Week	Mime	VMASCW	I St Prize
		16.8.2023	Food Adulteration& Basic Chemistry	Quiz	Syed Hameetha Arts &Science College	Participation
		8.6.2023	Awareness Programme On Beach Cleaning		Mk University& Marine Department	Participation
		12.2.2024	Khadi	Quiz	VMASCW	Winner
	T.Ariyanatchi	12.2.2024	Khadi	Quiz	VMASCW	Winner
	S.Ishwariya	16.8.2023	Food Adulteration& Basic Chemistry	Quiz	Syed Hameetha Arts &Science College	Participation
		7.7.2023	Intercollegiate Meet	Dance	Syed Ammal Arts & Science College	II Prize
	M.Ishwarya	7.7.2023	Intercollegiate Meet	Dance	Syed Ammal Arts & Science College	I Prize
		16.8.2023	Food Adulteration& Basic Chemistry	Quiz	Syed Hameetha Arts &Science College	Participation
	P.Kamali	14.8.2023	Breast Feeding Week	Mime	VMASCW	I Prize
		16.8.2023	Food Adultration Day	Presentation	Syed Hameetha Arts &Science College	I Prize
	P.Kamali	27.9.2023	Chem Compa-23	Chem Presentation	Dr Zahir Husain College ,Ilaiyangudi	II Prize
		6.1.24	Fm Ratio Station	Speech	Fm Station Madurai	Participation

		8.1.24	Nehru Yuva Kendra Declamation	Speech	Syed Ammal Arts & Science College	Participation
		12.2.2024	Khadi	Quiz	VMASCW	Participation
		12.2.2024	Khadi	Elocution	VMASCW	Participation
	G.Sarumathi	14.8.2023	Breast Feeding Week	Mime	VMASCW	I Prize
		16.8.2023	Food Adulteration Day	Presentation	Syed Hameetha Arts &Science College	I St Prize
		8.6.2023	Awareness Programme On Beach Cleaning		Mk University & Marine Department	Participation
		29.2.2024	GeNiUS- Association	Quiz	VMASCW	I St Prize
		6.1.24	Fm Ratio Station	Speech	Fm Station Madurai	Participation
		29.2.2024	National Science Day	Debate	VMASCW	Winner
	V.Malini Shree	16.8.2023	Food Adulteration Day	Quiz	Syed Hameetha Arts &Science College	I Prize
	K.Sahina Begam	14.8.2023	Healthy Food Competition	Cooking	VMASCW	Participation
		16.8.2023	Food Adulteration Day	Quiz	Syed Hameetha Arts &Science College	I Prize
		12.2.2024	Khadi	Quiz	VMASCW	Participation
	K.Vijayakala	29.2.2024	GeNiUS- Association	Quiz	VMASCW	I Prize
	R.Nipras Fathima	29.2.2024	GeNiUS- Association	Quiz	VMASCW	I Prize
	M.Shajina Begam	14.8.2023	Breast Feeding Week	Mime	VMASCW	I St Prize

	M.Uma Bharathi	16.8.2023	Food Adulteration Day	Quiz	Syed Hameetha Arts & Science College	I Prize
		27.9.2023	Chem Compa-23	Chem Rangoli	Dr Zahir Husain College ,Ilaiyangudi	1 Prize
	K.Rajashri	12.2.2024	Khadi	Essay Competition	VMASCW	Participation

2023-2026 Batch

1	A.Ahalya	27.07.2023	World Students Day	Speech About Abj Abdul Kalam	VMASCW	Participation
		2.8.23	Ozone Day	Poster Making	VMASCW	Participation
2	K.Akalya	27.7.23	World Students Day	Quoets About Dr.APJ Abdul Kalam	VMASCW	Participation
		27.7.23	World Students Day	Singing Competetion	VMASCW	Participation
3	M.Agalya	27.7.23	World Students Day	Mime	VMASCW	Participation
4	A.Aarthi	27.7.23	World Students Day	Mime	VMASCW	Participation
5	R.Bahumitha	27.7.23	World Students Day	Singing Competetion	VMASCW	Participation
6	R.Durga	27.7.23	World Students Day	Mime	VMASCW	Participation
		2.8.23	Breast Feeding Week	Slogan Writing& Poster Making	VMASCW	Participation
7	M.Jaya Sri	27.7.23	World Students Day	Mime	VMASCW	Participation
8	M.Jeevitha Sri	27.7.23	World Students Day	Singing Competetion	VMASCW	Participation

9	R.Jerina Barveen	27.7.23	World Students Day	Mime	VMASCW	Participation
10	S.Malathi	27.7.23	World Students Day	Mime	VMASCW	Participation
11	T.Yazhini	27.7.23	World Students Day	Mime	VMASCW	Participation
12	S.Sowmiya	27.7.23	World Students Day	Mime	VMASCW	Participation
13	G.Suhashini	27.7.23	World Students Day	Mime	VMASCW	Participation
14	V.Siva Priya	21.07.23	Freshers Day	Fashion Paraide	VMASCW	Participation
		27.07.2023	World Students Day	Speech About Abj Abdul Kalam	VMASCW	Participation
		4.8.23	Breast Feeding Week	Healthy Food Competetion	VMASCW	Participation
15	M.Praveena	4.8.23	Breast Feeding Week	Healthy Food Competetion & Slogan Writing	VMASCW	Participation
		27.7.23	World Students Day	Mime	VMASCW	Participation
16	M.Priya Darzini	4.8.23	Breast Feeding Week	Healthy Food Competetion	VMASCW	Participation
		2.8.23	Breast Feeding Week	Slogan Writing & Poster Making	VMASCW	Participation
		21.07.23	Freshers Day	Fashion Paraide	VMASCW	Participation

Students' Achievements

University Rank



Ms.A.Absan Nisha (2020-2023 Batch), a diligent student of the Chemistry Department ,has secured the **10th Rank** in the University Examinations conducted by Alagappa University. Their outstanding academic performance, coupled with a passion for the subject, has brought pride to the department.

Chemistry Champions

The Departments of Chemistry & Microbiology of Syed Hameedha Arts and Science College jointly organized a one-day National Seminar on Food analysis and opportunities on 16/08/23. As a part of the seminar, the organizers invited the students for a power point presentation & a Quiz Competition on Food adulterants identification and analysis. In both events our students bagged First Prize.

Power Point Presentation: G.Sarumathi ; P.Kamali

Quiz Team : K.sahina Begam ; G.Madhubashini ; V.Malini Shree; M.Uma Bharathi

Overall Champions

CHEMCOMPA'23 was an intercollegiate extravaganza organized by the Department of Chemistry-Zakir Husain College which was catalyzed and supported by TNSCST on 27/09/23 through which they have conducted various competitions. Our Student team has won all the events and bagged the overall Championship among ten different colleges attended.

Chem Quiz-I-Prize -K.Sahina begam(II Yr)& A.Seema (III Yr)

Chem Rangoli- I-Prize -R.Rajika (III Yr) & M. Umabharathi (II Yr)

Know your Scientist- I-Prize -R.Ataikleshwary (III Yr)

Chem Presentation- II-Prize -P.Kamali (II Yr)

Chem Master- III-Prize -B.Abinaya(III Yr)

Future Plans

- ❖ We are committed to our future plans, ensuring that our students will continue to receive the support and guidance needed to secure top university ranks.
- ❖ We are preparing to partner with more reputed industries, offering students valuable exposure to real-world applications of chemistry, enriching their educational journey.
- ❖ We plan to actively engage in research projects, and encourage faculty and student involvement in impactful research endeavors

Conclusion

The Department of Chemistry gratefully acknowledges the invaluable support and visionary leadership provided by our tireless Principal & Management during the successful completion of the academic year 2023-2024. Their unwavering commitment has been instrumental in our achievements, and we humbly request their continued guidance and support in the upcoming years.