



**MARUDHAR KESARI JAIN COLLEGE FOR WOMEN,
VANIYAMBADI
PG DEPARTMENT OF CHEMISTRY
BRIDGE COURSE SYLLABUS 2023-2024**



Course Objective

- To understand basics of Chemistry
- To develop working skills with qualitative and quantitative.
- To acquire basic knowledge in atomic structure, periodic tables, organic compounds.

Unit I : Atomic Structure

Structure of an atom, atomic number, atomic weight, stable and unstable atoms, molecules Atomic Orbitals, quantum, numbers–Azimuthal, magnetic and spin Quantum numbers and their significance. Pauli's exclusion principle, Hund's rule & Aufbau principle. Classification of s,p,d & f block elements.

Unit II : Periodic trends & Thermodynamics

Periodic table trends–Electron configuration, Atomic radii, Ionization energy, Electronegativity, Electron affinity, Metallic characters. Thermodynamics- definition, types of thermodynamics laws and application of thermodynamics

Unit III : Principles Chemical Analysis

Definition - Molarity, Normality and Mole fraction-Types of reactions acid - base, redox, precipitation and complex metric titrations, Indicators neutralization, redox, adsorption and metalion indicators. Ionic bond or electrovalent bonds, covalent bonds, Vander Waals bond, Hydrogen bonds, a hydro bonds– pH, Effect of change in pH-Buffer system.

Unit IV : Organic Compounds

Carbohydrates, Lipids, Proteins, Vitamins, and Nucleic acids- Aliphatic and aromatic compounds and its uses.

Unit V : Higher studies & Job opportunities

Bachelor of Education, Post Graduation, Specialized Post Graduation. Recruitment for Chemistry graduates – Govt Jobs, Private Jobs, Forensic Scientist, Pharmacologist, Toxicologist, Quality Control, Lab Chemist, Industrial Research Scientist, Public Sector Units.

Course Outcomes

- Understanding the basic concept of Chemistry.
- Learn organic compounds and functional units.
- Understand about atomic structure, periodic tables and basics of practical.
- Study about the importance of Chemistry for the job opportunities in various field.


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Vanivambadi - 635 751



**MARUDHAR KESARI JAIN COLLEGE FOR WOMEN,
VANIYAMBADI**



**PG DEPARTMENT OF CHEMISTRY
BRIDGE COURSE TIMETABLE (2023-2024)**

CLASS : I B.Sc Chemistry

D/H	1	2	3	4	5	6
1	Major (Dr.M.Charumathy)	Communicative English	Sports	Communicative English	Major (Ms.S.Baranipriya)	Nutritional Value
2	Major (Ms.M.Kaviya)	Communicative English	Sports	Communicative English	Major (Ms.S.Tamizharasi)	Stress Management
3	Major (Dr.M.Charumathy)	Communicative English	Sports	Communicative English	Major (Ms.S.Baranipriya)	Counseling
4	Major (Ms.M.Kaviya)	Communicative English	Sports	Communicative English	Major (Ms.S.Tamizharasi)	Personality Development
5	Major (Ms.S.Baranipriya)	Communicative English	Sports	Communicative English	Major (Ms.M.Kaviya)	Stress Management

FACULTY NAME LIST

S.No	Unit	Faculty Name
1	Unit 1 & 5	Ms.S.Baranipriya
2	Unit 2	Ms.M.Kaviya
3	Unit 3	Ms.S.Tamizharasi
4	Unit 4	Dr.M.Charumathy

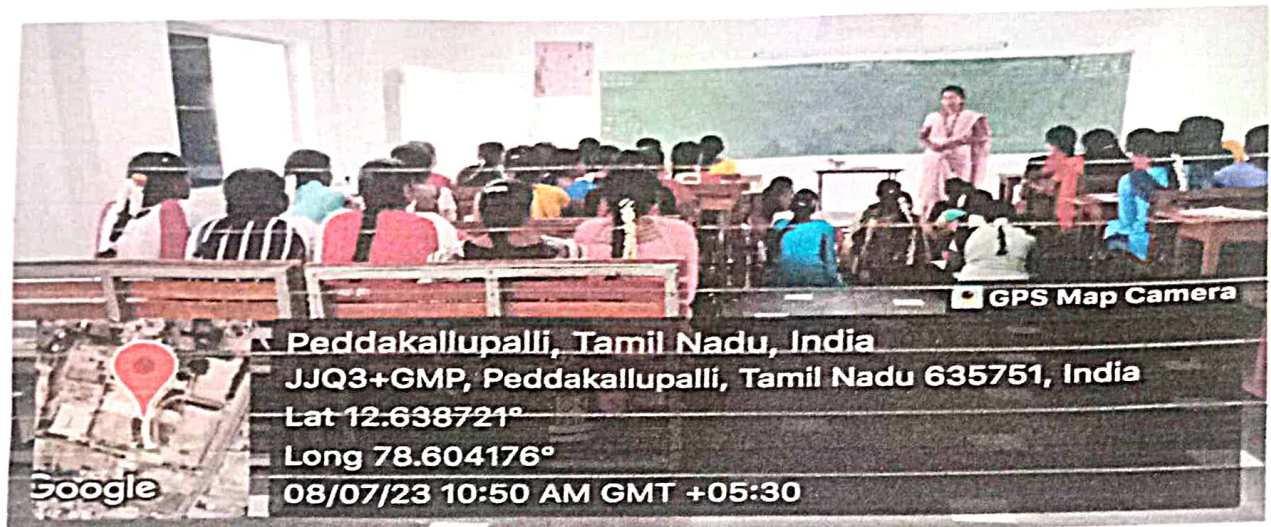
Charumathy
HOD 22/6/23

Ms. S. Baranipriya
22/6/23
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PG DEPARTMENT OF CHEMISTRY
BRIDGE COURSE PHOTO 2023-2024



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Marudhar Kesari Jain College for Women, Vaniyambadi
Bridge Course Attendance



Department : CHEMISTRY
Academic Year :2023-2024
Class: I BSc CHEMISTRY
Course Name:Basics of Chemistry

S.No	Name of the Student	Signature					
		03.07.2023	04.07.2023	05.07.2023	06.07.2023	07.07.2023	08.07.2023
1	Abirami.P	Abirami	Abirami	Abirami	Abirami	Abirami	Abirami
2	Anusha.D	Anusha	Anusha	Anusha	Anusha	Anusha	Anusha
3	Archana.D	Archana	Archana	Archana	Archana	Archana	Archana
4	Arthi.D	Arthi	Arthi	Arthi	Arthi	Arthi	Arthi
5	Divya.M	Divya	Divya	Divya	Divya	Divya	Divya
6	Divya.N	N-Divya	N-Divya	N-Divya	N-Divya	N-Divya	N-Divya
7	Divya.V	V-Divya	V-Divya	V-Divya	V-Divya	V-Divya	V-Divya
8	Gowri.P	P.Gowri	P.Gowri	P.Gowri	P.Gowri	P.Gowri	P.Gowri
9	Jasmine.P	Jasmine	Jasmine	Jasmine	Jasmine	Jasmine	Jasmine
10	Kavya.M	Kavya	Kavya	Kavya	Kavya	Kavya	Kavya
11	Mahalakshmi.V	Mahalakshmi	Mahalakshmi	Mahalakshmi	Mahalakshmi	Mahalakshmi	Mahalakshmi
12	Manimegalai.T	Mani.T	Mani.T	Mani.T	Mani.T	Mani.T	Mani.T
13	Mohanalakshmi.S	Mohanalakshmi	Mohanalakshmi	Mohanalakshmi	Mohanalakshmi	Mohanalakshmi	Mohanalakshmi
14	Monisha.A	Monisha	Monisha	Monisha	Monisha	Monisha	Monisha
15	Monisha.A	Monisha	Monisha	Monisha	Monisha	Monisha	Monisha
16	Mythily.R	Mythily	Mythily	Mythily	Mythily	Mythily	Mythily
17	Nishanthi.V	Nishanthi	Nishanthi	Nishanthi	Nishanthi	Nishanthi	Nishanthi
18	Parameswari.A	A-Param	A-Param	A-Param	A-Param	A-Param	A-Param
19	Pavanasurthi.M	P.Surthi	P.Surthi	P.Surthi	P.Surthi	P.Surthi	P.Surthi
20	Pooja.P	P.Pooja	P.Pooja	P.Pooja	P.Pooja	P.Pooja	P.Pooja
21	Rajalakshmi.G	G-Rajalakshmi	G-Rajalakshmi	G-Rajalakshmi	G-Rajalakshmi	G-Rajalakshmi	G-Rajalakshmi
22	Ramila.K	K.Ramila	K.Ramila	K.Ramila	K.Ramila	K.Ramila	K.Ramila
23	Ramya.R	R.Ramya	R.Ramya	R.Ramya	R.Ramya	R.Ramya	R.Ramya
24	Shalini.H	Shalini	Shalini	Shalini	Shalini	Shalini	Shalini
25	Shalini.V	V-Shalini	V-Shalini	V-Shalini	V-Shalini	V-Shalini	V-Shalini
26	Sowmiya.V	Sowmiya	Sowmiya	Sowmiya	Sowmiya	Sowmiya	Sowmiya
27	Suguna.A	A-Suguna	A-Suguna	A-Suguna	A-Suguna	A-Suguna	A-Suguna
28	Vinodhini .M	Vinodhini	Vinodhini	Vinodhini	Vinodhini	Vinodhini	Vinodhini

D. Nithya
Class Incharge

Principa
HOD 18/8/2023

M. Nithya
Principal

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Bridge Course Attendance



Department : Chemistry
Academic Year : 2023-2024
Class: I B.Sc CHEMISTRY
Course Name: Basics of Chemistry

S.No	Name of the Student	Feedback
1	V. Nishanthi	I learned Periodic Table & Basic Uses of chemistry
2	P. Jasmine	I learned about the A to Z chemistry in day today life.
3	V. Soumya	I learned about how chemistry is useful for us
4	P. Abirami	I learned periodic table and Basic chemistry.
5	P. Grouci	Chemistry teaching is very well. learned basic of chemistry.
6	G. Rajalakshmi	Easy to learn basic concept
7	R. Mythiliy.	I will understand the Periodic table.
8	M. Vinodhini	Easy to learn the Basic uses of chemistry.
9	M. Divya	learned basic chemistry
10	A. Monisha	I have learn to easy Basic of chemistry.

CLASS TEACHER

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