

Teaching Plan
Department of Food & Nutrition (General)
Under CBCS System ; Calcutta University

Syllabus Distribution (July-Dec/Odd Semester 2020)

Module ; CC – 1AT
INTRODUCTION TO ELEMENTARY CHEMISTRY

Name of the Teacher	Semester	Class Hour (Th+ Prac)	Theory	Practical
Mousumi Das (Sact)	1 st	6	1. Law of conservation of mass, ✓ Physical & chemical changes, ✓ Mechanical mixtures	
Mousumi Das (Sact)	1 st	2+2	2. Common laboratory process	Sedimentation, Decantation, Filtration, distillation, Solution, crystallization, separation of constituents of mixture
Mousumi Das (Sact)	1 st	4+2	3. Naming of compound ✓ (symbols, valency, formula, equation) ✓ Acids, bases and salt	Titration of acid & bases

Mousumi Das (Sact)	1 st	4+2	4. Classification of salt, ✓ buffer solution, ✓ acid-base ,acid-base indicator, ✓ Molar,normal ,formula solution	Titration of acid & bases
Mousumi Das (Sact)	1 st	2+4	5. Diffusion and osmosis 6. Colloids	Qualitative tests: ➤ Protein in milk and egg ➤ Calcium
Mousumi Das (Sact)	1 st	6+1	7. Structure of atomic molecule	Qualitative tests: ➤ Phosphorus & iron in foodstuff
Mousumi Das (Sact)	1 st	6+5	8. Organic chemistry (chemistry of carbon compounds)	Simple chemical tests for carbohyrate
Total class hour			TH-30 hours	PRAC-16 hours

CBCS System
Syllabus Distribution
(Jan-June/Even Semester 2021)

Module ;CC – 1BT

INTRODUCTION TO ELEMENTARY PHYSICS

<i>Name Of The Teacher</i>	<i>Semester</i>	<i>Class Hour (Th+ Prac)</i>	<i>Theory</i>	<i>Practical</i>
<i>Mousumi Das. (Sact)</i>	<i>2nd</i>	<i>2+1</i>	<i>1. Units- C.G.S. AND F.P.S. system 2. Measurement Of mass & weight, common & spring balance</i>	<i>Use of balance</i>
<i>Mousumi Das. (Sact)</i>	<i>2nd</i>	<i>2+4</i>	<i>3. Motion of body- Displacement, Velocity, acceleration</i>	<i>Determination of specific gravity of a liquid by specific gravity bottles</i>
<i>Mousumi Das. (Sact)</i>	<i>2nd</i>	<i>2+4</i>	<i>4. Gravity- Acceleration due to gravity</i>	<i>Determination of specific gravity of a solid</i>
<i>Mousumi Das. (Sact)</i>	<i>2nd</i>	<i>3+4</i>	<i>5. Hydrostatics – Pressure at a point, Archimedes principle</i>	<i>Determination of specific gravity of a liquid by hydrostatic pressure</i>

			Specific gravity, Viscosity & Surface tension	
<i>Mousumi Das. (Sact)</i>	<i>2nd</i>	<i>2+2</i>	<i>6. Thermometry 7. Calorimetry</i>	<i>Reading of barometer + determination of lower and upper fixed point of a thermometer</i>
<i>Mousumi Das. (Sact)</i>	<i>2nd</i>	<i>2</i>	<i>8. Transmission of heat, Thermoflask</i>	
<i>Mousumi Das. (Sact)</i>	<i>2nd</i>	<i>3</i>	<i>9. Matter ,Changes of state, Pressure cooker ,Ice machine</i>	
<i>Mousumi Das. (Sact)</i>	<i>2nd</i>	<i>2</i>	<i>10. Static electricity- 11. Primary cell, storage cell</i>	
<i>Mousumi Das. (Sact)</i>	<i>2nd</i>	<i>1</i>	<i>12. Electroplating</i>	
<i>Mousumi Das. (Sact)</i>	<i>2nd</i>	<i>2</i>	<i>13. Definition of potential, Current- Relation between two</i>	

<i>Mousumi Das.</i> <i>(Sact)</i>	<i>2nd</i>	<i>2+1</i>	<i>14. Electricity & its application</i>	<i>Fitting of a electric fuse</i>
<i>Mousumi Das.</i> <i>(Sact)</i>	<i>2nd</i>	<i>2</i>	<i>15. Refrigerator , Cold storage , Electric fuse</i>	
<i>Total class hour</i>			<i>Th -25 hours</i>	<i>Prac- 16 hours</i>

CBCS System
**SYLLABUS DISTRIBUTION (JULY-DEC/ODD SEMESTER
2021)**

MODULE ;CC – 1CT

INTRODUCTION TO ELEMENTARY PHYSIOLOGY

<i>Name of The Teacher</i>	<i>Semester</i>	<i>Class Hour (Th + Prac)</i>	<i>Theory</i>	<i>Practical</i>
<i>Mousumi Das.</i> <i>(Sact)</i>	<i>3rd</i>	<i>1 +1</i>	<i>1. Animal cell: Structure & function</i>	Demonstration for determination of blood pressure of human being

<i>Mousumi Das. (Sact)</i>	<i>3rd</i>	<i>2+2</i>	2. Tissue: Structure, Function, Types	Identification of slides (blood cells, Stomach, Small intestine, Large intestine, Liver, Pancreas)
<i>Mousumi Das. (Sact)</i>	<i>3rd</i>	<i>6 + 2</i>	3. Digestive system (structure & function) 4. Digestion of carbohydrate, Protein & fat 5. Absorption	Determination of bleeding time and clotting time
<i>Mousumi Das. (Sact)</i>	<i>3rd</i>	<i>10 +2</i>	6. Elementary idea of metabolism 7. Enzymes and their hormones 8. Metabolism in brief 9. Role of hormones in carbohydrate metabolism	Detection of blood group
		Total class hour	Theory-17 hour	Prac-7 hour

CBCS System
SYLLABUS DISTRIBUTION
(JULY-DEC/ODD SEMESTER 2021)

MODULE ; SEC – ICP

INTRODUCTION TO FOOD PRESERVATION
(skill enhancement course)

<i>Name of the teacher</i>	<i>Semester</i>	<i>Class Hour</i>	<i>Theory</i>
<i>Mousumi Das. (Sact)</i>	<i>3rd</i>	10	1. Elementary idea of Food Preservation 2. Principle and different methods (in brief)
<i>Mousumi Das. (Sact)</i>	<i>3rd</i>	6	3. Preparation & packaging of jam , jelly, chili sauce
<i>Mousumi Das . (Sact)</i>	<i>3rd</i>	6	4. Preparation & packaging of tomato ketchup,squash,pickles etc.
		Total	22

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Name of the Teacher	Semester	Class Hour (Th+ Prac)	Theory	Practical
Mousumi Das (Sact)	1st	4	9. Law of conservation of mass, ✓ Physical & chemical changes, ✓ Mechanical mixtures	
Mousumi Das (Sact) + Riya Bag (Guest Lecturer)	1st	1+2	10. Common laboratory process	Sedimentation, Decantation, Filtration, distillation, Solution, crystallization, separation of constituents of mixture
Riya Bag (Guest Lecturer)	1st	2+2	11. Naming of compound ✓ (symbols, valency, formula, equation) ✓ Acids, bases and salt	Titration of acid & bases

Riya Bag (Guest Lecturer)	1 st	3+2	12. Classification of salt, ✓ buffer solution, ✓ acid-base ,acid-base indicator, ✓ Molar,normal ,formula solution	Titration of acid & bases
Mousumi Das (Sact) + Riya Bag (Guest Lecturer)	1 st	2+4	13. Diffusion and osmosis 14. Colloids	Qualitative tests: ➤ Protein in milk and egg ➤ Calcium
Riya Bag (Guest Lecturer)	1 st	4+1	15. Structure of atomic molecule	Qualitative tests: ➤ Phosphorus & iron in foodstuff
Riya Bag (Guest Lecturer)	1 st	6+5	16. Organic chemistry (chemistry of carbon compounds)	Simple chemical tests for carbohyrate
Total class hour			TH-22 hours	PRAC-16 hours

