

Class Room No.  
With Effect from  
Revision No.

## TIME TABLE FACULTY WISE

Rev. Date: 10/02/2022  
Term: II  
Division:

Name of Faculty: Dr. Kharade B.S.

Academic Year: 2021-22

Time / Day	8:05 to 8:55am	9:00 to 9:50 am	9:55 to 10:45 am	10:45 to 11:00 am	11:00 to 11:50 am	11:55 to 12:45 pm	12:50 to 1:40 am
Monday	Hist.-IV TYBA (302)	Hist.-IV TYBA (302)	Hist.-I FYBA (211)	<b>R E C E S S</b>	Hist.-II SYBA (210)	Hist.-VI TYBA (302)	Hist.-V TYBA (302)
Tuesday	Hist.-I FYBA (211)	Hist.-I FYBA (211)	Hist.-IV TYBA (302)		Hist.-V TYBA (302)	Hist.-III SYBA (210)	Hist.-VI TYBA (302)
Wednesday	Hist.-IV TYBA (302)				Hist.-II SYBA (210)	Hist.-I FYBA (211)	
Thursday			Hist.-IV TYBA (302)			Hist.-II SYBA (210)	
Friday		Hist.-III SYBA (210)	Hist.-I FYBA (211)			Hist.-VI TYBA (302)	Hist.-V TYBA (302)
Saturday		Hist.-IV TYBA (302)	Hist.-II SYBA (210)				

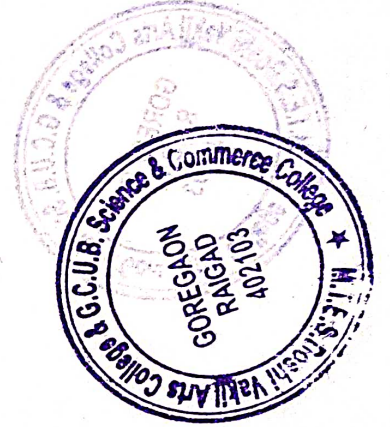
**Note:** National Anthem Time : 8:00am to 8:05am

*Signature*

Time Table In-Charge

*Signature*


Dr. Kharade B.S.




**Principal**  
Mangaon Taluka Education Society's  
Doshi Vakil Arts College and  
G.C.U.B. Science & Commerce College  
Goregaon-Raigad (402 103)

## DETAILS OF WORK DISTRIBUTED TO INDIVIDUAL FACULTY

SR.NO.	Subject	Class	Lectures	Tutorials	Practical's	Total
1	History-I	FYBA	04	-----	-----	04
2	History-II	SYBA	03	-----	-----	03
3	History-III	SYBA	03	-----	-----	03
4	History-IV	TYBA	04	-----	-----	04
5	History-V	TYBA	04	-----	-----	04
6	History-VI	TYBA	03	-----	-----	03
Grand Total=21						

  
 Time Table In-Charge  
 Date:- 12/01/2022



  
**PRINCIPAL**  
 Manggaon Taluka Education Society's  
 Doshi Yashu Arts College and  
 G.C.U.B. Science & Commerce College  
 Goregaon-Raigad (402 103)

TIME TABLE FACULTY WISE						
Class Room No. (101, 102, 105)						
With Effect from						
Revision No.						
Rev. Date: 10/02/2022						
Term: II						
Division:						
Name of Faculty: Mr. Chandorkar S. B.						
Academic Year: 2021-22						
Time / Day	8:05 to 8:55am	9:00 to 9:50 am	9:55 to 10:45 am	10:45 to 11:00 am	11:00 to 11:50 am	11:55 to 12:45 pm
Monday	AFM (SY BCOM) (101)		FA-I (TY BCOM) (102)			Mngt. A/C (SY BCOM) (101)
Tuesday	AFM (SY BCOM) (101)		A/C-II (TY BCOM) (102)			
Wednesday	FA-I (TY BCOM) (102)	AFM (FY BCOM) (105)	A/C-II (TY BCOM) (102)			
Thursday	EM (TY BCOM) (102)	AFM (SY BCOM) (101)	AFM (FY BCOM) (105)		FA-I (TY BCOM) (102)	
Friday	EM (TY BCOM) (102)	A/C-II (TY BCOM) (102)	Mngt. A/C (SY BCOM) (101)			
Saturday	Mngt. A/C (SY BCOM) (101)	EM (TY BCOM) (102)	AFM (FY BCOM) (105)			
<b>R E C E S S</b>						

**Note:** National Anthem Time : 8:00am to 8:05am



*(Signature)*  
**Time Table In-Charge**

**PRINCIPAL**  
 Margaon Taluka Education Society's  
 Doshi Vakil Arts College and  
 G.C.U.B. Science & Commerce College  
 Goregaon-Raigad (402 103)

### DETAILS OF WORK DISTRIBUTED TO INDIVIDUAL FACULTY

SR.NO.	Subject	Class	Lectures	Tutorials	Practical's	Total
1	FA-I	TY	03	-----	-----	03
2	A/C-II	TY	03	-----	-----	03
3	EM	TY	03	-----	-----	03
4	AFM-II	SY	03	-----	-----	03
5	Mangt. A/C	SY	03	-----	-----	03
6	AFM-I	FY	03	-----	-----	03
<b>Grand Total=18</b>						

Time Table In-Charge  
*(Signature)*  
 Date:- 12/01/22



**PRIRIKAPAL**  
 Manggaon Taluka Education Society's  
 Doshi VAKIL Arts College and  
 G.C.U.B. Science & Commerce College  
 Goregaon-Raigad (402 103)

# TIME TABLE FACULTY WISE

Name of Faculty: Mr. Salve A.P.

Academic Year: 2021-22

Time / Day	8:05 to 8:55 am	8:55 to 9:45 am	9:45 to 10:35 am	10:35 to 11:00 am	11:00 to 11:50 am	11:55 to 12:45 pm	12:50 to 1:40 pm	
Monday	B-III Prc. SYBsc	B-III Prc. SYBsc	B-III Prc. SYBsc	<b>R E C E S S</b>				
Tuesday	B-III Prc. SYBsc	B-III Prc. SYBsc	B-III Prc. SYBsc			Bot.-I SYBsc (208)		
Wednesday						Bot.-III SYBsc (208)	Bot.-I FYBsc (301)	
Thursday	B-V Prc. FYBsc	B-V Prc. FYBsc	B-V Prc. FYBsc			Bot.-I SYBsc (208)	Bot.-III SYBsc (208)	
Friday	B-III Prc. FYBsc	B-III Prc. FYBsc	B-III Prc. FYBsc			Bot.-I FYBsc (301)	Bot.-I SYBsc (208)	
Saturday	B-IV Prc. FYBsc	B-IV Prc. FYBsc	B-IV Prc. FYBsc			Bot.-I FYBsc (301)	Bot.-III SYBsc (208)	

**Note:** National Anthem Time : 8:00am to 8:05am

*V. Salve*  
Time Table In-Charge



*Principals*  
**PRINCIPAL**  
Manggaon Taluka Education Society's  
Doshi Vakil Arts College and  
G.C.U.B. Science & Commerce College  
Goregaon-Raigad (402 103)

Received *[Signature]*  
-14.2.22-

## DETAILS OF WORK DISTRIBUTED TO INDIVIDUAL FACULTY

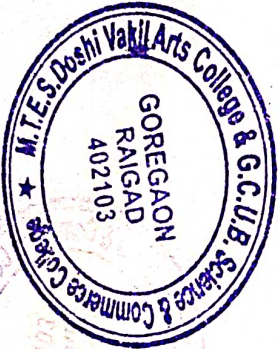
SR.NO.	Subject	Class	Lectures	Tutorials	Practical's	Total
01	Botany-I	FYBsc	03	-----	03	06
02	Botany-I	SYBsc	03	-----	03	06
03	Botany-III	SYBsc	03	-----	03	06
	Botany-II	FYBsc	-----	-----	06	06
<b>Grand Total=24</b>						

*V. Baburao*

Time Table In-Charge

Date:- 12/02/2022

Principal  
Mangaon Talpiga Rehabilitation Society's  
Doshi Vakil Arts College and  
G.C.U.B. Science & Commerce College  
Goregaon-Raigad (402 103)



**PRINCIPAL**

Mangaon Talpiga Rehabilitation Society's  
Doshi Vakil Arts College and  
G.C.U.B. Science & Commerce College  
Goregaon-Raigad (402 103)

*g. v. v. v.*

Mangaon Taluka Education Society's  
**Doshi Vakil Arts College and**  
**G.C.U.B. Science & Commerce College**  
 At.-Goregaon, Tal.- Mangaon, Dist.-Raigad-402103  
**Teaching Plan for the Academic year 2021-2022**

Name of Faculty: **Assist. Prof. Vibhute B. T.**

Class: **T.Y. B.Sc.**

Name of the subject : **Drugs and Dyes**

Semester : **V**

Week No.	Date From ___ Date to ___	No. of lecture allotted	Topic/Experiments to be Covered
1	14 <sup>th</sup> June to 19 <sup>th</sup> June 2021	04	<b>Unit-I 1. General introduction to Drugs,</b> <ul style="list-style-type: none"> <li>➤ Definition of a drug, sources of drugs, requirements of an ideal drug,</li> <li>➤ classification of drugs (based on therapeutic action),</li> <li>➤ Nomenclature of drugs: Generic name, Brand name, Systematic name,</li> <li>➤ Definition of the following medicinal terms: Pharmacon, Pharmacology, Pharmacophore, Prodrug, Half – life efficiency</li> </ul>
2	21 <sup>th</sup> June to 26 <sup>th</sup> June 2021	04	<ul style="list-style-type: none"> <li>➤ Definition of the following medicinal terms: LD50, ED50, GI50 Therapeutic Index</li> <li>➤ Brief idea of the following terms: Receptors, Agonists, Antagonists, Drug-receptor interaction, Drug Potency, Bioavailability, Drug toxicity, Drug addiction, Spurious Drugs, Misbranded Drugs, Adulterated Drugs, Pharmacopoeia.</li> </ul>
3	28 <sup>th</sup> June to 3 <sup>rd</sup> July 2021	04	<b>2. Routes of Drug Administration and Dosage Forms</b> <ul style="list-style-type: none"> <li>➤ Oral and Parenteral routes with advantages and disadvantages.</li> <li>➤ Formulations &amp; combination formulation, Different dosage forms (including Patches &amp; Adhesives, emphasis on sustained release formulations and enteric coated tablets).</li> <li>➤ Pharmacodynamic agents: A brief introduction of the following pharmacodynamic agents and the study with respect to their chemical structure, chemical class, therapeutic uses, and side effects.</li> </ul>
4	5 <sup>th</sup> July to 10 <sup>th</sup> July 2021	04	<ul style="list-style-type: none"> <li>➤ CNS Drugs: Classification based on pharmacological actions: CNS Depressants &amp; CNS Stimulants. Concept of sedation and hypnosis, anaesthesia. • Phenytoin</li> </ul>

			(Hydantoin) • Trimethadione (Oxazolidinediones) (Synthesis from acetone) • Alprazolam (Benzodiazepines) • Levetiracetam (Pyrrolidines) • Amphetamine (Phenethylamine) (Asymmetric synthesis from phenyl acetic acid) • Chlorpromazine (Phenothiazines)
5	12 <sup>th</sup> July to 17 <sup>th</sup> July 2021	04	<b>Unit-2 Analgesics, Antipyretics and Anti-inflammatory Drugs.</b> <ul style="list-style-type: none"> <li>➤ Analgesics and Antipyretics: Morphine (Phenanthrene alkaloids) • Tramadol (Cyclohexanols) (Synthesis from salicylic acid) • Aspirin (Salicylates) • Paracetamol (p-Amino phenols)</li> <li>➤ Anti-inflammatory Drugs: Mechanism of inflammation and various inflammatory conditions. • Steroids: Prednisolone, Betamethasone • Sodium Diclofenac, Aceclofenac (N- Aryl anthranilic acids) (Synthesis from 2,6-dichlorodiphenyl amine)</li> </ul>
6	19 <sup>th</sup> July to 24 <sup>th</sup> July 2021	04	<ul style="list-style-type: none"> <li>➤ Antihistaminic Drugs: Diphenhydramine (Ethanol amines) • Cetrizene (Piperazine) (Synthesis from 4- Chlorobenzhydryl chloride) • Chlorpheniramine maleate (Ethyl amines) • Pantoprazole (Benzimidazoles)</li> <li>➤ <b>Cardiovascular drugs:</b> Classification based on pharmacological action • Isosorbide dinitrate (Nitrates) • Valsartan (Amino acids)</li> </ul>
7	26 <sup>th</sup> July to 31 <sup>st</sup> July 2021	04	<ul style="list-style-type: none"> <li>➤ <b>Cardiovascular drugs:</b> Atenolol (Aryloxy propanol amines) (Synthesis from 3-Hydroxy phenyl acetamide) • Amlodipine (Pyridines) • Frusemide /Furosemide (Sulfamoyl benzoic acid) • Rosuvastatin (Pyrimidine)</li> <li>➤ <b>Antidiabetic Agents:</b> General idea and types of diabetes; Insulin therapy • Glibenclamide (Sulphonyl ureas) • Metformin (Biguanides) • Dapagliflozin (Pyranose) • Pioglitazone (Thiazolidinediones) (Synthesis from 2-(5-ethylpyridin-2-yl) ethanol)</li> </ul>
8		04	<ul style="list-style-type: none"> <li>➤ <b>Overall discussion on Unit-2</b></li> <li>➤ <b>Antiparkinsonism Drugs:</b> Idea of Parkinson's disease. • Procyclidine hydrochloride (Pyrrolidines) Ethopropazine</li> </ul>

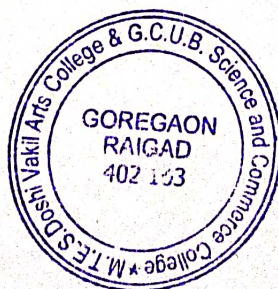


	2 <sup>nd</sup> August to 7 <sup>th</sup> August 2021		<p>hydrochloride (Phenothiazines) • Levodopa (Amino acids) (Synthesis from Vanillin)</p> <p>➤ <b>Drugs for Respiratory System General idea of:</b> Expectorants; Mucolytes; Bronchodilators; Decongestants; Antitussives Ambroxol (Cyclohexanol) (Synthesis from paracetamol) • Salbutamol (Phenyl ethyl amines) • Oxymetazoline (Imidazolines) • Codeine Phosphate (Opiates)</p> <p><b>Unit-3 Introduction to the dye-stuff Industry</b></p> <p>➤ Definition of dyes, requirements of a good dye i.e. Colour, Chromophore and Auxochrome, Solubility, Linearity, Coplanarity, Fastness, Substantivity, Economic viability. Definition of fastness and its properties and Mordants with examples</p>
9	9 <sup>th</sup> August to 14 <sup>th</sup> August 2021	04	<p><b>Introduction to the dye-stuff Industry</b></p> <p>➤ Definition of fastness and its properties and Mordants with examples Explanation of nomenclature or abbreviations of commercial dyes with at least one example suffixes – G, O, R, B, K, L, C, S H, 6B, GK, 6GK, Naming of dyes by colour index (two examples) used in dye industries.</p> <p>➤ Natural and Synthetic Dyes: Natural Dyes: Definition and limitations of natural dyes. Examples and uses of natural dyes w.r.t Heena, Turmeric, Saffron, Indigo, Madder, Chlorophyll –names of the chief dyeing material/s in each natural dye, Synthetic dyes:</p> <p>➤ Definition of synthetic dyes, primaries and intermediates. Important milestones in the development of synthetic dyes – Emphasis on Name of the Scientist, dyes and the year of the discovery is required.</p>
10	16 <sup>th</sup> August to 21 <sup>th</sup> August 2021	03	<p>➤ <b>Substrates for Dyes : Types of fibres</b></p> <p>Natural: cellulosic and proteinaceous fibres, examples – wool, silk and cotton structures and names of dyes applied on each of them. Semi – synthetic: definition and examples Synthetic: Nylon, Polyesters and Polyamides structures and names of dyes applied on each of them. Blended fabrics: definition and examples. Binding forces of dyes on substrate: ionic forces, covalent linkages, hydrogen bonding, vander-walls forces</p>

			<ul style="list-style-type: none"> <li>➤ Binding forces of dyes on substrate: ionic forces, covalent linkages, hydrogen bonding, vander-walls forces</li> </ul>
11	23 <sup>rd</sup> August to 28 <sup>th</sup> August 2021	04	<p><b>Classification of dyes based on applications and dyeing methods</b></p> <ul style="list-style-type: none"> <li>➤ <b>Dyeing methods</b> Basic Operations involved in dyeing process: i. Preparation of fibres ii. Preparation of dyebath iii. Application of dyes iv. Finishing</li> <li>➤ Dyeing Method of Cotton Fibres: (i) Direct dyeing (ii) Vat dyeing (iii) Mordant dyeing (iv) Disperse dyeing</li> </ul>
12	30 <sup>th</sup> August to 4 <sup>th</sup> September 2021	04	<ul style="list-style-type: none"> <li>➤ Classification of dyes based on applicability on substrates (examples with structures) (a) Acid Dyes- Orange II, (b) Basic Dyes- methyl violet, (c) Direct cotton Dyes- Benzofast Yellow 5GL (d) Azoic Dyes – Diazo components; Fast yellow G, Fast orange R. Coupling components. Naphthol AS, Naphthol ASG (e) Mordant Dyes- Eriochrome Black A, Alizarin. (f) Vat Dyes- Indanthrene brown RRD, (g) Sulphur Dyes- Sulphur Black T (h) Disperse Dyes- Celliton Fast brown 3R, (i) Reactive Dyes- Cibacron Brilliant Red B,</li> <li>➤ <b>Optical Brighteners:</b> General idea, important characteristics of optical brighteners and their classes [Stilbene, Coumarin, Heterocyclic vinylene derivatives, Diaryl pyrazolines, Naphthylamide derivatives] general structure of each class.</li> </ul>
13	6 <sup>th</sup> September to 9 <sup>th</sup> September 2021	02	<p><b>Unit-IV Colour and Chemical Constitution of Dyes</b></p> <ul style="list-style-type: none"> <li>➤ Absorption of visible light, Colour of wavelength absorbed, Complementary colour.</li> <li>➤ Relation between colour and chemical constitution</li> <li>➤ Armstrong theory (quinonoid theory) and its limitations. (ii) Witt's Theory: Chromophore,.</li> </ul>
14	15 <sup>th</sup> September to 18 <sup>th</sup> September 2021	02	<ul style="list-style-type: none"> <li>➤ Auxochrome, Bathochromic &amp; Hypsochromic Shift, Hypochromic &amp; Hyperchromic effect (iii) Valence Bond theory, comparative study and relation of colour in the following classes of compounds/dyes: Benzene, Nitrobenzene, Nitroanilines, Nitrophenols, Benzoquinones, Azo, Triphenyl methane, Anthraquinones.</li> </ul>

			➤ Molecular Orbital Theory
15	20 <sup>th</sup> September to 25 <sup>th</sup> September 2021	04	<b>Unit process and Dye Intermediates</b> <ul style="list-style-type: none"> <li>➤ A brief idea of Unit Processes Introduction to primaries &amp; intermediates</li> <li>➤ Unit processes: definition and brief ideas of below unit processes: (a) Nitration (b) Sulphonation (c) Halogenation (d) Diazotization: (3 different methods &amp; its importance) (e) Ammonolysis (f) Oxidation NB: Definition, Reagents, Examples of each unit processes mentioned above with reaction conditions</li> <li>➤ <b>Preparation of the Following Intermediates</b> Benzene derivatives: Benzenesulphonic acid;</li> </ul>
16	27 <sup>th</sup> September to 1 <sup>st</sup> October 2022	03	➤ 1,3-Benzenedisulphonic acid; sulphanilic acid; o-, m-, p-chloronitrobenzenes; o-, m-, p-nitroanilines; o-, m-, p-phenylene diamines; Naphthol ASG
17	4 <sup>th</sup> October to 8 <sup>th</sup> October 2022	04	<ul style="list-style-type: none"> <li>➤ Naphthalene Derivative: Schaeffer acid; Tobias acid; Naphthionic acid; N.W. acid; cleve-6-acid; H-acid; Naphthol AS</li> <li>➤ Anthracene Derivative: 1-Nitroanthraquinone; 1-Aminoanthraquinone Anthraquinone-2-sulphonic acid; Benzanthrone</li> </ul>
	<b>TOTAL LECTURES</b>	<b>60</b>	

*Balawad*  
Signature of Teacher



*Bi*  
**PRINCIPAL**  
Signature of Head  
Mangaon Taluka Education Society's  
Doshi Vakil Arts College and  
G.C.U.B. Science & Commerce College  
Goregaon-Raigad (402 103)

# Doshi Vakil Arts College and G.C.U.B. Science & Commerce College

At.-Goregaon, Tal.- Mangaon, Dist.-Raigad-402103

## Teaching Plan for the Academic year 2021-2022

Name of Faculty: Dr. Vibhute B.T

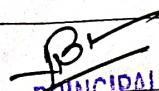
Name of the subject: Chemistry-2

.Class: S.Y. B.Sc.  
Semester: IV

We ek No	Date From Date to	No. of lecture allotted	Topic/Experiments to be Covered
1	15 <sup>th</sup> November to 20 <sup>th</sup> November 2021	1	➤ Unit-II Ions in aqueous medium
2	22 <sup>nd</sup> November to 27 <sup>th</sup> November 2021	1	➤ Acidity of Cations and Basicity of Anions
3	29 <sup>th</sup> November to 4 <sup>th</sup> December 2021	1	➤ Hydration of Cations; Hydrolysis of Cations predicting degree of hydrolysis of Cations-effect of Charge
4	6 <sup>th</sup> December to 11 <sup>th</sup> December 2021	1	➤ Hydration of Cations; Hydrolysis of Cations predicting degree of hydrolysis of Cations-effect of radius
5	13 <sup>th</sup> December to 18 <sup>th</sup> December 2021	1	➤ Latimer Equation. Relationship between pKa, acidity and z <sup>2</sup> / r ratios of metal ions
6	20 <sup>th</sup> December to 24 <sup>th</sup> December 2021	1	➤ Graphical Presentation
7	3 <sup>rd</sup> January to 8 <sup>th</sup> January 2022	1	➤ Classification of cations on the basis of acidity category – Non acidic, Moderately acidic, ,
8	10 <sup>th</sup> January to 15 <sup>th</sup> January 2022	1	➤ Classification of cations on the basis of acidity category –, strongly acidic, very strongly acidic with pKa values range and examples
9	17 <sup>th</sup> January to 22 <sup>nd</sup> January 2022	1	➤ Hydration of Anions; Effect of Charge and Radius;
10	24 <sup>th</sup> January to 29 <sup>th</sup> January 2022	1	➤ Hydration of anions concept, diagram classification on the basis of basicity
11	31 <sup>st</sup> January to 5 <sup>th</sup> February 2022	1	➤ Uses and Environmental Chemistry of volatile Oxides and oxo-acids
12	7 <sup>th</sup> February to 12 <sup>th</sup> February 2022	1	➤ Physical properties of concentrated oxo-acids like sulfuric
13	14 <sup>th</sup> February to 19 <sup>th</sup> February 2022	1	➤ Physical properties of concentrated oxo-acids like Nitric and
14	21 <sup>st</sup> February to 26 <sup>th</sup> February 2022	1	➤ Physical properties of concentrated oxo-acids Phosphoric acid
15	28 <sup>th</sup> February to 5 <sup>th</sup> March 2022	1	➤ Uses and environments aspects of these acids
16	7 <sup>th</sup> March to 12 <sup>th</sup> March 2022	1	➤ Discussion on important questions
	<b>TOTAL LECTURES</b>	<b>16</b>	

Signature of Teacher



  
**PRINCIPAL**  
 Signature of Head Society's  
 Mangaon Taluka Education Society's  
 Doshi Vakil Arts College and  
 G.C.U.B. Science & Commerce College  
 Goregaon-Raigad (402 103)

Mangaon Taluka Education Society's  
**Doshi Vakil Arts College and**  
**G.C.U.B. Science & Commerce College**  
 At.-Goregaon, Tal.- Mangaon, Dist.-Raigad-402103  
**Teaching Plan for the Academic year 2021-2022**

Name of Faculty: Dr. Vibhute B. T.

Name of the subject: Chemistry-2

Class: F.Y. B.Sc.

Semester: I

Week No.	Date From ___ Date to ___	No. of lecture allotted	Topic/Experiments to be Covered
1	20 <sup>th</sup> September to 25 <sup>th</sup> September 2021	1	➤ <b>Stereochemistry I</b>
2	27 <sup>th</sup> September to 1 <sup>st</sup> October 2021	1	➤ Introduction of stereochemistry
3	4 <sup>th</sup> October to 9 <sup>th</sup> October 2021	1	➤ Projection formulae: Flying Wedge projection,
4	11 <sup>th</sup> October to 16 <sup>th</sup> October 2021	1	➤ Projection formulae: Fischer Projection, Newman Sawhorse Projection formulae (of erythro, threo isomers of tartaric acid and 2,3 -dichlorobutane)
5	18 <sup>th</sup> October to 23 <sup>rd</sup> October 2021	1	➤ Projection formulae: Sawhorse Projection formulae (of erythro, threo isomers of tartaric acid and 2,3 -dichlorobutane) and their interconversions;
6	25 <sup>th</sup> October to 30 <sup>th</sup> October 2021	1	➤ Interconversions of projection formulas
7	15 <sup>th</sup> November to 20 <sup>th</sup> November 2021	1	➤ Geometrical isomerism in alkene and cycloalkanes notations with C.I.P rules.
8	22 <sup>nd</sup> November to 27 <sup>th</sup> November 2021	1	➤ cis-trans and syn-anti isomerism E/Z
9	29 <sup>th</sup> November to 4 <sup>th</sup> December 2021	1	➤ Optical Isomerism: Optical Activity, Specific Rotation, Chirality/Asymmetry
10	6 <sup>th</sup> December to 11 <sup>th</sup> December 2021	1	➤ Enantiomers, Molecules with two similar and dissimilar chiral-centres, Diastereoisomers,
11	13 <sup>th</sup> December to 18 <sup>th</sup> December 2021	1	➤ meso structures, racemic mixture and resolution
12	20 <sup>th</sup> December to 25 <sup>th</sup> December 2021	1	➤ Relative and absolute configuration: D/L designation
13	3 <sup>rd</sup> January to 8 <sup>th</sup> January 2022	1	➤ R/S designations.
			➤ Conformational analysis of alkanes (ethane, propane and n-butane);

14	10 <sup>th</sup> January to 15 <sup>th</sup> January 2022	1	➤ Relative stability
15	17 <sup>th</sup> January to 22 <sup>nd</sup> January 2022	1	➤ energy diagrams
<b>TOTAL LECTURES</b>		<b>15</b>	

*[Handwritten Signature]*

Signature of Teacher

*[Handwritten Signature]*

PRINCIPAL  
 Signature of Head  
 Mangaon Taluka Education Society's  
 Doshi Vakil Arts College and  
 G.C.U.B. Science & Commerce College  
 Goregaon-Raigad (402 103)

