

Bhairavnath Shikshan Mandal's
Bhiaravnath Vidynan Mahavidyalaya, Khutbav
Tal.Daund Dist.Pune

Weekly Academic Planner 2020-21

Class: T. Y. B.Sc. (Industrial Chemistry (CH-335)) (Total Lectures :48)

Name of Teacher- Asst.Prof. Memane Archana Dada

Month	Week 1 (4L)	Week 2 (4L)	Week 3 (4L)	Week 4 (4L)
Sept			1. Modern Approach to Chemical Industry (8L) <ul style="list-style-type: none"> ● Introduction, ● basic requirements of chemical industries, ● chemical production, ● raw materials, ● unit process and unit operations, ● Quality control, ● quality assurance, ● process control, ● research and development, ● pollution control, 	<ul style="list-style-type: none"> ● human r ● safety m ● classific ● chemica ● reaction ● and cont ● process, ● Convers ● selectivi ● yield, co ● act, ● patent ac ● trade ma
Oct	<ul style="list-style-type: none"> ● Assignment On First Chapter. ● Test On First Chapter . ● CH-2. Agrochemicals. General 	<ul style="list-style-type: none"> ● Pesticide formulation, ● slow release pesticide formulations, ● storage stability test, ● and Industrial entomology. 	<ul style="list-style-type: none"> ● Assignment On Second Chapter. ● Test On Second Chapter. CH-3. Manufacture of Basic Chemicals. (8L) <ul style="list-style-type: none"> ● Ammonia: Physicochemical 	Assignment On Chapter. Test On Third Chapter. CH-4. Petrochemicals and eco-friendly fuels .(8L) <ul style="list-style-type: none"> ● Introduc

	<p>introduction and scope of agrochemicals,</p> <ul style="list-style-type: none"> • meaning and examples of: Insecticides, • Herbicides, • Fungicides, • Rodenticides, • Pesticides, • Plant growth regulators. 	<ul style="list-style-type: none"> • Advantages and disadvantages of agrochemicals. • Structure,,: DDT, • BHC, • Warfarin, • Aldrin, • Endosulphan, • synthesis and application: DDT, • BHC and Endosulphan. • Biopesticides like Neem oil and Karanj oil. 	<p>principles involved,</p> <ul style="list-style-type: none"> • Manufacture of ammonia by modified HaberBosch process, • its uses. • b) Sulphuric acid: Physicochemical principles , • Manufacture of sulphuric acid by contact process, its uses. • c) Nitric acid: Physicochemical principles involved, Manufacture of nitric acid by Ostwald's process, • its uses. 	<ul style="list-style-type: none"> • occurrence • composition • petroleum • resource • processing • petroleum • calorific of fuel, • cracking • octane r (octane number) • cetane n • flash poi • and petr • refineries • applicati • petroche • synthetic • petroleum • lubricati • & additi • b) Fuels • eco-frien • fuels: lic • gaseous • (LPG, • CNG), • fossil fu • diesel, • bio dies • gasoline • aviation • Use of s • energy f • power • generati
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<p>Nov</p>	<p>CH-5. Food and Starch Industry .(8L)</p> <p>(a) Definition and scope, nutritive aspects of food constituents,</p> <ul style="list-style-type: none"> ● food deterioration factors and their control; ● (b) Preservation and processing: Heat and cold preservation and processing, ● cold storage, ● food dehydration and concentration, ● and preservation methods, fruits, ● beverages, ● cereals, ● grains, ● legumes and oil seeds; 	<ul style="list-style-type: none"> ● (c) Food additives: Enhancers, ● sugar substitutes, sweeteners, ● food colors, ● Starch industries: Chemistry of starch, manufacturing of industrial starch and its applications, characteristics of some food starches, ● non-starch polysaccharides-cellulose-occurrence. 	<p>CH-6. Cement and Glass industry .(8L)</p> <ul style="list-style-type: none"> ● Cement industry: Introduction, ● Importance, ● composition of portland cement, ● raw materials, proportioning of raw materials, ● setting and Hardening of cement, ● reinforced concrete. 	<ul style="list-style-type: none"> ● Glass in ● Introduc ● importan ● physical ● chemical ● properti ● glass, ch ● reaction. ● annealin ● glass Sp ● glasses: ● safety, ● hard, ● borosili ● optical, ● photosen ● conducti ● glass lan
<p>Dec</p>	<ul style="list-style-type: none"> ● Assignment On Fourth Chapter. ● Test On Fourth Chapter. 		<p>INTERNAL EXAMINATION</p>	

	<ul style="list-style-type: none">● Assignment On Fifth Chapter.● Test On Fifth Chapter.● Assignment On Sixth Chapter.● Test On Sixth Chapter.			
Jan				

Faculty Name:

Asst. Prof. Archana Memane

Principal