Date: 30.04.2021

NOTIFICATION

COMEDK UGET 2021 : Reduction of syllabus

COMEDK has notified **Sunday the 20th June 2021** as the date for conduct of its UGET 2021 for admission to Engineering Courses in COMEDK member institutions vide its notification dtd. 12.01.2021.

A detailed calendar of events and the information Brochure along with eligibility criteria in this behalf has been hosted on the website (www.comedk.org) 19.03.2021. The candidates are required to check the website for all the updates. It may be noted that "www.comedk.org" is the only official website of the Consortium and COMEDK is not responsible for information available on other websites / elsewhere.

Subsequently, it is learnt that the CBSE has reduced the syllabus which was inturn adopted as it is by the Karnataka State PU Board vide its circular dtd. 21.10.2020.

In view of the above, the portions that have been reduced from Class XII syllabus for COMEDK's UGET 2021 is annexed to this circular. However, it is made clear that entire syllabus of Class XI for the year 2019-20 will be considered..

Sd/-
Executive Secretary, COMEDK

Deleted portion from Class XII syllabus-Physics

Unit	Deleted portion
Unit 1: Electrostatics	• Uniformly charged thin spherical shell (field inside and outside)
Unit 2: Electrostatic potential and capacitance	Nil
Unit 3: Current electricity	Carbon resistors, colour code for carbon resistors; series an parallel combinations resistors
Unit 4: Moving charges and Magnetism	Cyclotron
Unit 5: Magnetism and matter	• Magnetic field intensity due to a magnetic dipole (bar Magnet) along axis and perpendicular to its axis. • Torque on a magnetic dipole (bar magnet) in a uniform magnetic field • Para-, dia and ferro – magnetic substances, with examples. • Electromagnets and factors affecting their strengths. Permanent magnets.
Unit 6 : Electromagnetic induction	Nil
Unit 7 : Alternating current	• Power factor • Wattles current
Unit 8 : Electromagnetic waves	• Basic idea of displacement current
Unit 9 : **Ray optics**	• Reflection of light, spherical mirrors, (recapitulation) mirror formula • Scattering of light – blue colour sky and reddish appearance of the sun sunrise and sunset.
Unit 10: Wave optics	• Resolving power of microscope and astronomical telescope • Polarisation, plane polarise light, Brewster's law, uses of plane polarised light and polaroids.
Unit 11: Duel nature of radiation	• Davisson-Germer experiment
Unit 12: Atoms	• NIL
Unit 13: Nuclei	• Radioactivity, alpha, beta and gamma particles/rays and their properties; radioactive decay law, hal life and mean life • Binding energy per nucleon and its variation with mass number
Unit 14: Semiconductor devices	• Zener diode and their characterestics, zener diode as a voltage regulator

Deleted portion from Class XII syllabus-Chemistry

Unit	Deleted portion
Unit 1 The Solid State	• Electrical properties • Magnetic properties
Unit II: Solutions	• Abnormal Molar masses
Unit III: Electrochemistry	• Galvanic Cells • Batteries; • Fuel Cells • Corrosion
Unit IV: Chemical Kinetics	• Temperature Dependence of the Rate of a Reaction • Collision theory of chemical reactions.
Unit V: Surface Chemistry	• Catalysis • Emulsions
Unit 6 General Principles and Processes of Isolation of Elements Entire unit is deleted.	**Unit 6 General Principles and Processes of Isolation of Elements Entire unit is deleted**
Unit VII: p-Block Elements	• Oxides of Nitrogen (structures) • Phosphorus - allotropic forms, • Phosphine; Preparation and properties • Phosphorous halides 7.9 Oxoacids of Phosphorus. • Sulphuric Acid: Industrial process of manufacture.
Unit VIII: d and f Block Elements	• Some important compounds of Transition elements • The Lanthanoids: Chemical reactivity of lanthanoids. • Actinoids –Electronic configuration, oxidation states and comparison with lanthanoids.
Unit IX: Coordination Compounds	• Isomerism in coordination compounds. • Importance and Applications of coordination compounds.
Unit X: Haloalkanes and Haloarenes.	• Polyhalogen Compounds

Unit	Deleted portion
Unit XI: Alcohols, Phenols and Ethers	• Some Commercially important Alcohols.
Unit XII: Aldehydes, Ketones and Carboxylic Acids	Nil.
Unit XIII: Amines	• Method of preparation of Diazonium salts. • Physical Properties • Chemical Reactions • Importance of Diazonium salts in synthesis of Aromatic Compounds.
Unit XIV: Biomolecules	• Disaccharides • Polysaccharides • Importance of carbohydrates. • Enzymes • Vitamins and Hormones
Unit 15 Polymers	**Entire unit is deleted.**
Unit 16 Chemistry in Everyday life	**Entire unit is deleted.**

Deleted portion from Class XII syllabus-Mathematics

Unit	Deleted portion
Unit 1: Relations and Functions	composition of functions and invertible functions
Unit 2: Inverse Trigonometric Functions	Graphs of inverse trigonometric functions Elementary properties of inverse trigonometric functions
Unit 3 : Matrices	existence of non-zero matrices whose product is the zero matrix. Concept of elementary row and column operations. proof of the uniqueness of inverse, if it exists
Unit 4: Determinants	properties of determinants Consistency, inconsistency and number of solutions of system of linear equations by examples
Unit 5: Continuity and Differentiability	Rolle's and Lagrange's Mean Value Theorems (without proof) and their geometric interpretation.
Unit 6: Applications of Derivatives	rate of change of bodies, use of derivatives in approximation
Unit 7 : Integrals	Integrals of the functions$\sqrt{(ax^2+bx+c)}$, and$(ax+b)\sqrt{(ax^2+bx+c)}$ Definite integrals as a limit of a sum
Unit 8: Applications of the Integrals	Area under multiple curves
Unit 9: Differential Equations	formation of differential equation whose general solution is given. Solutions of linear differential equation of the type: dx/dy+px=q,where p and q are functions of y or constants.

Unit	**Deleted portion**
Unit 10: Vectors	scalar triple product of vectors.
Unit 11: Three - dimensional Geometry	Calculating the Angle between (i) two lines, (ii) two planes, (iii) a line and a plane
Unit 12: Probability	mean and variance of random variable. Binomial probability distribution.