

## User profile

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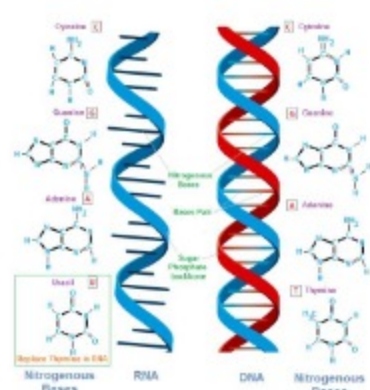


Abi T.G.

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Courses Details



### Biochemistry – Nucleic Acids and Buffer Systems

Started on: Monday, 16 November 2020

0%

1.Nucleic acids:Nucleic acid bases, Nucleosides, nucleotides, structure of DNA, RNA and its classifications, Replication of DNA, transcription, translation and Protein Biosynthesis. DNA fingerprinting Techniques, Introduction to Recombinant DNA technology. Genetic code, gene therapy (basic concept only), PCR. Chemical Synthesis of Nucleotides, Restriction enzymes. Chemistry of ATP,ADP and AMP.Buffer in pharmaceutical and biological system, pH, the buffer equation (Henderson Hesselbach), Buffer calculations, three important buffer systems in human body, buffer capacity, osmotic pressure and tonicity, pharmaceutical buffers, preparations of pharmaceutical buffer solutions.

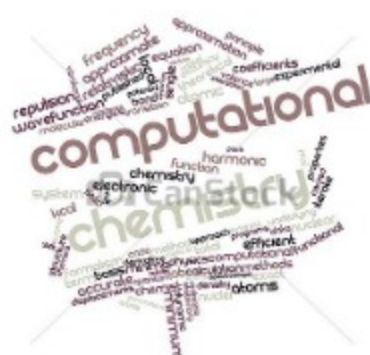


### Chemistry in Everyday life – Open Course

Started on: Monday, 20 July 2020

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Chemistry in Everyday life – Open Course: Chemistry is an integral part of everyday life. Whether it is the food we eat, the clothes we wear , the drugs we consume or the cosmetics we apply- there is chemistry in it. A general information of the chemistry behind these will create an awareness as to what is good and what is bad and to be discarded. For example, we come across a myriad of cosmetic products, which claim to increase our quality of life and well being. But in reality are they as advantageous as they claim to be? An insight into the processes involved in their production will give us ample information regarding these. Similarly we can also gather information as to what is the difference between the various types of soaps,their mode of action, why the disparity in their prices and why soaps are preferred over detergents. Likewise, a student can also become enlightened about the pros and cons of using processed food stuff, which is in vogue today. The above mentioned points are some of the benefits a student who opts to study this subject offered as a common course will receive. Modules: 1 Food additives and Flavours 2 Soaps 3 Synthetic Detergents 4 Cosmetics 5 Plastics, Paper and Dyes 6 Drugs 7 Chemistry and Agriculture

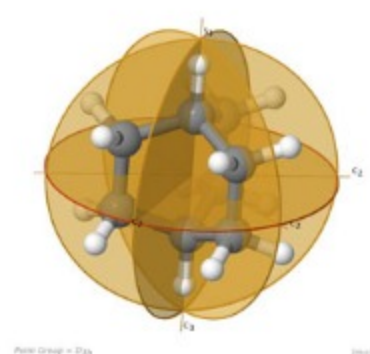


### Elective Computational Chemistry and Nano Chemistry

Started on: Tuesday, 10 November 2020

0%

Advances in Chemistry : Basic Computational and Nano chemistry for BSc Core Elective Students



### Group Theory of Inorganic Complexes S4 MSc

Started on: Thursday, 12 November 2020

0%

Transformation properties of atomic orbitals, hybridization schemes for sigma and pi bonding with examples, Hybrid orbitals as linear combinations of atomic orbitals. Ligand field theory- splitting of d orbitals in different environments using group theoretical considerations. M.O. diagrams, formation of symmetry adapted group of ligands,energy levels, construction of energy level diagrams, correlation diagrams, method of descending symmetry, d-d transition-selection rules, vanishing integrals. Selection rule for IR Transition, IR and Raman spectra of complexes with oxo anions as ligands.

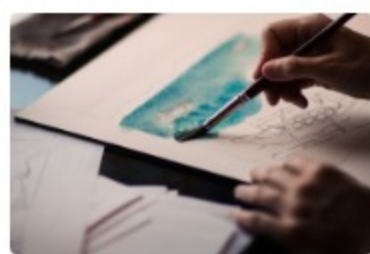


### Physical Chemistry S5 Solution Chemistry

Started on: Monday, 1 June 2020

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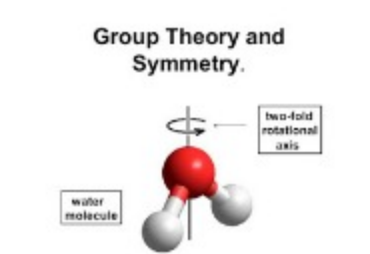
Ideal and Non ideal Binary Solutions. Distillation of binary liquids. Vapour pressure composition and boiling point-composition curves. CST. Lever Rule. Henry Law. Nernst distribution law. Colligative properties of dilute solutions. Thermodynamic derivation. Numerical Problems. Reverse osmosis – purification of sea water. Abnormal molecular masses – van't Hoff factor



### QUALITY IMPROVEMENT IN HIGHER EDUCATION

Started on: Saturday, 30 June 2018

0%



### Symmetry and Group Theory MSc S1

Started on: Thursday, 12 November 2020

0%

Semester one- Symmetry and Group Theory Common Theoretical Chemistry Course for MSc Chemistry and MSc Applied Chemistry



### THEORETICAL AND INORGANIC CHEMISTRY- I-Basic Concepts –IBSc Chemistry–Core Course

Started on: Thursday, 12 July 2018

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Remember the evolution of chemistry as a discipline of science Understand the basics concepts of chemistry and fundamental principles of analytical chemistry.

### Stay in touch

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<http://www.shcollege.ac.in/>

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