IPU CET B.Tech Syllabus

Mathematics:

- Relations and Functions
- Algebra
- Calculus
- Vectors and 3-D Geometry
- Linear Programming
- Probability

Chemistry:

- Solid State
- Solutions
- Electrochemistry
- Chemical Kinetics
- Surface Chemistry
- Isolation of Elements
- p-Block Elements
- d- and f-Block Elements
- Coordination Compounds
- Haloalkanes and Haloarenes
- Alcohols, Phenols and Ethers
- Aldehydes, Ketones and Carboxylic Acids
- Organic Compounds containing Nitrogen
- Biomolecules
- Polymers
- Chemistry in Everyday Life

Physics:

- Electrostatics
- Current Electricity
- Magnetic effect of current & Magnetism
- Electromagnetic Induction & Alternating Current
- Electromagnetic Waves
- Optics
- Dual Nature of Matter
- Atoms & Nuclei
- Electronic Devices

English:

- Reading Unseen Passages and Note-making
- Writing Skills
- Literature and Long Reading Text

IPU CET Syllabus of MBA and BBA Exam

Subjects	Syllabus
English Language & Comprehension	Grammar, Vocabulary, Uncommon words, Antonyms, Relationship between words & phrases, Sentence completion, Synonyms & Comprehension of passages etc.
Numerical Ability & Mathematics	Numerical calculation, Arithmetic, Trigonometry, Simple algebra, Geometry, Interpretation of graphs, charts and tables etc.
Logical Reasoning & Data interpretation	Creative thinking, Finding patterns, trends Unfamiliar relationships, Verbal reasoning & Assessment of figures & diagrams etc.
General Awareness	Knowledge of current affairs, Other issues related to trade, sports, culture, industry, economy, and science etc.

IPU CET Syllabus for M.Tech (Nano Science and Technology)

Physics:

- Interference
- diffraction
- Lasers
- Theory of Relativity
- The second law and Entropy
- Quantum Mechanics
- Quantum Statistics
- Band theory of solids
- X-rays
- Overview of Electro – Magnetism
- Numerical techniques
- Diffraction
- Polarization
- Optics
- Thermodynamics
- Refrigeration and liquefaction
- The Schrodinger wave equation (1 – dimensional)
- Applications
- Digital techniques and their applications (registers, counters, comparators and similar circuits) A/D and D/A converters Superconductivity
- Electricity and magnetism
- Nuclear Physics

Chemistry:

- Gaseous State
- Chemical thermodynamics
- Thermochemistry
- Third Law
- Electrochemistry

- Strong electrolytes
- Autocatalysis Colloids
- Chemical Bonding
- The phase rule
- First law
- Second Law
- Chemical Kinetics
- Surface Chemistry
- Catalysis
- Polymers
- Acids & Bases

Mathematics:

- Linear Independence and dependence of vectors
- Gauss elimination method
- Method of separation of variables
- linear equations
- Probability
- Systems of linear equations – consistency and inconsistency
- Successive differentiation
- Homogeneous
- exactness and integrating factors
- Directional Derivative etc.

Biology:

- History of earth
- Classification-two kingdom
- Chemicals of life
- Cell
- Transport
- Nutrition etc.
- theories of origin of life nature of the earliest organism
- Protista
- Histology
- Nutrition
- Energy Utilization