Project –Udaan

Programme Schedule

Physics, Chemistry and Mathematics Sessions

11th February 2017 and 12th February 2017

XII- WEEK 24 & XI – WEEK 18

Saturday, 11th February 2017		
1.00 pm – 2.45 pm		
	XII	**XI**
Subject	Mathematics	Mathematics
Topic	Vectors in 2- and 3-dimensional space, Cross product, Dot product	Derangements
2.45pm – 3.15pm – Break		
3.15 pm – 5.00 pm		
Subject	Physics	Physics
Topic	Energy levels, hydrogen spectrum, Composition and size of nucleus, atomic masses, isotopes, isobars; isotones, Mass-energy relation, mass defect; Binding energy per nucleon and its variation with mass number, nuclear fission and fusion	Pressure due to a fluid column; Pascal's law and its applications. Viscosity, Stokes' law, terminal velocity
Sunday, 12th February 2017		
	9.00 am – 11.30 am	**9.00 am – 11.30 am**
Subject	Chemistry	Mathematics
Topic	Preparation & Physical Properties of Amines, Diazonium Salt, Chemical Properties of Amines & Diazonium Salt	Binomial Theorem and its applications, General Term, Middle Term, Numerically greatest term
	11.30 – 12.30 Motivational Video & Lunch Break	**11.30 – 12.30 Motivational Video & Lunch Break**
	12.30 – 3.00pm	**12.30 – 3.00pm**
Subject	Mathematics	Chemistry
Topic	Scalar and vector triple products and their applications	Oxidation Reduction Basics and Application of Redox Reactions
	3.10pm – 4.40pm	**3.10pm – 4.40pm**
XII		**XI**
Assessment on topics of Week 23		**Assessment on topics of Week 17**
Weekly Feedback Session		