

## Project –Udaan

### Programme Schedule

#### Physics, Chemistry and Mathematics Sessions

**19<sup>th</sup> November,2016 and 20<sup>th</sup> November, 2016**

#### XII- WEEK 12& XI – WEEK 6

Saturday, 19 <sup>th</sup> November 2016		
1.00 pm – 2.45 pm		
	XII	XI
Subject	Chemistry	Mathematics
Resource Person	Mr. Divyashish Jindal	Mr. Rehan Nawaz
Topic	Introduction, Nomenclature, EAN rule, Werner's theory	Nature of roots of a quadratic equation
2.45pm – 3.15pm – Break		
3.15 pm – 5.00 pm		
Subject	Physics	Physics
Resource Person	Mr. Abhishek Tyagi	Mr. G K Mishra
Topic	Moving coil galvanometer, its current sensitivity and conversion to ammeter and voltmeter, Bar magnet as an equivalent solenoid, magnetic field lines; Earth's magnetic field and magnetic elements. Para-, Dia- and Ferro- magnetic substances, Magnetic susceptibility and permeability, Hysteresis, Electromagnets and permanent magnets.	Force and Inertia, Newton's First Law of motion; Momentum, Newton's Second Law of motion, Impulse; Newton's Third Law of motion
Sunday, 20 <sup>th</sup> November 2016		
	9.00 am – 11.30 am	9.00 am – 11.30 am
Subject	Chemistry	Mathematics
Resource Person	Mr. Divyashish Jindal	Mr. Rehan Nawaz
Topic	Valence Bond Theory, Crystal Field Theory , Crystal Field Theory & Isomerism	Relation between roots and coefficients, formation of quadratic equations with given roots
	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
Resource Person	Mrs. Seema Thakran	Dr.RakhiThareja
Topic	Monotonic Functions	Periodicity in Ionization Enthalpy, Electron Affinity, Electronegativity and Oxidation States
	3.10pm – 4.40pm	3.10pm – 4.40pm
	XII	XI
Assessment on topics of Week 11		Assessment on topics of Week 5