

***The Uranium***  
**Free 7-Day Chemistry Classes on**  
***Advanced Language of Chemistry(LOC) for class XI (+2 1st yr.)***  
**(15<sup>th</sup> to 21<sup>st</sup> May 2021) Daily 6.00 am – 8.30 am**

**(Detailed Circular)**

7 Day free online classes on *Advanced Level Language of Chemistry(LOC)* for class XI will be conducted by SS Tripathy, President, *The Uranium*(formerly Senior Reader in Chemistry, Ravenshaw College, Cuttack) from May 15<sup>th</sup> to 21<sup>st</sup>, 2021, daily during 6.00 am to 8.30 am through Zoom.

**Usefulness of the Course:**

Usually students are found weak in the language of chemistry. A sound knowledge and practice of Language of Chemistry will enable the students to dive deep into other aspects of chemistry, such as basic concepts including mole concept, stoichiometry and particularly in the area of inorganic chemistry much more confidently. This will help participants in the advanced level All India JEEs like IIT, NEET, AIIMS, KVPY etc.

**Who can participate?**

Students who have excellent academic record in Science and Maths and secured more than 90% in their school pre-board examinations from both **Odia**(BSE, odisha) and **English** (CBSE/ICSE) medium schools of Odisha can apply. Moreover, the student should be hard-working and passionate for learning higher level skills. The students from CBSE/ICSE should have a minimum conversational level knowledge in Odia language. Although the mode of teaching will be bilingual(English and Odia), the scientific terms will be discussed in English only. The explanation will be made in both the languages.

**Course Layout: (Advanced Language of Chemistry)**

1. Valency and Chemical Formula of Ionic Compounds
2. Solubility Rules and Ionic Equations
3. Oxidation Number and Covalency-Part 1
4. Oxidation Number and Covalency - Part 2 (Paradoxical ONs)
5. Oxidation and Reduction in the light of change in Oxidation Number: Assigning ON in Redox reaction equations and identifying Oxidizing and Reducing agents. Distinction between Redox from Non-Redox(Metathesis) reactions.
6. Balancing Redox Reaction equations by Oxidation Number method(Electron Balance Diagram Method)
7. Balancing Redox Reaction equations by Ion Electron Method
8. Eleven types of Metathesis(non-redox) Reactions (part-1 and 2)
9. Redox Reactions-Part 1 : many types of redox reactions

**(Each lecture will accompanied by Assignments (home task) which the participants have to work out, failing which his/her participation will be cancelled. Study materials of each lecture will be available in the YouTube Channel(sst chemistry).**

*Online test will be conducted at the end of the course and the top 10 will be rewarded.*

**Maximum intake for Online Class :** 80 from throughout the state.

**How to apply:**

With the following headings, the candidate is to apply in plain paper, sent through email ID(sudhansu.trips@gmail.com) or Whatsapp(9437064155). *Title of Application: **Application to join Free Online Classes in LOC for class XI/+2 1<sup>st</sup> year.***

1. Name of Student:
2. Father's Name
3. School from which X board appeared(appearing):
4. Your place of residence: **Place with District**
5. Stream : BSE(O), CBSE, ICSE
6. Percentage of marks in Science(Phy,chem, biology average) and Maths in X pre-board
7. Name of any of your teachers who would like to recommend you to join this course
8. **Your Whatsapp phone Number which you will use for online classes:**
9. Additional mobile number of your parents:
10. Your email ID if any :

***YouTube Channel:***

The lecture of each class will be uploaded in the *YouTube* channel(*sst chemistry*), and those who could not find a seat in 80 capacity, can watch the video and study from *YouTube* which will be available online free. The link to the study materials of each class will be available as pdf files in the description box of each YouTube Video. This will also include solutions to all the assignments. Participants and non-participants for this course can download the file for revision and matching their answers to assignments with the solution given there. Participants can clear their doubts, if any, in the class.

**Our contact: 9437064155**

**sudhansu.trips@gmail.com**

**Last Date of Application:** 10<sup>th</sup> May 2021. The registration will be done on first-come-first-serve basis. After registering 80 candidates, others (late applicants) will be kept in waiting list to be adjusted in case any vacancy arises due to the exit of a candidate for the reason of non-performance or otherwise.

**N.B: A whatsapp Group will be created for the participants by 11<sup>th</sup> of May and all information will be sent in that to the participants.**



(S. S. Tripathy)  
President, UTSE Board

