# Department of Chemistry
# National Institute of Technology Srinagar

## Attention B. Tech. Ist. Semester Students-Batch 2016

**Since Chemical Thermodynamics, Corrosion and its Prevention and Fuels has already been completed, the following Three units of B. Tech. Ist. Semester course in Chemistry will be covered in Next two weeks. For detailed syllabus see the Institute website.**

**1. CHEMICAL KINETICS AND CATALYSIS**

**2. ELECTROCHEMISTRY**

**3. MODERN METHODS OF CHEMICAL ANALYSIS PART**

**Books to be consulted:**

**Text Books:**


1. J.C. Kuriacose and J. Rajaraman: Chemistry in engineering and Technology, Volumes I and II ( Tata McGraw Hill Publishing Company Ltd. New Delhi)
2. P. C. Jain: Engineering Chemistry, (Dhanpat Rai and Sons, Nai Sarak, New Delhi).
3. Physical Chemistry – Puri, Sharma and Pathania.
4. Physical Chemistry – Maron and Prutton.
5. A text book of Engineering Chemistry, S. S Dara (Chand and Co., 1998).
6. Physical chemistry – Levine.
7. Engineering Chemistry – M. R. Balasubramaniam, S. Krishnamoorthy and V. Murugesan (Apllied Publishers Ltd- 1992).
8. Physical Chemistry – P. W. Atkins.
9. J.C. Kuriacose and J. Rajaraman: Chemistry in engineering and Technology, Volumes I and II ( Tata McGraw Hill Publishing Company Ltd. New Delhi)
10. P. C. Jain: Engineering Chemistry, (Dhanpat Rai and Sons, Nai Sarak, New Delhi).
11. Physical chemistry – Levine.
12. Electrochemistry- Bockris and Reddy.
13. Instrumental Methods of Analysis – C. N. Banwell.
14. Chemical kinetics – Laidler.

15. Chemical Kinetics and Mechanism by Mortiner and P. G. Taylor.

**Reference Books:**


1. C. V. Agarwal – Chemistry of Engineering Materials (Tata publishing Works, Varanasi).
2. L. A. Munro- Chemistry in Engineering (prentice Hall, New York).
3. O. P. Vermani and A. K. Narula- Applied Chemistry Theory and Practice, (Wiley Eastern Limited, New Delhi).
4. R. M.E. Diamand: Applied Chemistry for Engineers, (pitman).