**Lesson Plan (2018-19)**

**Dr. Jai Pal**

BSc I, Section B

Subject: Physical Chemistry

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| **Week** | **Date** | **Day** | **Topic** |
| **1** | **15 july 2018** | **Sunday** | ####################### |
| 18 july 2018 | Wednesday | Kinetic Molecular Theory of Gases, Maxwell’s distribution of velocities and energies (derivation excluded) |
| 19 july 2018 | Thursday | Calculation of root mean square velocity, average velocity and most probable velocity. |
| **2** | **22 july 2018** | **Sunday** | #################### |
| 25 july 2018 | Wednesday | Collision diameter, collision number |
| 26 july 2018 | Thursday | Collision frequency |
| **3** | **29 july 2018** | **Sunday** | ################## |
| 01 Aug-2018 | Wednesday | Mean free path (Derivations excluded |
| 02 Aug-2018 | Thursday | Deviation of Real gases from ideal behavior. |
| **4** | **05 Aug-2018** | **Sunday** | ############### |
| 08 Aug-2018 | Wednesday | Derivation of Van der Waal’s Equation of State,  |
| 09 Aug-2018 | Thursday | Its application in the calculation of Boyle’s temperature(compressibility factor) |
| **5** | **12 Aug-2018** | **Sunday** | ###################### |
| 15 Aug-2018 | Wednesday | **Govt Holiday, Independence Day.** |
| 16 Aug-2018 | Thursday | Continuity of states, the isotherms of Van der Waal’s equation, |
| **6** | **19 Aug-2018** | **Sunday** | ################## |
| 22 Aug-2018 | Wednesday | **Govt holiday due to Bakrid(Id)** |
| 23 Aug-2018 | Thursday | Relationship between critical constants and Van der Waal’s constants. |
| **7** | **26 Aug-2018** | **Sunday** | **Raksha Bandhan**  |
| 29 Aug-2018 | Wednesday | Critical compressibility factor.  |
| 30 Aug-2018 | Thursday | The Law of corresponding states. |
| **8** | **02 sept-2018** | **Sunday** | **################** |
| 05 sept-2018 | Wednesday | Structure of liquids, Properties of liquids – surface tension |
| 06 sept-2018 | Thursday | Refractive index, viscosity, vapour pressure and optical rotation. |
| **9** | **09 sept-2018** | **Sunday** | **##################** |
| 12 sept-2018 | Wednesday | **TEST** |
| 13 sept-2018 | Thursday | **Assignment-ist** |
| **10** | **16 sept-2018** | **Sunday** | **#################** |
| 19 sept-2018 | Wednesday | Viscosity, vapour pressure and optical rotation. |
| 20 sept-2018 | Thursday | Viscosity, vapour pressure and optical rotation. |
| **11** | **23 sept-2018** | **Sunday** | **####################** |
| 26 sept-2018 | Wednesday | Classification of solids |
| 27 sept-2018 | Thursday | Law of constancy of interfacial angles, |
| **12** | **30 sept-2018** | **Sunday** | **###################** |
| 03 Oct-2018 | Wednesday | law of rational indices, Miller indices |
| 04 Oct-2018 | Thursday | Elementary ideas of symmetry and symmetry elements, Seven crystal systems |
| **13** | **07 Oct-2018** | **Sunday** | ###################### |
| 10 Oct-2018 | Wednesday | **Govt Holiday, Agarsen Jayanti** |
| 11 Oct-2018 | Thursday | Bravis -Lattice |
| **14** | **14 Oct-2018** | **Sunday** | ################## |
| 17 Oct-2018 | Wednesday |  Numericals |
| 18 Oct-2018 | Thursday | **Govt. holiday, Dussehra** |
| **15** | **21 Oct-2018** | **Sunday** | ################### |
| 24 Oct-2018 | Wednesday | **Govt. Holiday, Maharishi Valmiki Jayanti** |
| 25 Oct-2018 | Thursday | Numericals |
| **16** | **28 Oct-2018** | **Sunday** | ############## |
| 31 Oct-2018 | Wednesday | **Assignment-2** |
| 01 Nov-2018 | Thursday | **Govt. holiday** |
| **17** | **04 Nov-2018** | **Sunday** | ################### |
| 06-13 |  | Vacation-I(Diwali) |
|  | 14 | Wednesday | KUK Exam |