**ENGINEERING CHEMISTRY**

**Laboratory Write-up**

**F. Y. B. Tech.**

**(First Year Semester I/ II)**

**Academic Year 2021- 2022**

**(KJSCE 2018 CBGS Pattern)**

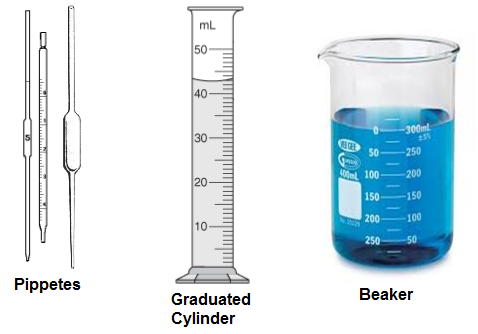
Instructions to the student

* Every student is expected to bring printouts of laboratory write-up/ assignments to be performed at the time of practical session as per his/ her schedule.
* Every student should take counter signature of the concerned faculty in-charge on the same day during laboratory session for the verification of outcomes of the experiment/ assignment.
* The write-up/journal would consist of all the experiments performed during the academic semester complete in all respect along with graded term test papers. The journal may contain additional assignments as prescribed by the concerned faculty in-charge.
* The journal shall content A-4 size papers unless it is instructed for a particular subject.
* The students can use additional A-4 sheets if necessary for writing.
* Every experiment/ assignment should bear a cover page in standard format given with this write-up file.
* The contents/ index of the journal should be as per the standard format given with this write-up file.
* Students are expected to follow the instructions given by concerned faculty during laboratory session from time to time.

**INDEX**

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| **No.** | **Name of the Experiment / Assignment** | **Date of performance** | **Date of**  **Submission**  **Correction** | **Remark / Grade / Signature** |
| 1 | To understand & familiarize with Good Laboratory Practices in Chemistry Laboratory | **13/10/2021** | **20/10/2021** |  |
| 2 | To understand the concept of pH indicator and to determine suitable indicator for acid-base titration. | **20/10/2021** | **10/11/2021** |  |
| 3 | To determine the hardness of water using EDTA titration. | **10/11/2021** | **17/11/2021** |  |
| 4 | To determine the chemical pollutants in water samples using advanced analytical techniques. | **17/11/2021** | **24/11/2021** |  |
| 5 | Determine the viscosity average molecular weight of a polymer | **24/11/2021** | **02/12/2021** |  |
| 6 | To study the construction and working of compression molding. | **02/12/2021** | **08/12/2021** |  |
| 7 | To find out the unknown concentration of the sample and verification of Beer-Lambert's Law | **8/12/2021** | **05/01/2022** |  |
| 8 | To determine the available nitrogen in the soil sample by Kjeldahl Method | **15/12/2021** | **05/01/2022** |  |
| 9 | To measure the EMF of a cell and predict the spontaneity of the cell reaction. | **05/01/2022** | **19/01/2022** |  |
| 10 | Interpretation of IR spectra | **12/01/2022** | **19/01/2022** |  |

COMMON LABORATORY GLASSWARES

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