**Patan Multiple Campus**

Practical No. 7: Design of Experiments

Level:- TU BCA 3rd Semester

Date:- 2081/01/22

Subject: Probability and Statistics (CACS-202)

Roll No:- 13/080

Name: Bimal Acharya

Question:-

The following table gives the data on the performance of three different detergents at three different Water temperatures. The performance was obtained on the ‘Whiteness’ reading based on specially designed equipment for twelve loads of washing.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Detergents**  **Water** | A | B | C | D |
| Employee2 | 45 | 43 | 55 | 60 |
| Employee3 | 37 | 40 | 56 | 62 |
| Employee4 | 42 | 44 | 46 | 55 |

Perform two-way ANOVA, using level of significance **α = 0.05**

Working Expression: