

SARAT CENTENARY COLLEGE**Department of Physics****Date: 23.01.2022****Submission of assignments for Internal Assessment (3rd Semester:2021-22)****For B.Sc General Course (Pure Science-Physics)**

Paper	Assignment Description(5 Marks for each assignment)	To be submitted to the Email ID
CC-1C/GE-3 (Thermal Physics and Statistical Mechanics)	1) Using 1 st TdS equation show that for an Ideal gas $S = C_V \ln\left(\frac{T}{T_0}\right) + R \ln\left(\frac{V}{V_0}\right) + S_0$ Where the symbols bear the usual meaning 2) Show that $\gamma = 1 + \frac{2}{f}$ Where, γ = Ratio of two specific heats of gases and f = Number of degrees of freedom	satyabratab@sccollegednk.ac.in satya_brata_bhattacharya@yahoo.co.in Ph No- 9874331835

The assignment written on A4 size paper must carry the following details of the student:

1. Name of the Student
2. University Roll number:
3. University Registration number:
4. Paper Name:
5. Student's Mobile Number:

(Example: Name- Rita Saha, Univ. Roll No.- 190241200004, Registration No.- 201901050430 Of 2019-20, Paper- CC-1C or GE-3, Mobile No.- 9830098300)

Last date of submission: 30th January 2022

Send the scan copy of the hand written assignment to the respective email id as mentioned above.

If due to technological limitation or for any other valid reason any student faces problem in sending the assignment he/she must communicate the matter by **30th January 2022** for alternative arrangement to the mobile number 9874331835.

Sd/-

Dr Satyabrata Bhattacharya
HOD of Physics
Sarat Centenary College

Sd/-

Dr Sandip Kumar Basak
Principal
Sarat Centenary College