



UNIVERSITY OF CALCUTTA

GURUPADA SAREN

SECRETARY

COUNCILS FOR UNDERGRADUATE STUDIES,
UNIVERSITY OF CALCUTTA.

Ref.No : CUS/ 201 (Cir.) /24
Dated the 07th August, 2024

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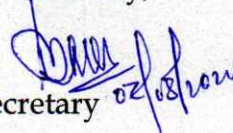
To
The Principals
of all the U.G. Colleges
offering Physics (Honours)
affiliated to the University of Calcutta

Sir/ Madam,

The undersigned is directed to forward you the Guidelines & Question pattern (copy enclosed) for SEC-2 (La Tex) and both the SEC-3 papers (Arduino / Introductory Data Analysis) of Physics (4-year Honours & Honours with Research) courses of studies under CCF.

Thanking you,

Yours faithfully,


Secretary

Guidelines and Modalities for SEC-2 (La Tex) and SEC-3 papers (Arduino / Introductory Data Analysis)

(a) For SEC-2:

- The students have to do a project on Typesetting with LaTeX in their home institution under the supervision of their teachers, which will be evaluated by an external examiner during the final examination. This will carry 60 marks. The students have to submit a soft copy of the source code and the compiled pdf output to the respective teacher(s), and a hard copy of the pdf output during the final examination.
- Apart from that, the students have to appear for an examination to be held at an away centre (40 marks). The goal of the examination will be to check their basic proficiency in LaTeX.
- The total course will have 4 Credits (100 marks).
- The project should be such that the student learns the following features and uses them in his/her project, made in *article* documentclass:

(1) Basic typesetting;

(2) Mathematical symbols and equations (as many as possible, e.g., Greek symbols, subscripts and superscripts, parentheses, fractions, sums, integrals, matrices, numbering and alignment of equations);

(3) Tables and arrays;

(4) Plots and figures with framing and caption (and use of float environments with `\begin{table}` or `\begin{figure}`);

(5) List environments in LaTeX (enumerate, itemize, description);

(6) Dividing the document into sections and subsections;

(7) Page layout like controlling of margins (optional);

(8) Use of different fonts and with different sizes;

(9) Creating a bibliography.

The file should directly be compiled to pdf format. Online editors like *Overleaf* may be used.

(b) For SEC-3 with 1 Credit for Theory and 3 Credits for Lab, one theory paper with 8 short questions (out of which 5 have to be answered) will be set centrally by the University. This will carry 25 marks. The day-to-day evaluation by the home institution teachers should carry 25 marks. The final examination should be held in away centre. 40 marks should be allotted for the experiment performed on that day, and 10 marks for the viva-voce.