

Instructions

Your task in this lab quiz is to submit the \LaTeX code which would generate this PDF document (except for this page) — exactly *as-it-is*. The page color of the following pages is **cyan**. You can use `\blindtext` and `\usepackage{blindtext}` to generate dummy text. All cross-referencing in Section 7 should be done programmatically and not manually. Please submit a single file named `rollNumber.tex`, where `rollNumber` should be replaced with your IIT Dharwad roll number.

All the best!

L^AT_EX Lab Quiz

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1 Figures



Figure 1: IIT Dharwad Logo

2 Tables

Table 1 displays the marking scheme of this course.

Mid-sem	End-sem	Lab quizzes	Project
15	15	50	20

Table 1: Marking Scheme

3 Mathematics

Einstein’s famous equation is $E = mc^2$, which can also be expressed as follows.

$$\begin{aligned} E &= mc^2 \\ &= (\sqrt{mc})^2 \\ &= \left(\sum_{i=1}^1 \frac{(m^{i/2})}{i/c} \right)^2 \end{aligned} \tag{1}$$

4 Sections

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4.1 Sub-section

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5 Lists

The evaluation components of this course includes:

- Mid-sem
- End-sem
- Lab quizzes
- Project

The top three most spoken languages in the world are as follows.

1. English
2. Mandarin
3. Hindi

6 Bibliography

Naning et al. [1] investigate the SDN controller placement design for large scale production network.

Fan et al. [2] explore controller placements for improving flow set-up reliability of software-defined networks.

Galuba et al. [3] discuss about out-tweeting the Twitterers — Predicting Information Cascades in Microblogs.

7 Cross-referencing

Section 1 demonstrates the use of figures, by displaying the IIT Dharwad logo in Fig. 1.

Section 2 demonstates the use of tables in L^AT_EX.

Section 3 demonstrates the use of mutliline mathematical equations, along with `\sqrt` notation, fractions, etc. Equation 1 shows Einstein’s famous equation in multiple forms.

Section 4 demonstrates the use of sub-section (i.e. 4.1) and one sub-sub-section (viz., 4.1.1).

Section 5 demonstrates the lists of type `itemize`, `enumerate` and `description`.

Section 6 demonstrates the use of bibliography to cite three references [1, 2, 3].

Section 7 demonstrates the use of cross-referencing (sub-)sections, equations, figures, tables, etc.

References

- [1] H. S. Naning, R. Munadi, and M. Z. Effendy, “Sdn controller placement design: For large scale production network,” in *2016 IEEE Asia Pacific Conference on Wireless and Mobile (APWiMob)*, 2016, pp. 74–79.
- [2] Y. Fan, T. Ouyang, and X. Yuan, “Controller placements for improving flow set-up reliability of software-defined networks,” in *Urban Intelligence and Applications*. Springer, 2020, pp. 3–13.
- [3] W. Galuba, K. Aberer, D. Chakraborty, Z. Despotovic, and W. Kellerer, “Outtweeting the twitterers — predicting information cascades in microblogs,” in *3rd Workshop on Online Social Networks (WOSN 2010)*, 2010.