



# UBD Beamer Theme

An unofficial theme for *Universiti Brunei Darussalam*

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# Overview

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- Lists

- Blocks

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- Colour palette

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# Introduction

The UBD Beamer Theme is a modern and minimal theme designed for getting information across in a clean and uncluttered manner.

This theme is based on the Saarland Beamer Theme, with its logos and fonts changed, and colour scheme adapted to UBD's pastel-ised colour scheme.

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# Slide full of lists

*Universiti Brunei Darussalam* (UBD; translation University of Brunei Darussalam; Jawi: **يونبيرسيٲي بروني دارالسلام**) is the first university in Brunei.

- UBD in figures
  - **Established:** 1985
  - **Medium of instruction:** English
  - **Academic faculties:** 9
  - **Research Institutes:** 7
  - **Student enrolment:** 3,137 (in 2015, approx.)
- History
  - **1985:** UBD established, first campus in Gadong
  - **1995:** UBD moved to Tungku Link
  - **2009:** Introduction of GenNEXT Programme
  - **2011:** Commencement of the first Discovery Year programme
- Credits: <https://ubd.edu.bn/> and Wikipedia

# Blocks

This is a subtitle

## Standard Block

This is a standard block using the `block` environment.

## Example Block

This is an example block using the `exampleblock` environment.

## Alert Block

This is an alert block using the `alertblock` environment.

# Quotation

*Archimedes will be remembered when Aeschylus is forgotten, because languages die and mathematical ideas do not. "Immortality" may be a silly word, but probably a mathematician has the best chance of whatever it may mean.*

— G. H. Hardy in *A Mathematician's Apology*, 1941

# Two Columns

We can also add two columns in the slides.

This is the first column. In this column, we can also add a block for instance.

Block

I am a block in a column.

- In this column,
- we just add the
- bullet points.



# Colour palette

- Frame titles: navyblue
- Structure: gray
- Standard block: charcoal
- Alerted block: solidpink
- Alerted block bg: queenpink
- Example block: myrtlegreen
- Example block: lightcyan
- Misc 1: orangecrayola
- Misc 2: paradisepink

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# Mathematics

Let  $X \sim \text{Pois}(\lambda)$ . The probability mass function of  $X$  is given by

$$\Pr(X = x) = \frac{e^{-\lambda} \lambda^x}{x!}. \quad (1)$$

Using the pmf given in (1), we can derive the moment generating function for  $X$  to be:

$$\begin{aligned} M_X(t) &= \sum_{k=0}^{\infty} e^{tx} \cdot \frac{e^{-\lambda} \lambda^x}{x!} \\ &= e^{-\lambda} \sum_{k=0}^{\infty} \frac{(\lambda e^t)^x}{x!} \\ &= e^{-\lambda} e^{\lambda e^t} \\ &= \exp\{\lambda(e^t - 1)\}. \end{aligned}$$

# Theorems et al.

## Definition 1 (Prime numbers)

A prime number is a natural number greater than 1 that is not a product of two smaller natural numbers.

## Theorem 2 (Infinitude of primes)

There are an infinite number of prime numbers.

## Proof.

Suppose that there exist only a finite number of primes,  $p_1, \dots, p_n$ , say.  
The number

$$N = 1 + p_1 \cdots p_n$$

is divisible by some prime  $p$ . But  $p$  cannot be any of  $p_1, \dots, p_n$ , since the latter all leave remainder 1 on dividing  $N$ . This contradicts our assumption that  $p_1, \dots, p_n$  is the complete list of primes. ■

# A maths example

Maths examples are continuously numbered (using the example environment).

## Example 3 (Examples of prime numbers)

2, 3, 5, 7 and 11 are examples of prime numbers.

## Example 4 (Examples of non-prime numbers)

Since  $4 = 2 \times 2$ , it is not a prime.

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# Citations

The importance of grounding one's self in elementary probability theory and mathematical statistics cannot be overstated. Here are some excellent fundamental textbooks every student of statistics should read: Casella and Berger (2002), Pawitan (2001), and Wasserman (2004).

## Warning

Using fancy tools like neural nets, boosting, and support vector machines without understanding basic statistics is like doing brain surgery before knowing how to use a band-aid (Wasserman, 2004).

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The biblatex package is highly suggested. This footnote was created using the custom `\blfootnote{}` command.

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# Conclusion

To use this theme, download the .sty files and image files (for the logo and banner) from <https://github.com/haziqj/ubd-beamer>, and place the files together with your  $\text{\TeX}$  source files. Use the sample slides.tex as a guide.

**End**

Thank you!

# References I

- Casella, G. and R. L. Berger (2002). *Statistical Inference*. 2nd ed. Pacific Grove, CA: Duxbury. ISBN: 978-0-534-24312-8.
- Pawitan, Y. (2001). *In All Likelihood*. Statistical Modelling and Inference Using Likelihood. Oxford University Press. ISBN: 978-0-19-850765-9.
- Wasserman, L. (2004). *All of Statistics. A Concise Course in Statistical Inference*. New York: Springer-Verlag. ISBN: 978-0-387-40272-7. DOI: 10.1007/978-0-387-21736-9.

What this is

Backup topic 1

Backup topic 2

# Backup slides

Often times in a presentation, we don't have enough time to present everything, but it's a good idea to prepare backup slides in case the audience asks about it afterwards.

We can achieve that using the `\appendix` usage.

What this is

Backup topic 1

Backup topic 2

# Backup topic 1

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

What this is

Backup topic 1

Backup topic 2



## Backup topic 2

### A block

Quisque ullamcorper placerat ipsum. Cras nibh. Morbi vel justo vitae lacus tincidunt ultrices. Lorem ipsum dolor sit amet, consectetur adipiscing elit. In hac habitasse platea dictumst. Integer tempus convallis augue. Etiam facilisis. Nunc elementum fermentum wisi. Aenean placerat. Ut imperdiet, enim sed gravida sollicitudin, felis odio placerat quam, ac pulvinar elit purus eget enim. Nunc vitae tortor. Proin tempus nibh sit amet nisl. Vivamus quis tortor vitae risus porta vehicula.