

# Faculty of Computing

## Year 2 Semester 1 (2025)

IT2120 - Probability and Statistics

Lab Sheet 06

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```
> dbinom(40,44,0.92)
[1] 0.1979776
> pbinom(35,44,0.92,lower.tail = TRUE)
[1] 0.007252274
> 1- pbinom(37,44,0.92,lower.tail = TRUE)
[1] 0.9412233
> pbinom(37,44,0.92,lower.tail= FALSE)
[1] 0.9412233
> pbinom(42,44,0.92,lower.tail = TRUE)-pbinom(39,44,0.92,lower.tail = TRUE)
[1] 0.6025556
> dpois(6,5)
[1] 0.1462228
> ppois(6,5,lower.tail = FALSE)
[1] 0.2378165

> pbinom(42,44,0.92,lower.tail = TRUE)-pbinom(39,44,0.92,lower.tail = TRUE)
[1] 0.6025556
> dpois(6,5)
[1] 0.1462228
> ppois(6,5,lower.tail = FALSE)
[1] 0.2378165
> 1- pbinom(47,50,0.85,lower.tail=TRUE)
[1] 0.01418852
> pbinom(47,50,0.85,lower.tail = FALSE)
[1] 0.01418852

[1] 0.2378165
> 1- pbinom(47,50,0.85,lower.tail=TRUE)
[1] 0.01418852
> pbinom(47,50,0.85,lower.tail = FALSE)
[1] 0.01418852
> dpois(15,12)
[1] 0.07239112
>
```