# Japanese / English

## Course title
Introductory statistics for life science

## Term
後期 2nd Half

## Credit(s)
1

## School/Program
School of Life Science

## Department/Program
Common Subjects of Life Science

## Category
Common

## Lecturers
Junji Nakano

## Instructor

<table>
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<tr>
<th>Full name</th>
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<td>* NAMBU ATSUSHI</td>
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## Outline
Basic knowledge and skills in statistical analyses useful for brain science research will be introduced in lectures using statistical software.

## Goal
1. To understand principles of Descriptive statistics (including data visualization) and Inferential statistics (including hypothesis testing and parameter estimation).
2. To obtain basic skills in Multivariate analysis and Time series analysis.
3. To introduce principles of Big data analysis.

## Grading system

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<td>01: Four-grade evaluation (A, B, C, D)</td>
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## Grading policy
Based on attendance, projects and homeworks etc.

## Lecture Plan
Schedule: February, 2023 (2days.)
(9:15~10:45, 11:00~12:30, 13:30~15:00, 15:15~16:45 on both day)
1. Descriptive statistics
2. Probability I
3. Probability II
4. Estimation I
5. Estimation II
6. Hypothesis testing I
7. Hypothesis testing II
8. Multivariate methods

## Location
Zoom online

## Language
Spoken- language in this subject changes alternately: English in 2022

## Textbooks and references
None

## Related URL
http://sbs.jp.nips.ac.jp/schedule/

## Explanatory note on above URL
Please keep be updated on the latest schedule from “Schedule of the classes” on the program website.

## Others
No particular background knowledge is required.

## Keyword
SOKENDAI Integrative Brain Science Course