

Confirm - Syllabus

Japanese / English

Update

Course title	Basic information brain science		
Term	後期 2nd Half		
Credit(s)	1		
The main day		The main period	
School/Program	School of Life Science		
Department/Program	Dept. Physiological Sciences		
Category	Dept. Physiological Sciences		
Lecturers	Keiichi Kitajo, Shohei Tsuchimoto, and others		

Instructor	
Full name	
* NAMBU ATSUSHI	

Outline	Bases of information brain science can be learned through 4 lectures and 6 practice classes. Students shall work on their own PC to learn basic programming
Goal	<ul style="list-style-type: none"> <li>• Can operate the PC using commands.</li> <li>• Can handle vast amount of data by utilizing computer programming.</li> <li>• Can think of how to utilize computer programming to the students's own studies by reviewing latest studies.</li> </ul>

Grading system	
Grading system	01:Four-grade evaluation (A, B, C, D)

Grading policy	<ul style="list-style-type: none"> <li>• Students must attend at least half of the lectures to get credit.</li> <li>• Assignments given in class (100%)</li> </ul>
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Lecture Plan	<p>2022, October - December, Wednesdays, 10:00-11:30</p> <p>Contents:</p> <p>Oct.12 Lecture : General Introduction (Kitajo)</p> <p>Oct.19 Practice : MATLAB1 Basic commands, calculation (Kitajo)</p> <p>Oct.26 Practice : MATLAB2 Basics of writing scripts (for, if sentences) (Tsuchimoto)</p> <p>Nov.2 Practice : MATLAB3 One dimensional Fourier transform 1, creating figures(2Dplot) (Okazaki)</p> <p>Nov.9 Practice : MATLAB4 One dimensional Fourier transform 2 (Yamamoto)</p> <p>Nov.16 Practice : MATLAB5 Two dimensional Fourier transform (Uehara)</p> <p>Nov.30 Practice : MATLAB6 Image signal processing (Koike)</p> <p>Dec.7 Lecture : Introduction to deep learning (Chikazoe)</p> <p>Dec.14 Lecture : High performance computing : HPC (Fukunaga)</p> <p>Dec.21 Lecture : Biological image informatics (Kato)</p>
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Location	NIPS Myodaiji 1F Lecture room / Zoom online Remote lecture
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Language	English
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Textbooks and references	None
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Related URL	<a href="http://sbsjp.nips.ac.jp/schedule/">http://sbsjp.nips.ac.jp/schedule/</a>
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Explanatory note on above URL	Please keep be updated on the latest schedule from " Schedule of the classes" on the program website.
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Others	Pre-requisites: Only those who have registered and participated in "Basic physiological and anatomical brain science" are eligible for attending this class. However, students who have entered SOKENDAI in fall may register for the course.
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Keyword	Integrative brain science course
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