Cyberception

Roy Ascott Studio BA in Technoetic Arts
如：SIVA-DETAO ADVANCED CLASS TECHNOETIC ARTS PROGRAM
Place: DeTao Building at Shanghai Institute of Visual Arts (SIVA), Shanghai, China

MODULE DETAILS:

Course Title:	Technoetic Arts
Module Title:	Cyberception
Module Code:	
Year:	One
Semester:	One
Credits:	2
Hours/Week:	2
Hours/Semester:	38 hours/semester
Organizer/lecturer: Assistant:	Clarissa Ribeiro Sandra Alvaro
Building/Room:	DeTao, 12th Floor, Technoetic Arts Computer Classroom and Regular Classroom

MODULE DESCRIPTION:
A series of lectures focusing on the introductory study of the emergent faculty of cyberception, understood as the technologically enhanced interactions of human perception and cognition, considering the implications of new modes of behaviour for future cultural and social structures and systems. The students will be introduced to studies concerning mainly technological augmentation as an extension of the human body, mind, and intellect, allowing the exploration of extended perception and cognition.

MODULE LEARNING OBJECTIVES:
At the end of the module the students will be able to:

- Be able to develop their own relational approaches by getting involved in the production of the exercises based on the exploration of extended perception and cognition;
- Understand cyberception as the defining behavior of a possible transpersonal art involving communicating, sharing, collaborating
- Have a clear understanding of concepts as networks and planetary consciousness, augmentation of collective intelligence, perception gand virtual/augmented reality, models of interaction, connectivity aesthetics, technoetics.

MODULE OUTLINE:
The classes will be structured by the oriented effort of building producing a series of exercises <<cyberceptive collages>>, including practical and theoretical outcomes, that represents/illustrates/embodies the concepts explored in the classes through the reading/watching and reporting of relevant texts/books/films, involving communicating, sharing, collaborating, enabling them to transform their selves, transfer their thoughts and transcend the limitations of their bodies'.

MAIN PERSPECTIVE: <<THE TAO OF CYBERCEPTION>> tao is a Chinese concept signifying way, path, route, doctrine, principle. "It is cyberception that allows us to interact fully with the flux and fuzz of life, to read the book of changes, to follow the tao." (The Architecture of Cyberception (C) Roy Ascott 1994)

CLASSES PERSPECTIVE: The course is designed as a series of emergent dynamics' seminars based on selected case studies, and online search starting from predefined keywords, producing <<cyberceptivecollages>>, the way I named the outputs that could be described as "expanded semantic compositions", inspired by John McHale's <<Transistor collages>> (1954), which visually codified the process of communication using the new invention of the transistor.

WEEK	HOURS	CONTENT
1	2	Fresh man reception
2	2	INTRODUCTION CYBERCEPTION(Sandra Alvaro) Class 01: Introduction TOPICS: Definition of Cyberception (Roy Ascott: Technoetic Aesthetics), Introduction to different art definitions, Art and Perception, Art and knowledge ASSESMENT: Collective discussion: what is art for you?

3	2	MODULE 1 CYBERCEPTION (Sandra Alvaro) Class 02: Artifact consciousness TOPICS: Consciousness and machines, Communication as a social system and learning process (G.Pask), The abstract theory of information (C.Shannon) ASSESMENT: (In groups) Create a message and disseminate it (Individual) Noise as a source of variability and creation The students will capture an image emitted on television and intervene it artistically to change the message
4	2	Day-off (National holydays)
5	2	MODULE 1 CYBERCEPTION (Sandra Alvaro) Class 03: ARTIFACT CONSCIOSNESS TOPICS: Can machines think? The imitation game and the universal machine (Alain Turing), Computation as knowledge (historical antecedents): Ars Magna (Ramon Llull), Leibniz, Napier, automatization (Babbage and Adda Lovelace) ASSESMENT: Performing social algorithms The students will think in algorithms aimed to sort the members of the classroom in different ways and sketch out these algorithms in flowcharts
6	2	MODULE1 CYBERCEPTION (Sandra Alvaro) Class 04 ARTIFACT CONCIOUSNESS TOPICS: Can machines learn? The answer to the Adda Lovelace objection (see on the previous session) Cellular Automata and the realization of the Universal Machine ASSESMENT: MediaArt Database: Art and Communication and Algorithmic Art The students are required to do on-line research on media art databases about the proposed topics and build an artworks' database (template provided by the teacher). At the end of the module they will prepare a presentation of one of the artworks included on their databases
7	2	MODULE 2 CYBERCEPTION (Clarissa Ribeiro) Class 07: A WOVEN INTERDEPENDENCY TOPICS: A new symbiosis - how man's relationship to cybernetic systems as a more closely woven interdependency resembling his natural ecological ties; ASSESMENT: Under the supervision of the Lecturer, the students will produce: *TWO CASE STUDIES: HAUS-RUCKER-CO AND JOHN
8	2	MODULE 2 CYBERCEPTION (Clarissa Ribeiro) Class 08: THE SENSE OF THE INTERFACE TOPICS: the sense of the individual; the sense of the interface; computer-mediated; computer-enhanced; new ways of conceptualizing and perceiving reality – the post-biological faculty of "cyberception"; ASSESMENT: Under the supervision of the Lecturer, the students will produce: *SUPERHEROS: CYBERCEPTION AS A SUPERPOWER
9	2	MODULE 2 CYBERCEPTION (Clarissa Ribeiro) Class 09: TRANSPERSONAL EXPERIENCE TOPICS: Transpersonal art; transpersonal technology; interconnectedness of all things; networks, hypermedia, cyberspace; ASSESMENT: Under the supervision of the Lecturer, the students will produce: *CYBERCEPTION-EXPERIMENTAL: (SEE YOURSELF SENSING) – PART 1

10	2	MODULE 2 CYBERCEPTION (Clarissa Ribeiro) Class 10: TELEMATIC UNITY TOPICS: The holomatic principle; memory of the network; apparitions of cyberspace; out of body; ASSESMENT: Under the supervision of the Lecturer, the students will produce: *CYBERCEPTION-EXPERIMENTAL: (SEE YOURSELF SENSING) – PART 2 *FARWAY SO CLOSE: NEW VERSION FOR U2 STAY (IN Chinese or English)
11	2	MODULE 3 CYBERCEPTION (Sandra Alvaro) Class 11: NETWORKS AND THE AUGMENTED MIND TOPICS: The Net: How machines communicate one each other: the development of INTERNET, How man communicate with machines: the development of HYPERTEX (Ted Nelson and T. Berners Lee) ASSESMENT: Hypertext Narrative (scripting in html) The students will create a short text and link it to the texts of their classmates to create a hypertextual story (reference: “La Plissure du texte” by Roy Ascott).
12	2	MODULE 3 CYBERCEPTION (Sandra Alvaro) Class 12: NETWORKS AND THE AUGMENTED MIND TOPICS: The evolution of the Web: from the web of documents to the social web. Introduction to Collective Intelligence (Pierre Levy) ASSESMENT: Hypertext and Collective Intelligence (scripting in html) The teacher will propose a list of words related to the topics of the module. The students must choose one of the proposed words and build a hypertext, trying to assemble all the information about this word they can find on the net.
13	2	MODULE 3 CYBERCEPTION (Sandra Alvaro) Class 13: NETWOKS AND THE AUGMENTED MIND TOPICS: The evolution of the Web: from the web of documents to the social web. Introduction to Collective Intelligence (Pierre Levy) ASSESMENT: Hypertext and Collective Intelligence (scripting in html) The teacher will propose a list of words related to the topics of the module. The students must choose one of the proposed words and build a hypertext, trying to assemble all the information about this word they can find on the net. After, the students all together, assisted by the teacher, will try to build links between their Hypertexts.
14	2	MODULE 3 CYBERCEPTION (Sandra Alvaro) Class 14: NETWORKS AND THE AUGMENTED MIND TOPICS: Telematic Art: The Cybernetic Art Matrix ASSESMENT: MediaArt Database: Telematic Art The students are required to do on-line research about the proposed topics and build a database (template provided by the teacher). At the end of the module they will prepare a presentation of one of the artworks included on their databases
15	2	MODULE 4 CYBERCEPTION (Clarissa Ribeiro) Class 15: PERCEIVING INFINITE COMPLEXITIES TOPICS: Extension of intelligence; bio computers; quantum computers; perceiving

		infinite complexities - getting a sense of a whole. ASSESMENT: Under the supervision of the Lecturer, the students will create: *QUANTUM FICTIONS: ART|SCI PROJECT – PART 1>> (WEARABLE/INSTALLATION) Reference (aesthetics): 'Performing Quantum Entanglement: Subtle Apparatuses for Complex Affective Systems'(Clarissa Ribeiro)
16	2	MODULE 4 CYBERCEPTION (Clarissa Ribeiro) Class 16: TRANSPERSONAL NETWORKING OF MINDS TOPICS: Secrecy and dissimulation; open-ended, inclusive, collaborative, transpersonal networking of minds and imaginations. ASSESMENT: Under the supervision of the Lecturer, the students will create: *QUANTUM FICTIONS: Telepathy Experiment in group
17	2	MODULE 4 CYBERCEPTION (Clarissa Ribeiro) Class 17: PERCEIVING INFINITE COMPLEXITIES ASSESMENT: Under the supervision of the Lecturer, the students will: *Research online about Laura Beloff and deep the understanding bout one of her works.
18	2	MODULE 4 CYBERCEPTION (Clarissa Ribeiro) Class 17: PERCEIVING INFINITE COMPLEXITIES ASSESMENT: Under the supervision of the Lecturer, the students will: *Produce a "Poster to Laura" (Beloff) as a synthesis of the research they made.
19	2	MODULE 4 CYBERCEPTION (Clarissa Ribeiro) Class 18: PERCEIVING INFINITE COMPLEXITIES ASSESMENT: Under the supervision of the Lecturer, the students will: *Produce a "Poster to Laura" (Beloff) as a synthesis of the research they made.
20	2	Final Exam

MODULE RESOURCES:
The following book are recommended for this module:

- Ascott, Roy. The Architecture of Cyberception. (1994) In: Telematic Embrace : Visionary Theories of Art, Technology, and Consciousness . Edited and with an essay by Edward A. Shanken . Berkeley and Los Angeles: University of California Press, 2003, p. 319-326.
- Ascott, Roy. The Psibernetic Arch. (1970) In: Telematic Embrace : Visionary Theories of Art, Technology, and Consciousness . Edited and with an essay by Edward A. Shanken . Berkeley and Los Angeles: University of California Press, 2003, p.161-167.
- Architectural Design, special number: 2000+. London: The Standard Catalogue Co. Ltd, v. 37, n. 2, feb. 1967
- Huxley, Aldous. The doors of perception & heaven and hell. Business and Leadership Publishing, 2014.
- John McHale – New Symbiosis. MCHALE, J. New Symbiosis. Architectural Design, special number: 2000+. London: The Standard Catalogue Co. Ltd, v. 37, n. 2, feb. 1967, p.89. 141
- McHale, John. The Future of the Future. New York : Ballantine Books, 1971.
- Neumann, John von. The Computer and the Brain: Abused City (The Silliman Memorial Lectures Series. London: Yale University Press,2012.
- Reichardt, Jasia. Cybernetic Serendipity: The Computer and the Arts Hardcover. Studio International Special Issue, London / New York, 1968

- Ribeiro, Clarissa. Complex is What is Woven Together. (from the Master Thesis "Complexity and Design Processes in Architecture, University of São Paulo, Brasil, 2006.
- Schwartzman, Madeline. See Yourself Sensing: Redefining Human Perception. London: Black Dog Publishing, 2011.

MODULE ASSESMENT:
Practical and theoretical assignments will be assessed. The entire process will be guided by the Lecturers as conductors, giving the students freedom to discover and build their own strategies in the production of the exercises.

*SUPERHEROS: CYBERCEPTION AS A SUPERPOWER
(2,0) relation to the topic: CYBERCEPTION;
(2,0) complexity of the exploration of the concept;
(2,0) quality of the presentation and organization of the material;
(2,0) consciousness about the discourse/argument;
total: 15,0 (1st exercise of 5 exercises proposed)

*TWO CASE STUDIES: HAUS-RUCKER-CO AND JOHN MCHALE
(2,0) relation to the topic: A New Symbiosis;
(2,0) quality of the research/information;
(2,0) relevance of the images of the projects selected in relation to the topic;
(2,0) quality of the presentation and organization of the material;
(2,0) consciousness about the discourse/argument;
total: 10,0 (2nd exercise of 5 exercises proposed)

*CYBERCEPTION-EXPERIMENTAL: (SEE YOURSELF SENSING) – PART 1
(2,0) relation to the topics: the sense of interface; transpersonal experience;
(2,0) quality of the research/information;
(2,0) relevance of the representation (schematic drawings, drawings);
(2,0) quality of the presentation/discourse;
(2,0) consciousness about the discourse/argument;
total: 20,0 (3rd exercise of 5 exercises proposed)

*CYBERCEPTION-EXPERIMENTAL: (SEE YOURSELF SENSING) – PART 2
(2,0) relation to the topics: the sense of interface; transpersonal experience;
(2,0) quality of the representation (digital version, poster);
(2,0) relevance of the representation (schematic drawings, drawings);
(2,0) quality of the presentation/discourse;
(2,0) consciousness about the discourse/argument;
total: 20,0 (4th exercise of 5 exercises proposed)

*POSTER TO LAURA
(4,0) relation to the topic;
(4,0) involvement in the activity;
(4,0) ability to do online research;
(4,0) quality of the presentation and organization of the material;
(4,0) capacity to explain the meaning of the words included in the panel;
total: 20,0 (5th exercise of 5 exercises proposed)

MODULE EVALUATION:
Students will be evaluated for attendance, participation, and level of creative and critical reflection shown through their practical and theoretical work assignments.
Grading:
Total: 100%