

SPECIAL TOPICS FOR JANUARY 2021 SEMESTER

Timetable is subject to changes. Students are required to check the timetable again one week before the commencement of lessons.

Last Update: 18 November 2020

^ Please refer to the "Jan 2021 Course Synopses" from page 2 onwards.

Online Course Registration: 28 Dec 2020 (9am) to 30 Dec 2020 (5pm)
Add/Drop Period: 11 Jan 2021 (9am) to 25 Jan 2021 (5pm)

Programme	Course Code	Course Title ^A	Academic Unit	Lesson Group	Class Size	Start Date	Class Schedule	Venue	Course Coordinator Details	Online Course Registration Period, Course is Offered To	Add/Drop Period Course is Offered To	Remarks
Special Topics	SA1034	Inquiry into Curriculum and Teaching I	3	Tutorial Group 1	25	14-Jan-21	Thursday, 18:00 - 21:00	NIE2-01-TR216	Assoc Prof LIM TZE-WEI LEONEL, leonel.lim@nie.edu.sg	All Research students	All Research students	
Special Topics	SA1038	Qualitative Research Fieldwork and Data Analysis in Curriculum, Teaching & Learning	3	Tutorial Group 1	15	13-Jan-21	Wednesday, 18:00 - 21:00	NIE2-01-TR216	Assoc Prof JIANG HENG, heng.jiang@nie.edu.sg	All Research students	All Research students	
Special Topics	SA830	Writing and Communication Skills for PHD Students	3	Tutorial Group 1	25	12-Jan-21	Tuesday, 18:00 - 21:00	NIE2-B1-14 (Seminar Room)	Dr ANITHA DEVI PILLAI, anitha.pillai@nie.edu.sg	Compulsory	Compulsory	
Special Topics	SA871	Oral History and Memory	3	Tutorial Group 1	5	12-Jan-21	Tuesday, 16:00 - 19:00	NIE3-03-134 (Lecturer's Office)	Assoc Prof KEVIN PETER BLACKBURN, kevin.blackburn@nie.edu.sg	All HSSE students	All HSSE students	
Special Topics	SA880	Topics in Social and Economic History	3	Tutorial Group 1	5	14-Jan-21	Thursday, 16:00 - 19:00	NIE3-03-134 (Lecturer's Office)	Assoc Prof KEVIN PETER BLACKBURN, kevin.blackburn@nie.edu.sg	All HSSE students	All HSSE students	
Special Topics	SC815	Advanced Plant Physiology	3	Tutorial Group 1	5	14-Jan-21	Thursday, 18:30 - 21:30	NIE7-02-34 (Applied Biology Lab)	Assoc Prof HE JIE, jie.he@nie.edu.sg	All HD (By research) students	All HD (By research) students	
Special Topics	SC855	Plasma Physics and Fusion Energy	3	Tutorial Group 1	15	12-Jan-21	Tuesday, 18:00 - 21:00	NIE7-B2-01(Physics Lab 2B)	Prof RAJDEEP SINGH RAWAT, rajdeep.rawat@nie.edu.sg	All Research students	All Research students	
Special Topics	SR809	Structural Equation Modeling for Education Research	3	Tutorial Group 1	20	12-Jan-21	Tuesday, 13:00 - 16:00	NIE5-01-TR503	Dr Jose David Munez Mendez, david.munez@nie.edu.sg	All Research students	All Research students	

Course Code	Course Title	Description	Academic Unit
SA1034	Inquiry into Curriculum and Teaching I	The course is designed to introduce students to ways of thinking and scholarship in curriculum studies and to promote disciplined inquiry into curricular and pedagogical issues and phenomena, both of which are vital for preparing students to conduct a practice-focused dissertation.	3
SA1038	Qualitative Research Fieldwork and Data Analysis in Curriculum, Teaching & Learning	The course focuses on assisting higher degree students in curriculum and teaching in conducting, analyzing, and producing a piece of fieldwork in educational settings. Students are required to undertake supervised fieldwork which allows them to gain direct experience with various elements of fieldwork research, in conjunction with a careful study of the theory and methods of naturalistic/interpretive social science research.	3
SA830	Writing and Communication Skills for PhD Students	This course aims to improve the academic writing and oral communication skills of PhD students. Participants will study the discourse and linguistic conventions of academic writing in their own disciplines, and apply this knowledge to the writing of their theses/research papers. In addition to studying the discourse practices of academic writing, participants will examine the thinking processes underlying the formation of those practices. Participants will also learn the structures and processes of effective oral presentations. A range of topics will be explored, including writing different sections of a thesis/research paper; planning and writing research proposals; using language resources for effective writing; conceptualising research writing as argument; giving formal presentations in seminars, conference, PhD oral examinations, and job talks; and communicating ones research effectively to non-experts. The course will be taught by experienced educators of communication skills at NIE.	3
SA871	Oral History and Memory	This subject covers the practice of oral history and theoretical issues that it raises. These include the nature of memory and how it is reconstructed in the present through reinterpretation. Also covered is the reliability of oral testimony generations after the historical events being discussed have passed. The relationship between oral history as a historical source and other sources, such as the written word is also assessed. Students will be introduced to the ways oral history has been represented, such as in museum exhibitions, community history, film and the media.	3
SA880	Topics in Social and Economic History	Social and economic history today cover a broad range of history from Peoples History or history from below to economic history, which looks at impersonal economic forces. The common themes of these two intertwined typed of hisotry are explored in this course. A variety of cases studies are covered, with a focus on Asian history.	3
SC815	Advanced Plant Physiology	The processes of plant adaptation to both abiotic and biotic environmental factors. The biochemical, physiological and morphological attributes of plants and the molecular mechanisms underlying the expression of these attributes. The topics will be learnt through lectures, cooperative learning, and discussion on selected current research literatures of plant physiology.	3

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SC855	Plasma Physics and Fusion Energy	<p>Thermonuclear Fusion has been identified as one of the clean and long term future energy sources. Thermonuclear fusion uses extremely high temperatures with hot dense plasma of fusion fuel being confined for sufficiently long durations for net energy output. The major objectives of this advanced course are:</p> <p>(i) to highlight the advantages of Fusion over other energy resources;</p> <p>(ii) to understand the role of plasma heating and plasma confinement in achieving controlled thermonuclear fusion; and</p> <p>(iii) to provide in-depth coverage of magnetic fusion and inertial confinement fusion schemes.</p> <p>The major topics included are: World energy scenario; Fusion as clean and long-term energy source; Fundamentals of plasmas; Fundamentals of fusion process; Magnetic confinement schemes including magnetic mirror and tokamak; Inertial confinement fusion; and magnetic fusion device - plasma focus.</p>	3
SR809	Structural Equation Modeling for Education Research	<p>This is an introductory course to SEM that is focused on the application and interpretation of statistical models that are designed for the analysis of multivariate data. The SEM is a general framework that allows for the empirical testing of research hypotheses in ways not otherwise possible. It addresses aspects such as longitudinal research, causality, measurement, and mediation. Among others, these aspects are essential in studies looking at how differently students perform over time, which are the predictors of growth, and how such predictors are interrelated.</p>	3