



होमी भाभा विज्ञान शिक्षा केंद्र
HOMI BHABHA CENTRE FOR SCIENCE EDUCATION
टाटा मूलभूत अनुसंधान संस्थान
TATA INSTITUTE OF FUNDAMENTAL RESEARCH

भारत सरकार का नाभिकीय विज्ञान एवं गणित का राष्ट्रीय केंद्र एवं समविश्वविद्यालय

*National Centre of the Government of India for Nuclear
Science and Mathematics and a Deemed University*

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वेबसाइट / Website : www.hbcse.tifr.res.in

HBCSE Graduate Courses

(<https://www.hbcse.tifr.res.in/graduate-school/graduate-courses>)

Academic Year 2022-23

Graduate Courses for August-December 2022 (Classroom Teaching & Hybrid)

The following graduate courses are being offered via classroom teaching & hybrid mode in the August to December semester of the academic year 2022-23.

Course Details	Course Type	Course Number
Cognition, Conceptual Development, and Conceptual Change Instructors: Prof. Sanjay Chandrasekharan, and Dr. Sweta Anantharaman Teaching Assistants/ Tutors: Ms. Pranshi Upadhyay, and Mr. Joseph Salve Credits: 4 Course Outline: https://hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2022-2023/cognition-conceptual-development-and-conceptual-change.pdf	Core Course	SCE106.2
Research Methodology: Methods of Science & Mathematics Education Research (Quantitative Methods in Educational Research) Instructor: Prof. Aniket Sule Teaching Assistant/ Tutor: Mr. Pritesh Ranadive Credits: 2 Course Outline: https://hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2022-2023/quantitative-methods-in-educational-research.pdf	Core Course	SCE102.2A
Research Methodology: Methods of Science & Mathematics Education Research (Qualitative Methods in Educational Research) Instructors: Dr. Aswathy Raveendran and Dr. Ayush Gupta Credits: 2	Core Course	SCE102.2B

<p>Course Outline: https://hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2022-2023/methods-of-science-mathematics-education-research-qualitative-methods-in-educational-research.pdf</p>		
<p>Teaching Overview cum Practicum (UTP-II) (Second-Year Course) Instructors: Dr. Narendra D. Deshmukh and Dr. Kalpana Kharade Credits: 4 Course Outline: https://hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2022-2023/teaching-overview-cum-practicum-utp-ii-second-year-course.pdf</p>	Core Course	SCE402.2
<p>Introduction to Effective Scientific Writing Instructors: Dr. Anuttama Kulkarni and Prof. Arnab Bhattacharya Credits: 2 Course Outline: https://hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2022-2023/introduction-to-effective-scientific-writing.pdf</p>	Elective Course	SCE601.2
<p>Modeling and sense making Instructor: Dr. Mashood K. K. Teaching Assistant/ Tutor: Mr. Joseph Salve Credits: 2 Course Outline: https://hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2022-2023/modeling-and-sense-making.pdf</p>	Elective Course	SCE316.2
<p>Understanding Science (technology and society) through history of colours Instructor: Prof. Ankush Gupta Credits: 2 Course Outline: https://hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2022-2023/understanding-science-technology-and-society-through-history-of-colours-course-outline-final.pdf</p>	Elective Course	SCE701.2

<p>Navigating Cultural and Linguistic Intersectionality in Science Education Instructors: Dr. Narendra D. Deshmukh and Dr. Kalpana Kharade Credits: 2 Course Outline: https://hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2022-2023/navigating-cultural-and-linguistic-intersectionality-in-science-education.pdf</p>	<p>Foundational Elective Course</p>	<p>SCE205.2</p>
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Sanjay C

(Prof. Sanjay Chandrasekharan)
Course Coordinator, HBCSE

Arnab Bhattacharya

(Prof. Arnab Bhattacharya)
Convener, SBSE

