



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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**HBCSE Graduate Courses**

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

**Academic Year 2021-22**

**Graduate Courses for January-April 2022 (Online & Hybrid)**

The following graduate courses are being offered via an online & hybrid mode in the January to April semester of the academic year 2021-22.

Course Details	Course Type	Course Number
<b>First-Year Courses</b>		
Understanding Teaching Practices Instructor: Reema Mani Credits: 4 Course Outline: <a href="https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2021-2022/understanding-teaching-reema.pdf">https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2021-2022/understanding-teaching-reema.pdf</a>	Core Course	SCE103.2
Introduction to Science and Mathematics Education Research Instructors: KK Mashood, P K Joshi, and Anisha Malhotra Dalvi Credits: 4 Course Outline: <a href="https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2021-2022/outline-intro-to-stme-2022-mashood-pkj-anisha.pdf">https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2021-2022/outline-intro-to-stme-2022-mashood-pkj-anisha.pdf</a>	Core Course	SCE101.2
Social dimensions of science and technology education Instructor: Aswathy Raveendran Credits: 2 Course Outline: <a href="https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2021-2022/course-outline-social-dimensions-of-stem-education-ar.pdf">https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2021-2022/course-outline-social-dimensions-of-stem-education-ar.pdf</a>	Foundational Elective	SCE202.2
Conversations in Education Policy Instructor: Reema Mani Credits: 2 Course Outline: <a href="https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2021-2022/ed-policy-reema.pdf">https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2021-2022/ed-policy-reema.pdf</a>	Elective Course	SCE310.2

Second Year Courses		
Philosophy of Science Instructors: G. Nagarjuna and Shweta Naik Credits: 2 Course Outline: <a href="https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2021-2022/philosophy-of-science-pos-outline-2022-winter-final.pdf">https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2021-2022/philosophy-of-science-pos-outline-2022-winter-final.pdf</a>	Core Course	SCE105.2
History of Science Instructors: Ankush Gupta and Sarita Kamat Credits: 2 Course Outline: <a href="https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2021-2022/history-of-science-2022-course-outline.pdf">https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2021-2022/history-of-science-2022-course-outline.pdf</a>	Core Course	SCE104.2
Advanced Research Methods - A Instructor: Deepa Chari Credits: 2 Course Outline: <a href="https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2021-2022/advanced-research-methodology-a-syllabus-2022-dc.pdf">https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2021-2022/advanced-research-methodology-a-syllabus-2022-dc.pdf</a>	Core Course	SCE401.2A
Advanced Research Methods - B Instructors: Tathagata Sengupta and Ayush Gupta Credits: 2 Course Outline: <a href="https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2021-2022/advanced-research-methods-b.pdf">https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2021-2022/advanced-research-methods-b.pdf</a>	Core Course	SCE401.2B
Teaching Overview cum Practicum (UTP) (Part-II) Instructors: Narendra D. Deshmukh and Kalpana Kharade Credits: 4 Course Outline: <a href="https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2021-2022/utp-ii-teaching-overview-cum-practicum.pdf">https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/academic-year-2021-2022/utp-ii-teaching-overview-cum-practicum.pdf</a>	Core Course	SCE402.2

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