



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 2018-19**

**Graduate Courses for August-December 2018**

The following graduate courses are being offered in the August to December semester of the academic year 2018-19.

Course Details	Course Type	Course Number
Cognition, Cognitive development and Learning Instructors: Sanjay Chandrasekharan and Sweta Anantharaman Credits: 4 Course Outline: <a href="https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/graduate-courses-2018-19-couse-outline/cognition-cognitive-development-and-learning-aug-nov-2018">https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/graduate-courses-2018-19-couse-outline/cognition-cognitive-development-and-learning-aug-nov-2018</a>	Core Course	SCE106.2
Introduction to Science & Mathematics Education Research (Literature) Instructors: K. K. Mashood and Rohini Karandikar Credits: 4 Course Outline: <a href="https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/graduate-courses-2018-19-couse-outline/introduction-to-stme-research-aug-nov-2018">https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/graduate-courses-2018-19-couse-outline/introduction-to-stme-research-aug-nov-2018</a>	Core Course	SCE101.2
Research Methodology: Methods of Science & Mathematics Education Research: Research methods Instructor: K. K. Mashood Credits: 2 Course Outline: <a href="https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/graduate-courses-2018-19-couse-outline/methods-of-sci-and-maths-edu-res-research-methods-2018-sem-1-updated">https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/graduate-courses-2018-19-couse-outline/methods-of-sci-and-maths-edu-res-research-methods-2018-sem-1-updated</a>	Core Course	SCE102.2

<p>Research Methodology: Methods of Science &amp; Mathematics  Education Research: Statistics  Instructor: Tathagata Sengupta  Credits: 2  Course Outline:  <a href="https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/graduate-courses-2018-19-couse-outline/methods-of-sci-and-maths-edu-res-statistics-aug-nov-2018">https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/graduate-courses-2018-19-couse-outline/methods-of-sci-and-maths-edu-res-statistics-aug-nov-2018</a></p>	Core Course	SCE102.2
<p>Teaching practice and school internship/ design of learning resource (Part 1)  Instructors: N. D. Deshmukh and Harita Raval  Credits: 4  Course Outline:  <a href="https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/graduate-courses-2018-19-couse-outline/teaching-practice-course.pdf">https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/graduate-courses-2018-19-couse-outline/teaching-practice-course.pdf</a></p>	Core Course	SCE103.2
<p>Philosophy of Education  Instructor: Gagandeep Kaur (Homi Bhabha Fellow)  Credits: 4  Course Outline:  <a href="https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/graduate-courses-2018-19-couse-outline/trends-in-poe-20-july-2018">https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/graduate-courses-2018-19-couse-outline/trends-in-poe-20-july-2018</a></p>	Foundational Elective Course	SCE201.2
<p>School and society  Instructor: Shri Kishorekumar Darak  Credits: 2  Course Outline:  <a href="https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/school-and-society">https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/school-and-society</a></p>	Elective Course	SCE310.2
<p>Teaching practice and school internship / design of learning resource  Instructors: N. D. Deshmukh, Shweta Naik and Aisha Kawalkar  Credits: 4  Course Outline:  <a href="https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/graduate-courses-2018-19-couse-outline/teaching-practice-sn-2018-part2">https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/graduate-courses-2018-19-couse-outline/teaching-practice-sn-2018-part2</a></p>	Second Year - Core Course	SCE402.2
<p>Research Methodology: Methods of Science &amp; Mathematics  Education Research: Statistics  Instructor: Tathagata Sengupta  Credits: 2  Course Outline:  <a href="https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/graduate-courses-2018-19-couse-outline/methods-of-sci-and-maths-edu-res-statistics-aug-nov-2018">https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/graduate-courses-2018-19-couse-outline/methods-of-sci-and-maths-edu-res-statistics-aug-nov-2018</a></p>	Second Year - Core Course	SCE401.2

<p>Advanced Topics in Cognition  Instructor: Sanjay Chandrasekharan  Tutors: Deborah Dutta and Durgaprasad Karnam  Credits: 4  Course Outline:  <a href="https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/graduate-courses-2018-19-couse-outline/advanced-topics-in-cognition-course-outline-hbcse-2018">https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/graduate-courses-2018-19-couse-outline/advanced-topics-in-cognition-course-outline-hbcse-2018</a></p>	<p>Second  Year -  Elective  Course</p>	<p>SCE501.2</p>
<p>Perspectives on Science, Technology and Society  Instructor: Aswathy Raveendran  Credits: 4  Course Outline:  <a href="https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/graduate-courses-2018-19-couse-outline/perspectives-on-science-technology-and-society-course-outline.pdf">https://www.hbcse.tifr.res.in/graduate-school/graduate-courses/graduate-courses-2018-19-couse-outline/perspectives-on-science-technology-and-society-course-outline.pdf</a></p>	<p>Second  Year -  Elective  Course</p>	<p>SCE311.2</p>



(Prof. Sugra Chunawala)  
Dean, HBCSE faculty and Course Coordinator



(Prof. K. Subramaniam)  
Convener, Subject Board for Science Education