

Accelerator Science Program

Number of students allowed: a few

Course Code	Course	Credit	Term	Day & Period	Location
40COM001**	High Energy Accelerator Science Seminar 1	2	1st Half	Wednesday	Conference Room 1, 1F, Kenkyu-Honkan bldg.
40COM002**	High Energy Accelerator Science Seminar 2	2	2nd Half	Wednesday	Conference Room 1, 1F, Kenkyu-Honkan bldg.
40ACS001**	Introduction to Accelerators 1	2	1st Half	Thursday	SOKENDAI Lecture Room
40ACS002**	Introduction to Accelerators 2	2	2nd Half	Thursday	SOKENDAI Lecture Room
40ACS003**	Seminar on Introduction to Accelerators 1	2	1st Half	Thursday	SOKENDAI Lecture Room etc.
40ACS004**	Seminar on Introduction to Accelerators 2	2	2nd Half	Thursday	SOKENDAI Lecture Room etc.
40ACS005**	Radiation Physics	2	Inquiry required	Inquiry required	Inquiry required
40ACS006**	Fundamentals of electromagnetism for particle accelerators	2	Inquiry required	Inquiry required	Inquiry required
40ACS007**	Analytical Dynamics	2	Inquiry required	Inquiry required	Inquiry required
40ACS008**	Foundations of Data Science	1	Inquiry required	Inquiry required	Inquiry required
40ACS009**	Control of distributed devices for large systems	1	Inquiry required	Inquiry required	Inquiry required
40ACS010**	Practicum for accelerator science using the education-oriented electron linear accelerator	1	Inquiry required	Inquiry required	Inquiry required
40ACS011**	Machine Design	2	Inquiry required	Inquiry required	Inquiry required
40ACS012**	Introduction to Robotics	1	Inquiry required	Inquiry required	Inquiry required
40ACS013**	Beam Physics	2	Inquiry required	Inquiry required	Inquiry required
40ACS014**	Particle Accelerator Design	2	Inquiry required	Inquiry required	Inquiry required
40ACS015**	Accelerator magnets and power supplies	2	Inquiry required	Inquiry required	Inquiry required

Course Code	Course	Credit	Term	Day & Period	Location
40ACS016**	Introduction to Computational Science	2	Inquiry required	Inquiry required	Inquiry required
40ACS017**	Introduction to Radiation Detection and Measurement	2	Inquiry required	Inquiry required	Inquiry required
40ACS018**	Introduction to Surface Analysis	2	Inquiry required	Inquiry required	Inquiry required
40ACS019**	Beam instrumentation basics	2	Inquiry required	Inquiry required	Inquiry required
40ACS020**	Introduction to accelerator control system	2	Inquiry required	Inquiry required	Inquiry required
40ACS021**	Superconducting technology and cryogenics engineering	2	Inquiry required	Inquiry required	Inquiry required
40ACS022**	Beam acceleration and RF systems	2	Inquiry required	Inquiry required	Inquiry required
40ACS023**	Vacuum science and technology for particle accelerators	2	Inquiry required	Inquiry required	Inquiry required
40ACS024**	Particle Sources	2	Inquiry required	Inquiry required	Inquiry required
40ACS025**	Advanced Course for Superconducting Cavities	2	Inquiry required	Inquiry required	Inquiry required
40ACS026**	Data Acquisition and Analysis Methods	2	Inquiry required	Inquiry required	Inquiry required
40ACS027**	High Performance Computing	2	Inquiry required	Inquiry required	Inquiry required
40ACS028**	Advanced Course for Radiation Shielding	2	Inquiry required	Inquiry required	Inquiry required
40ACS029**	Advanced Course for Radiation Protection	2	Inquiry required	Inquiry required	Inquiry required
40ACS030**	Advanced Computational Radiation physics	2	Inquiry required	Inquiry required	Inquiry required
40ACS031**	Practicum of Radiation Simulation by Monte Carlo Code	2	Inquiry required	Inquiry required	Inquiry required
40ACS032**	Advanced Course for superconducting magnets	2	Inquiry required	Inquiry required	Inquiry required

Course Code	Course	Credit	Term	Day & Period	Location
40ACS033**	Computer Architecture	2	Inquiry required	Inquiry required	Inquiry required
40ACS034**	Computer Programming (C++ or Python)	2	Inquiry required	Inquiry required	Inquiry required
40ACS035**	Computer Programming Laboratory	2	Inquiry required	Inquiry required	Inquiry required
20DACd01**	An Introduction to Electronics	2	Inquiry required	Inquiry required	Inquiry required

【Note】

Please contact us for the lecture schedule and location.

Basically, if there are no participants of SOKENDAI students, above classes will not be opened to other students.

【Contact】

SOKENDAI Office, Research Cooperation Division, KEK (kyodo2@mail.kek.jp)