

3. 高エネルギー加速器科学研究科

加速器科学専攻

受入れ可能学生数:若干名

講義コード	授業科目	単位	開講学期	曜日・時限	教室
10SHA001**	高エネルギー加速器科学セミナー I (研究科共通科目)	2	前期	水曜日	研究本館1階会議室1
10SHA002**	高エネルギー加速器科学セミナー II (研究科共通科目)	2	後期	水曜日	研究本館1階会議室1
10SHA009**	加速器概論 I (研究科共通科目)	2	前期	木曜日	総研大講義室
10SHA010**	加速器概論 II (研究科共通科目)	2	後期	木曜日	総研大講義室
10SHA027**	加速器概論演習 I (研究科共通科目)	2	前期	木曜日	総研大講義室等
10SHA028**	加速器概論演習 II (研究科共通科目)	2	後期	木曜日	総研大講義室等
10SHA011**	加速器実験概論 (研究科共通科目)	2	未定	未定	未定
10SHA012**	放射線物理学 (研究科共通科目)	2	前期 後期	未定	未定
10SHA013**	ビーム物理学 I (研究科共通科目)	2	未定	未定	未定
10SHA015**	応用数学 (研究科共通科目)	2	未定	未定	未定
10SHA016**	電磁気学 (研究科共通科目)	2	未定	未定	未定
10SHA018**	解析力学 (研究科共通科目)	2	未定	未定	未定
10SHA019**	量子力学 (研究科共通科目)	2	未定	未定	未定
10SHA020**	熱力学・統計力学 (研究科共通科目)	2	未定	未定	未定

他専攻開放科目

Courses open to other departments

加速器科学専攻

受入れ可能学生数:若干名

講義コード	授業科目	単位	開講学期	曜日・時限	教室
10SHA035**	大規模システムの分散制御 (研究科共通科目)	1	未定	未定	未定
10SHA036**	教育用小型加速器を用いた加速器演習 (研究科共通科目)	1	前期 後期	未定	未定
20DACa01**	非線形力学特論	2	未定	未定	未定
20DACa07**	粒子追跡法の計算コードに基づく摂動論	2	未定	未定	未定
20DACa04**	放射光発生機構論	2	未定	未定	未定
20DACb01**	ビーム計測法概論	2	未定	未定	未定
20DACb04**	ビーム安定性特論	2	未定	未定	未定
20DACc01**	加速器設計概論	2	未定	未定	未定
20DACc02**	線形加速器設計特論	2	未定	未定	未定
20DACc04**	放射光源加速器特論	2	未定	未定	未定
20DACc05**	陽子加速器特論	2	未定	未定	未定
20DACd01**	エレクトロニクス概論	2	未定	未定	未定
20DACd02**	加速器制御システム概論	2	未定	未定	未定
20DACd03**	超伝導・低温技術概論	2	未定	未定	未定
20DACd05**	冷却技術特論	2	未定	未定	未定
20DACd06**	ビーム源概論	2	未定	未定	未定
20DACE01**	電磁石概論	2	未定	未定	未定
20DACE02**	電磁石設計・計測特論	2	未定	未定	未定
20DACE03**	電磁石電源概論	2	未定	未定	未定
20DACE04**	超伝導磁石特論	2	未定	未定	未定
20DACf01**	ビーム加速科学特論	2	未定	未定	未定
20DACf02**	超伝導空洞特論	2	未定	未定	未定

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講義コード	授業科目	単位	開講学期	曜日・時限	教室
20DACf03**	大電力高周波特論	2	未定	未定	未定
20DACg01**	真空科学概論	2	未定	未定	未定
20DACg02**	真空科学応用特論	2	未定	未定	未定
20DACH01**	計算科学概論	2	前期	未定	未定
20DACH02**	ソフトウェア工学特論	2	未定	未定	未定
20DACH04**	データ収集法特論	2	未定	未定	未定
20DACH05**	高性能計算科学特論	2	未定	未定	未定
20DACi01**	放射線遮蔽特論	2	未定	未定	未定
20DACi02**	放射線計測概論	2	未定	未定	未定
20DACi03**	表面分析法概論	2	未定	未定	未定
20DACi04**	放射線防護特論	2	未定	未定	未定
20DACi05**	計算放射線学特論	2	未定	未定	未定
20DACi06**	計算放射線学演習	2	未定	未定	未定
20DACj01**	機械設計工学概論	2	未定	未定	未定
20DACj02**	機械工作基礎論	2	未定	未定	未定
20DACj04**	材料基礎論	2	未定	未定	未定

【備考】

・上記の授業科目について、本専攻において受講する学生がいない場合は、他大学院の学生、または総研大他研究科の学生から受講希望があっても開講しない場合があるので、履修にあたっては事前に必ず下記連絡先へ問い合わせること。

連絡先：高エネルギー加速器研究機構 研究協力課 大学院教育係 (kyodo2@mail.kek.jp)

・曜日・時限・教室等詳細については、要問合せ

3. School of High Energy Accelerator Science

Department of Accelerator Science

Number of students allowed: a few

Course Code	Subject	Credit	Term	Day & Period	Location
10SHA001**	High Energy Accelerator Seminar I (Common Specialized Subjects of the School of High Energy Accelerator Science)	2	1st Half	Every Wednesday	研究本館1階会議室1
10SHA002**	High Energy Accelerator Seminar II (Common Specialized Subjects of the School of High Energy Accelerator Science)	2	2nd Half	Every Wednesday	研究本館1階会議室1
10SHA009**	Introduction to Accelerators I (Common Specialized Subjects of the School of High Energy Accelerator Science)	2	1st Half	Every Thursday	総研大講義室
10SHA010**	Introduction to Accelerators II (Common Specialized Subjects of the School of High Energy Accelerator Science)	2	2nd Half	Every Thursday	総研大講義室
10SHA027**	Seminar on Introduction to Accelerators I (Common Specialized Subjects of the School of High Energy Accelerator Science)	2	1st Half	Every Thursday	総研大講義室等
10SHA028**	Seminar on Introduction to Accelerators II (Common Specialized Subjects of the School of High Energy Accelerator Science)	2	2nd Half	Every Thursday	総研大講義室等
10SHA011**	Introduction to Experimental Methods Using Accelerators (Common Specialized Subjects of the School of High Energy Accelerator Science)	2	Undecided	Undecided	Undecided
10SHA012**	Radiation Physics (Common Specialized Subjects of the School of High Energy Accelerator Science)	2	1st Half 2nd Half	Undecided	Undecided
10SHA013**	Beam Physics I (Common Specialized Subjects of the School of High Energy Accelerator Science)	2	Undecided	Undecided	Undecided
10SHA015**	Applied Mathematics (Common Specialized Subjects of the School of High Energy Accelerator Science)	2	Undecided	Undecided	Undecided
10SHA016**	Electromagnetism (Common Specialized Subjects of the School of High Energy Accelerator Science)	2	Undecided	Undecided	Undecided
10SHA018**	Analytical Dynamics (Common Specialized Subjects of the School of High Energy Accelerator Science)	2	Undecided	Undecided	Undecided
10SHA019**	Quantum Mechanics (Common Specialized Subjects of the School of High Energy Accelerator Science)	2	Undecided	Undecided	Undecided
10SHA020**	Thermodynamics/Statistical Mechanics (Common Specialized Subjects of the School of High Energy Accelerator Science)	2	Undecided	Undecided	Undecided

他専攻開放科目

Courses open to other departments

Department of Accelerator Science

Number of students allowed: a few

Course Code	Subject	Credit	Term	Day & Period	Location
10SHA035**	Control of distributed devices for large systems (Common Specialized Subjects of the School of High Energy Accelerator Science)	1	Undecided	Undecided	Undecided
10SHA036**	Practicum for accelerator science using the education-oriented electron linear accelerator (Common Specialized Subjects of the School of High Energy Accelerator Science)	1	1st Half 2nd Half	Undecided	Undecided
20DACa01**	Advanced Course for Nonlinear Dynamics	2	Undecided	Undecided	Undecided
20DACa07**	Perturbation theory based on realistic tracking codes	2	Undecided	Undecided	Undecided
20DACa04**	Generation of Synchrotron Radiation	2	Undecided	Undecided	Undecided
20DACb01**	Beam instrumentation basics	2	Undecided	Undecided	Undecided
20DACb04**	Advanced Course for Beam Stability	2	Undecided	Undecided	Undecided
20DACc01**	An introduction to designing accelerator	2	Undecided	Undecided	Undecided
20DACc02**	Advanced course for linear accelerator design	2	Undecided	Undecided	Undecided
20DACc04**	Basic lecture on synchrotron radiation light sources	2	Undecided	Undecided	Undecided
20DACc05**	Advanced course for proton accelerators	2	Undecided	Undecided	Undecided
20DACd01**	An Introduction to Electronics	2	Undecided	Undecided	Undecided
20DACd02**	Introduction to accelerator control system	2	Undecided	Undecided	Undecided
20DACd03**	Introduction to superconducting technology and cryogenics engineering	2	Undecided	Undecided	Undecided
20DACd05**	Advanced Course for Refrigeration Techniques	2	Undecided	Undecided	Undecided
20DACd06**	Introduction to Electron Beam Sources	2	Undecided	Undecided	Undecided
20DACE01**	Introduction to magnets	2	Undecided	Undecided	Undecided
20DACE02**	Advanced course on magnets design and measurements	2	Undecided	Undecided	Undecided
20DACE03**	Introduction to magnet power supplies	2	Undecided	Undecided	Undecided
20DACE04**	Advanced Course for superconducting magnets	2	Undecided	Undecided	Undecided
20DACf01**	Advanced Course for Beam Acceleration Science	2	Undecided	Undecided	Undecided
20DACf02**	Advanced Course for Superconducting Cavities	2	Undecided	Undecided	Undecided

Department of Accelerator Science

Number of students allowed: a few

Course Code	Subject	Credit	Term	Day & Period	Location
20DACf03**	Advanced Course for High Power Microwave Engineering	2	Undecided	Undecided	Undecided
20DACg01**	Basic concepts of vacuum science and technology	2	Undecided	Undecided	Undecided
20DACg02**	Vacuum science and technologies applied to accelerators	2	Undecided	Undecided	Undecided
20DACh01**	Introduction to Computer Science	2	1st Half	Undecided	Undecided
20DACh02**	Software Engineering	2	Undecided	Undecided	Undecided
20DACh04**	Data acquisition and analysis methods in High Energy Physics	2	Undecided	Undecided	Undecided
20DACh05**	High Performance Computing	2	Undecided	Undecided	Undecided
20DACi01**	Advanced Course for Radiation Shielding	2	Undecided	Undecided	Undecided
20DACi02**	Introduction to Radiation Detection and Measurement	2	Undecided	Undecided	Undecided
20DACi03**	Introduction to Surface Analysis	2	Undecided	Undecided	Undecided
20DACi04**	Advanced Course for Radiation Protection	2	Undecided	Undecided	Undecided
20DACi05**	Lecture of Radiation Simulation by Monte Carlo Code	2	Undecided	Undecided	Undecided
20DACi06**	Practicum of Radiation Simulation by Monte Carlo Code	2	Undecided	Undecided	Undecided
20DACj01**	Introduction to Mechanical Design	2	Undecided	Undecided	Undecided
20DACj02**	Fundamentals of Mechanical Machining	2	Undecided	Undecided	Undecided
20DACj04**	Fundamentals of Material Science	2	Undecided	Undecided	Undecided

【Notes】

If you would like to take these courses listed above, please contact with High Energy Accelerator Research Organization (kyodo2@mail.kek.jp) in advance.