

	Code	Courses	Pre-requisites	Semester I	Semester II
Analytical Chemistry	KAT145/4	Analytical Chemistry I	–	✓	✓
Analytical Chemistry	KAT249/3	Analytical Chemistry II	KAT145 (s)	✓	✓
Analytical Chemistry	KAT344/4	Separation Methods	KAT145 (s)	✓	–
Analytical Chemistry	KAT345/4	Spectroscopic Methods	KAT145 (s)	–	✓
Analytical Chemistry	KAT346/4	Electroanalytical Methods	KAT145 (s)	–	✓
Analytical Chemistry	KAT442/4	Environmental Pollution Chemistry	KAT344 (s), KAT345 (s)	✓	–
Analytical Chemistry	KAE445/3	Bioanalysis	KAT344 (s) or KAT249 (s)	–	✓

	Code	Courses	Pre-requisites	Semester I	Semester II
Physical Chemistry	KFT133/4	Physical Chemistry I	–	✓	✓
Physical Chemistry	KFT234/3	Physical Chemistry II	KFT133 (s)	✓	✓
Physical Chemistry	KFT431/3	Physical Chemistry III	KFT234 (s)	✓	–
Physical Chemistry	KFE441/3	Applied Surface Chemistry	KFT234 (s)	✓	–

	Code	Courses	Pre-requisites	Semester I	Semester II
Industrial Chemistry	KIT257/3	Materials Chemistry	–	✓	–
Industrial Chemistry	KIT258/4	Unit Operations	–	–	✓
Industrial Chemistry	KIT358/3	Polymer Chemistry	KOT122 (s)	–	✓
Industrial Chemistry	KIE359/3	Green Chemistry and Technology	–	–	✓
Industrial Chemistry	KIE456/3	Food and Palm Oil Chemistry	–	✓	–
Industrial Chemistry	KIT458/3	Chemical Processing	KTT112 (s), KOT122 (s)	✓	–

	Code	Courses	Pre-requisites	Semester I	Semester II
Organic Chemistry	KOT122/4	Organic Chemistry I	–	✓	✓
Organic Chemistry	KOT222/3	Organic Chemistry II	KOT122 (s)	✓	–
Organic Chemistry	KOT323/3	Organic Chemistry III	KOT222 (s)	–	✓
Organic Chemistry	KOE423/3	Selected Topics in Organic Chemistry	KOT222 (s)	–	✓

	Code	Courses	Pre-requisites	Semester I	Semester II
Inorganic Chemistry	KTT112/4	Inorganic Chemistry I	–	✓	✓
Inorganic Chemistry	KTT212/3	Inorganic Chemistry II	KTT112 (s)	–	✓
Inorganic Chemistry	KTT313/3	Inorganic Chemistry III	KTT212 (s)	✓	–
Inorganic Chemistry	KTE411/3	Selected Topics in Inorganic Chemistry	KTT212 (s)	✓	–

	Code	Courses	Pre-requisites	Semester I	Semester II
General	KUT100/2	Safety and Security for Chemical Sustainability	–	✓	✓
General	KUT306/2	Research Methodology in Chemistry	–	✓	✓
General	KUE319/6	Chemistry Project	CGPA 2.5	✓	✓
General	KIE461/9	Industrial Training	Completed all other courses (111 units)	–	✓

Laboratory	Code	Courses	Pre-requisites	Semester I	Semester II
Analytical/Inorganic	KUT101/2	General Chemistry Practical I	–	✓	✓
Physical/Organic	KUT102/2	General Chemistry Practical II	–	✓	✓
Inorganic	KUT203/2	Inorganic Chemistry Practical	KUT101 (s)	✓	✓
Organic	KUT206/2	Organic Chemistry Practical	KUT102 (s), KOT122 (s)	✓	✓
Physical	KUT214/2	Physical Chemistry Practical	KUT102 (s), KFT234 (c)	✓	✓
Analytical	KUT215/2	Analytical Chemistry Practical I	KUT101 (s), KAT249 (c)	✓	✓
Analytical/Inorganic	KUT317/2	Inorganic and Analytical Chemistry Practical	KUT203 (s), KUT215 (s)	✓	✓
Physical/Organic	KUT318/2	Physical and Organic Chemistry Practical	KUT206 (s), KUT214 (s)	✓	✓
Analytical	KAT340/2	Analytical Chemistry Practical II	–	✓	–
Analytical	KAE348/2	Analytical Chemistry Practical III	KAT345 (s)	✓	–
Industrial	KIT355/2	Unit Operations Practical	KIT258 (s)	–	✓
Industrial	KIT359/2	Materials Chemistry and Chemical Processing Practical	KIT257 (s)	✓	–