

Industrial and Environmental Biotechnology

Year I, Semester I

Course Code	Course Title	Cr. Hrs
ChEg 7111	Advanced Research Methods and Experimental Design	3
ChEg 7163	Elective I	3
ChEg 7113	Graduate Seminar I	1
	Total	7

Year I, Semester II

Course Code	Course Title	Cr. Hrs
ChEg 7114	Graduate Seminar II	1
ChEg7122	Catalysis and Catalytic Reactor Engineering	3
ChEg 7164	Elective II	3
	Total	7

Elective Courses

Course Code	Course Title		Cr. Hrs
ChEg 7163	Molecular biology and genomics	Elective I	3
ChEg 7163	Advances in Biotechnology-		3
ChEg 7163	Bio-molecules		3
ChEg 7163	Basic Enzymology and Enzyme Technology		3
ChEg 7163	Recombinant DNA Technology		3
ChEg 7164	Environmental Biotechnology	Elective II	3
ChEg 7164	Industrial Biotechnology		3
ChEg 7164	Biocatalysis		3
ChEg 7164	Industrial Microbiology		3
ChEg 7164	Modelling in Biotechnology		3

Year II, Semester I (for all Specializations)

Course Code	Course Title	Cr. Hrs
ChEg 8114	Doctoral Dissertation	12
Total		12

Year II, Semester II (for all Specializations)

Course Code	Course Title	Cr. Hrs
ChEg 8114	Doctoral Dissertation	12
Total		12

Year III, Semester I (for all Specializations)

Course Code	Course Title	Cr. Hrs
ChEg 8114	Doctoral Dissertation	12
Total		12

Year III, Semester II (for all Specializations)

Course Code	Course Title	Cr. Hrs
ChEg 8114	Doctoral Dissertation	12
Total		12

Year IV, Semester I (for all Specializations)

Course Code	Course Title	Cr. Hrs
ChEg 8114	Doctoral Dissertation	12
Total		12

Year IV, Semester II (for all Specializations)

Course Code	Course Title	Cr. Hrs
ChEg 8114	Doctoral Dissertation	12
	Total	12

