

Subject Equivalence
SE Biotechnology (Sem - III & IV)

Sr. No.	Old Subjects SE Biotechnology W.E.F. 2007-2008	New Subjects SE Biotechnology W.E.F. 2013-2014
1	Concepts in Biotechnology (Sem I)	Concepts in Biotechnology(Sem III)
2	Microbiology (Sem I)	Microbiology(Sem III)
3	Process Calculations(Sem I)	Bioprocess Calculations(Sem III)
4	Fluid Flow and Solid Handling(Sem I)	Unit Operation-I (Sem III)
5	Engineering Mathematics- III (Sem I)	Engineering Mathematics- III (Sem III)
6	Biochemistry (Sem II)	Biochemistry (Sem IV)
7	Chemistry (Sem II)	Chemistry is not included in new syllabus, So there is no equivalence
8	Immunology (Sem II)	Immunology (Sem IV)
9	Biostatistics (Sem II)	Biostatistics (Sem IV)
10	Process Heat Transfer (Sem II)	Process Heat Transfer (Sem IV)

Subject Equivalence
TE Biotechnology (Sem - V & VI)

Sr. No.	Old Syllabus	New Syllabus (CGPA)
01	Bio Process Principles (Sem I)	--
02	Chemical Reaction Engineering (Sem I)	Chemical Reaction Engineering (sem V)
03	Mass Transfer-I (Sem I)	Mass Transfer
04	Molecular Biology & Genetic Engineering (Sem I)	Genetic Engineering (sem VI)
05	Enzyme Engineering (Sem I)	Enzyme Engineering (sem V)
06	Instrumentation & Process Control (Sem II)	Bioprocess Instrumentation & Analysis (sem V)
07	Biological Thermodynamics (Sem II)	--
08	Mass Transfer-II (Sem II)	Mass Transfer (Sem VI)
09	Biotechnology of Waste Treatment (Sem II)	--
10	Fermentation Biotechnology- I (Sem II)	Fermentation Technology (Sem VI)

Subject Equivalence
BE Biotechnology (Sem - VII & VIII)

Sr. No.	Old Syllabus	New Syllabus (CGPA)
01	Bioprocess Engineering – I (sem-VII)	--
02	Bioprocess Modeling and Simulation (sem-VII)	Bioprocess Modeling & Simulation (Sem- VIII)
03	Bioseparation Processes (sem-VII)	Down Stream Processing (Sem-VII)
04	Food Biotechnology (Elective-I) (sem-VII)	Food Biotechnology (Elective-I) (sem- VII)
05	Fermentation Biotechnology-II (sem-VII)	--
06	Bioprocess Engineering -II	--
07	Bioprocess Engineering and Economics (sem-VII)	--
08	Bioinformatics	Bioinformatics (sem-VII)
09	Biosafety and Bioethics	--