

Chemical Engineering

Equivalence

S.E. Chemical Engineering

Semester – III

Sr. No.	S.E. Chemical Engineering Syllabus (2013 – 14)	Sr. No.	Equivalence (New) Subject KBC NMU Syllabus (2019-20)
1	Engineering Mathematics-III	1	No Equivalence
2	Chemical Engineering Materials	2	No Equivalence
3	Fluid Flow Operation	3	Fluid Mechanics
4	Applied Inorganic Chemistry	4	No Equivalence
5	Applied Organic Chemistry	5	No Equivalence

Semester – IV

Sr. No.	S.E. Chemical Engineering Syllabus (2013 – 14)	Sr. No.	Equivalence (New) Subject KBC NMU Syllabus (2019-20)
1	Chemical Engineering Processes-I	1	No Equivalence
2	Process Calculations	2	Material and Energy Balance Computations
3	Mechanical Operation	3	No Equivalence
4	Applied Physical Chemistry	4	No Equivalence
5	Chemical Engineering Processes-II	5	No Equivalence

T.E. Chemical Engineering

Equivalence

Semester – V

Sr. No.	T.E. Chemical Engineering Syllabus (2014 - 15)	Sr. No.	Equivalence (New) Subject KBC NMU Syllabus (2019-20)
1	Process Equipment Design -I	1	No Equivalence
2	Process Heat Transfer	2	No Equivalence
3	Instrumentation & Instrumental Analysis	3	No Equivalence
4	Mass Transfer-I	4	Mass Transfer-I
5	Industrial Economics and Management	5	No Equivalence

Semester – VI

Sr. No.	T.E. Chemical Engineering Syllabus (2014 - 15)	Sr. No.	Equivalence (New) Subject KBC NMU Syllabus (2019-20)
1	Process Equipment Design -II	1	No Equivalence
2	Chemical Reaction Engineering-I	2	No Equivalence
3	Chemical Engineering Thermodynamics	3	No Equivalence
4	Mass Transfer-II	4	Mass Transfer-II
5	Process Engineering Economics & Costing	5	No Equivalence

Biotechnology Engineering
Equivalence
SE Biotechnology Engineering
Semester – III

Sr. No.	S.E. Biotechnology Engineering Syllabus (2013 – 14)	Equivalence (New) Subject KBC NMU Syllabus (2019-20)
1	Engineering Mathematics –III	No Equivalence
2	Concepts in Biotechnology	No Equivalence
3	Bioprocess Calculations	Bioprocess Calculations
4	Unit Operations-I	No Equivalence
5	Microbiology	Microbiology

Semester – IV

Sr. No.	S.E. Biotechnology Engineering Syllabus (2013 – 14)	Equivalence (New) Subject KBC NMU Syllabus (2019-20)
1	Immunology	Immunology
2	Biochemistry	Biochemistry
3	Biostatistics	Biostatistics
4	Unit Operations –II	No Equivalence
5	Process Heat Transfer	Process Heat Transfer

T.E. Biotechnology Engineering

Equivalence

Semester – V

Sr. No.	T.E. Biotechnology Engineering Syllabus (2014 – 15)	Sr. No.	Equivalence (New) Subject KBC NMU Syllabus (2019-20)
1	Bioprocess Instrumentation & Analysis	1	No Equivalence
2	Molecular Biology	2	Molecular Biology
3	Chemical Reaction Engineering	3	Reaction Engineering
4	Enzyme Engineering	4	Enzyme Engineering
5	Bioprocess Industrial Economics & Management	5	No Equivalence

Semester – VI

Sr. No.	T.E. Biotechnology Engineering Syllabus (2014 – 15)	Sr. No.	Equivalence (New) Subject KBC NMU Syllabus (2019-20)
1	Bioprocess Engineering	1	Bioprocess Engineering
2	Genetic Engineering	2	Genetic Engineering
3	Fermentation Technology	3	No Equivalence
4	Mass Transfer	4	Mass Transfer
5	IPR & Entrepreneurship	5	No Equivalence