



National Institute of Technology Raipur

G.E. Road, Raipur Chhattisgarh - 492010, India

B.Tech. Equivalence Courses List

Branch : CHEMICAL ENGINEERING

CSVТУ Scheme : CHEMICAL ENGINEERING - 2007-2008 [CSVТУ]

Semester : I

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	300112(11) - Applied Chemistry	0020112(CH) - Applied Chemistry	I
2	300114(14) - Applied Maths-I	0020114(MA) - Applied Maths-I	I
3	300113(15) - Applied Physics-I	0020113(PH) - Applied Physics	I
4	300111(46) - Language (Professional Communication In English)	NON-EQUIVALENT	
5	300115(24) - Basic Electrical Engineering	0020115(EL) - Basic Electrical Engineering	I
6	300116(37) - Engineering Mechanics	0020116(AM) - Engineering Mechanics	I
7	300121(11) - Applied Chemistry (Lab)	NON-EQUIVALENT	
8	300122(24) - Basic Electrical Engineering (Lab)	NON-EQUIVALENT	
9	300123(37) - Engineering Mechanics (Lab)	NON-EQUIVALENT	
10	300124(37) - Workshop	NON-EQUIVALENT	
11	300125(46) - Communication Skills	NON-EQUIVALENT	



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Semester : II

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	300212(11) - Environmental & Ecology	0020212(CH) - Environment & Ecology	II
2	300214(14) - Applied Maths-II	0020214(MA) - Applied Maths-II	II
3	300213(15) - Applied Physics-II	NON-EQUIVALENT	
4	300211(37) - Engineering Graphics	0020211(ME) - Engineering Graphics	II
5	300215(37) - Basic Mechanical Engineering	NON-EQUIVALENT	
6	300216(20) - Basic Civil Engineering	NON-EQUIVALENT	
7	300222(15) - Applied Physics-II (Lab)	NON-EQUIVALENT	
8	300223(20) - Basic Civil Engineering (Lab)	NON-EQUIVALENT	
9	300224(37) - Engineering Graphics (Lab)	NON-EQUIVALENT	
10	300225(22) - Introduction To Computing (Lab)	NON-EQUIVALENT	
11	300226(46) - Group Discussion	NON-EQUIVALENT	



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Semester : III

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	300311(14) - Mathematics-III	MA20311(CL) - Mathematics - III	III
2	319312(19) - Inorganic Process Technology	CL20314(CL) - Inorganic Process Technology	III
3	319313(19) - Industrial Process Calculations	CL20315(CL) - Industrial Process Calculation	III
4	320316(28) - Electronics & Instrumentation	NON-EQUIVALENT	
5	300325(46) - Value Education	NON-EQUIVALENT	
6	319321(19) - Basic Chemical Engineering (Lab)	NON-EQUIVALENT	
7	319322(19) - Inorganic Process Technology (Lab)	NON-EQUIVALENT	
8	319323(19) - Applied Physical Chemistry (Lab)	NON-EQUIVALENT	
9	319324(37) - Strength Of Materials (Lab)	NON-EQUIVALENT	
10	319314(19) - Applied Physical Chemistry	NON-EQUIVALENT	
11	319315(37) - Strength Of Materials	ME20312(CL) - Strength of Materials	III



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Semester : IV

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	319413(19) - Process Economics & Management	CL20413(CL) - Process Economics & Management	IV
2	319415(19) - Fuel Technology	CL20414(CL) - Fuel Technology	IV
3	319414(19) - Material Technology	CL20316(CL) - Material Technology	III
4	319411(19) - Fluid & Particle Operations	CL20411CL - Mechanical Operations	IV
5	319412(19) - Computer Applications In Chemical Engineering	CL20313(CL) - Computer Programming, C++ in Chemical Engineering	III
6	300425(46) - Health, Hygiene & Yoga	NON-EQUIVALENT	
7	319421(19) - Fluid & Particle Operations (Lab)	NON-EQUIVALENT	
8	319423(19) - Fuel Technology (Lab)	NON-EQUIVALENT	
9	319422(19) - Computer Applications Lab In Chemical Engineering	NON-EQUIVALENT	
10	319424(11) - Organic Chemistry (Lab)	NON-EQUIVALENT	
11	319416(11) - Organic Chemistry	NON-EQUIVALENT	



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Semester : V

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	319511(19) - Fluid Flow Operations	CL20511(CL) - Fluid Mechanics	V
2	319512(19) - Heat Transfer Operations	CL20513(CL) - Heat Transfer Operations	V
3	319513(19) - Computational Methods in Chemical Engg.	NON-EQUIVALENT	
4	319514(19) - Instrumentation & Measurement	CL20415(CL) - Instrumentation & Measurement	IV
5	319515(19) - Environmental Pollution and Control	CL20814CL - Environment Pollution & Control	VIII
6	319516(19) - Bio- Chemical Engg.	NON-EQUIVALENT	
7	300525(46) - Personality Development	NON-EQUIVALENT	
8	319521(19) - Fluid Flow Operations Lab	NON-EQUIVALENT	
9	319522(19) - Heat Transfer Operations Lab	NON-EQUIVALENT	
10	319523(19) - Instrumentation & Measurement Lab	NON-EQUIVALENT	
11	319524(19) - Bio- Chemical Engg. Lab	NON-EQUIVALENT	
12	319526(19) - Practical Training Evaluation* and Library	NON-EQUIVALENT	



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Semester : VI

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	319611(19) - CHEMICAL ENGG. THERMODYNAMICS	CL20412CL - Chemical Engineering Thermodynamics	IV
2	319612(19) - CHEMICAL REACTION ENGG.	NON-EQUIVALENT	
3	319613(19) - SEPARATION PROCESSES -I	CL20512(CL) - Mass Transfer Operations-I	V
4	319614(19) - ORGANIC PROCESSES TECHNOLOGY	CL20615CL - Organic Processes & Technology	VI
5	319615(19) - PROCESS EQUIPMENT DESIGN-I	CL20614CL - Chemical Process Equipment Design-I (Mechanical Aspects)	VI
6	319634(19) - PROF. ELECTIVE - I (PROCESS SAFETY AND HAZARD MANAGEMENT)	CL20516(CL) - Process Safety & Hazard Managemnt	V
7	319621(19) - CHEMICAL REACTION ENGG LAB	NON-EQUIVALENT	
8	319622(19) - SEPARATION PROCESSES -I LAB	NON-EQUIVALENT	
9	319623(19) - ORGANIC PROCESS TECHNOLOGY LAB	NON-EQUIVALENT	
10	319624(19) - PROCESS EQUIPMENT DESIGN -I VIVA	NON-EQUIVALENT	
11	319631(19) - Prof. Elective-I (OPTIMIZATION TECHNIQUE)	NON-EQUIVALENT	
12	319632(19) - Prof. Elective-I (MEMBRANE SCIENCE AND ENGG.)	NON-EQUIVALENT	
13	319633(19) - Prof. Elective-I (PROJECT ENGG.)	NON-EQUIVALENT	
14	300625 (36) - MANAGERIAL SKILLS	NON-EQUIVALENT	



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Semester : VII

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	319711(19) - Transport Phenomena	CL20613CL - Transport Phenomena	VI
2	319712(19) - Computer Aided Process Engg.	NON-EQUIVALENT	
3	319713(19) - Separation Processes -II	CL20611CL - Mass Transfer Operations-II	VI
4	319714(19) - Process Equipment Design-II	CL20711CL - Process Equipment Design - II	VII
5	319752(19) - Prof. Elective-II (Petroleum Refinery Engg.)	CL20714CL - Petroleum Refining Process	VII
6	300725(36) - Innovative and Entrepreneurial Skills	NON-EQUIVALENT	
7	319721(19) - Computer Aided Process Engg. Lab	NON-EQUIVALENT	
8	319722(19) - Separation Processes -II Lab	NON-EQUIVALENT	
9	319723(19) - Process Equipment Design -II Viva	NON-EQUIVALENT	
10	319724(19) - Minor Project	NON-EQUIVALENT	
11	319726(19) - Practical Training and Library	NON-EQUIVALENT	
12	319751(19) - Prof. Elective-II (Reactor Design)	NON-EQUIVALENT	
13	319753(19) - Prof. Elective-II (Polymer Technology)	NON-EQUIVALENT	
14	319754(19) - Prof. Elective-II (Oil and Fat Technology)	NON-EQUIVALENT	



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Semester : VIII

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	319811(19) - Process Equipment Design-III	CL20813CL - Process Equipment Design - III	VIII
2	319812(19) - Fluidization Engg.	CL20812CL - Fluidization Engineering	VIII
3	319872(19) - Prof. Elective-III (Process Engg. & Costing)	NON-EQUIVALENT	
4	319881(19) - Open Elective -IV (Non Conventional Energy Sources)	CL20616CL - Non Conventional Energy Sources	VI
5	319821(19) - Process Equipment Design -III Viva	NON-EQUIVALENT	
6	319822(19) - Fluidization Engg. Lab	NON-EQUIVALENT	
7	319823(19) - Process Dynamics and Control Lab	NON-EQUIVALENT	
8	319824(19) - Major Project	NON-EQUIVALENT	
9	319871(19) - Prof. Elective-III (Modeling and Simulation)	NON-EQUIVALENT	
10	319873(19) - Prof. Elective-III (Sugar Technology)	NON-EQUIVALENT	
11	319874(19) - Prof. Elective-III (Pulp and Paper Technology)	NON-EQUIVALENT	
12	300825(19) - Report Writing & Seminar	NON-EQUIVALENT	
13	319813(19) - Process Dynamics and Control	CL20713CL - Process Dynamic & Control	VII