



National Institute of Technology Raipur

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

B.Tech. Equivalence Courses List

Branch : BIO TECHNOLOGY

CSVТУ Scheme : BIO TECHNOLOGY - 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	300111(46) - Language (Professional Communication In English)	NON-EQUIVALENT	
4	300115(24) - Basic Electrical Engineering	0020115(EL) - Basic Electrical Engineering	I
5	300116(37) - Engineering Mechanics	0020116(AM) - Engineering Mechanics	I
6	300117(18) - Bio Science-I	NON-EQUIVALENT	
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	300217(18) - Bio Science-II	NON-EQUIVALENT	
2	300214(14) - Applied Maths-II	0020214(MA) - Applied Maths-II	II
3	300211(37) - Engineering Graphics	0020211(ME) - Engineering Graphics	II
4	300215(37) - Basic Mechanical Engineering	NON-EQUIVALENT	
5	300216(20) - Basic Civil Engineering	NON-EQUIVALENT	
6	300217(15) - Applied Physics	NON-EQUIVALENT	
7	300223(20) - Basic Civil Engineering (Lab)	NON-EQUIVALENT	
8	300224(37) - Engineering Graphics (Lab)	NON-EQUIVALENT	
9	300225(22) - Introduction To Computing (Lab)	NON-EQUIVALENT	
10	300226(46) - Group Discussion	NON-EQUIVALENT	
11	300227(15) - Applied Physics (Lab)	NON-EQUIVALENT	



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Semester : III

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	318311(18) - Microbiology	NON-EQUIVALENT	
2	318312(18) - Biochemistry	BT20312(BT) - Bio Chemistry	III
3	318313(18) - Fundamentals Of Genetics	NON-EQUIVALENT	
4	318314(18) - Bio Physics	NON-EQUIVALENT	
5	318315(11) - Chemistry Of Natural Products	NON-EQUIVALENT	
6	318316(19) - Heat And Mass Transfer Operation	NON-EQUIVALENT	
7	300325(46) - Value Education	NON-EQUIVALENT	
8	318321(18) - Microbiology (Lab)	NON-EQUIVALENT	
9	318322(18) - Biochemistry (Lab)	NON-EQUIVALENT	
10	318323(11) - Chemistry Of Natural Products (Lab)	NON-EQUIVALENT	
11	318324(19) - Heat And Mass Transfer Operations (Lab)	NON-EQUIVALENT	



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Semester : IV

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	318411(18) - Cellular & Molecular Biology	NON-EQUIVALENT	
2	318412(18) - Recombinant DNA Technology	BT20414(BT) - Recombinant DNA Technology	IV
3	318413(18) - Food Biotechnology	NON-EQUIVALENT	
4	318414(19) - Stoichiometric Calculations	NON-EQUIVALENT	
5	318415(19) - Transport Processes	NON-EQUIVALENT	
6	318416(19) - Thermodynamics & Biochemical Reaction Engineering	BT20416(BT) - Thermodynamics & Reaction Engineering	IV
7	300425(46) - Health, Hygiene & Yoga	NON-EQUIVALENT	
8	318421(18) - Cellular & Molecular Biology (Lab)	NON-EQUIVALENT	
9	318422(18) - Recombinant DNA Technology (Lab)	NON-EQUIVALENT	
10	318423(19) - Transport Processes (Lab)	NON-EQUIVALENT	
11	318424(19) - Thermodynamics & Biochemical Reaction Engineering (Lab)	NON-EQUIVALENT	



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Semester : V

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	318511(18) - Plant Biotechnology	NON-EQUIVALENT	
2	318512(41) - Drugs & pharmaceutical BIO-TECH.	BT20513BT - Drug Design & Pharma Technology	V
3	318513(19) - Instrumentation Technique	NON-EQUIVALENT	
4	318514(18) - Enzyme Technology	BT20512BT - Enzyme Technology	V
5	318515(18) - Animal Biotechnology	NON-EQUIVALENT	
6	318516(19) - Process Economics And Management	NON-EQUIVALENT	
7	300525(46) - Personality Development	NON-EQUIVALENT	
8	318521(18) - Plant Biotechnology Lab	NON-EQUIVALENT	
9	318522(41) - Drug And pharmaceutical tech lab	NON-EQUIVALENT	
10	318523(19) - Instrumentation techniques lab	NON-EQUIVALENT	
11	318524(18) - Enzyme Technology Lab	NON-EQUIVALENT	
12	318526(18) - Practical Training/Evaluation library	NON-EQUIVALENT	



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Semester : VI

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	318611(18) - Immunology - I	NON-EQUIVALENT	
2	318612(18) - Plant Tissue Culture Technology	NON-EQUIVALENT	
3	318613(14) - BIO-STATISTICS	Bt20615BT - Biostatistics & Probability	VI
4	318614(18) - BIO-INFORMATICS	BT20611BT - Bioinformatics	VI
5	318615(18) - ENVIRONMENTAL BIOTECHNOLOGY	BT 20812 BT - Environmental Biotechnology	VIII
6	300625(36) - MANAGERIAL SKILLS	NON-EQUIVALENT	
7	318621(18) - IMMUNOLOGY -I LAB	NON-EQUIVALENT	
8	318622(18) - TISSUE CULTURE TECHNOLOGY LAB	NON-EQUIVALENT	
9	318623(18) - BIO-INFORMATICS LAB	NON-EQUIVALENT	
10	318624(18) - ENVIRONMENTAL BIOTECHNOLOGY LAB	NON-EQUIVALENT	
11	318631(19) - Prof. Elective-I (CATALYST ENGG.)	NON-EQUIVALENT	
12	318632(19) - Prof. Elective-I (FERTILIZER TECHNOLOGY)	NON-EQUIVALENT	
13	318633(19) - Prof. Elective-I (BIOPROCESS PLANT DESIGN)	NON-EQUIVALENT	



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Semester : VII

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	318711 (18) - Immunology-II	NON-EQUIVALENT	
2	318712(18) - Bioethics and Biosafety	BT20514BT - Bioethics & Biosafety	V
3	318713 (18) - Genomics and Proteomics	NON-EQUIVALENT	
4	318714 (19) - Unit Operation	BT 20713 BT - Unit Operation	VII
5	318751 (18) - Prof. Elective-II (Cancer Biology)	BT 20732 BT - Cancer Biology	VII
6	300725(36) - Innovative and Entrepreneurial Skills	NON-EQUIVALENT	
7	318721 (18) - Immunology - II Lab	NON-EQUIVALENT	
8	318722 (18) - Genomics and Proteomics Lab	NON-EQUIVALENT	
9	318723 (19) - Unit Operation Lab	NON-EQUIVALENT	
10	318724 (18) - Minor Project	NON-EQUIVALENT	
11	318726 (18) - Practical Training Evaluation/ Library	NON-EQUIVALENT	
12	318752(18) - Prof. Elective-II (Bioprocess Technology)	NON-EQUIVALENT	
13	318753(18) - Prof. Elective-II (Molecular Pathogenesis)	NON-EQUIVALENT	



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Semester : VIII

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	318812(18) - Metabolic Engg.	BT 20811 BT - Metabolic Engineering	VIII
2	318811(18) - Analytical Techniques in Biotechnology	BT20612BT - Analytical Techniques in Biotechnology	VI
3	318813(18) - Down Stream Processing	NON-EQUIVALENT	
4	318871(18) - Prof. Elective-III (Stem Cell in Health Care)	NON-EQUIVALENT	
5	300892(47) - Open Elective-IV (Nanotechnology)	NON-EQUIVALENT	
6	318823(18) - Metabolic Engg. Lab	NON-EQUIVALENT	
7	318824(18) - Major Project	NON-EQUIVALENT	
8	318872(41) - Prof. Elective-III (Molecular Modeling & Drug Designing)	NON-EQUIVALENT	
9	318873(19) - Prof. Elective-III (Oil and Fat Technology)	NON-EQUIVALENT	
10	318874(18) - Open Elective-IV (Proj. Planning & Mgt)	NON-EQUIVALENT	
11	300825(18) - Report Writing and Seminar	NON-EQUIVALENT	
12	318821(18) - Analytical Techniques in Biotechnology Lab	NON-EQUIVALENT	
13	318822(18) - Down Stream Processing Lab	NON-EQUIVALENT	