



National Institute of Technology Raipur

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

B.Tech. Equivalence Courses List

Branch : CIVIL ENGINEERING

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

Semester : I

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	300216(20) - Basic Civil Engineering	NON-EQUIVALENT	
2	300215(37) - Basic Mechanical Engineering	NON-EQUIVALENT	
3	300212(11) - Environmental & Ecology	0020212(CH) - Environment & Ecology	I
4	300114(14) - Applied Maths-I	0020114(MA) - Applied Maths-I	I
5	300213(15) - Applied Physics-II	NON-EQUIVALENT	
6	300211(37) - Engineering Graphics	0020211(ME) - Engineering Graphics	I
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 : II

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	300214(14) - Applied Maths-II	0020214(MA) - Applied Maths-II	II
2	300112(11) - Applied Chemistry	0020112(CH) - Applied Chemistry	II
3	300113(15) - Applied Physics-I	0020113(PH) - Applied Physics	II
4	300111(46) - Language (Professional Communication in English)	NON-EQUIVALENT	
5	300115(24) - Basic Electrical Engineering	0020115(EL) - Basic Electrical Engineering	II
6	300116(37) - Engineering Mechanics	0020116(AM) - Engineering Mechanics	II
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 : III

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	320312(20) - Fluid Mechanics-I	CI20312(CI) - Fluid Mechanics - I	III
2	320313(20) - Surveying-I	CI20313(CI) - Surveying - I	III
3	320314(20) - Mechanics of Solids	CI20316(CI) - Mechanics of Solids	III
4	320315(20) - Building Materials	CI20314(CI) - Building Materials	III
5	320316(28) - Electronics & Instrumentation	NON-EQUIVALENT	
6	300325(46) - Value Education	NON-EQUIVALENT	
7	320321(20) - Fluid Mechanics-I (Lab)	NON-EQUIVALENT	
8	320322(20) - Surveying Field Work-I	NON-EQUIVALENT	
9	320323(20) - Materials Testing (Lab)	NON-EQUIVALENT	
10	320324(20) - Computer (Lab)	NON-EQUIVALENT	
11	300311(14) - Mathematics-III	MA20311(CI) - Mathematics - III	III



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Semester : IV

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	320411(20) - Structural Analysis - I	CI20411(CI) - Structural Analysis I	IV
2	320412(20) - Fluid Mechanics - II	CI20412(CI) - Fluid Mechanics II	IV
3	320413(20) - Surveying - II	CI20413(CI) - Surveying II	IV
4	320414(20) - Civil Engineering Drawing	CI20414(CI) - Civil Engineering Drawing	IV
5	320415(20) - Building Construction	CI20415(CI) - Building Construction	IV
6	320416(20) - Engineering Geology	CI20315(CI) - Engineering Geology	III
7	300425(46) - Health, Hygiene & Yoga	NON-EQUIVALENT	
8	320421(20) - Fluid Mechanics - II (Lab)	NON-EQUIVALENT	
9	320422(20) - Surveying Field Work - II	NON-EQUIVALENT	
10	320423(20) - Civil Engineering Drawing (Lab)	NON-EQUIVALENT	
11	320424(20) - Engineering Geology (Lab)	NON-EQUIVALENT	



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Semester : V

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	320511 (20) - Structural Analysis - II	CE-511 - Structural Analysis -II	V
2	320512 (20) - Structural Engineering Design - I	CE-512 - Structural Engineering Design-I	V
3	320513 (20) - Geotech Engineering - I	CE-513 - Geotech Engineering -I	V
4	320514 (20) - Transportation Engineering	CI20416(CI) - Transportation Engineering I	IV
5	320515 (20) - Numerical Methods and Computer Programming	NON-EQUIVALENT	
6	320516 (20) - Engineering Hydrology	CE-516 - Engineering Hydrology	V
7	300525(46) - Personality Development	NON-EQUIVALENT	
8	320521 (20) - Structural Analysis - Lab	NON-EQUIVALENT	
9	320522 (20) - Geotech Engineering - I Lab	NON-EQUIVALENT	
10	320523 (20) - Transportation Engineering - Lab	NON-EQUIVALENT	
11	320524 (20) - Numerical Methods and Computer Programming Lab	NON-EQUIVALENT	
12	320526 (20) - *Practical Training Evaluation and Library	NON-EQUIVALENT	



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Semester : VI

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	320611(20) - STRUCTURAL ENGINEERING DESIGN -II	CE-611 - Structural Engineering Design -II	VI
2	320612(20) - GEOTECH ENGINEERING- II	CE-614 - Geotech Engineering-II	VI
3	320614(20) - TRANSPORTATION ENGG.-II	CE-514 - Transportation Engineering - II	V
4	320613(20) - ENVIRONMENTAL ENGINEERING -I	CE-515 - Environmental Engineering - I	V
5	320615(20) - CONSTRUCTION PLANNING AND MANAGEMENT	CE-615 - Construction Planning and Management	VI
6	320633(20) - PROF. ELECTIVE – I (ADVANCED CONCRETE TECHNOLOGY)	CE- 6161 - Professional Elective-I (Advanced Concrete Technology)	VI
7	300625(36) - MANAGERIAL SKILLS	NON-EQUIVALENT	
8	320621(20) - STRUCTURAL ENGG. LAB	NON-EQUIVALENT	
9	320622(20) - GEOTECH ENGG. -II LAB	NON-EQUIVALENT	
10	320623(20) - ENVIRONMENTAL ENGG. I LAB	NON-EQUIVALENT	
11	320624(20) - CONCRETE LAB	NON-EQUIVALENT	
12	320631(20) - Prof. Elective-I (MODERN CONSTRUCTION MATERIALS)	NON-EQUIVALENT	
13	320632(20) - Prof. Elective-I (COMPOSITE MATERIALS)	NON-EQUIVALENT	
14	320634(20) - Prof. Elective-I (ADVANCED STRENGTH OF MATERIALS)	NON-EQUIVALENT	
15	320635(20) - Prof. Elective-I (MODERN SURVEYING TECHNIQUES)	NON-EQUIVALENT	
16	320636(20) - Prof. Elective-I (REMOTE SENSING AND ITS APPLICATIONS)	NON-EQUIVALENT	
17	320637(20) - Prof. Elective-I (GIS & ITS APPLICATIONS)	NON-EQUIVALENT	
18	320638(20) - Prof. Elective-I (COMPUTATIONAL HYDRAULICS)	NON-EQUIVALENT	



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Semester : VI

SrNo	CSVТУ COURSES	NIT COURSES	Semester
19	320639(20) - Prof. Elective-I (INSTRUMENTATION IN FLUID MACHANICS)	NON-EQUIVALENT	
20	320640(20) - Prof. Elective-I (WATER POWER ENGINEERING)	NON-EQUIVALENT	



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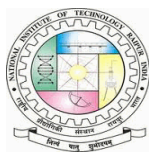
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Semester : VII

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	320711(20) - Structural Engineering Design -III	CE-711 - Structural Engineering Design -III	VII
2	320712(20) - Water Resources Engineering-I	CE-712 - Water Resources Engineering - I	VII
3	320714(20) - Quantity Surveying and Cost Evaluation	CE-613 - Quantity Surveying and Cost Evaluation	VI
4	320751(20) - Prof. Elective-II (Prestressed Concrete)	CE-8142 - Prestressed Concrete Structures	VIII
5	320721(20) - Structural Engineering Drawing- I Lab	NON-EQUIVALENT	
6	320722(20) - Environmental Engineering -II Lab	NON-EQUIVALENT	
7	320723(20) - Quantity Surveying and Cost Evaluation Lab	NON-EQUIVALENT	
8	320724(20) - Minor Project	NON-EQUIVALENT	
9	300725(36) - Innovative and Entrepreneurial Skills	NON-EQUIVALENT	
10	320726(20) - Practical Training Evaluation and Library	NON-EQUIVALENT	
11	320752(20) - Prof. Elective-II (Safety in Construction)	NON-EQUIVALENT	
12	320753(20) - Prof. Elective-II (Fabrication and Erection of Structures)	NON-EQUIVALENT	
13	320754(20) - Prof. Elective-II (Construction Equipments and Techniques)	NON-EQUIVALENT	
14	320755(20) - Prof. Elective-II (Expansive Soils)	NON-EQUIVALENT	
15	320756(20) - Prof. Elective-II (Geotechnical Processes)	NON-EQUIVALENT	
16	320757(20) - Prof. Elective-II (Foundation Engineering)	NON-EQUIVALENT	
17	320713(20) - Environmental Engineering -II	CE-612 - Environmental Engineering - II	VI



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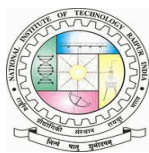
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Semester : VIII

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	320811(20) - Structural Engineering Design -IV	CE-811 - Structural Engineering Design - IV	VIII
2	320812(20) - Water Resources Engineering-II	CE-812 - Water Resources Engineering - II	VIII
3	320882 (20) - Open Elective-IV (Construction Management)	CE 7141 - Construction Management	VII
4	300825(20) - Report Writing & Seminar	NON-EQUIVALENT	
5	320813(20) - Structural Analysis III	CE-713 - Structural Analysis III	VII
6	320821(20) - Structural Engineering Drawing -II Lab	NON-EQUIVALENT	
7	320822(20) - Water Resources Engineering Drawing Lab	NON-EQUIVALENT	
8	320823(20) - Computer Application in Civil Engineering Lab	NON-EQUIVALENT	
9	320824(20) - Major Project	NON-EQUIVALENT	
10	320871(20) - Prof. Elective-III (Industrial Waste Treatment)	NON-EQUIVALENT	
11	320872(20) - Prof. Elective-III (Advanced Environmental Engineering)	NON-EQUIVALENT	
12	320873(20) - Prof. Elective-III (EIA & Mgnt.)	NON-EQUIVALENT	
13	320874(20) - Prof. Elective-III (Air Pollution and Control Measures)	NON-EQUIVALENT	
14	320875(20) - Prof. Elective-III (Bridge Engineering Design)	NON-EQUIVALENT	
15	320876(20) - Prof. Elective-III (Analysis of Framed Structures)	NON-EQUIVALENT	
16	320877(20) - Prof. Elective-III (Seismic Design of Structures)	NON-EQUIVALENT	
17	320878(20) - Prof. Elective-III (Open Channel Flow)	NON-EQUIVALENT	



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SrNo	CSVТУ COURSES	NIT COURSES	Semester
18	320879(20) - Prof. Elective-III (Water Resources Planning & Management)	NON-EQUIVALENT	
19	320880(20) - Prof. Elective-III (Water Shed Management)	NON-EQUIVALENT	
20	320881(20) - Open Elective-IV(Finite Element Methods)	CE-813 - Numerical Methods in Civil Engg. (Finite Element Analysis)	VIII