



National Institute of Technology Raipur

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

B.Tech. Equivalence Courses List

Branch : METALLURGICAL ENGINEERING

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

Semester : I

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	300212(11) - Environmental & Ecology	0020212(CH) - Environment & Ecology	I
2	300114(14) - Applied Maths-I	0020114(MA) - Applied Maths-I	I
3	300213(15) - Applied Physics-II	NON-EQUIVALENT	
4	300211(37) - Engineering Graphics	0020211(ME) - Engineering Graphics	I
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 : 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	300325(46) - Value Education	NON-EQUIVALENT	
2	338311(38) - Ore Dressing	NON-EQUIVALENT	
3	338312(13) - Geology of Minerals	NON-EQUIVALENT	
4	338313(14) - Mathematics-III	NON-EQUIVALENT	
5	338314(20) - Mechanics of Solids & Fluids	NON-EQUIVALENT	
6	338315(38) - Fuels & Refractories	MT20315(MT) - Fuel, Furnaces and Refractory	III
7	338316(11) - Chemical Characterization of Materials	NON-EQUIVALENT	
8	338321(38) - Ore Dressing (Lab)	NON-EQUIVALENT	
9	338322(13) - Geology of Minerals (Lab)	NON-EQUIVALENT	
10	338323(38) - Fuels & Refractories (Lab)	NON-EQUIVALENT	
11	338324(11) - Chemical Characterization of Materials (Lab)	NON-EQUIVALENT	



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Semester : IV

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	300425(46) - Health, Hygiene & Yoga	NON-EQUIVALENT	
2	338411(24) - Electrical Technology & Electronics	EL20312(MT) - Fundamentals of Electrical Technology & Electronics	III
3	338412(14) - Numerical Analysis	NON-EQUIVALENT	
4	338413(38) - Testing of Materials	MT20411(MT) - Testing of Materials	IV
5	338414(38) - Material Science & Metallography	MT20313(MT) - Introduction to Materials Science	III
6	338415(38) - Metallurgical Thermodynamics & Kinetics	MT20314(MT) - Metallurgical Thermodynamics	III
7	338416(38) - Engineering Polymers & Composites	MT20414(MT) - Engineering of Non-metallic Materials	IV
8	338422(38) - Testing of Materials (Lab)	NON-EQUIVALENT	
9	338423(38) - Material Science & Metallography (Lab)	NON-EQUIVALENT	
10	338424(38) - Non-Destructive Testing (Lab)	NON-EQUIVALENT	



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Semester : V

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	300525(46) - Personality Development	NON-EQUIVALENT	
2	338511(38) - Engineering Economics	MT20611(MT) - Engineering Economics and Industrial Management	VI
3	338512(38) - Industrial Pollution and Control	NON-EQUIVALENT	
4	338514(38) - Mechanical Working Processes	MT20612(MT) - Metal Forming Processes	VI
5	338515(38) - Transport Phenomenon in Metallurgical Process	MT20416(MT) - Transport phenomena in metallurgical processes	IV
6	338516(38) - Physical Metallurgy	MT20412(MT) - Physical Metallurgy	IV
7	338521(38) - Physical Metallurgy Lab	NON-EQUIVALENT	
8	338522(38) - Mechanical Working Processes Lab	NON-EQUIVALENT	
9	338523(38) - Transport Phenomenon Lab	NON-EQUIVALENT	
10	338524(38) - Principles of Extractive Metallurgy Lab	NON-EQUIVALENT	
11	338526(38) - * Practical Training Evaluation and Library	NON-EQUIVALENT	
12	338513(38) - Principles of Extractive Metallurgy	MT20415(MT) - Principles of Non Ferrous Extractive Metallurgy	IV



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Semester : VI

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	300625(36) - MANAGERIAL SKILLS	NON-EQUIVALENT	
2	338611(38) - FOUNDRY ENGINEERING	MT20515(MT) - Foundry Technology	V
3	338612(38) - THEORY & TECHNOLOGY OF HEAT TREATMENT	MT20511(MT) - Heat Treatment Technology	V
4	338613(38) - COMPUTER PROGRAMMING & APP. IN METALLURGICAL INDUSTRIES	NON-EQUIVALENT	
5	338614(38) - INDUSTRIAL METALLURGY	MT20512(MT) - Metal Joining Processes (Welding, Brazing and Soldering))	V
6	338615(38) - FERROUS EXTRACTION METALLURGY-I	MT20413(MT) - Ferrous Extractive Metallurgy I (Iron Making)	IV
7	338621(38) - FOUNDRY ENGINEERING LAB	NON-EQUIVALENT	
8	338622(38) - COMPUTER PROG. & APP. METALLURGICAL INDUSTRIES LAB	NON-EQUIVALENT	
9	338623(38) - INDUSTRIAL METALLURGY LAB	NON-EQUIVALENT	
10	338624(38) - THEORY AND TECHNOLOGY OF HEAT TREATMENT LAB	NON-EQUIVALENT	
11	338631(38) - PROF. ELECTIVE-I (FURNACE TECHNOLOGY & INSTRUMENTATION)	NON-EQUIVALENT	
12	338632(38) - Prof. Elective-I (METALLURGY OF RARE METALS)	NON-EQUIVALENT	



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Semester : VII

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	300725(36) - Innovative and Entrepreneurial Skills	NON-EQUIVALENT	
2	338711(38) - Ferrous Extraction Metallurgy-II	MT20513(MT) - Ferrous Extractive Metallurgy II (Steel Making and Continuous Casting)	V
3	338713(38) - Electrometallurgy and Corrosion	MT20711(MT) - Corrosion Engineering	VII
4	338714(38) - Alloys Their Properties and Selection	MT 20812(MT) - Alloy Design and Application	VIII
5	338721(38) - Ferrous Extraction Metallurgy-II Lab	NON-EQUIVALENT	
6	338722(38) - Alloys and Their Properties and Selection Lab	NON-EQUIVALENT	
7	338723(38) - Electrometallurgy and Corrosion Lab	NON-EQUIVALENT	
8	338724(38) - Minor Project	NON-EQUIVALENT	
9	338726(38) - *Practical Training Evaluation and Library	NON-EQUIVALENT	
10	338751(38) - Prof. Elective-II Computer App. in Metallurgical Industries)	NON-EQUIVALENT	
11	338752(38) - Prof. Elective-II (Design and App. Engineering Materials)	NON-EQUIVALENT	
12	338712(38) - Non Ferrous Extraction Metallurgy	MT20415(MT) - Principles of Non Ferrous Extractive Metallurgy	IV



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Semester : VIII

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	300825(38) - Report Writing & Seminar	NON-EQUIVALENT	
2	338811(38) - Structural Metallurgy	NON-EQUIVALENT	
3	338812(38) - Foundry Metallurgy	MT20515(MT) - Foundry Technology	V
4	338813(38) - Experimental Techniques in Metallurgy	NON-EQUIVALENT	
5	338821(38) - Structural Metallurgy Lab	NON-EQUIVALENT	
6	338822(38) - Foundry Metallurgy Lab	NON-EQUIVALENT	
7	338823(38) - Experimental Techniques in Metallurgy Lab	NON-EQUIVALENT	
8	338824(38) - Major Project	NON-EQUIVALENT	
9	338871(38) - Prof. Elective-III (Powder Metallurgy & Ceramics)	NON-EQUIVALENT	
10	338872(38) - Prof. Elective-III (Light Metals)	NON-EQUIVALENT	
11	338881(38) - Open Elective-IV (Nano Technology)	1020743(MT) - Introduction to Nanoscience and Nanotechnology	VII