



National Institute of Technology Raipur

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

B.Tech. Equivalence Courses List

Branch : ELECTRICAL ENGINEERING

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

Semester : I

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	300115(24) - Basic Electrical Engineering	0020115(EL) - Basic Electrical Engineering	I
2	300114(14) - Applied Maths-I	0020114(MA) - Applied Maths-I	I
3	300112(11) - Applied Chemistry	0020112(CH) - Applied Chemistry	I
4	300113(15) - Applied Physics-I	0020113(PH) - Applied Physics	I
5	300111(46) - Language (Professional Communication In English)	NON-EQUIVALENT	
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	324311(14) - Mathematics III	MA20314(EL) - Mathematics - III	III
2	324312(24) - Electrical Machines-I	EL20316(EL) - Electrical Machines - I	III
3	324313(24) - Solid State Devices	EL20311(EL) - Solid State Devices	III
4	324314(24) - Electric Circuits	EL20313(EL) - Electrical Circuits	III
5	324315(24) - Numerical Analysis & Computer Programming	MA20312(EL) - Numerical Analysis & Computer Programming	III
6	324316(24) - Electrical Power Generation	EL20315(EL) - Generation of Electrical Energy (Conv. & Non-Conventional)	III
7	300325(46) - Value Education	EN20324(EL) - Value Education	III
8	324321(24) - Electrical Machines-I (Lab)	NON-EQUIVALENT	
9	324322(24) - Solid State Devices (Lab)	NON-EQUIVALENT	
10	324323(24) - Electric Circuits (Lab)	NON-EQUIVALENT	
11	324324(24) - Computer Programming (Lab)	NON-EQUIVALENT	



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Semester : IV

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	324411(24) - Electrical Engineering Materials	EL20412(EL) - Electrical Engg. Materials & Semiconductor Devices	IV
2	324412(24) - Electro Magnetic Fields	EL20413(EL) - Electromagnetic Fields	IV
3	324413(24) - Electrical Network Analysis & Synthesis	EL20416(EL) - Electrical Network Analysis & Synthesis	IV
4	324414(24) - Digital Electronics & Logic Design	EL20414(EL) - Digital Electronics & Logic Design	IV
5	324415(24) - Electrical Power System	EL20411(EL) - Electrical Power System	IV
6	324416(24) - Electrical Measurements & Measuring Instruments	EL20415(EL) - Electrical Measurements & Instrumentation	IV
7	300425(46) - Health, Hygiene & Yoga	NON-EQUIVALENT	
8	324421(24) - Network Lab	NON-EQUIVALENT	
9	324422(24) - Digital Electronics & Logic Design (Lab)	NON-EQUIVALENT	
10	324423(24) - Electrical Power System I (Lab)	NON-EQUIVALENT	
11	324424(24) - Electrical Measurements & Measuring Instruments (Lab)	NON-EQUIVALENT	



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Semester : V

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	324511 (24) - Electrical Machine-II	NON-EQUIVALENT	
2	324512 (24) - Electronic Instrumentation	NON-EQUIVALENT	
3	324513 (24) - Analog Electronics	EL20515 - Analog Electronics	V
4	324514 (24) - Control System Engg.	EL20516 - Control System Engg.	V
5	324515 (24) - Computer Systems Architecture	EL20512 - Computer System Architecture	V
6	324516 (24) - Analog & Digital Communication	EL20513 - Analog & Digital Communication	V
7	300525(46) - Personality Development	NON-EQUIVALENT	
8	324526 (24) - *Practical Training Evaluation and Library	EN20525(EL) - Technical Visit/Practical Training	V
9	324521 (24) - Electrical Machine-II Lab	NON-EQUIVALENT	
10	324522 (24) - Electronic Instrumentation Lab	NON-EQUIVALENT	
11	324523 (24) - Analog Electronics Lab	NON-EQUIVALENT	
12	324524 (24) - Control System Engg. Lab	NON-EQUIVALENT	



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Semester : VI

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	324611(24) - POWER SYSTEM ANALYSIS	EL20613 - Power System Analysis	VI
2	324612(24) - POWER SYSTEM PROTECTION & SWITCHGEAR	EL20614 - Power System Protection & Switchgear	VI
3	324613(24) - POWER ELECTRONICS	NON-EQUIVALENT	
4	324614(24) - MICROPROCESSORS	EL20615 - Microprocessors	VI
5	324615(24) - DIGITAL SIGNAL PROCESSING	NON-EQUIVALENT	
6	324631(24) - Prof. Elective-I (FIBRE OPTICS)	NON-EQUIVALENT	
7	300625(36) - MANAGERIAL SKILLS	NON-EQUIVALENT	
8	324621(24) - POWER SYSTEM ANALYSIS LAB	NON-EQUIVALENT	
9	324622(24) - POWER SYSTEM PROTECTION & SWITCHGEAR LAB	NON-EQUIVALENT	
10	324623(24) - POWER ELECTRONICS LAB	NON-EQUIVALENT	
11	324624(24) - MICROPROCESSOR LAB	NON-EQUIVALENT	
12	324632(24) - Prof. Elective-I (POWER SYSTEM PLANNING & RELIABILITY)	NON-EQUIVALENT	
13	324633(24) - Prof. Elective-I (PROCESS CONTROL)	NON-EQUIVALENT	
14	324634(24) - Prof. Elective-I (ROBOTICS & AUTOMATION)	NON-EQUIVALENT	



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Semester : VII

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	324711(24) - High Voltage Engineering	EL20713 - High Voltage Engg.	VII
2	324712(24) - Electrical Machines-III	EL20711 - Electrical Machines - III	VII
3	324713(36) - Management Concepts & Techniques	EL20712 - Management Concept & Techniques	VII
4	324714(24) - Non Conventional & Renewable Energy Sources	NON-EQUIVALENT	
5	324751(24) - Prof. Elective-II (Power Apparatus System)	NON-EQUIVALENT	
6	324724(24) - Minor Project	EL20723 - Minor Project	VII
7	300725(36) - Innovative and Entrepreneurial Skills	NON-EQUIVALENT	
8	324726(24) - *Practical Training Evaluation and Library	-- - Practical Training	VII
9	324721(24) - High Voltage Engineering Lab	NON-EQUIVALENT	
10	324722(24) - Electrical Machine -III Lab	NON-EQUIVALENT	
11	324723(24) - Electric Machine Design Lab	NON-EQUIVALENT	



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Semester : VIII

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	324811(24) - Modern Control System	EL20814 - Modern Control System Engineering	VIII
2	324812(24) - Utilization of Electrical Energy	NON-EQUIVALENT	
3	324813(24) - Installation Maintenance & Testing of Electrical Equipments	NON-EQUIVALENT	
4	324872(24) - Prof. Elective-III (Flexible AC Transmission System)	EL20811 - Flexible AC Transmission System	VIII
5	324881(24) - Open Elective - IV (Energy Audit & Management)	NON-EQUIVALENT	
6	324824(24) - Major Project	EL20823 - Major Project	VIII
7	300825(24) - Report Writing & Seminar	NON-EQUIVALENT	
8	324821(24) - Installation Maintenance & Testing of Elec. Equipment Lab	NON-EQUIVALENT	
9	324822(24) - Utilization of Electrical Energy Lab	NON-EQUIVALENT	
10	324823(24) - Computer Simulation Lab	NON-EQUIVALENT	
11	324871(24) - Prof. Elective-III (EHV AC & DC Transmission)	NON-EQUIVALENT	
12	324873(24) - Prof. Elective-III (Bio Medical Instrumentation)	NON-EQUIVALENT	
13	324874(24) - Prof. Elective-III (MicroController & Embedded System)	NON-EQUIVALENT	
14	324875(24) - Prof. Elective-III (VLSI Design)	NON-EQUIVALENT	
15	324876(24) - Prof. Elective-III (Artificial Neural Network & Fuzzy Logic)	NON-EQUIVALENT	
16	324877(24) - Prof. Elective-III (Radar & Television)	NON-EQUIVALENT	
17	324878(24) - Prof. Elective-III (Satellite Communication)	NON-EQUIVALENT	