



National Institute of Technology Raipur

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

B.Tech. Equivalence Courses List

Branch : BIO MEDICAL ENGINEERING

CSVТУ Scheme : BIO MEDICAL 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	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	300121(11) - Applied Chemistry (Lab)	NON-EQUIVALENT	
7	300122(24) - Basic Electrical Engineering (Lab)	NON-EQUIVALENT	
8	300123(37) - Engineering Mechanics (Lab)	NON-EQUIVALENT	
9	300124(37) - Workshop	NON-EQUIVALENT	
10	300125(46) - Communication Skills	NON-EQUIVALENT	
11	300117(18) - Bio Science-I	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	300211(37) - Engineering Graphics	0020211(ME) - Engineering Graphics	II
3	300215(37) - Basic Mechanical Engineering	NON-EQUIVALENT	
4	300216(20) - Basic Civil Engineering	NON-EQUIVALENT	
5	300217(15) - Applied Physics	NON-EQUIVALENT	
6	300217(18) - Bio Science-II	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	300311(14) - Mathematics-III	NON-EQUIVALENT	
2	328316(28) - Programming With C	NON-EQUIVALENT	
3	317313(17) - Biochemistry	BM20311(BM) - Bio Chemistry	III
4	317314(28) - Network Analysis	BM20316(BM) - Network Analysis	III
5	317315(17) - Anatomy And Physiology	BM20314(BM) - Anatomy and Physiology	III
6	317316(17) - Biophysics	NON-EQUIVALENT	
7	317321(28) - Programming With C (Lab)	NON-EQUIVALENT	
8	317322(17) - Biochemistry (Lab)	NON-EQUIVALENT	
9	317323(28) - Network Analysis (Lab)	NON-EQUIVALENT	
10	317324(17) - Anatomy & Physiology (Lab)	NON-EQUIVALENT	
11	300325(46) - Value Education	NON-EQUIVALENT	



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Semester : IV

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	317411(28) - Analog & Digital Electronics	NON-EQUIVALENT	
2	317412(17) - Biomedical Transducers	BM20313(BM) - Bio Medical Transducer and Measurement	III
3	317413(17) - Microbiology	BM20411(BM) - Microbiology	IV
4	317414(17) - Bio Signals & System	NON-EQUIVALENT	
5	317415(17) - Biomechanics	BM20315(BM) - Bio Mechanics	III
6	317416(14) - Numerical Techniques	NON-EQUIVALENT	
7	317421(28) - Analog & Digital Electronics (Lab)	NON-EQUIVALENT	
8	317422(17) - Biomedical Transducer (Lab)	NON-EQUIVALENT	
9	317423(17) - Microbiology (Lab)	NON-EQUIVALENT	
10	317424(17) - Bio Signals & Systems (Lab)	NON-EQUIVALENT	
11	300425(46) - Health, Hygiene & Yoga	NON-EQUIVALENT	



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Semester : V

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	317511 (17) - Basic Clinical Science-II	BM20514BM - Basic Clinical Science-1	V
2	317512(28) - Microprocessor	BM20512BM - Microprocessor	V
3	317514 (17) - Bio Medical Equipments	BM20511BM - Biomedical Equipments	V
4	317515(36) - Management Science	BM20612BM - Management Science	VI
5	317516 (17) - Biological Control System	BM20513BM - Biological Control Systems	V
6	317521 (28) - Microprocessor Lab	NON-EQUIVALENT	
7	317524 (17) - Biological Control System Lab	NON-EQUIVALENT	
8	317526 (17) - Practical Training Evaluation* and Library	NON-EQUIVALENT	
9	300525(46) - Personality Development	NON-EQUIVALENT	
10	317513 (17) - Biomedical Instrumentation	BM20415(BM) - Biomedical Instrumentation	IV
11	317522 (17) - Biomedical Instrumentation Lab	NON-EQUIVALENT	
12	317523 (17) - Bio Medical Equipments Lab	NON-EQUIVALENT	



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Semester : VI

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	317611(28) - ANALOG COMMUNICATION TECHNIQUES	NON-EQUIVALENT	
2	317612(17) - TELEMEDICINE	BM20613BM - Telemedicine	VI
3	317613(17) - CELLULAR BIO ELECTRICITY	BM20615BM - Bioelectricity	VI
4	317614(17) - MEDICAL IMAGE PROCESSING	NON-EQUIVALENT	
5	317631(17) - ELECTIVE-I (BASIC CLINICAL SCIENCE-II)	BM20614BM - Basic Clinical Science - 2	VI
6	300625(36) - MANAGERIAL SKILLS	NON-EQUIVALENT	
7	317621(28) - ANALOG COMMUNICATION TECHNIQUES LAB	NON-EQUIVALENT	
8	317622(17) - MEDICAL IMAGE PROCESSING LAB	NON-EQUIVALENT	
9	317624(17) - TELE MEDICINE LAB	NON-EQUIVALENT	
10	317615(28) - MICRO ELECTRONICS & INTEGRATED CIRCUIT	BM20516BM - Microelectronics and Integrated Circuits	V
11	317623(28) - MICRO ELECTRONICS & INTEGRATED CIRCUIT LAB	NON-EQUIVALENT	
12	317632(28) - Elective-I (DIGITAL SIGNAL PROCESSING)	NON-EQUIVALENT	
13	317633(18) - Elective-I (INSTRUMENTATION & ANALYTICAL TECHNIQUES)	NON-EQUIVALENT	



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Semester : VII

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	317711 (28) - Microcontroller Based Medical Instruments	BM20712BM - Microcontroller	VII
2	317713 (28) - Digital Communication System	NON-EQUIVALENT	
3	317714 (17) - Hospital Management	IT20713BM - Database Management system	VII
4	317731(17) - Prof. Elective-II (Artificial Intelligence)	BM20731BM - Artificial Intelligence & Neural Network	VII
5	317712 (17) - Bio Informatics	BM20616BM - Bioinformatics	VI
6	300725(36) - Innovative and Entrepreneurial Skills	NON-EQUIVALENT	
7	317721(17) - Bio Informatics Lab	NON-EQUIVALENT	
8	317722 (28) - Digital Communication System Lab	NON-EQUIVALENT	
9	317723 (17) - Microcontroller Based Medical Instruments Lab	NON-EQUIVALENT	
10	317724 (17) - Minor Project	NON-EQUIVALENT	
11	317726 (17) - Practical Training Evaluation and Library	NON-EQUIVALENT	
12	317732(17) - Prof. Elective-II (Rehabilitation Engineering)	NON-EQUIVALENT	
13	317733(18) - Prof. Elective-II (Drug Delivery System)	NON-EQUIVALENT	



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Semester : VIII

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	317812(17) - Artificial Organs	BM20831BM - Artificial Organs	VIII
2	317813(17) - Fiber Optics in Medicine	BM20811BM - Optical Fiber and Laser in Medicine	VIII
3	317836(17) - Prof. Elective III (Nuclear Medicine)	BM20812BM - Nuclear Medicine	VIII
4	300888(36) - Open Elective IV(Nanotechnology)	NON-EQUIVALENT	
5	300825(17) - Report Writing & Seminar	NON-EQUIVALENT	
6	317821(17) - Bio Material Lab	NON-EQUIVALENT	
7	317822(17) - Artificial Organs Lab	NON-EQUIVALENT	
8	317823(17) - Fiber Optics in Medicine Lab	NON-EQUIVALENT	
9	317824(17) - Major Project	NON-EQUIVALENT	
10	317811(17) - Bio Material	BM20711BM - Biomaterials	VII
11	317831(17) - Prof. Elective-III (Bio Mems)	NON-EQUIVALENT	
12	317833(17) - Prof. Elective-III (Modeling & Physiological System)	NON-EQUIVALENT	
13	317834(17) - Prof. Elective-III (Robotics and Automation)	NON-EQUIVALENT	
14	317835(17) - Prof. Elec.-III (Electro Magn. Inter. and Comp.Tech.)	NON-EQUIVALENT	