



National Institute of Technology Raipur

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

B.Tech. Equivalence Courses List

Branch : MECHANICAL ENGINEERING

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

Semester : I

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	300211(37) - Engineering Graphics	0020211(ME) - Engineering Graphics	I
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	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	300116(37) - Engineering Mechanics	0020116(AM) - Engineering Mechanics	II
2	300214(14) - Applied Maths-II	0020214(MA) - Applied Maths-II	II
3	300112(11) - Applied Chemistry	0020112(CH) - Applied Chemistry	II
4	300113(15) - Applied Physics-I	0020113(PH) - Applied Physics	II
5	300111(46) - Language (Professional Communication In English)	NON-EQUIVALENT	
6	300115(24) - Basic Electrical Engineering	0020115(EL) - Basic Electrical Engineering	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	337312(37) - Numerical Analysis & Computer Prog. (C & C++)	ME20312(ME) - Numerical Techniques	III
2	300311(14) - Mathematics-III	MA20311(ME) - Mathematics - III	III
3	300325(46) - Value Education	NON-EQUIVALENT	
4	320316(28) - Electronics & Instrumentation	NON-EQUIVALENT	
5	337313(37) - Material Science	ME20313(ME) - Material Science	III
6	337314(37) - Mechanics of Solids-I	ME20314(ME) - Mechanics of Solids - I	III
7	337315(37) - Fluid Mechanics	ME20412(ME) - Fluid Mechanics	IV
8	337321(37) - Numerical Analysis & Computer Prog.(C & C++) (Lab)	NON-EQUIVALENT	
9	337322(37) - Materials Testing (Lab)	NON-EQUIVALENT	
10	337323(37) - Fluid Mechanics (Lab)	NON-EQUIVALENT	
11	337324(37) - Manufacturing Practice (Lab)	NON-EQUIVALENT	



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Semester : IV

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	337411(37) - Computer Graphics	ME0501 - COMPUTER GRAPHICS	V
2	337412(37) - Mechanics of Solids - II	ME20413(ME) - Mechanics of Solids - II	IV
3	337413(37) - Applied Thermodynamics	ME20315(ME) - Applied Thermodynamics	III
4	337414(37) - Kinematics of Machines	ME20416(ME) - Kinematics of Machines	IV
5	337415(37) - Mechanical Measurements & Metrology	ME20414(ME) - Measurement & Control	IV
6	337416(37) - Manufacturing Science - I	ME20415(ME) - Manufacturing Science - I	IV
7	337421(37) - Computer Graphics (Lab)	NON-EQUIVALENT	
8	337422(37) - Thermodynamics (Lab)	NON-EQUIVALENT	
9	337423(37) - Kinematics of Machines (Lab)	NON-EQUIVALENT	
10	337424(37) - Mechanical Measurements & Metrology (Lab)	NON-EQUIVALENT	
11	300425(46) - Health, Hygiene & Yoga	NON-EQUIVALENT	



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Semester : V

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	337511 (37) - Machine Design - I	ME0506 - MACHINE DESIGN-I	V
2	337512 (37) - Internal Combustion Engines	ME20411(ME) - Internal Combustion Engine	IV
3	337513 (37) - Dynamics of Machines	ME0601 - Dynamics of Machines	VI
4	337514 (37) - Fluid Machinery	ME0503 - FLUID MACHINERY	V
5	337515 (37) - Manufacturing Science - II	ME0504 - MANUFACTURING SCIENCE -II	V
6	337516 (37) - Industrial Management	ME0604 - Industrial Management	VI
7	337521 (37) - Machine Design - I Lab	NON-EQUIVALENT	
8	337522 (37) - Internal Combustion Engines Lab	NON-EQUIVALENT	
9	337523 (37) - Dynamics of Machines Lab	NON-EQUIVALENT	
10	337524(37) - Fluid Machinery Lab	NON-EQUIVALENT	
11	337526 (37) - * Practical Training Evaluation and Library	NON-EQUIVALENT	
12	300525(46) - Personality Development	NON-EQUIVALENT	



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Semester : VI

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	337611(37) - MACHINE DESIGN-II	ME 0802 - Machine Design - II	VIII
2	337612(37) - TURBO MACHINERY	ME0602 - Turbo Machinery	VI
3	337613(37) - ENERGY CONVERSION SYSTEMS	ME0603 - Energy Conversion System	VI
4	337614(37) - MACHINE TOOL TECHNOLOGY	NON-EQUIVALENT	
5	337615(37) - INDUSTRIAL ENGINEERING	ME0505 - INDUSTRIAL ENGINEERING	V
6	337635(37) - PROF. ELECTIVE - I (POWER PLANT ENGINEERING)	ME20733ME - Power Plant Engineering	VII
7	337638(37) - Prof.Elective-I (Theory of Elasticity & Plasticity)	NON-EQUIVALENT	
8	337621(37) - MACHINE DESIGN-II LAB	NON-EQUIVALENT	
9	337622(37) - ENERGY CONVERSION SYSTEMS LAB	NON-EQUIVALENT	
10	337623(37) - INDUSTRIAL ENGINEERING LAB	NON-EQUIVALENT	
11	337624(37) - COMPUTER AIDED DESIGN LAB	NON-EQUIVALENT	
12	337631(37) - Prof. Elective-I (FLUIDICS & HYDRAULIC CONTROL)	NON-EQUIVALENT	
13	337632(37) - Prof. Elective-I (AUTOMATIC CONTROL)	NON-EQUIVALENT	
14	337633(37) - Prof. Elective-I (ENGINEERING ECONOMICS)	NON-EQUIVALENT	
15	337634(37) - Prof. Elective-I (COMPOSITE MATERIALS)	NON-EQUIVALENT	
16	337636(37) - Prof. Elective-I (MAINTENANCE AND RELIABILITY)	NON-EQUIVALENT	
17	337637(37) - Prof. Elective-I (TRIBOLOGY)	NON-EQUIVALENT	
18	300625(36) - MANAGERIAL SKILLS	NON-EQUIVALENT	



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Semester : VII

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	337711(37) - Automobile Engg.	ME0605 - Automobile Engineering	VI
2	337712(37) - Heat & Mass Transfer	ME 0701 - Heat and Mass Transfer	VII
3	337713(37) - Computer Aided Design and Manufacturing	ME 0801 - Computer Aided Design & Manufacturing	VIII
4	337714(37) - Operations Research	ME 0702 - Operation Research	VII
5	337753(37) - Prof. Elective-II (Finite Element Method)	ME0502 - FINITE ELEMENT METHOD	V
6	337721(37) - Automobile Engg. Lab	NON-EQUIVALENT	
7	337722(37) - Heat & Mass Transfer Lab	NON-EQUIVALENT	
8	337723(37) - Computer Aided Design and Manufacturing Lab	NON-EQUIVALENT	
9	337724(37) - Minor Project	NON-EQUIVALENT	
10	300725(36) - Innovative and Entrepreneurial Skills	NON-EQUIVALENT	
11	337726(37) - * Practical Training Evaluation / Library	NON-EQUIVALENT	
12	337751(37) - Prof. Elective-II (Quality Control & Total Quality Manag.)	NON-EQUIVALENT	
13	337752(37) - Prof. Elective-II (Reliability Based Design)	NON-EQUIVALENT	
14	337754(37) - Prof. Elective-II (Product Development)	NON-EQUIVALENT	
15	337755(37) - Prof. Elective-II (Numerical Control of Machine Tools)	NON-EQUIVALENT	
16	337756(37) - Prof. Elective-II (Nuclear Power Engineering)	NON-EQUIVALENT	



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Semester : VIII

SrNo	CSVТУ COURSES	NIT COURSES	Semester
1	337811(37) - Robotics	ME0606 5 - Robotics	VI
2	337812(37) - Refrigeration & Air Conditioning	ME 0703 - Refrigeration & Air Conditioning	VII
3	337813(37) - Production Management	ME 0803 - Production Management	VIII
4	337876(37) - Prof. Elective-III (Enviromental Pollution & Control)	ME0606-1 - Air pollution control	VI
5	337821(37) - Robotics Lab	NON-EQUIVALENT	
6	337822(37) - Refrigeration & Air Conditioning Lab	NON-EQUIVALENT	
7	337823(37) - Production Management Lab	NON-EQUIVALENT	
8	337824(37) - Major Project	NON-EQUIVALENT	
9	300825(37) - Report Writing & Seminar	NON-EQUIVALENT	
10	337871(37) - Prof. Elective-III (Mechatronics)	NON-EQUIVALENT	
11	337872(37) - Prof. Elective-III (Vibration Noise Control)	NON-EQUIVALENT	
12	337873(37) - Prof. Elective-III (Optimization Techniques)	NON-EQUIVALENT	
13	337874(37) - Prof. Elective-III (Energy Management and Audit)	NON-EQUIVALENT	
14	337875(37) - Prof. Elective-III (Cryogenic Engineering)	NON-EQUIVALENT	
15	337881(37) - Open Elective-IV(Non Conventional Sources of Energy)	NON-EQUIVALENT	