



# National Institute of Technology Raipur

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

## **B.Tech. Equivalence Courses List**

**Branch : ELECTRONICS & TELECOMMUNICATION ENGG**

**CSVТУ Scheme : ELECTRONICS & TELECOMMUNICATION ENGG - 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    | 300113(15) - Applied Physics-I                                | 0020113(PH) - Applied Physics              | I        |
| 4    | 300111(46) - Language (Professional Communication In English) | NON-EQUIVALENT                             |          |
| 5    | 300115(24) - Basic Electrical Engineering                     | 0020115(EL) - Basic Electrical Engineering | I        |
| 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    | 328311(14) - Mathematics-III                      | NON-EQUIVALENT                               |          |
| 2    | 328312(14) - Numerical Analysis                   | NON-EQUIVALENT                               |          |
| 3    | 328313(28) - Basic Electronics                    | ET20316(ET) - Devices and Circuits - I       | III      |
| 4    | 328314(28) - Network Analysis and Synthesis       | ET20315(ET) - Network Analysis and Synthesis | III      |
| 5    | 328315(28) - Solid State Devices and Components   | NON-EQUIVALENT                               |          |
| 6    | 328316(28) - Programming with C                   | NON-EQUIVALENT                               |          |
| 7    | 328321(28) - Network Analysis and Synthesis (Lab) | NON-EQUIVALENT                               |          |
| 8    | 328322(28) - Basic Electronics (Lab)              | ET20322(ET) - Devices and Circuits - I (Lab) | III      |
| 9    | 328323(28) - Programming With C (Lab)             | NON-EQUIVALENT                               |          |
| 10   | 328324(28) - Electronics Workshop                 | NON-EQUIVALENT                               |          |
| 11   | 300325(46) - Value Education                      | NON-EQUIVALENT                               |          |



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**Semester : IV**

| SrNo | CSVТУ COURSES                                       | NIT COURSES                                 | Semester |
|------|-----------------------------------------------------|---------------------------------------------|----------|
| 1    | 300425(46) - Health, Hygiene & Yoga                 | NON-EQUIVALENT                              |          |
| 2    | 328411(14) - Mathematics - IV                       | NON-EQUIVALENT                              |          |
| 3    | 328412(24) - Electrical Machines                    | NON-EQUIVALENT                              |          |
| 4    | 328413(28) - Analog Electronic Circuits             | EC20415(EC) - Devices and Circuits - II     | IV       |
| 5    | 328414(28) - Digital Electronic Circuits            | ET20313(ET) - Digital Logic Design          | III      |
| 6    | 328415(28) - Signals & Systems                      | ET20312(ET) - Signals and Systems           | III      |
| 7    | 328416(28) - Industrial Transducers & Sensors       | NON-EQUIVALENT                              |          |
| 8    | 328421(28) - Analog Electronic Circuits (Lab)       | EC20422(EC) - Devices and Circuits - II Lab | IV       |
| 9    | 328423(28) - Programming Lab (C++ Language)         | NON-EQUIVALENT                              |          |
| 10   | 328424(28) - Industrial Transducers & Sensors (Lab) | NON-EQUIVALENT                              |          |
| 11   | 328422(28) - Digital Electronic Circuits (Lab)      | ET20323(ET) - Digital Logic Design (Lab)    | III      |



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**Semester : V**

| SrNo | CSVТУ COURSES                                               | NIT COURSES                                       | Semester |
|------|-------------------------------------------------------------|---------------------------------------------------|----------|
| 1    | 300525(46) - Personality Development                        | NON-EQUIVALENT                                    |          |
| 2    | 328511 (28) - Linear Integrated Circuits & Applications     | EC501 - Analog Integrated Circuit and Application | V        |
| 3    | 328512 (28) - Industrial Instrumentation                    | NON-EQUIVALENT                                    |          |
| 4    | 328513 (28) - Electromagnetics Waves & Antennas             | EC20414(EC) - Electromagnetic waves and antennas  | IV       |
| 5    | 328514 (28) - Communication System - I                      | EC20412(EC) - Analog Communication                | IV       |
| 6    | 328515(28) - Microprocessor & Interfaces                    | NON-EQUIVALENT                                    |          |
| 7    | 328516 (28) - Automatic Control System                      | EC502 - Automatic Control System                  | V        |
| 8    | 328521 (28) - Linear Integrated Circuits & Applications Lab | EC592 - Analog Integrated Circuit Lab             | V        |
| 9    | 328522 (28) - Communication System - I Lab                  | EC20421(EC) - Analog Communication Lab            | IV       |
| 10   | 328523 (28) - Microprocessor & Interfaces Lab               | EC20423(EC) - Microprocessors (8085/86) Lab       | IV       |
| 11   | 328524 (28) - Simulation Lab                                | NON-EQUIVALENT                                    |          |
| 12   | 328526 (28) - *Practical Training Evaluation and Library    | NON-EQUIVALENT                                    |          |



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**Semester : VI**

| SrNo | CSVТУ COURSES                                                             | NIT COURSES                                 | Semester |
|------|---------------------------------------------------------------------------|---------------------------------------------|----------|
| 1    | 300625(36) - MANAGERIAL SKILLS                                            | NON-EQUIVALENT                              |          |
| 2    | 328611(28) - COMMUNICATION HARDWARE DESIGN                                | NON-EQUIVALENT                              |          |
| 3    | 328612(28) - ADVANCED ELECTRONIC CIRCUITS                                 | NON-EQUIVALENT                              |          |
| 4    | 328613(28) - ADVANCED MICROPROCESSOR & INTERFACING                        | NON-EQUIVALENT                              |          |
| 5    | 328614(28) - DIGITAL SIGNAL PROCESSING                                    | NON-EQUIVALENT                              |          |
| 6    | 328615(28) - COMMUNICATION SYSTEM -II                                     | NON-EQUIVALENT                              |          |
| 7    | 328621(28) - ADVANCED ELECTRONIC CIRCUIT LAB                              | NON-EQUIVALENT                              |          |
| 8    | 328622(28) - ADVANCED MICROPROCESSOR & INTERFACING LAB                    | NON-EQUIVALENT                              |          |
| 9    | 328623(28) - DIGITAL SIGNAL PROCESSING LAB                                | NON-EQUIVALENT                              |          |
| 10   | 328624(28) - COMMUNICATION SYSTEM -II LAB                                 | NON-EQUIVALENT                              |          |
| 11   | 328632(28) - PROF. ELECTIVE – I (COMPUTER NETWORK)                        | ET20611 - Data Communication and Networking | VI       |
| 12   | 328633(28) - Prof. Elective-I (Medical Electronics)                       | NON-EQUIVALENT                              |          |
| 13   | 328634(28) - Prof. Elective-I (INDUSTRIAL POWER ELECTRONICS)              | NON-EQUIVALENT                              |          |
| 14   | 328635(28) - Prof. Elective-I (ACTIVE NETWORK SYNTHESIS)                  | NON-EQUIVALENT                              |          |
| 15   | 328636(28) - Prof. Elective-I (COMPUTER ORGANISATION & ARCHITECTURE)      | NON-EQUIVALENT                              |          |
| 16   | 328637(28) - Prof. Elective-I (ADVANCED SEMICONDUCTOR DEVICES)            | NON-EQUIVALENT                              |          |
| 17   | 328638(28) - Prof. Elective-I(Probability Random Variable & Stoc Process) | NON-EQUIVALENT                              |          |



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**Semester : VI**

| SrNo | CSVТУ COURSES                                                          | NIT COURSES    | Semester |
|------|------------------------------------------------------------------------|----------------|----------|
| 18   | 328631(28) - Prof. Elective-I (TELECOM. SWITCHING CIRCUITS & NETWORKS) | NON-EQUIVALENT |          |



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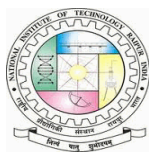
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**Semester : VII**

| SrNo | CSVТУ COURSES                                                             | NIT COURSES                                 | Semester |
|------|---------------------------------------------------------------------------|---------------------------------------------|----------|
| 1    | 300725(36) - Innovative and Entrepreneurial Skills                        | NON-EQUIVALENT                              |          |
| 2    | 328711(28) - Mobile & Cellular Communication                              | NON-EQUIVALENT                              |          |
| 3    | 328712(28) - Microwave Radar Engineering                                  | ET20615 - Microwave and Radar Engineering   | VI       |
| 4    | 328713(28) - Microcontroller & Embedded System                            | NON-EQUIVALENT                              |          |
| 5    | 328714(28) - Satellite Communication                                      | NON-EQUIVALENT                              |          |
| 6    | 328721(28) - Advanced Signal Processing Laboratory                        | NON-EQUIVALENT                              |          |
| 7    | 328722(28) - Microwave Engg. & Radar Lab                                  | ET20623 - Microwave and RF Lab              | VI       |
| 8    | 328723(28) - Microcontroller & Embedded System Lab                        | NON-EQUIVALENT                              |          |
| 9    | 328724(28) - Minor Project                                                | NON-EQUIVALENT                              |          |
| 10   | 328726(28) - **Practical Training Evaluation and Library                  | NON-EQUIVALENT                              |          |
| 11   | 328751(28) - Prof. Elective-II (Electronic Instrumentation & Automation)  | NON-EQUIVALENT                              |          |
| 12   | 328753(28) - Prof. Elective-II (Consumer Electronics)                     | NON-EQUIVALENT                              |          |
| 13   | 328754(28) - Prof. Elective-II (Neural Network & Fuzzy Logic)             | NON-EQUIVALENT                              |          |
| 14   | 328755(28) - Prof. Elective-II (Advanced Solid State Devices)             | NON-EQUIVALENT                              |          |
| 15   | 328756(28) - Prof. Elective-II (Speech Signal Processing)                 | NON-EQUIVALENT                              |          |
| 16   | 328757(28) - Prof. Elective-II (Artificial Intelligence & Expert Systems) | NON-EQUIVALENT                              |          |
| 17   | 328752(28) - Prof. Elective-II (Cryptography & Secure Communication)      | ET20737 - Cryptography and network security | VII      |



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**Semester : VIII**

| SrNo | CSVТУ COURSES                                                              | NIT COURSES                             | Semester |
|------|----------------------------------------------------------------------------|-----------------------------------------|----------|
| 1    | 300825(28) - Report Writing & Seminar                                      | NON-EQUIVALENT                          |          |
| 2    | 328811(28) - Optical Communication                                         | NON-EQUIVALENT                          |          |
| 3    | 328812(28) - VLSI Design                                                   | NON-EQUIVALENT                          |          |
| 4    | 328813(28) - Information Theory & Coding                                   | ET20711 - Information Theory and Coding | VII      |
| 5    | 328821(28) - Optical Communication Lab                                     | NON-EQUIVALENT                          |          |
| 6    | 328822(28) - VLSI Design Lab                                               | NON-EQUIVALENT                          |          |
| 7    | 328823(28) - System Simulation & Design Lab                                | NON-EQUIVALENT                          |          |
| 8    | 328824(28) - Major Project                                                 | NON-EQUIVALENT                          |          |
| 9    | 328871(28) - Prof. Elective-III (Video Transmission & Reception)           | NON-EQUIVALENT                          |          |
| 10   | 328872(28) - Prof. Elective-III (Radar Engineering & Navigational Aids)    | NON-EQUIVALENT                          |          |
| 11   | 328873(28) - Prof. Elective-III (Industrial & Power Electronics)           | NON-EQUIVALENT                          |          |
| 12   | 328874(28) - Prof. Elective-III (DSP Processors & Applications)            | NON-EQUIVALENT                          |          |
| 13   | 328875(28) - Prof. Elective-III (Micro-Electro. Devices & VLSI Technology) | NON-EQUIVALENT                          |          |
| 14   | 328876(28) - Prof. Elective-III (Industrial Automation)                    | NON-EQUIVALENT                          |          |
| 15   | 328877(28) - Prof. Elective-III (Digital Image Processing)                 | ET20733 - Digital Image Processing      | VII      |
| 16   | 328878(28) - Prof. Elective-III (EMD System Theory)                        | NON-EQUIVALENT                          |          |
| 17   | 328881(28) - Open Elective-IV (Ad. Digital Communication)                  | NON-EQUIVALENT                          |          |
| 18   | 328882(28) - Open Elective-IV ( Real Time Embedded Systems )               | NON-EQUIVALENT                          |          |