

GUJARAT TECHNOLOGICAL UNIVERSITY
Electronics & Telecommunication Engineering (12)
BE 1st To 8th Semester Exam Scheme & Subject Code

EVALUATION SCHEME

| University Exam (Theory) (E) | | University Exam (Practical) (E) | | Continuous Evaluation Process(M) | | Practical (I) | |
|------------------------------|-----|---------------------------------|----------|----------------------------------|-----|---------------|----------|
| MAX | MIN | MAX | MIN | MAX | MIN | MAX | MIN |
| 70 | 23 | X | 50% of X | 20 | 8 | 10 | 4 |
| | | | | 30 | 12 | X | 50% of X |

NOTE :

X = Marks of the Particular Subject.

Continuous Evaluation(M) 20/8 and Practical (I) 10/4 scheme apply up to April 2009

Continuous Evaluation(M) 30/12 and Practical X/ 50% of X scheme apply from April 2009 onward.

University Exam (Practical) (E) Component is applicable only in 7th & 8th Semester.

1st Year

| Subject Code | Subject Name | Teaching Scheme(Hours) | | | Credits | University Exam (Theory) (E) | University Exam (Practical) (E) | Continuous Evaluation Process (M) | Practical (I) | Total Marks | Branch Code |
|---------------------|--|------------------------|----------|-----------|---------|------------------------------|---------------------------------|-----------------------------------|---------------|-------------|-------------|
| | | Theory | Tutorial | Practical | | | | | | | |
| 110001 | Chemistry | 3 | 0 | 2 | 5 | 70 | — | 30 | 50 | 150 | 12 |
| 110002 | Communication Skills | 1 | 0 | 2 | 3 | 70 | — | 30 | 50 | 150 | 12 |
| 110003 | Computer Programming & Utilization (Revised) | 2 | 0 | 4 | 6 | 70 | — | 30 | 50 | 150 | 12 |
| 110004 | Elements of Civil Engineering (Revised) | 4 | 0 | 2 | 6 | 70 | — | 30 | 50 | 150 | 12 |
| 110005 | Elements of Electrical Engineering | 4 | 0 | 2 | 6 | 70 | — | 30 | 50 | 150 | 12 |
| 110006 | Elements of Mechanical Engineering | 4 | 0 | 2 | 6 | 70 | — | 30 | 50 | 150 | 12 |
| 110007 | Environmental Studies | 3 | 0 | 0 | 3 | 70 | — | 30 | 50 | 150 | 12 |
| 110008 OR 110014 | Maths-I (entry year 2008-10 having backlog)OR Calculus (entry year 2011-12) | 3 | 2 | 0 | 5 | 70 | — | 30 | 50 | 150 | 12 |

| | | | | | | | | | | | |
|---------------------|---|-----------|----------|-----------|-----------|----|---|----|-----|-----|----|
| 110009 OR 110015 | Maths-II (entry year 2008-10 having backlog) OR Vector Calculus and Linear Algebra (entry year 2011-12) | 3 | 2 | 0 | 5 | 70 | — | 30 | 50 | 150 | 12 |
| 110010 | Mechanics of Solids (Revised) | 3 | 0 | 2 | 5 | 70 | — | 30 | 50 | 150 | 12 |
| 110011 | Physics | 3 | 0 | 2 | 5 | 70 | — | 30 | 50 | 150 | 12 |
| 110012 | Workshop | 0 | 0 | 4 | 4 | 0 | — | 0 | 100 | 100 | 12 |
| 110013 | Engineering Graphics | 2 | 0 | 4 | 6 | 70 | — | 30 | 50 | 150 | 12 |
| | TOTAL | 35 | 4 | 26 | 65 | | | | | | |

Semester III

| Subject Code | Subject Name | Teaching Scheme(Hours) | | | Credits | University Exam (Theory) (E) | University Exam (Practical) (E) | Continuous Evaluation Process (M) | Practical (I) | Total Marks | Branch Code |
|-------------------|---|------------------------|----------|-----------|-----------|---------------------------------------|--|--|------------------|----------------|----------------|
| | | Theory | Tutorial | Practical | | | | | | | |
| 130001/ 130002 | Mathematics-3 / Advanced Engineering Mathematics (New) | 3 | 2 | 0 | 5 | 70 | — | 30 | 50 | 150 | 12 |
| 131101 | Basic Electronics | 4 | 0 | 2 | 6 | 70 | — | 30 | 50 | 150 | 12 |
| 130901 | Circuits and Networks | 4 | 0 | 2 | 6 | 70 | — | 30 | 50 | 150 | 12 |
| 130701 | Digital Logic Design | 4 | 0 | 2 | 6 | 70 | — | 30 | 50 | 150 | 12 |
| 131701 | Electrical Machines | 3 | 0 | 0 | 3 | 70 | — | 30 | 50 | 150 | 12 |
| 131201 | Simulation and Design Tools | 0 | 0 | 2 | 2 | 0 | — | 0 | 100 | 100 | 12 |
| 131202 | Electronics Workshop | 0 | 0 | 2 | 2 | 0 | — | 0 | 100 | 100 | 12 |
| | TOTAL | 18 | 2 | 10 | 30 | | | | | | |

Semester IV

| Subject Code | Subject Name | Teaching Scheme(Hours) | | | Credits | University Exam (Theory) (E) | University Exam (Practical) (E) | Continuous Evaluation Process (M) | Practical (I) | Total Marks | Branch Code |
|--------------|---|------------------------|----------|-----------|-----------|---------------------------------------|--|--|------------------|----------------|----------------|
| | | Theory | Tutorial | Practical | | | | | | | |
| 140001 | Mathematics-4 | 3 | 2 | 0 | 5 | 70 | — | 30 | 50 | 150 | 12 |
| 140002 | Management-1 | 2 | 0 | 0 | 2 | 70 | — | 30 | 50 | 150 | 12 |
| 140701 | Microprocessor And Interfacing | 3 | 0 | 2 | 5 | 70 | — | 30 | 50 | 150 | 12 |
| 141101 | Advance Electronics | 4 | 0 | 2 | 6 | 70 | — | 30 | 50 | 150 | 12 |
| 141102 | Institute Elective-1(Communication Engineering) | 4 | 0 | 2 | 6 | 70 | — | 30 | 50 | 150 | 12 |
| 141701 | Control Theory | 4 | 0 | 2 | 6 | 70 | — | 30 | 50 | 150 | 12 |
| | TOTAL | 20 | 2 | 8 | 30 | | | | | | |

Semester-V

| Subject Code | Subject Name | Teaching Scheme(Hours) | | | Credits | University Exam (Theory) (E) | University Exam (Practical) (E) | Continuous Evaluation Process (M) | Practical (I) | Total Marks | Branch Code |
|--------------|---|------------------------|----------|-----------|-----------|------------------------------|---------------------------------|-----------------------------------|---------------|-------------|-------------|
| | | Theory | Tutorial | Practical | | | | | | | |
| 150001 | Management - II | 2 | 0 | 0 | 2 | 70 | — | 30 | 50 | 150 | 12 |
| 151001 | Microcontroller and Interfacing | 3 | 0 | 2 | 5 | 70 | — | 30 | 50 | 150 | 12 |
| 151002 | Engineering Electromagnetics | 3 | 0 | 0 | 3 | 70 | — | 30 | 50 | 150 | 12 |
| 151003 | Integrated Circuits and Applications | 4 | 0 | 2 | 6 | 70 | — | 30 | 50 | 150 | 12 |
| 151004 | Electronic Communication | 4 | 0 | 2 | 6 | 70 | — | 30 | 50 | 150 | 12 |
| 151005 | Electronics Measurements and Instrumentation Laboratory | 0 | 0 | 2 | 2 | 0 | — | 0 | 100 | 100 | 12 |
| 151006 | Applied Electronics (Institute Elective - II) | 4 | 0 | 2 | 6 | 70 | — | 30 | 50 | 150 | 12 |
| TOTAL | | 20 | 0 | 10 | 30 | | | | | | |

Semester VI

| Subject Code | Subject Name | Teaching Scheme(Hours) | | | Credits | University Exam (Theory) (E) | University Exam (Practical) (E) | Continuous Evaluation Process (M) | Practical (I) | Total Marks | Branch Code |
|--------------|----------------------------|------------------------|----------|-----------|-----------|------------------------------|---------------------------------|-----------------------------------|---------------|-------------|-------------|
| | | Theory | Tutorial | Practical | | | | | | | |
| 161001 | Digital Communication | 4 | 0 | 2 | 6 | 70 | — | 30 | 50 | 150 | 12 |
| 161002 | Audio - Video Systems | 4 | 0 | 2 | 6 | 70 | — | 30 | 50 | 150 | 12 |
| 161003 | Antenna & Wave Propagation | 4 | 0 | 2 | 6 | 70 | — | 30 | 50 | 150 | 12 |
| 161004 | VLSI Technology and Design | 4 | 0 | 2 | 6 | 70 | — | 30 | 50 | 150 | 12 |
| 161005 | Optical Communication | 4 | 0 | 2 | 6 | 70 | — | 30 | 50 | 150 | 12 |
| TOTAL | | 20 | 0 | 10 | 30 | | | | | | |

Semester VII

| Subject Code | Subject Name | Teaching Scheme(Hours) | | | Credits | University Exam (Theory) (E) | University Exam (Practical) (E) | Continuous Evaluation Process (M) | Practical (I) | Total Marks | Branch Code |
|--------------|--|------------------------|----------|-----------|-----------|------------------------------|---------------------------------|-----------------------------------|---------------|-------------|-------------|
| | | Theory | Tutorial | Practical | | | | | | | |
| 171001 | Microwave Engineering | 3 | 0 | 2 | 5 | 70 | 30 | 30 | 20 | 150 | 12 |
| 171002 | Power Electronics | 2 | 0 | 2 | 4 | 70 | 30 | 30 | 20 | 150 | 12 |
| 171003 | Digital Signal Processing | 4 | 0 | 2 | 6 | 70 | 30 | 30 | 20 | 150 | 12 |
| 171004 | Wireless Communication | 4 | 0 | 2 | 6 | 70 | 30 | 30 | 20 | 150 | 12 |
| 171005 | Embedded Systems (Department Elective - I) | 3 | 0 | 2 | 5 | 70 | 30 | 30 | 20 | 150 | 12 |
| 171006 | Biomedical Instrumentation (Department Elective - I) | 3 | 0 | 2 | 5 | 70 | 30 | 30 | 20 | 150 | 12 |
| 171007 | Satellite Communication (Department Elective - I) | 3 | 0 | 2 | 5 | 70 | 30 | 30 | 20 | 150 | 12 |
| 170001 | Project - I | 0 | 0 | 4 | 4 | 0 | 100 | 0 | 50 | 150 | 12 |
| | TOTAL | 16 | 0 | 14 | 30 | | | | | | |

Semester VIII

| Subject Code | Subject Name | Teaching Scheme(Hours) | | | Credits | University Exam (Theory) (E) | University Exam (Practical) (E) | Continuous Evaluation Process (M) | Practical (I) | Total Marks | Branch Code |
|--------------|--|------------------------|----------|-----------|-----------|------------------------------|---------------------------------|-----------------------------------|---------------|-------------|-------------|
| | | Theory | Tutorial | Practical | | | | | | | |
| 181201 | Telecommunication Transmission and Switching | 4 | 0 | 2 | 6 | 70 | 30 | 30 | 20 | 150 | 12 |
| 181104 | Advanced Microprocessors (Department Elective - II) | 4 | 0 | 2 | 6 | 70 | 30 | 30 | 20 | 150 | 12 |
| 181103 | Radar & Navigational Aids (Department Elective - II) | 4 | 0 | 2 | 6 | 70 | 30 | 30 | 20 | 150 | 12 |
| 181101 | Data Communication and Networking (Department Elective - II) | 4 | 0 | 2 | 6 | 70 | 30 | 30 | 20 | 150 | 12 |
| 181205 | Project II | 0 | 0 | 18 | 18 | 0 | 200 | 0 | 50 | 250 | 12 |
| | TOTAL | 8 | 0 | 22 | 30 | | | | | | |