

| L J Institute of Engineering and Technology, Ahmedabad | | | | | | | | | | | |
|---|---|------------------------|----------|--|---------------|-------------------|---|-------------------------|-----------|-------------|---|
| Theory Test (T1,T2,T3,T4) Details_SEM-III_2024_COMPUTER ENGINEERING/INFORMATION TECHNOLOGY STUDENTS | | | | | | | | | | | |
| Subject Code | Subject | Test | Syllabus | | | Marks Weightage | | | | Total Marks | Total Duration Max. 1.5 Hr Min. 1 Hr |
| | | | Unit No | Unit Title | % of Syllabus | MCQ | Theory Descriptive | Formulas and Derivation | Numerical | | |
| 017013391(CE) 017023391(IT) 017033391(CSD) 017043391(AIML) 017053391(AIDS) 017063391(RAI) 017123391(CSE) 017133391(CST) 017143391(CSIT) 017153391(CEA) | Digital Electronics | T1 | 1 | Introduction to Digital Systems | 7.0% | 15 | 0 | 0 | 10 | 25 | 1.00 |
| | | | 2 | Binary Operations and Binary Codes | 10.0% | | | | | | |
| | | | 3 | Boolean Algebra and Boolean Functions | 6.0% | | | | | | |
| | | T1 Test Syllabus: | | | 23% | T1 Test Marks: 25 | | | | | |
| | | T2 | 4 | Boolean Function Minimizations | 14.0% | 5 | 0 | 0 | 20 | 25 | 1.25 |
| | | | 5 | Combinational Logic Circuits-I | 10.0% | | | | | | |
| | | | | | | | | | | | |
| | | T2 Test Syllabus: | | | 24.0% | T2 Test Marks: 25 | | | | | |
| | | T3 | 6 | Combinational Logic Circuits-II | 13.0% | 10 | 0 | 0 | 15 | 25 | 1.00 |
| | | | 7 | Sequential Logic Circuits – I | 13.0% | | | | | | |
| | | | | | | | | | | | |
| | | T3 Test Syllabus: | | | 26% | T3 Test Marks: 25 | | | | | |
| | | T4 | 8 | Sequential Logic Circuits – II | 12.0% | 5 | 5 | 0 | 15 | 25 | 1.00 |
| | | | 9 | Programmable Logic Device | 10.0% | | | | | | |
| 10 | Digital Logic Families | | 5.0% | | | | | | | | |
| T4 Test Syllabus: | | | 27.0% | T4 Test Marks: 25 | | | | | | | |
| Total T1 to T4 Tests : | | | 100% | 35 | 5 | 0 | 60 | 100 | | | |
| Subject Code | Subject | Test | Syllabus | | | Marks Weightage | | | | Total Marks | Total Duration Max. 1.5 Hr Min. 1 Hr |
| | | | Unit No | Unit Title | % of Syllabus | MCQ | Theory Descriptive (Mainly Programming) | Formulas and Derivation | Numerical | | |
| 017013392(CE) 017023392(IT) 017033392(CSD) 017043392(AIML) 017053392(AIDS) 017063392(RAI) 017123392(CSE) 017133392(CST) 017143392(CSIT) 017153392(CEA) | Full Stack Development -I | T1 | 1 | Introduction to Web and Web design | 5% | 10 | 15 | 0 | 0 | 25 | 1.25 |
| | | | 2 | Introduction to HTML | 10% | | | | | | |
| | | | 3 | Advance HTML | 10% | | | | | | |
| | | T1 Test Syllabus: | | | 25% | T1 Test Marks: 25 | | | | | |
| | | T2 | 4 | Introduction to CSS | 10% | 10 | 15 | 0 | 0 | 25 | 1.25 |
| | | | 5 | Advance CSS | 10% | | | | | | |
| | | | | | | | | | | | |
| | | T2 Test Syllabus: | | | 20.0% | T2 Test Marks: 25 | | | | | |
| | | T3 | 6 | Introduction to Bootstrap | 10% | 10 | 15 | 0 | 0 | 25 | 1.25 |
| | | | 7 | Bootstrap5 | 15% | | | | | | |
| | | | | | | | | | | | |
| | | T3 Test Syllabus: | | | 25% | T3 Test Marks: 25 | | | | | |
| | | T4 | 8 | Javascript | 10% | 10 | 15 | 0 | 0 | 25 | 1.25 |
| | | | 9 | Advance Javascript | 10% | | | | | | |
| 10 | Ecmascript Version 6 | | 10% | | | | | | | | |
| T4 Test Syllabus: | | | 30.0% | T4 Test Marks: 25 | | | | | | | |
| Total T1 to T4 Tests : | | | 100% | 40 | 60 | 0 | 0 | 100 | | | |
| Subject Code | Subject | Test | Syllabus | | | Marks Weightage | | | | Total Marks | Total Duration Max. 1.5 Hr Min. 1 Hr |
| | | | Unit No | Unit Title | % of Syllabus | MCQ | Theory Descriptive | Formulas and Derivation | Numerical | | |
| 017011391(CE) 017021391(IT) 017031391(CSD) 017041391(AIML) 017051391(AIDS) 017061391(RAI) 017121391(CSE) 017131391(CST) 017141391(CSIT) 017151391(CEA) | Introduction to Probability Theory and Stochastic Processes | T1 | 1 | Basic Probability | 11.0% | 10 | 0 | 0 | 15 | 25 | 1.25 |
| | | | 2 | Random Variables | 9.0% | | | | | | |
| | | | | | | | | | | | |
| | | T1 Test Syllabus: | | | 20% | T1 Test Marks: 25 | | | | | |
| | | T2 | 3 | Basic Statistics | 10.0% | 5 | 0 | 0 | 20 | 25 | 1.50 |
| | | | 4 | Correlation and Regression | 10.0% | | | | | | |
| | | | 5 | Binomial and Poisson Distributions | 10.0% | | | | | | |
| | | T2 Test Syllabus: | | | 30.0% | T2 Test Marks: 25 | | | | | |
| | | T3 | 6 | Normal and Exponential Distributions | 9.0% | 5 | 0 | 0 | 20 | 25 | 1.25 |
| | | | 7 | Applied Statistics: Testing of Hypothesis for Large Samples | 11.0% | | | | | | |
| | | | | | | | | | | | |
| | | T3 Test Syllabus: | | | 20% | T3 Test Marks: 25 | | | | | |
| | | T4 | 8 | Applied Statistics: Testing of Hypothesis for Small Samples | 10.0% | 5 | 0 | 0 | 20 | 25 | 1.25 |
| | | | 9 | Curve fitting by the Numerical Method | 11.0% | | | | | | |
| 10 | Introduction to Stochastic Processes | | 9.0% | | | | | | | | |
| T4 Test Syllabus: | | | 30.0% | T4 Test Marks: 25 | | | | | | | |
| Total T1 to T4 Tests : | | | 100% | 25 | 0 | 0 | 75 | 100 | | | |
| Subject Code | Subject | Test | Syllabus | | | Marks Weightage | | | | Total Marks | Total Duration Max. 2.25 Hr |
| | | | Unit No | Unit Title | % of Syllabus | MCQ | Theory Descriptive (Mainly Programming) | Formulas and Derivation | Numerical | | |
| 017012391(CE) 017022391(IT) 017032391(CSD) 017042391(AIML) 017052391(AIDS) 017062391(RAI) 017122391(CSE) 017132391(CST) 017142391(CSIT) 017152391(CEA) | Fundamentals of Computer Science using Python - I | T1 | 1 | Introduction to Python and Jupyter Notebooks | 5% | 10 | 15 | 0 | 0 | 25 | 2.25 |
| | | | 2 | Conditional Execution and Iterations | 15% | | | | | | |
| | | | 3 | Functions, Scoping and Abstraction | 5% | | | | | | |
| | | T1 Test Syllabus: | | | 25% | T1 Test Marks: 25 | | | | | |
| | | T2 | 4 | Immutable Data Structures | 10% | 10 | 15 | 0 | 0 | 25 | 2.25 |
| | | | 5 | Mutable Data Structures | 15% | | | | | | |
| | | | | | | | | | | | |
| | | T2 Test Syllabus: | | | 25.0% | T2 Test Marks: 25 | | | | | |
| | | T3 | 6 | Working with Files | 10% | 10 | 15 | 0 | 0 | 25 | 2.25 |
| | | | 7 | Modules, Directories | 5% | | | | | | |
| | | | 8 | Introduction to Object Oriented Programming and Exception Handling | 8% | | | | | | |
| | | T3 Test Syllabus: | | | 23% | T3 Test Marks: 25 | | | | | |
| | | T4 | 9 | Advanced OOP Concepts and Introduction to NumPy | 17% | 10 | 15 | 0 | 0 | 25 | 2.25 |
| | | | 10 | Introduction to Matplotlib | 10% | | | | | | |
| | | | | | | | | | | | |
| | | T4 Test Syllabus: | | | 27.0% | T4 Test Marks: 25 | | | | | |
| | | Total T1 to T4 Tests : | | | 100% | 40 | 60 | 0 | 0 | 100 | |

| Subject Code | Subject | Test | Syllabus | | | Marks Weightage | | | | Total Marks | Total Duration Max. 1.5 Hr Min. 1 Hr |
|---|-----------------------------------|-------------------|----------|--|---------------|--------------------|--------------------|-------------------------|-----------|-------------|--|
| | | | Unit No | Unit Title | % of Syllabus | MCQ | Theory Descriptive | Formulas and Derivation | Numerical | | |
| 017017391(CE) 017027391(IT) 017037391(CSD) 017047391(AIML) 017057391(AIDS) 017067391(RAI) 017127391(CSE) 017137391(CST) 017147391(CSIT) 017157391(CEA) | Effective Technical Communication | T1 | 1 | Dynamics of Communication | 10.0% | 15 | 10 | 0 | 0 | 25 | 1 |
| | | | 2 | Verbal and Non-verbal communication | 10.0% | | | | | | |
| | | | 3 | Interpersonal and Intercultural communication | 6.0% | | | | | | |
| | | T1 Test Syllabus: | | | 26.0% | T1 Test Marks: 25 | | | | | |
| | | T2 | 4 | Listening skills | 8.0% | 18 | 7 | 0 | 0 | 25 | 1 |
| | | | 5 | Technical communication-I | 8.0% | | | | | | |
| | | | 6 | Technical communication-II | 10.0% | | | | | | |
| | | T2 Test Syllabus: | | | 26.0% | T2 Test Marks: 25 | | | | | |
| | | T3 | 7 | Presentation strategies | 12.0% | 12 | 13 | 0 | 0 | 25 | 1 |
| | | | 8 | Business letters | 12.0% | | | | | | |
| | | | | | | | | | | | |
| | | T3 Test Syllabus: | | | 24.0% | T3 Test Marks: 25 | | | | | |
| | | T4 | 9 | Technical writing | 12.0% | 5 | 20 | 0 | 0 | 25 | 1 |
| | | | 10 | Business etiquettes | 12.0% | | | | | | |
| | | | | | | | | | | | |
| T4 Test Syllabus: | | | 24.0% | T4 Test Marks: 25 | | | | | | | |
| Total T1 to T4 Tests : | | | 100% | 50 | 50 | 0 | 0 | 100 | | | |
| Subject Code | Subject | Test | Syllabus | | | Marks Weightage | | | | Total Marks | Total Duration Max. 1.5 Hr Min. 1 Hr |
| | | | Unit No | Unit Title | % of Syllabus | MCQ | Theory Descriptive | Formulas and Derivation | Numerical | | |
| 017018391(CE) 017028391(IT) 017038391(CSD) 017048391(AIML) 017058391(AIDS) 017068391(RAI) 017128391(CSE) 017138391(CST) 017148391(CSIT) 017158391(CEA) | Constitution of India | T4 | 1 | Meaning of the constitution law and constitutionalism, History of Indian Constitution | 10.0% | 100 | 0 | 0 | 0 | 100 | 1.5 |
| | | | 2 | Salient features and characteristics of the Constitution of India | 10.0% | | | | | | |
| | | | 3 | Fundamental rights, Fundamental Duties and its legal status | 15.0% | | | | | | |
| | | | 4 | Right to Equality, Right to certain Freedom | 10.0% | | | | | | |
| | | | 5 | The Directive Principles of State Policy – Its importance and implementation | 10.0% | | | | | | |
| | | | 6 | Powers and Procedure for Amendments in Indian Constitution, History of amendments in Indian Constitutional | 5.0% | | | | | | |
| | | | 7 | Federal structure and distribution of legislative and financial powers between the Union and the States | 10.0% | | | | | | |
| | | | 8 | Parliamentary Form of Government in India – The constitution powers and status of the President of India | 10.0% | | | | | | |
| | | | 9 | Emergency Provisions : National Emergency, President Rule, Financial Emergency | 15.0% | | | | | | |
| | | | 10 | Local Self Government – Constitutional Scheme in India | 5.0% | | | | | | |
| | | T4 Test Syllabus: | | | 100.0% | T4 Test Marks: 100 | | | | | |
| | | Total T4 Tests : | | | 100.0% | 100 | 0 | 0 | 0 | 100 | |