



# KN UNIVERSITY

SR.No.115,199,311,201-202,Smt. K. N. Patel International School, Near KNPIS Circle,  
Vodafone Tower Lane, Gota, Ahmedabad, Gujarat

## Ph.D Entrance Exam Syllabus

### Computer Science & Applications Syllabus

❖ **KN University, Ph.D Entrance Test 2026-27 shall be of 100 marks and 3 hours duration. The format of the Entrance Test Paper shall be as follows:**

#### Section-1

- **25 marks** (50 objective type questions covering general knowledge, mathematics, reasoning, analytical skill/mental ability, communication skill and research methodology (**1/2 mark for each question**)).

#### Section-2

- **25 marks** (50 objective type multiple choice questions related to respective subject – (**1/2 mark for each question**)).
1. **Computer:** Fundamentals of computers, Open Office, Web Technology, Data Structure, Searching and Sorting, Database Management, Operating system, embedded system.
  2. **Programming Language:** PHP, Python, concepts of C and C++, Object Oriented Programming Concepts, Static and Dynamic memory allocation, Structure & Union, Pointer and Array
  3. **Computer Network:** Fundamental of Networking, Hardware and Software requirements. Functions of different parts like connectors, cables, Router, Switch etc. used in networking
  4. **Current Trends and Technology:** Cloud Computing, Cloud Security, Data Science & Analytics, IOT, Cyber security, Blockchain and Robotics

#### Section-3

- **50 marks** (10 descriptive type questions related to research methodology – (**Five marks for each question**)).



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## Ph.D Entrance Exam Syllabus

### Commerce Syllabus

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#### Section-1

- **25 marks** (50 objective type questions covering general knowledge, mathematics, reasoning, analytical skill/mental ability, communication skill and research methodology (**1/2 mark for each question**)).

#### Section-2

- ❖ **25 marks** (50 objective type multiple choice questions related to respective subject – (**1/2 mark for each question**)).

#### Accounting

- **Financial Accounting:** Basic Accounting Concept, Principles of Accounting and Accounting standard, Accounting Cycle, Capital and Revenue, Advanced Company Accounts.
- **Cost Accounting:** Basic Concept, Costing Methods and techniques, Classification of costs, Costing records.
- **Management Accounting:** Financial statement Analysis, Ratio Analysis, Budget and Budgetary Control, Marginal costing and Break Even analysis, Fund flow cash flow analysis, Standard costing.
- **Emerging Trends in Accounting:** Inflation accounting, Human Resource Accounting, Environmental Accounting, Forensic Accounting, Responsibility Accounting.
- **Corporate Taxes and Planning:** Basics framework of direct taxation, tax planning, company taxation, set-off and carry forward of losses, deductions under section 80. Tax planning with reference to amalgamations and mergers. Procedure for assessment, deduction of TDS, advance payment of tax, refunds, appeals, and revision.

## **Business Economics**

- Nature and scope of managerial economics; macroeconomics and its interface with business and industry; national income; monetary system; fiscal policy; economic growth and development; Demand And Supply Analysis.

## **Business Management**

- **Principles of Management**, Planning Process, Staffing, Organizing, Organizational Culture and Structure, Leadership and Control, Decision Making, Business Ethics and Corporate Governance
- **Financial Management**: Nature, scope and objectives of financial management. Cost of capital, capital budgeting, capital structure (including leverages), capital structure and value of the firm, capital structure theories, working capital management, dividend policy and valuation of the firm. International financial management(concepts only).
- **Marketing Management**: Concepts of Marketing, Evolution of Marketing, Marketing Environment, Marketing Mix, Marketing Planning, Pricing, Distribution and Promotion, Product decision.
- **Human Resource Management**: Role and Functions of HRM, Succession Planning, Recruitment and Selection, Training and Development, Performance Appraisal, Industrial Relations, HR Planning, Compensation.

## **Banking and Financial Institutions**

- **Banking**:Importance of Banking to Business, Types of Banks, E Banking, Development Banking, Banking Sector Reforms in India, Reserve Bank of India, NABARD and Rural Banking.
- **Insurance**: introduction, Definition. nature, role and importance Types of insurance- Life and Non-life insurance; Risk classification and management; Factors limiting the insurability of risk & IRDA and its role
- **Financial markets**: Money market; Capital market; Government securities market  
Financial Institutions: Development Finance Institutions (DFIs); Non-Banking Financial Companies (NBFCs); Mutual Funds; Pension Funds  
Financial Regulators in India

## **Organisational Behavior**

- The concept and significance of Organisational Behaviour - Skills and Roles in an organisation, Understanding and Managing individual behaviour personality Perception - Values - Attitudes - Learning - Motivation. Understanding and Managing Group Behaviour, Processes - Inter - personal and group dynamics - Communication - Leadership - Managing change - Managing conflicts, Organisational Development.

## **International Business**

- Importance, Nature and Scope; Globalisation, Business Environment: Political, Legal, Economic and Cultural Environment and associated risks; Framework for analysing international business environment. WTO and Developing countries, WTO and India, Theoretical Foundations of international business. Balance of Payments; International liquidity, international Economic institutions: IMF, World Bank IFC, IDA, EXIM Bank, Policy of India, Regulation and promotion of Foreign Trade. Foreign Direct investment and Multinational Corporation, joint Ventures.

### **Section-3**

- **50 marks (10 descriptive type questions related to research methodology – (Five marks for each question).**



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## Ph.D Entrance Exam Syllabus

### Humanities (English) Syllabus

- ❖ **KN University, Ph.D Entrance Test 2026-27 shall be of 100 marks and 3 hours duration. The format of the Entrance Test Paper shall be as follows:**

#### Section-1

- ❖ **25 marks** (50 objective type questions covering general knowledge, mathematics, reasoning, analytical skill/mental ability, communication skill and research methodology (1/2 mark for each question)).

#### Section-2

- **25 marks** (50 objective type multiple choice questions related to respective subject (1/2 mark for each question)).
1. **History of English Literature** : The age of Chaucer, Age of Elizabeth, Age of Milton, Age of Dryden, Age of Pope, Age of Transition, Victorian age, Mid Twentieth century
  2. **Literary theory and criticism** : Marxism, Postmodernism, Psychoanalytic Criticism, formalism Structuralism, Deconstruction, Feminism, Postcolonial Criticism ,Cultural Studies and New Historicism
  3. **Indian writing in English** : History, Post colonial literature, Women writings

#### Section-3

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## Ph.D Entrance Exam Syllabus

### Humanities (Psychology) Syllabus

- ❖ **KN University, Ph.D Entrance Test 2026-27 shall be of 100 marks and 3 hours duration. The format of the Entrance Test Paper shall be as follows:**

#### Section-1

- ❖ **25 marks** (50 objective type questions covering general knowledge, mathematics, reasoning, analytical skill/mental ability, communication skill and research methodology (1/2 mark for each question)).

#### Section-2

- **25 marks** (50 objective type multiple choice questions related to respective subject (1/2 mark for each question)).

1. **Introduction to Psychology:** Meaning, Nature, History, Scope and Goals of Psychology; Major Schools and Perspectives of Psychology; Psychology as a Science and Behavioural Science.
2. **Research Methodology:** Meaning and Types of Research; Scientific Method; Research Process; Research Problem; Objectives; Hypothesis; Variables; Concepts and Operational Definitions; Research Design; Statistics.
3. **Psychological Testing:** Meaning and Nature of Psychological Tests; Types of Tests; Test Construction; Standardization; Reliability; Validity; Norms; Item Analysis.
4. **Cognitive Psychology:** Attention; Perception; Learning; Memory; Thinking; Problem Solving; Decision Making; Language; Intelligence.
5. **Biological Psychology:** Biological Foundations of Behaviour; Nervous System; Brain and Behaviour; Endocrine System; Neurotransmitters; Genetic and Biological Influences on Behaviour.
6. **Developmental Psychology:** Physical, Cognitive, Emotional and Social Development; Major Theories of Development; Piaget; Erikson; Freud; Kohlberg; Individual Differences in Development.
7. **Social Psychology:** Social Cognition; Attitudes; Attribution; Social Influence; Conformity; Obedience; Group Processes; Prejudice and Discrimination; Interpersonal Relationships.
8. **Personality Psychology:** Psychoanalytic Approach; Neo-Psychoanalytic Approaches; Trait Approach; Behavioural Approach; Social-Cognitive Approach; Humanistic Approach; Personality Assessment.
9. **Abnormal Psychology:** Concept of Abnormal Behaviour; Classification and Assessment; Anxiety Disorders; Mood Disorders; Psychotic Disorders; Personality Disorders; Neurodevelopmental Disorders.
10. **Clinical Psychology:** Nature and Scope of Clinical Psychology; Clinical Assessment; Interview; Case History; Psychological Assessment; Psychotherapy and Major Therapeutic Approaches.
11. **Counselling Psychology:** Meaning and Goals of Counselling; Counselling Process; Counselling Skills; Major Approaches; Ethics in Counselling; Applications of Counselling.

12. **Positive Psychology:** Meaning and Development of Positive Psychology; Positive Emotions; Happiness; Well-being; PERMA Model; Character Strengths and Virtues; Resilience; Meaning and Purpose.
13. **Industrial and Organizational Psychology:** Work Motivation; Job Satisfaction; Leadership; Organizational Behaviour; Employee Selection; Training and Development; Performance Appraisal; Work Stress.
14. **Contemporary Areas of Psychology:** Forensic Psychology; Community Psychology; Environmental Psychology; Cross-Cultural Psychology; Neuropsychology; Positive Psychology; Applied Psychology.
15. **Research Ethics and Academic Writing:** Research Ethics; Informed Consent; Confidentiality; Plagiarism; Academic Integrity; Publication Ethics; APA Style; Citation and Referencing; Research Report Writing.

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## Ph.D Entrance Exam Syllabus

### Engineering (Computer Science & Engineering) Syllabus

- ❖ KN University, Ph.D Entrance Test 2026-27 shall be of 100 marks and 3 hours duration. The format of the Entrance Test Paper shall be as follows:

#### Section-1

- ❖ **25 marks** (50 objective type questions covering general knowledge, mathematics, reasoning, analytical skill/mental ability, communication skill and research methodology (**1/2 mark for each question**)).

#### Section-2

- **25 marks** (50 objective type multiple choice questions related to respective subject (**1/2 mark for each question**)).
- 1. **Data Structures and Algorithms:** Complexity, Big-O, Trees, Graphs, Sorting, Searching, Dynamic Programming, Greedy, Backtracking, P/NP
- 2. **Artificial Intelligence (AI):** Search, Heuristics, Knowledge Representation, Planning, NLP, Fuzzy Logic, Genetic Algorithms, Neural Networks.
- 3. **Database Management Systems:** ER Model, Relational Algebra, SQL, Normalization, Transactions, Concurrency, Data Mining, Big Data, NoSQL
- 4. **Operating System:** Processes, Threads, Scheduling, Deadlocks, Memory Management, File Systems, Security
- 5. **Computer Networks:** OSI/TCP-IP, IP Addressing, Routing, TCP/UDP, Network Security, Cloud & IoT
- 6. **Discrete Structures and Optimization:** Logic, Sets, Relations, Probability, Graph Theory, Boolean Algebra, Optimization
- 7. **Software Engineering:** SDLC, Agile, Requirements, Design, Testing, Quality, COCOMO
- 8. **Programming Languages:** C/C++, OOP, Web Programming, Python
- 9. **Computer Architecture:** Digital Logic, CPU, Memory, I/O, Pipelining, Cache, Multiprocessors

#### Section-3

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## Ph.D Entrance Exam Syllabus

### Engineering (Information Technology) Syllabus

- ❖ **KN University, Ph.D Entrance Test 2026-27 shall be of 100 marks and 3 hours duration. The format of the Entrance Test Paper shall be as follows:**

#### Section-1

- ❖ **25 marks** (50 objective type questions covering general knowledge, mathematics, reasoning, analytical skill/mental ability, communication skill and research methodology (1/2 mark for each question)).

#### Section-2

- **25 marks** (50 objective type multiple choice questions related to respective subject (1/2 mark for each question)).

1. **Operating System:** Processes, Threads, Scheduling, Deadlocks, Memory Management, File Systems, Security
2. **Data Communication & Networks:** OSI/TCP-IP, IP Addressing, Routing, TCP/UDP, Network Security, Cloud & IoT
3. **Database Management Systems:** ER Model, Relational Algebra, SQL, Normalization, Transactions, Concurrency, Data Mining, NoSQL
4. **Programming Languages:** C/C++, OOP, Web Programming, Python
5. **Software Engineering:** SDLC, Design, Testing, Quality, COCOMO
6. **Data Structures and Algorithms:** Complexity, Big-O, Trees, Graphs, Sorting, Searching, Dynamic Programming, Greedy, Backtracking, P/NP
7. **Artificial Intelligence (AI):** Search, Heuristics, Knowledge Representation, Planning, NLP, Fuzzy Logic, Genetic Algorithms, Neural Networks.
8. **Discrete Structures and Optimization:** Logic, Sets, Relations, Probability, Graph Theory, Boolean Algebra, Optimization
9. **Computer Architecture:** Digital Logic, CPU, Memory, I/O, Pipelining, Cache, Multiprocessors

#### Section-3

- **50 marks** (10 descriptive type questions related to research methodology – (Five marks for each question)).



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## Ph.D Entrance Exam Syllabus

### Pharmacy Syllabus

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#### Section-1

- ❖ **25 marks** (50 objective type questions covering general knowledge, mathematics, reasoning, analytical skill/mental ability, communication skill and research methodology (**1/2 mark for each question**)).

#### Section-2

- **25 marks** (50 objective type multiple choice questions related to respective subject (**1/2 mark for each question**)).

- 1. Microbiology :**Vaccines & Sera, Sterilization & Disinfection, Microbial Spoilage
- 2. Pharmaceutics :**Emulsions, Tablets, NDDS, Dosage Forms, Suspensions
- 3. Pharmaceutical Jurisprudence:**Code of Ethics, Drugs & Cosmetics Act, Indian Patent Act, NDPS Act
- 4. Biochemistry:**Enzymes, Vitamins, Lipids, Nucleic Acids, Carbohydrates
- 5. Organic Chemistry:**General Principles, Aromatic Compounds, Carbohydrates, Heterocyclic Chemistry
- 6. Clinical Pharmacy:**Drug Interactions, TDM, Pediatric & Geriatric Therapy
- 7. Pharmacognosy:**Herbal Drugs, Phytoconstituents, Herbal Formulations, Quality Control
- 8. Pharmacology:**General Pharmacology, CVS Drugs, Immunopharmacology, Chemotherapy
- 9. Physical Chemistry:**Solutions, Electrochemistry, Thermodynamics, Ionic Equilibrium
- 10. Pharmaceutical Analysis:**Chromatography, Spectroscopy, Acid–Base Titrations
- 11. Pathophysiology:**Infectious Diseases, Neoplastic Diseases, Homeostasis Disorders
- 12. Biopharmaceutics & Pharmacokinetics:**Bioavailability, Bioequivalence, Biostatistics
- 13. Pharmaceutical Chemistry:**Medicinal Chemistry, Inorganic Chemistry, Isotopes

#### Section-3

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## Ph.D Entrance Exam Syllabus

### Management Syllabus

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#### Section-1

- ❖ **25 marks** (50 objective type questions covering general knowledge, mathematics, reasoning, analytical skill/mental ability, communication skill and research methodology (1/2 mark for each question)).

#### Section-2

- **25 marks** (50 objective type multiple choice questions related to respective subject (1/2 mark for each question)).

#### ***1. Contemporary issues and Trends in Management***

- Fundamentals of Management Concepts: Concepts, Functions & Levels of Management, Management skills, Managerial Roles; Social Responsibility of Management; Management thoughts: Classical approaches and Neo-classical approaches.
- Understanding of Organizational Behaviour: Meaning of OB, Perception, Attitude, Motivation, Group Behaviour, Leadership, Organizational Culture.
- Strategic dimensions of Management Practices: Introduction to Strategic Management, Environmental appraisal and industry analysis, Strategic formulation & choice of alternatives, Strategy implementation, evaluation and control, Issues of sustainable development.
- Entrepreneurial Skills: Overview of Entrepreneurship, Entrepreneur's Role and Personality, Issue of Entrepreneurial Opportunity, Women entrepreneurship, Financing options for New Ventures, Role of Entrepreneurial Ecosystem.

#### ***2. Functional Management***

- Financial Management: Nature, scope and objectives of financial management. Cost of capital, capital budgeting, capital structure (including leverages), capital structure and value of the firm, capital structure theories, working capital management, dividend policy and valuation of the firm. International financial management (concepts only).
- Marketing Management: Concepts of Marketing, Evolution of Marketing, Marketing Environment, Marketing Mix, Marketing Planning, Pricing, Distribution and Promotion, Product decision.
- Human Resource Management: Role and Functions of HRM, Succession Planning, Recruitment and Selection, Training and Development, Performance Appraisal, Industrial Relations, HR Planning, Compensation.

### ***3.International Business***

- Importance, Nature and Scope; Globalisation, Business Environment: Political, Legal, Economic and Cultural Environment and associated risks; Framework for analysing international business environment. WTO and Developing countries, WTO and india, Theoretical Foundations of international business. Balance of Payments; International liquidity, international Economic institutions: IMF, World Bank IFC, IDA, EXIM Bank, Policy of India, Regulation and promotion of Foreign Trade. Foreign Direct investment and Multinational Corporation, joint Ventures.

### **Section-3**

- **50 marks (10 descriptive type questions related to research methodology – (Five marks for each question).**