

School of Forensic Science & School of Medicolegal Studies

Program	Syllabus of Entrance Exam	Topics to be included (mention atleast 5 to 6 topics) as per the components mentioned in column C)	Weightage
M.Sc. Forensic Science M.Sc Forensic Biotechnology M.Sc Forensic Toxicology	Physics	Electrostatics, Wave Optics, Heat and Thermodynamics, Motion and laws of Motion, Gravitation, Linear Momentum, Oscillatory motion, Measurement and Energy	25
	Chemistry	Solid States, Solutions, Electrochemistry, Chemical Kinetics, Surface Chemistry, P,D,F, Block elements, Coordination Compounds, Haloalkanes, Haloallerenes, Basics, Polymers, Alcohol, Phenol, Ether, Aldehyde, ketone, Carboxylic Acids, Organic Compounds containing Nitrogen	25
	Biology	<ol style="list-style-type: none"> 1. Evolution and its mechanisms 2. Biomolecules-structure and functions, Prokaryotic and eukaryotic cell structure, cell cycle Cell signalling and signal transduction 3. Biochemical Principles: pH, Buffers, bioenergetics, glycolysis, oxidative phosphorylation, coupled reaction, group transfer, biological energy transducers, Enzymology, Metabolism of carbohydrates, lipids, amino acids nucleotides and vitamins. 4. Mendelian inheritance, Nucleic acid structure and functions, replication, transcription, translation and their regulatory mechanisms in prokaryotes and eukaryotes 5. Immunology: Innate, humoral and cell mediated immunity; Antigen; Antibody structure and function, Application of immunological principles, vaccines, diagnostics. 6. Applied Biology: Recombinant DNA Technologies: Restriction and modification enzymes; Vectors; plasmid, cDNA and genomic DNA library, Polymerase chain reaction, Transgenic animals and plants, molecular approaches to diagnosis and strain identification 7. Ecology and its principles: Environment, Ecosystem Ecology Conservation Biology, pollutions 8. Principles and applications of basic Techniques: Microscopy, Centrifugation, Electrophoresis, chromatography 	25
	Basics of Forensic Science	Crime, Basics of Crime Scene management, Evidences :its collection and Preservation, Laws in Forensic science, Criminology, Various branches of Forensic Science	25

M.Sc. Multimedia Forensics	Physics	physics of sound generation, simple harmonic motion, waves and oscillation, optics, semiconductors	25
	Chemistry	basic concepts of chemistry, thermodynamics	5
	Basic of Forensic Science	basic concepts of forensic science, crime scene management, audio, video and image forensics	25
	Computer Science	fundamentals of computer network, operating systems, embedded systems, computer science applications	10
	Electronics	circuit theory and networks, transducers, sensors, computer organization and structure	25
	IT and Logical reasoning	Computer Fundamentals and Emerging Technology, Deductive Reasoning	10
M.A Mass Communication and Journalism (with specialization in Forensic Journalism)	General Knowledge	-	20
	Information and Communication Technology (ICT) & Communication	IT Act, OTT Rules,	20
	Journalism	Nature, Scope and Definition, Role and Responsibility	15
	General Trend of Mass Communication	Types of Models and Theories	15
	Print, Electronic and Digital Media	Types of Media, News Agencies, Photo Agencies, Fact Check Units	15
	Media Laws etc	Article-19, PRB Act, RNI, Press Council of India	15
B.Sc. - M.Sc. Forensic Science	Physics	Electromagnetics & Electromagnetics Induction, Wave and Optics, Fundamental of Nuclear & Atomic Physics, Semiconductor Electronics, Thermodynamics, Kinematics and Mechanics, Magnetostatics, Electrostatics Field and Potential, Elements of Modern Physics	20
	Chemistry	Basic concepts of Chemistry, Structure of Atom, Classification of Elements & Periodicity, Chemical bonding, & Molecular Structures, General Principles and Process of Isolation Elements, Solutions, Chemical Thermodynamics, Chemical Kinetics, Solid State, Equilibrium, Redox Chemistry, s,p,d,f block elements, Hydrocarbons, Basic Principles of Organic Chemistry, Polymers and Chemistry in everyday life.	20
	Biology	Diversity of Living Organisms, Structural Organization in Plants & Animals, Cell Biology & Biomolecules, Human Physiology, Genetics & Evolution, Microbiology, Biotechnology, Ecology & Environment	20

	Mathematics	Sets & Functions, Algebra, Coordinate Geometry, Calculus, Statistics & Probability, Vectors & 3 D Geometry	10
	Reasoning	Verbal & Non Verbal Reasoning,	5
	English Grammar	Basic Grammer, Figures of Speech, Verbs, Tenses, Direct & Indirect Speech, Voice, Models, Subject Verb Concord, Determininals , Forms of Sentences	10
	General Knowledge	Current Affairs of National & International Importance, Invention & Discoveries, Science & Technology	10
	Basics of Computer Science.	Computer and its applications, Components of Computer System, Central Processing Unit, Input & Output Devices, Computer Memory, Concepts of Hardware & Software, Concepts of Computing, Data & Information, Number System & Conversion, Basics of Computer Networks, Concept of Internet and its applications, World Wide Web, Web Browsing Softwares, Search Engines, Understanding URL, Domain Name	5



School of Behavioural Forensics

Program	Syllabus of Entrance Exam	Topics to be included (mention atleast 5 to 6 topics) as per the components mentioned in column C)	Weightage
M.Phil. Clinical Psychology	General Psychology Systems of Psychology	Sensory processes, Perception, Learning, Thinking, Memory, Motivation, Emotion, Stress, Developmental Psychology, Functionalism, Structuralism, Behaviorism	10%
	Personality	Type theories, Trait theories, Psychoanalytic theories, Dynamic Personality theories, Creativity, Humanistic theories, Personality as Self	10%
	Psychopathology	Abnormality and Normality, Classifying Psychological disorders, Disorders of Child and Adolescence, Substance Abuse Disorders, Disorders of Mood and Affect, Personality Disorders, Disorders of Thinking and Speech, Disorders of Language and Memory, Schizophrenia, Anxiety Disorders, Depressive disorders	10%
	Psychotherapy	Psychodynamic approaches, Behavioral approaches, Cognitive Approaches, Mindful approaches	10%
	Social Psychology	Social Perceptions, Social Influences, Social Relationships, Attitudes, Attributions, Group Processes, Leaderships	10%
	Biological Psychology	Brain and Behavior, Neurons and Synapses, Left Hemisphere and Right Hemisphere, Frontal Lobes, Temporal Lobes, Parietal Lobes, Occipital Lobes	10%
	Psychological Measurement	Intelligence, Personality, Psychoanalytic, Objective tests	10%
	Research Methodology	Sample, Designs, Hypothesis, Inclusion and Exclusion Criteria	20%

	Statistics	Parameteric, Non parameteric tests, t test, ANOVA, Correlation,Regression, Chi square, Mann Whitney , Wilcoxon	10%
M.Sc. Clinical Psychology M.Sc. Neuropsychology M.Sc. Forensic Psychology	General psychology	Learning, Memory, Emotion, Motivation, Freud and Jung Personality Theories, Group, Attitude, Depression, Schizophrenia, Perception, Sensation, Nervous System, Action Potentials	50%
	Research Methodology	Level of Measurments, Sampling, Data Collection Methods and Research Designs, Type-I and Type-II Errors, Variables and Hypotheses, Reliability and Validity	25%
	Statistics	Correlation, T-test, Mean , Median, Mode, Standard Deviation, Variance, Quartile Deviation, Skewness, Kurtosis, Normal Probability Curve	25%
M.A Criminology (with specialization in Forensic Psychology)	Criminology	Current affairs, General awareness, communication skills, Police, Prisons, Court systems, Child Protection, Major laws dealing with crimes	40%
	Sociology	General awareness on Social issues, society, gender, social movements,family, government,deviance, religion	20%
	Social Psychology	Social perception, social cognition, sterotyping and discrimination, aggressive behaviour, group behaviour	20%
	Social Work- related areas.	Child rights, juvenile justice,criminal justice social work, social welfare, human rights, access to justice	20%
B.A. - M.A. Criminology	English Language Comprehension	Grammar and comprehension, Proverbs, Synonyms and Antonyms, Substitute with one word, Correction of sentences and words, Spelling check	40%
	Analytical abilities	Logical and Analytical Reasoning, Number Systems, Percentage & Average, Time Speed and Distance, Profit Loss, Areas Mensuration, Venn Diagrams, People Work and Time, Probability, Sets, Missing Numbers & Series, Blood Relations, Statistics Graphs	20%
	General Knowledge	Current affairs of national and international importance, History, Environment, Science and Technology	40%

School of Law, Forensics Justice and Policy System

Program	Syllabus of Entrance Exam	Topics to be included (mention atleast 5 to 6 topics) as per the components mentioned in column C)	Weightage
LL.B. (Hons.)	English Language Comprehension	Grammar and comprehension, Proverbs, Synonyms and Antonyms, Substitute with one word, Correction of sentences and words, Spelling check	25%
	Analytical Abilities	Logical and Analytical Reasoning, Number Systems, Percentage & Average, Time Speed and Distance, Profit Loss, Areas Mensuration, Venn Diagrams, People Work and Time, Probability, Sets, Missing Numbers & Series, Blood Relations, Statistics Graphs	25%
	Legal Awareness & Aptitude	Legal propositions, Legal Maxims, Indian Constitution, Indian Contract Act	25%
	General Knowledge	Current affairs of national and international importance, History, Political Science, Economics and Environment	25%

School of Earth, Space, and Internet Technologies

Program	Syllabus of Entrance Exam	Topics to be included (mention atleast 5 to 6 topics) as per the components mentioned in column C)	Weightage
M. Tech. Robotics and Automation	Computer Science	Computer Fundamentals, Basics of Operating System, Memory Management, Scheduling, Hardware, Software, Boot Process, Storage Media, Number Systems, Binary Operations, Virtual Machines, Filesystems and I/O Operations	25
	Networking	Definitions, Architecture (P2P and Client Server), Topology, OSI Reference Model, TCP/IP Protocol Suite, Sockets and Ports, Internet Technologies, Network Communication Devices, Firewall, IDS and IPS	25
	Robotics & Automation	Definition, Basics of Robotics, Types and Application of Robots, Microcontroller, Microprocessor and Embedded System	10
	Reasoning	Verbal and Non-verbal Reasoning	15
	English Grammar	Parts of Speech, Nouns, Sentence Structure, Types of Sentences, Tenses, Active Voice and Passive Voice and General English Grammar	15
	General Knowledge	-	5
	General Awareness.	-	5
M. Tech. Applied Data Science and Artificial Intelligence	Computer Science	Computer Fundamentals, Basics of Operating System, Memory Management, Scheduling, Hardware, Software, Boot Process, Storage Media, Number Systems, Binary Operations, Virtual Machines, Filesystems and I/O Operations	20
	Programming	Basics of Flow-chart, Algorithms, Programming Concepts (Variables, Constants, Conditional Statements, Loops, Arrays, User Defined Functions, Structures, Data Structure, File Handling, etc.)	20
	Data Science	Definitions, Basics of Data Science, Big Data, Data Visualization	10
	Artificial Intelligence	Basics of Artificial Intelligence, Fundamentals of Machine Learning, Type of ML Methods, Matrices, Statistics for ML	10

	Reasoning	Verbal and Non-verbal Reasoning	15
	English Grammar	Parts of Speech, Nouns, Sentence Structure, Types of Sentences, Tenses, Active Voice and Passive Voice and General English Grammar	15
	General Knowledge	-	5
	General Awareness	-	5



School of Police Science and Security Studies

Program	Syllabus of Entrance Exam	Topics to be included (mention atleast 5 to 6 topics) as per the components mentioned in column C)	Weightage
M.Sc. Homeland Security M.A. Police & Security Studies	General Knowledge	Indian Independence Struggle Major Events in Medieval and Modern Indian History Indian Economy Sports India & World Geography : Capitals, Oceans, Straits, Rivers, Monuments	10
	Logical Reasoning	Deductive & Inductive Reasoning Venn Diagram Assertion & Reasoning Cause & Effect, Family Relation, Sitting Sequence, Permutation & Combinations	10
	Mathematical Aptitude	Probability, Set Theory, Algebra, Percentage, Ratio, Profit & Loss, Discount, Interest Calculation, Speed Time Distance, Work time & efficiency	10
	Data Interpretation	Pie Diagram, Bar Diagram, Graph, Line Chart, Tabular Charts	10
	Basics of Computer application	Computer Fundamentals Concepts, Input /Output Devices, Basic Software & Hardware and their Functionalities, History and Future of Computers, Computer Abbreviations & Shortcut Keys, Memory and Storage Device, Internet and its applications, Basic of Computer Networks, IT Act Basics	10
	Overview of National Security	India's Land and Maritime Borders Security Challenges faced by India Border Disputes with neighbouring countries Taliban and the security threat	10
	Indian Security Forces	Indian Armed Forces : History & Structure Special Forces constituted to tackle Left Wing Extremism Major Wars fought by India Non Traditional Security Threats Cyber Warfare and Psychological Warfare	5

	Police Organization & Functioning	CAPF : Role and Responsibilities; Organisation and Structure of Indian Police Services Indian Police Act Indian Penal Code (IPC) Criminal Procedure Act (Cr.PC) Criminal Justice System: Prisons and Judiciary UAPA Act	10
	History of Terrorism & Insurgency in India	Cross Border Terrorism Proxy War Terror Organisations : Indian Mujahideen, PFI, LeT sponsored terror Major Terror Cases : Parliament attack (2001), 26/11 Attacks (2008) Insurgency in J&K, Causes, and Consequences Insurgency in North-East India, Causes and Consequences Left Wing Insurgency in India, Causes and Consequences Origins of NIA	5
	Current affairs	Major Geo-Political Developments in India's Neighbourhood and Global Powers Recent innovations in Technology - Space, IT, Nuclear Recent Infrastructural Developments in India: Highways, Ports, Dam, Bridges etc. Recent Appointments of Public Offices	10
	Governance	Composition of Lok Sabha, Rajya Sabha, and State legislatures Powers & functions of President of India and Prime Minister of India Local Self-Government, Initiatives of E-Governance, Structure and Function of Judiciary at Local, State & Center levels	5
	Disaster Management.	Common Disasters & their characteristics : Floods, Cyclones, Earthquakes National Disaster Management Act, 2005 NDRF : Role and Responsibilities Contemporary Technologies in Disaster Management Relief and Rescue Management Rehabilitation Management Pandemic Management	5

School of Pharmacy & School of Engineering & Technology

Program	Syllabus of Entrance Exam	Topics to be included (mention atleast 5 to 6 topics) as per the components mentioned in column C)	Weightage
M.Pharm Pharmaceutical Quality Assurance (PCI Approved) M.Pharm. Forensic Pharmacy	Entrance test will be based on bachelor level syllabus of Pharmacy	Physical Chemistry, Physical Pharmacy, Organic Chemistry, Pharmaceutical Chemistry, Pharmaceutics, Pharmacology, Pharmacognosy, Pharmaceutical Analysis, Biochemistry, Biotechnology, Microbiology, Biopharmaceutics And Pharmacokinetics, Clinical Pharmacy And Therapeutics, Pharmaceutical Engineering, Pharmaceutical Management, Pharmaceutical Jurisprudence, Dispensing & Hospital Pharmacy.	100
M. Tech. Civil Engineering (Specialization in Forensic Structural Engineering)	Entrance test will be based on bachelor level syllabus of civil engineering	Engineering Mathematics	10
		Engineering Mechanics	10
		Solid Mechanics	10
		Structural Analysis	10
		Concrete Technology	10
		Design of Reinforced Concrete Structures	10
		Design of Steel Structures	10
		Soil Mechanics and Foundation Engineering	10
		Earthquake Engineering	5
		Basics of Fluid Mechanics	5
		Basics of water Resource Engineering	5
Basics of Transportation Engineering	5		

M.Sc.Nanotechnology (Specialization in Forensic Nanotechnology)	Bachelor level syllabus of Chemistry	Solid States, Solutions, Electrochemistry, Chemical Kinetics, Surface Chemistry, P,D Block elements, Coordination Compounds, Haloalkanes, Haloalkenes, Polymers, Noble Gases, Lanthanoids and Actinoids, Chemical Thermodynamics, Solid State and Ionic and Phase Equilibria	20%
	Bachelor level syllabus of Physics	Kinematics, Electrostatics, Wave Optics, Heat and Thermodynamics, Motion and laws of Motion, Gravitation, Linear Momentum, Oscillatory motion, Measurement and Energy, Electromagnetic Waves, Atoms and Nuclei	20%
	Bachelor level syllabus of Life Sciences	Evolution and its mechanisms, Reproduction, Cell Structure and Function, Ecology and its principles, Principles and applications of basic Microscopy Techniques, Centrifugation, Electrophoresis, chromatography, Principles and process of Biotechnology, Genetic engineering, Biochemical Principles, pH, Buffers, bioenergetics, glycolysis, oxidative phosphorylation, Enzymology, Metabolism of carbohydrates, lipids, amino acids nucleotides and vitamins.	20%
	Bachelor level syllabus of Environmental Sciences	Ecology and ecosystems, Atmosphere and global climate change, Biodiversity and conservation, Natural resource management and sustainability, Pollution Prevention and Remediation, Environmental Chemistry, Remote Sensing and Geographical Information Systems	10%
	Bachelor level syllabus of Food Science	Food chemistry, Food Microbiology, Food Processing, Food Quality and Safety	10%
	Bachelor level syllabus of Forensic Sciences	Basic concepts of forensic science, crime scene management, audio, video and image forensics	20%

M.Sc. Food Technology (Specialization in Forensic Food Analysis)	Bachelor level syllabus of Chemistry, Physics, Life Sciences, Environmental Science and Forensic Science.	Molecular and Vibrational spectroscopy, redox reactions, atomic structure and various bondings, ionic interactions, Chemistry of biomolecules, transition metal chemistry, Environmental Pollution, Mechanics, Thermal Physics, Electromagnetism, Waves and Oscillations, Optics, Atomic Physics, Basics of Forensic Sciences	50%
	Bachelor level syllabus of Food Technology	Food Chemistry- Carbohydrates, Proteins, Lipids, Vitamins and Mineral, Nutritional Composition of Food	10%
		Food Microbiology- Microorganisms of Importance, latest trends in Microbiology, fermentation, hurdle technology, preservation and prevention, spoilage of food.	10%
		Food Processing- Processing of Milk and Milk products, poultry, meat and meat products, sea food, cereals and pulses, fruits and vegetables, spices and condiments, bakery and confectionary. Thermal and Non thermal processing.	15%
		Food Quality and Safety- FSMS, TQM, Kaizen, Risk Analysis, Food Laws, ISO, QMS, NABL, General Food safety programs	10%
		Food Regulations- FSSAI, BIS, APEDA, AGMARK, CODEX, EFSA, USFDA,	15%

M.Sc. Chemistry (with specialization in Forensic Analytical Chemistry)	Bachelor level syllabus of Physics, Life Sciences, Environmental Science, Food Science and Forensic Science.	Wave and Optics, Semiconductor, Thermodynamics, Magnetostatics, Electrostatics , Elements of Modern Physics, Crime, Basics of Crime Scene management, Evidences :its collection and Preservation, Laws in Forensic science, Various branches of Forensic Science, (Basics of Biochemistry; Cell; Biology; Microbiology; Molecular Biology.) (Basics of Climate Change; Ecology; Renewable Energy; Remote Sensing; Pollution), (Basics of Food Microbiology; Food Chemistry & Biochemistry; Nutrition; Food Safety and Quality Control)	50%
	Bachelors Level Syllabus of Chemistry	Atomic structure, Periodicity of elements, Chemical bonding, State of Materials, Ionic equilibria, Basics of organic chemistry, Basics of Analytical chemistry, Stereochemistry, Chemistry of hydrocarbons, Chemistry of s and p Block Elements, Noble Gases, Polymers, Alcohols, Phenols, Ethers and Epoxides, Carbonyl Compounds, Carboxylic Acids and their Derivatives, Catalysis, Transition Elements, Lanthanoids and Actinoids.	50%
M.Sc. Pharmaceutical Chemistry	Bachelor level syllabus of Physics, Life Sciences, Environmental Science, Food Science and Forensic Science.	Wave and Optics, Semiconductor, Thermodynamics, Magnetostatics, Electrostatics , Elements of Modern Physics, Crime, Basics of Crime Scene management, Evidences :its collection and Preservation, Laws in Forensic science, Various branches of Forensic Science, (Basics of Biochemistry; Cell; Biology; Microbiology; Molecular Biology.) (Basics of Climate Change; Ecology; Renewable Energy; Remote Sensing; Pollution), (Basics of Food Microbiology; Food Chemistry & Biochemistry; Nutrition; Food Safety and Quality Control)	50%
	Bachelors Level Syllabus of Chemistry	Basic of pharmaceutical drugs, Atomic structure, Periodicity of elements, Chemical bonding, State of Materials, Ionic equilibria, Basics of organic chemistry, Basics of Analytical chemistry, Stereochemistry, Chemistry of hydrocarbons, Chemistry of s and p Block Elements, Noble Gases, Polymers, Alcohols, Phenols, Ethers and Epoxides, Carbonyl Compounds, Carboxylic Acids and their Derivatives, Catalysis, Transition Elements, Lanthanoids and Actinoids.	50%
M.Sc. Environmental Science (with specialization in Environmental Forensics)	Bachelor level syllabus of Chemistry, Physics, Life Sciences, Food Science and Forensic Science.	Wave and Optics, Semiconductor, Thermodynamics, Magnetostatics, Electrostatics , Elements of Modern Physics, Crime, Basics of Crime Scene management, Evidences :its collection and Preservation, Laws in Forensic science, Various branches of Forensic Science, (Basics of Biochemistry; Cell; Biology; Microbiology; Molecular Biology.) (Basics of Climate Change; Ecology; Renewable Energy; Remote Sensing; Pollution), (Basics of Food Microbiology; Food Chemistry & Biochemistry; Nutrition; Food Safety and Quality Control)	50%

Bachelors Level Syllabus of
Environmental Sciences

Fundamentals of Environmental Science, Structure and composition of atmosphere, hydrosphere, lithosphere and biosphere. Fundamentals of Environmental Biology, Ecology and Biodiversity Conservation, Fundamental of Environmental Chemistry, Environmental Pollution (air, water, soil, solid waste/hazardous/other types of wastes), it's monitoring and control, Environmental Legislation, Impact Assessment, Environmental Management, Contemporary Environmental Issues, Global environmental problems and International treaties, Energy and Environment.

50%

School of Management Studies

Program	Syllabus of Entrance Exam	Topics to be included (mention atleast 5 to 6 topics) as per the components mentioned in column C)	Weightage
MBA Forensic Accounting and Fraud Investigation MBA Cyber Security Management MBA Hospital and Healthcare Management MBA Business Analytics and Intelligence	General Knowledge	National and International Current Affairs, Important Days, Indian History, Books and Authors, Indian National Movement, Awards and Honors, General Institutions, Science & Technology, Sports, Science – Inventions & Discoveries, etc.	12%
	Logical Reasoning and Aptitude	Letter and Symbol Series, Verbal Reasoning, Non-verbal series, Analogies, Coding and Decoding, Judgment and Reasoning, Statement and Conclusion, Statement and Argument, Analytical Reasoning, Blood relations, Direction Test, Mirror and Water Images, Classification etc	12%
	Mathematical Reasoning and Data Interpretation	Time and Work, Profit and Loss, Problems on Trains, Percentages, Ratio and Proportion, Number System, Arithmetic Number Series, Arithmetical Reasoning, Data Interpretation, Data Sufficiency, Problem Solving, Problems on Age, Number Series etc.	12%
	Information and Communication Technology (ICT)	Fundamentals of ICT and Computer, General Abbreviations and Terminology, Basics of Internet, Intranet, E-mail, Audio and Video-conferencing, Digital initiatives in education, ICT and Governance etc.	12%
	Communication	Communication Meaning, Types, and Characteristics of Communication, Effective Communication, Verbal and Non-Verbal, Inter-Cultural and Group Communications, Barriers to Effective Communication, Mass-Media and Society.	12%
	Principles of Management	Management – Concept, Process, Theories and Approaches, Management Roles and Skills. Functions – Planning, Organizing, Staffing, Coordinating and Controlling Decision Making – Concept, Process, Techniques and Tools Organization Structure and Design – Types, Authority, Responsibility, Centralization, Decentralization and Span of Control	8%

	Financial Management and Accounting	Financial Management, Concept & Functions, Capital Structure – Theories, Cost of Capital, Sources and Finance Leverages – Operating, Financial and Combined Leverages, Value & Returns – Time Value for Money, Valuation of Bonds and Shares, Capital Budgeting – Nature of Investment, Evaluation, Comparison of Methods, Dividend – Theories and Determination, Accounting Principles and Standards, Preparation of Financial Statements, Financial Statement Analysis – Ratio Analysis, Funds Flow and Cash Flow Analysis, Preparation of Cost Sheet, Marginal Costing, Cost Volume Profit Analysis Standard Costing & Variance Analysis	8%
	Business Communication and Marketing Management	Communication – Types, Process and Barriers. Marketing – Concept, Orientation, Trends and Tasks, Customer Value and Satisfaction. Market Segmentation, Positioning and Targeting Product and Pricing Decision – Product Mix, Product Life Cycle, New Product Development, Pricing – Types and Strategies. Place and Promotion Decision – Marketing Channels, Advertising and Sales Promotion Emerging Trends in Marketing – Concept of e-Marketing, Direct Marketing, Digital Marketing, and Green Marketing	8%
	Strategic Management and Human Resource Management	Strategic Management – Concept, Process, Strategic Analysis – PEST, Porter’s Approach to Industry Analysis, Value Chain Analysis, SWOT Analysis, Corporate Strategy – Growth, Stability, Retrenchment, Integration and Diversification. Business Portfolio Analysis - BCG, GE Business Model, Ansoff’s Product, Mckinsey 7s Framework Human Resource Management – Concept, Perspectives and Recent Trends, Human Resource Planning, Recruitment and Selection Training and Development, Job Analysis, Job Evaluation and Compensation Management, Strategic Role of Human Resource Management, Competency Mapping, Balanced Scoreboard.	8%
	Business Statistics	Statistics for Management – Concept, Measures of Central Tendency and Dispersion, Correlation and Regression, Probability Distributions: Binomial, Poisson and Normal distributions, Research: Concept and Types, Research Designs, Data Collection, Classification of Data & Questionnaire Design, Sampling – Concept, Process and Techniques, Hypothesis Testing – Procedure; T, Z, F, Chi-square tests, Report Writing	8%
BBA-MBA (with Specialization in	General Knowledge	National and International Current Affairs, Important Days, Indian History, Books and Authors, Indian National Movement, Awards and Honors, General Institutions, Science & Technology, Sports, Science – Inventions & Discoveries, etc.	20%

Forensic Accounting and Fraud Investigation / Financial Management/ Business Analytics and Intelligence)	Logical Reasoning and Aptitude	Letter and Symbol Series, Verbal Reasoning, Non-verbal series, Analogies, Coding and Decoding, Judgment and Reasoning, Statement and Conclusion, Statement and Argument, Analytical Reasoning, Blood relations, Direction Test, Mirror and Water Images, Classification etc	20%
	Mathematical Reasoning and Data Interpretation	Time and Work, Profit and Loss, Problems on Trains, Percentages, Ratio and Proportion, Number System, Arithmetic Number Series, Arithmetical Reasoning, Data Interpretation, Data Sufficiency, Problem Solving, Problems on Age, Number Series etc.	20%
	Information and Communication Technology (ICT)	Fundamentals of ICT and Computer, General Abbreviations and Terminology, Basics of Internet, Intranet, E-mail, Audio and Video-conferencing, Digital initiatives in education, ICT and Governance etc.	20%
	Communication	Communication Meaning, Types, and Characteristics of Communication, Effective Communication, Verbal and Non-Verbal, Inter-Cultural and Group Communications, Barriers to Effective Communication, Mass-Media and Society	20%

School of Cyber Security and Digital Forensics

Program	Syllabus of Entrance Exam	Topics to be included (mention atleast 5 to 6 topics) as per the components mentioned in column C)	Weightage
M.Tech. Cyber Security M.Tech. Artificial Intelligence and Data Science (Specialization in Cyber Security)	Networking	-	10%
	Operating System	-	5%
	Data Structure	-	5%
	Programming Concepts (C, C++, Java, .Net, Python etc.)	-	5%
	Database Management System	-	5%
	Internet Technology	-	5%
	Digital Electronics and Digital Login Design	-	5%
	Web Development Technology	-	5%
	Emerging Trends and Technology (Basics of AI, ML, Blockchain and IOT)	-	5%
	Computer Organization and Architecture	-	5%
	Theory of Computation	-	5%
	Reasoning (Verbal, Non-Verbal)	-	15%
	English Grammar (Comprehension Passage, Sentence Correction, Antonyms/Synonyms)	-	15%
	General Knowledge and General Awareness (Current Trends in Science & Technology, National & International Current Topics)	-	10%

M. Sc. Cyber Security M. Sc. Digital Forensics and Information Security	Networking	-	10%
	Operating System	-	10%
	Data Structure	-	10%
	Programming Concepts (C, C++, Java, .Net, Python etc.)	-	10%
	Database Management System	-	5%
	Emerging Trends and Technology (Basics of AI, ML, Blockchain and IOT)	-	10%
	Internet and Web Development Technology	-	5%

	Reasoning (Verbal, Non-Verbal)	-	15%
	English Grammar (Comprehension Passage, Sentence Correction, Antonyms/Synonyms)	-	15%
	General Knowledge and General Awareness (Current Trends in Science & Technology, National & International Current Topics)	-	10%

B. Tech. - M.Tech. Computer Science and Engineering (Cyber Security)	<u>Physics</u>		30%
	Waves	4	
	Electrostatics	3	
	Current Electricity	4	
	Magnetics effects of current & magnetism	3	
	Electromagnetic Induction and Alternating Currents	3	
	Electromagnetic Waves	3	
	Optics	3	
	Electronic Device	3	
	Communication Systems	4	
	<u>Chemistry</u>		25%
	Physical Chemistry	10	
	Inorganic Chemistry	10	
	Organic Chemistry	5	
	<u>Mathematics</u>		25%
	Differential Equation	5	
	Integral Calculus	5	
	Matrices & Determinants	5	
	Probability	4	
	Vector	2	
	Trigonometry	4	
	Reasoning (Verbal and non verbal)		5%
	English Grammar (Comprehension Passage, Sentence Correction, Antonyms/Synonyms)		5%
	General Knowledge and General Awareness (Current Trends in Science & Techonology)		5%
	Computer Science (CPU Architecture, Number System and Internet)		5%