



SARDAR PATEL UNIVERSITY

NAAC 'A' Grade (10-01-2023 To 09-01-2028)

Vallabh Vidyanagar Gujarat

Academic Program Structure & Curriculum (Aligned with NEP-2020)

M.Sc. Forensic Science

NHEQF Level: 6.5

Entry NHEQF Level	:	5.5/6
Duration	:	Two Years (Four Semesters)
Total Courses	:	24
Total Learning Hours	:	2400
Total Credits	:	88
Total Marks	:	2200



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Graduate Attributes (GAs)

Upon successful completion of the programme, graduates are expected to attain the following Graduate Attributes:

GA1. Disciplinary Knowledge

Graduates will possess comprehensive and advanced knowledge of forensic science, including forensic biology, forensic chemistry, forensic ballistics, fingerprints, criminology, computer forensics, forensic instrumentation, and criminal justice systems.

GA2. Analytical and Critical Thinking

Ability to critically analyse forensic evidence, interpret scientific findings, evaluate alternative explanations, and draw logical and scientifically valid conclusions in forensic investigations.

GA3. Forensic Research Competence

Proficiency in formulating research problems, designing forensic investigations, applying scientific methodologies, reviewing forensic literature, and conducting independent research with scientific rigor.

GA4. Technical and Laboratory Skills

Demonstrate practical competence in forensic laboratory techniques, fingerprint examination, forensic chemical analysis, biological evidence examination, ballistic analysis, instrumental methods, and computer forensic procedures.

GA5. Evidence Analysis and Interpretation

Ability to examine, compare, classify, interpret, and evaluate physical, biological, chemical, digital, and ballistic evidence using appropriate forensic methodologies.

GA6. Problem-Solving Ability

Ability to apply forensic principles and scientific techniques to solve complex problems encountered during crime investigation and evidence examination.

GA7. Ethical and Professional Responsibility

Demonstrate integrity, impartiality, confidentiality, professional ethics, and adherence to legal procedures, evidence-handling protocols, laboratory standards, and the principles of the criminal justice system.

GA8. Communication Skills

Ability to effectively communicate forensic findings through scientific reports, case documentation, presentations, expert opinions, and professional discussions.

GA9. Teamwork and Collaboration

Ability to work effectively with forensic scientists, investigators, law-enforcement personnel, legal professionals, medical professionals, and other multidisciplinary teams.

GA10. Lifelong Learning and Adaptability

Demonstrate readiness to continuously update knowledge and skills in emerging areas of forensic science, including advanced instrumentation, digital forensics, forensic genetics, and modern investigative technologies.



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GA11. Criminal Justice and Societal Awareness

Understand the role and significance of forensic science in crime investigation, criminal justice, law enforcement, judicial proceedings, and the protection of society.

GA12. Innovation and Forensic Problem-Solving

Ability to apply scientific knowledge creatively to develop innovative approaches, methodologies, and technologies for forensic investigation and evidence analysis.

GA13. Digital and Computational Proficiency

Demonstrate competence in computer forensic techniques, digital evidence examination, forensic software, data analysis, and computational tools used in contemporary forensic investigations.

Programme Educational Objectives (PEOs)

Within 3–5 years of completing the programme, graduates will be able to:

PEO1. Demonstrate comprehensive and advanced knowledge of fundamental and specialized areas of forensic science, including forensic biology, forensic chemistry, forensic ballistics, fingerprints, criminology, computer forensics, and forensic instrumentation.

PEO2. Apply scientific principles, forensic methodologies, and practical skills to the collection, preservation, examination, analysis, and interpretation of forensic evidence.

PEO3. Analyse physical, biological, chemical, ballistic, fingerprint, and digital evidence using appropriate scientific and instrumental techniques to support criminal investigations.

PEO4. Conduct independent and collaborative forensic research using appropriate research methodologies, laboratory techniques, and scientific approaches.

PEO5. Evaluate forensic evidence critically and objectively while considering scientific validity, limitations, reliability, and relevance to criminal investigations and judicial proceedings.

PEO6. Demonstrate professional competence in forensic laboratories, investigative agencies, law-enforcement organizations, research institutions, and related professional environments.

PEO7. Communicate forensic observations, analytical results, and expert conclusions effectively through scientific reports, presentations, case documentation, and professional testimony.

PEO8. Demonstrate ethical conduct, professional responsibility, respect for legal procedures, proper chain of custody, and impartiality in forensic examination and reporting.



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Programme Learning Outcomes (PLOs)

Upon successful completion of the programme, learners will be able to:

PLO1. Demonstrate comprehensive knowledge of the fundamental principles and advanced concepts of forensic science, including forensic biology, forensic chemistry, forensic ballistics, fingerprints, criminology, computer forensics, and instrumental methods.

PLO2. Apply scientific principles and forensic methodologies for the systematic collection, preservation, examination, and interpretation of crime-scene and forensic evidence.

PLO3. Analyse physical, biological, chemical, ballistic, fingerprint, and digital evidence using appropriate forensic techniques and scientific reasoning.

PLO4. Demonstrate proficiency in the use of forensic instruments, laboratory methods, and analytical techniques for the examination and identification of forensic evidence.

PLO5. Evaluate forensic evidence critically by assessing its reliability, relevance, limitations, and significance in the context of criminal investigation and the criminal justice system.

PLO6. Conduct independent and collaborative research in forensic science by formulating research questions, selecting appropriate methodologies, analysing results, and drawing scientifically valid conclusions.

PLO7. Demonstrate practical competence in forensic laboratory procedures, including fingerprint examination, forensic chemical analysis, biological evidence analysis, forensic ballistics, instrumental methods, and computer forensic investigations.

PLO8. Apply appropriate statistical, computational, and digital tools for the analysis, interpretation, documentation, and presentation of forensic evidence and research findings.

PLO9. Analyse crime-related problems using principles of criminology, forensic science, and criminal justice to develop logical, objective, and evidence-based solutions.

PLO10. Demonstrate effective communication skills by preparing forensic reports, documenting observations, presenting analytical findings, and communicating expert opinions clearly and objectively.

PLO11. Apply ethical, legal, professional, and quality-assurance principles in forensic examination, evidence handling, laboratory practice, and criminal investigations.

PLO12. Demonstrate lifelong learning and adaptability to emerging developments in forensic science, including advanced instrumentation, digital forensics, forensic genetics, artificial intelligence, and emerging investigative technologies.



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Programme Specific Outcomes (PSOs)

PSO1. Apply advanced forensic science principles and techniques for the identification, examination, analysis, interpretation, and evaluation of physical, biological, chemical, ballistic, fingerprint, and digital evidence.

PSO2. Analyse forensic evidence using modern instrumental, laboratory, computational, and digital forensic techniques to generate reliable and scientifically valid findings for criminal investigations.

PSO3. Conduct specialized forensic research and investigations by integrating knowledge of forensic science, criminology, criminal justice, forensic instrumentation, and emerging forensic technologies while adhering to ethical, legal, and professional standards.



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Semester-I

Course Type	Course Code	Course Title	Teaching-Learning Scheme		Credits	Assessment Scheme & Marks				
			L-P-T	Total Notional Hours		Internal Assessment			External Assessment	Total Marks
						FA	SA	Total		
DSC	P2S01NCFSC01	General Forensic Science	4-0-1	120	4	20	30	50	50	100
DSC	P2S01NCFSC02	Computer Forensic	4-0-1	120	4	20	30	50	50	100
DSC	P2S01NCFSC03	Instrumental Methods – Physical	4-0-1	120	4	20	30	50	50	100
DSC	P2S01NCFSC04	Instrumental Methods – Biological	2-0-0	60	2	15	10	25	25	50
DSC	P2S01NCFSC05	Practicals based on General Forensic Science and Computer Forensic	0-8-0	120	4	20	30	50	50	100
DSC	P2S01NCFSC06	Practicals based on Instrumental Methods – Physical and Instrumental Methods – Biological	0-8-0	120	4	20	30	50	50	100
				660	22	115	160	275	275	550

DSC: Discipline Specific Core DSE: Discipline Specific Elective L: Lecture P: Practical T: Tutorial

FA: Formative Assessment SA: Summative Assessment



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Semester-II

Course Type	Course Code	Course Title	Teaching-Learning Scheme		Credits	Assessment Scheme & Marks				
			L-P-T	Total Notional Hours		Internal Assessment			External Assessment	Total Marks
						FA	SA	Total		
DSC	P2S02NCFSC01	Finger prints &Law(Criminal Justice System)	4-0-1	120	4	20	30	50	50	100
DSC	P2S02NCFSC02	Forensic Ballistics	4-0-1	120	4	20	30	50	50	100
DSC	P2S02NCFSC03	Forensic Chemistry	4-0-1	120	4	20	30	50	50	100
DSC	P2S02NCFSC04	Criminology	2-0-0	60	2	15	10	25	25	50
DSC	P2S02NCFSC05	Practicals based on Finger prints & Law (Criminal Justice System) and Forensic Ballistics	0-8-0	120	4	20	30	50	50	100
DSC	P2S02NCFSC06	Practicals based on Forensic Chemistry and Criminology	0-8-0	120	4	20	30	50	50	100
				660	22	115	160	275	275	550

DSC: Discipline Specific Core **DSE:** Discipline Specific Elective **L:** Lecture **P:** Practical **T:** Tutorial

FA: Formative Assessment **SA:** Summative Assessment