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SEMESTER I

COURSE CODE	CATEGORY	COURSE NAME	TEACHING &EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MSFSN101		Introduction to Forensic Science and Police Administration	60	20	20	0	0	5	0	0	5

Legends: **L** - Lecture; **T** - Tutorial/Teacher Guided Student Activity; **P** – Practical;   **C** - Credit;
***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

 Course Objectives: The course aims to provide the students with
1. The organizational set up of a Forensic Science Laboratory.
2. The report writing and crime scene Management.
3. The different types of offences and Indian Penal system.
4. The organizational structure of police station and duties of police.

Course Outcomes: After studying this course, the students will
1. Be able to understand organizational set up of a Forensic Science Laboratory.
2. Be able to understand crime scene Management.
3. Be able know Indian Penal Code.
4. Be able to understand structure and duties of police.

UNIT I: Forensic Science
Introduction, Need, Scope, Concepts and Significance of Forensic Science, History and Development of Forensic Science, Lawsand Basic principles of Forensic Science, Branches of forensic science, Organizational set-up of a Forensic Science Laboratory. Investigative strategies, Expert testimony and eye-witness report.

UNIT II: Crime Scene Management
Crime scene investigations, Protection of Crime Scene, Documentation, sketching, field notes and photography, Searching, handling and collection, preservation and transportation of physical evidences. Chain of custody and Reconstruction of scene of crime, Report writing.

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UNIT III: Criminal Law I
Introduction to Indian Penal Code, IPCsections-240, 53, 63, 73, 76-79,84-86, 95-106, 279, 299-309, 375-377, 390-402, 420.
Introduction to Criminal Procedure Code, CrPCsections-2,6-35,41-60,61-90,154-176,293-294.

UNIT IV: Criminal Law II
Bailable/non-bailable offences, cognizable/non cognizable, summon case and warrant cases.
Indian Evidence Act: sections-3,24-30,45,135-138,141
NDPSAct, Food and Adulteration Act, Drugs and Cosmetic Act, Arms Act, Explosives Act.

UNIT V: Police Administration
History and development of police administration, Police duties, responsibilities and powers, Organizational structure of police station, maintenance of crime records and accountability of police to law, NCRB and BPR&D, Custodial deaths, Police and Human Rights.

Suggested Readings
1. Houck, M.M & Siegel, J.A; Fundamentals of Forensic Science, Acadamic Press, London, 2006.
2. Sharma, B.R; Forensic Sciencein Criminal Investigation & Trials, Universal Publishing Co., NewDelhi, 2003
3. Nanda B.B and Tewari, R.K; Forensic Science in India-Avision for the Twenty First Century, Select Publisher, New Delhi, 2001.
4. James,S. Hand Nordby, .J; Forensic Science- An Introduction to Scientific and Investigative Techniques, CRC Press,USA,2003.
5. Saferstein; Criminalistics -An Introduction of Forensic Science, Prentice HallInc, USA,2007.
6. Barry, A.J. Fisher; Techniques of Crime Scene Investigation, 7th Ed, CRC Press,NewYork,2003.
7. Mordby, J .& Reckoning, D; The Art of Forensic Detection, CRC PressNewYork,2003.
8. G.R.Chatwal; Analytical Spectroscopy 2nd Edn, Himalaya Publishing House New Delhi, 2002.
9. Aitkenand Stoney; The Use of Statistics in Forensic Science, Ellis Horwood, New York,1991.
10. Robertson and Vignaux; Interpreting Evidence, John Wiley, New York, 1995.
11. H.L. Blitzerand J. Jacobia; Forensic Digital Imaging and Photography, Academic Press, London, 2002
12. David R.Redsicker; The Practical Methodology of Forensic Photography-2nd Ed. CRC Press, New York, 2001.
13. R.E. Jacobson, S.F. Ray, G.G. Attridge; The Manual of Photography-Photographic and Digital Imaging, N.R. Oxford

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COURSE CODE	CATEGORY	COURSE NAME	TEACHING &EVALUATION SCHEME					L	T	P	CREDITS
			THEORY			PRACTICAL					
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MSFPSYN101		Introduction to Forensic Psychology	60	20	20	0	0	5	0	0	5

Legends: **L** - Lecture; **T** - Tutorial/Teacher Guided Student Activity; **P** – Practical;   **C** - Credit;
*Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Objectives: The course aims to provide the students with

1. Historical Development of Forensic Psychology
2. Legal Aspects of Forensic Psychology.
3. Assessment & evaluation in forensic psychology
4. Impact of crimes on victims

Course Outcomes: After studying this course, the students will

1. Be able to understand overview of Forensic Psychology
2. Be able to understand Ethical Issues in practice
3. Be able know concept of victimization

UNIT I
Introduction and overview of forensic psychology, Nature, definition, scope, and history of Forensic Psychology. Professional training and education in forensic psychology, Forensic Psychology in India.

UNIT 2
The victim, Victimization, Impact of crimes on victims, Factors affecting for victimization coping with victimization.

UNIT 3
The Psychologists as an expert witness. Ethical issues in forensic psychology, Mental disorders and forensic psychology. Psychology of evidence–eyewitness testimony, confession evidence, Criminal profiling. Section 84 IPC

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UNIT 4
Crime scene and investigation, Investigative interviewing: Interviewing vulnerable witnesses, Interviewing suspects. Neurobiological Forensic testing and investigation.

UNIT 5
Assessment & evaluation in forensic psychology: Forensic methods in detection of crime – Forensic methods of distortion in eye & ear witnesses. Competence to stand trial and use of psychological tests, Polygraph, testing, Forensic assessment & treatment of sexual offenders & their victims.

Suggested Readings

1.Bharti A.Studies on Criminological Psychology. G.S. Rawat for Ceber Tech Publications.

New Delhi- 110 002

2.Gregory, R.J. (2005).Psychological Testing (4th ed.). Delhi: Pearson education Pte.Ltd.

3.Suryanarayana, N.V.S, HimabinduGoteti, Neelima V. (2011). Cyber Psychology. Sonali

Publications, New Delhi- 110 002

4.Thou Teisi (2011) Forensic Psychology. ABD Publishers, Jaipur-302018

5.Veereshwar, P. (2002). Indian systems of psychotherapy. Delhi: Kalpaz publications

6.Verma, L. (1990).The management of children with emotional and behavioral difficulties.

London: Routledge.

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			Theory			Practical		Th	T	P	
			End Sem University exam	Two term exam	Teacher Assessment	End Sem University exam	Teacher Assessment				Credits
MSFPSYN102		Fundamentals of Psychology	60	20	20	0	0	5	0	0	5

Legends: **L** - Lecture; **T** - Tutorial/Teacher Guided Student Activity; **P** – Practical;   **C** - Credit;
***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Objectives: The course aims to provide the students with

1. Significance of Psychology to Human Society.
2. Basics of Psychological Cognitive Processes.
3. Broader conceptions of Intelligence.
4. To understand the Personality.

Course Outcomes: After studying this course, the students will

1. Be able to understand significance of Psychology

2. Be able to understand concept of Intelligence

3. Be able know concept of personality

UNIT 1: Perception

Perception: Bottom-up and top-down processing Role of attention in perception Principles of Perceptual Organization Depth Perception Perceptual Constancies Illusions Influence of contexts and expectations on perception

UNIT 2: Learning

Nature of Learning Classical and Operant Conditioning: Principles/processes, Applications.Cognitive influences on learning Observational Learning Biological constraints in learning

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UNIT 3: Motivation

MotivationFunctions of motivational concepts Perspectives on Motivation
Types of Motivations Motivational Conflicts

UNIT 4: Personality

 Personality and Self Nature of Personality Psychodynamic theories Type and trait theories
Humanistic theories Social learning and Cognitive theories Culture and Personality Self and
identity in Indian thought Personality Assessment

UNIT 5: Intelligence

Intelligence in historical perspective Psychometric and Cognitive process approaches to
Intelligence Broader conceptions of Intelligence: Multiple Intelligences, Emotional Intelligence
Measurement of Intelligence Role of Heredity and Environment in intelligence Extremes of
Intelligence

Suggested Readings

1. Atkinson and Hilgard (2002). Introduction to Psychology. New York: Thomson Wadsworth.

2. Baron, R. A. (1995). Psychology: The Essential Science. New York: Allyn and Bacon.

3. Feldman, R. S. (2006). Understanding Psychology. India: Tata McGraw Hill.

4. Lefton, L. A. (1985). Psychology. Boston: Allyn and Bacon.

5. Ciccarelli, S.K. & Meyer, G.E. (2008). Psychology (South Asian Ed.).New Delhi: earson

Longman.

6. Gerrig, R.J. & Zimbardo, P.G. (2010). Psychology and Life (19thEd.).Delhi: Allyn & Bacon.

Morris, C. G. (1990). Psychology: An Introduction.New Delhi: Prentice Hall.

7. Passer, M.W. & Smith, R.E. (2007). Psychology: The Science of Mind and Behaviour (3rd

Ed.). New Delhi: Tata McGraw-Hill

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			Theory			Practical		Th	T	P	Credits
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MSFPSYN103	DC	Abnormal Psychology	60	20	20	0	0	5	0	0	5

Legends: **L** - Lecture; **T** - Tutorial/Teacher Guided Student Activity; **P** – Practical; **C** - Credit;
***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.
Course Objectives: The course aims to provide the students with

1. Significance ofAbnormal Psychology to Human Society.
2. Different types of Behavioral abnormalities.
3. The Impact of Stress on Physiological Parameters.

Course Outcomes: After studying this course, the students will

1. Be able to understand types of behavioral abnormalities.
2. Be able to understand impact of stress.
3. Be able to know developmental disorders.

Unit:1

Definition of abnormality, Criteria, Classification and Clinical Assessment. Models of abnormal

Psychology. Clinical assessment and diagnosis.

Unit:2

Clinical States a) Clinical Picture of GAD, OCD, and Phobias, Dynamics ofanxiety disorders.

b) Clinical Picture of Conversion Disorder and its Dynamics.c) Clinical Picture of Dissociative

Identity Disorder and its Dynamics

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Unit:3

Developmental Disorders (Clinical Picture and Dynamics) Mental Retardation, Autism, ADHDand Learning Disabilities

Unit:4

Diathesis-Stress Model a) The Impact of Stress on Physiological Parameters (Coronary Heart Disease and Essential Hypertension) b) Substance-Related Disorder

Unit: 5

Personality Disorders: Antisocial and Borderline Personality Disorders, Sexual Disorders (Clinical Picture): Paraphilias, Gender Identity Disorder, Sexual Dysfunction.

Suggested Reading

1. Ahuja N. (2011). A Short Textbook of Psychiatry(7[th]Ed). New Delhi: Jaypee

2. Barlow D.H. and Durand V.M. (2005).Abnormal Psychology: An Integrated Approach(4thEd.).Wadsworth: New York.

3. Carson R.C., Butcher J.N., Mineka, S., & Hooley J.M. (2007).Abnormal Psychology (13thEd.).ND: Pearson Education.

4. Kring,A.M.,Johnson,S.L.,Davison G.C. & Neale J.M. (2010).Abnormal Psychology (11thEd.).NY: John Wiley.

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			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
MSFSN1052		**Quality Management & Research Methodology**	60	20	20	0	0	4	0	0	4

Legends: **L** - Lecture; **T** - Tutorial/Teacher Guided Student Activity; **P** – Practical; **C** - Credit;
*Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Objectives: The course aims to provide the students with
1. To equip the students with the concept and Methods of Research.
2. To plan and Design Research using Scientific and Statistical Methods.

Course Outcomes: After studying this course, the students will
1. Be able to know the basics of Research
2. Be able to select research problem.
3. Be able to perform basic statistics used in research

Unit 1: Quality Management System
Quality Management System: Quality, Total Quality, Quality assurance, Quality Control, Quality Planning, and Quality Audit: Internal and External Audit, Accreditation, NABL, ISO, IEC, BIS. **Technical Requirements for testing and calibration of laboratories**: Test and calibration methods and their validation, measurements, standards and reference material, traceability, sampling.

Unit 2: Introduction to Research Methodology
Meaning of Research, Objectives Of Research, Types Of Research, Significance Of Research, Problems Encountered By Researchers In India.
Research problem: Definition, Necessity and Techniques of Defining Research Problem, Research Proposal, Literature Search, Hypothesis, Report Writing.

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Unit 3:Research Design:
Meaning, Need and Features Of Good Research Design, Types Of Research Design, Basic Principles of Experimental Designs, Design Of Experiments, Synopsis Design For Research Topic.
Sampling Design: Sample Design, Census And Sample Surveys, Types Of Sampling Design, Sampling Errors Characteristics Of Good Sample Design.

Unit 4: Descriptive Statistics
Types Of Data, Basic Concepts Of Frequency Distributions, Measure Of Central Tendency, Mean, Median And Mode, Measure Of Dispersion, Range, Mean Deviation And Standard Deviation. Correlation and Regression Analysis.

Unit 5: Methods of data collection
Collection of Primary Data, Observation Method, Interview Method, Collection of Data through Questionnaire and Schedules, Other Methods. Collection Of Secondary Data, Selection Of Appropriate Method For Data Collection, Case Study Method , Guidelines For Developing Questionnaire, Successful Interviewing , Survey V/S Experiment.

Suggested Readings:

1. Aitken and D.A Stoney; The use of statistics in Forensic Science, Ellis Horwood Limited, England 1991.
2. Sokal, R.R & Rolf, F.J: Biometery, Principles & Practices of Statistics in Biological Research
3. Rao, C. R Advanced Statistical Methods in Biometric Research.
4. Saferstein R. Forensic Science Handbook I, II, III.
5. William L. Duncan: Total Quality, Key Terms and Concepts.
6. John T. Rabbitt, Peter A Bergh: The ISO 9000 Book.
7. NABL -113
8. NABL -113A
9. Garg, B.L., Karadia, R., Agarwal, F. and Agarwal, U.K., 2002. An introduction to Research Methodology, RBSA Publishers.
10. Sinha, S.C. and Dhiman, A.K., 2002. Research Methodology, Ess Ess Publications. 2 volumes.

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11. Trochim, W.M.K., 2005. Research Methods: the concise knowledge base, Atomic Dog Publishing. 270p.
12. Wadehra, B.L. 2000. Law relating to patents, trademarks, copyright designs and geographical indications. Universal Law Publishing.
13. Malhotra Naresh K. (2008). Marketing Research. Pearson publishers, Latest Edition.
14. Zikmund, Babin, Carr, Griffin (2003). Business Research Methods. Cengage Learning, India, Latest Edition.
15. Cooper Donald R and Schindler Pamela S. (2006). Business Research Methods. McGraw-Hill Education, Latest Edition. Shri Vaishnav Vidyapeeth Vishwavidyalaya Master of Technology (Computer Science and Engineering) Choice Based Credit System (CBCS)
16. Anderson, Sweeney, William, Cam (2014). Statistics for Business and Economics. Cengage Learning, Latest Edition.
17. Krishnaswami O. R., Ranganatham M. (2011). Methodology of Research in Social Sciences. Himalaya Publishing House, Latest Edition.
18. Levin and Rubin (2008). Statistics for Management. Dorling Kindersley Pvt Ltd, Latest Edition.
19. Sekaran Uma (2003). Research Methods for Business. Wiley India, Latest Edition.
20. Gupta S. P. (2014). Statistical Methods. Sultan Chand and Sons, Latest Edition.
21. Aczel and Sounderpandian (2008). Complete Business Statistics. Tata-McGraw Hill,Latest Edition.
22. Kothari C. R. (2004). Research Methodology. Vishwa Prakashan, Latest Edition.

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			THEORY			PRACTICAL					
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	L	T	P	CREDITS
MSFPSYN104		Practicals based on paper 1 & 2	0	0	0	60	40	0	0	4	2

Practicals

1. Descriptive study of organizational structure of a forensic science laboratory.

2. Photography of crime scene using manual and digital camera.

3. Basics of crime scene sketching

4. To carry out sketching of indoor crime scene.

5. To carry out sketching of outdoor crime scene.

6. Methods for Searching of physical evidences at scene of crime.

7. BEOS: Formulating the Probes.

8. Polygraph: Formulating Relevant, Irrelevant and Control questions.

9. Case Study

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			THEORY			PRACTICAL					
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	L	T	P	CREDITS
MSFPSYN107		Practical based on paper 3 & 4	0	0	0	60	40	0	0	4	2

Practical

1. Test for Stress

2. Intelligence Test

3. EPQ

4. Test for aggression

5. Measurement of Span of attention

6. Depth Perception

7. Self-Concept Questionnaire

8. Self Esteem Scale

9. Attitude Measurement Scale

10. Aggression Scale

11. Environmental Ethics Scale

12. Multi-Dimensional Aptitude Battery