



DAVANGERE UNIVERSITY
Department of Studies in Criminology and Forensic Science
Shivagangothri, Davanagere-07

No: DUD: CRI: BOS: 2022-23/

Date: 20.08.2022

Proceedings

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Proceedings of the meeting of the Combined Board of Studies (UG and PG) in Criminology and Forensic Science held (Offline and Online) on 20th August 2022 at 11.00 AM in the Department of Studies in Criminology & Forensic science, Davangere University, Davangere.

- The Meeting at the outset is commenced by a warm welcome extended by Dr. Nataraj Member of BOS.
- The Board of Studies (BOS) in Criminology and Forensic Science, after verification and with a threadbare discussions has resolved to approve the curriculum framework of the syllabus of B.A/B.Sc, III & IV semester in Criminology & Forensic science framed by the subject expert committee of Karnataka State Higher Education Council Government of Karnataka Bangalore.
- The BOS has made a modification in III semester Practical DSC-3, by deleting the Practical No.02 (Scene of Crime, Documentation: Rough sketch, Photography and Videography) which is a repetition of practical prescribed for second semester-DSCC-A2.

Members Present Offline

Sl. No	Name and Address	Designation	Signature
1	Dr. VENKATARAO M. PALATI Dean Arts Faculty Professor, Department of History, Davangere University, Davangere	Chairperson	
2	Dr. ASHOKKUMAR V. PALED Associate Professor, and Co-ordinator DOS Criminology & Forensic science Davangere University, Davangere.	Member Coordinator	
3	Dr. NATARAJ Teaching Assistant and Retired Associate Professor DOS Criminology & Forensic science, Davangere University, Davangere.	Subject Expert (Additional)	

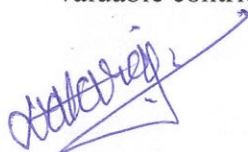
Members Present Online

4	Dr. G. S. VENUMADHAVA Associate Professor & Chairman, DOS Criminology & Forensic science Karnataka University, Dharwad.	Member	
5	Dr. NAGARAJU. K. S Associate Professor & Chairman DOS Criminology & Forensic science Govt. First Grade College and P.G. Centre K R Nagar, Mysuru-571602	Member	

Member Absent:

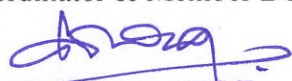
Sl No	Name and Address	Designation
1	Dr. G. B. ARAVIND, Associate Professor of Forensic Medicine, JSS Medical College, Mysuru.	Member
2	Dr. J. L. KALYAN Associate Professor and Chairman DOS in Criminology and Forensic Science Karnataka Science College Dharwad 580 001	Member
3	Dr. NAGARATNA Associate Professor National Law University, Nagarbhavi Bengaluru	Member

- No other matters are raised or discussed by the members
- The meeting is concluded with the chairman thanking all the board members for their valuable contribution and cooperation



Dr. NATARAJ
Member BOS

Dr. Ashokkumar V Paled
Coordinator & Member BOS



COORDINATOR
Criminology Department
DAVANGERE UNIVERSITY
DAVANGERE.



Professor Dr. Venkatarao Palati
Chairperson (BOS)
Dean of Arts Faculty

Model Curriculum Under NEP 2020

**B.A/B.Sc
Criminology and Forensic Science (Basic/Hons)**

And

**(Five Years Integrated Program)
in
Criminology and Forensic Science**

CHOICE BASED CREDIT SYSTEM

III and IV Semester Syllabus (2022-23)

**Submitted by
Subject Experts Committee**

2021-22 and Onwards

**Karnataka State Higher Education Council
(KSHEC), Government of Karnataka
Bangalore**

Acknowledgment

The Model Curriculum Framework work under NEP 2020 for **One Major and Minor with any subject** B.A/B.Sc Criminology and Forensic Science-(Hons) as well as **Single Major subject** (5 Years Integrated) in Criminology and Forensic Science, bears the imprints of many peoples, without whose support it would not have completed the task successfully.

First and foremost we would like to express our heartfelt gratitude to Prof.B.Thimme Gowda Vice-Chairman, Karnataka State Higher Education Council (KSHEC), Bengaluru for giving us an opportunity by constituting the subject experts committee with his continuous guidance and support for framing the Curriculum under NEP 2020.

I am deeply grateful to Prof. Gopalkrishna Joshi, Secretary and Executive Director, Karnataka State Higher Education Council (KSHEC), Bengaluru, for his support and cooperation.

I am also grateful to Dr. Prasannakumar, Member Convenor, Rajani B and Dr.M.Jayappa Special Officers KSHEC, Bangalore for their continuous coordination to complete the III and IV Semester Curriculum framework.

I specially thank the other committee members, Dr.G.S.Venumadhava Associate Professor, Chairman, Department of Studies in Criminology and Forensic Science, Karnatak University, Dharwad, Dr.J.L.Kalyan, Associate Professor and Head, Department of Criminology and Forensic Science, Karnatak Science College, Dharwad and Dr.K.S.Nagaraju, Associate Professor and Head, Department of Criminology and Forensic Science, Govt. First Grade College, K.R.Nagar for their contribution in framing the curriculum under NEP Guidelines.

Prof. R. N. Mangoli
Chairman, Syllabus Farming Committee
In Criminology and Forensic Science,
KSHEC, Bengaluru

Model Curriculum III and IV Semester (2022-23)

B.A /B.Sc. CRIMINOLOGY AND FORENSIC SCIENCE (BASIC/HONS)

Syllabus

Name of the Degree Program: B.A/B.Sc Criminology and Forensic Science (Basic/Hons)

Discipline Core: Criminology and Forensic Science

Total Credits for the Program: 184

Program Outcomes:

By the end of the program the students will be able to:

1. Demonstrate (i) a systematic or coherent understanding of the fundamental concepts, principles and processes underlying the academic field of Criminology and Forensic Science, its application in different subfields (law, Policing, Investigation Techniques, Investigation of Scene of Crime, Penology, Human Rights, Victimology, Criminal Psychology, Security Management and in others allied fields), and its linkages with related disciplinary areas/subjects; (ii) procedural knowledge that creates different types of professionals in the field of Criminology and Forensic Science related fields such as teaching, research and development, private investigations, security industry, victim assistance, non-governmental organizations, juvenile justice system, correctional system, policing, and crime analyst; (iii) skills related to specialization areas within Criminology and Forensic Science as well as within subfields of Criminology and Forensic Science (policing, investigative techniques, crime scene management, penology, victimology, criminal psychology, security management), and other related fields of study, including broader interdisciplinary subfields (forensic science, human rights, gender studies, sociology and law).
2. Apply appropriate methodologies in order to conduct analysis and detect patterns of crime and victimization and apply relevant knowledge and skills to seek solutions to problems that emerge from the subfields of Criminology and Forensic Science as well as from broader interdisciplinary subfields relating to Criminology and Forensic Science.
3. Use techniques relevant to academia and industry, generic skills and global competencies, including knowledge and skills that enable students to undertake further studies in the field of Criminology and Forensic Science, its related field, and work in the government and non-government sectors.
4. Undertake hands-on field work and practical activities that develop problem- solving abilities required for successful career in research and development, policy-making, teaching, security management, private investigation, disaster management, non-governmental organizations, victim assistance programmes, correctional institutions, after-care programs, criminal justice administration, etc.
5. Recognize and appreciate the importance of Criminology and Forensic Science, its application in an academic, social, legal, industrial, economic and environmental context.

The Second Year

Sem.	Discipline Core(DSC)	(Credits) (L+T+P)	Open Elective (OE)	(Credits) (L+T+P)	Skill Enhancement Courses (SEC)			
					Skill based	(Credits) (L+T+P)	Value based	(Credits) (L+T+P)
I	Core 3: Police Science and Criminal Investigation	(4+0+2)	OE- 3.1 Gender and Crime 3.2 Forensic Print Science	3	SEC-1: Artificial Intelligence in Crime Investigation	2		
II	Core4: Correctional Administration	(4+0+2)	OE- 4.1. Child Protection Laws 4.2 Crime Scene Investigation	3				

- One core paper each semester
- Open elective papers for each semester(may be more than 1 per semester)
- Skill based skill enhancement courses in the first semester (preferably relating to computer skill)

Types of Course	Formative Assessment/IA	Summative Assessment
Theory	40	60
Practical	25	25
Projects	40	60
Experiencing Learning (Internship/Field Work Placements)	40	60


 Registrar
 Davangere University
 Shivangotri, Davangere

Course Articulation Matrix: Mapping of Course Outcomes (COs) with Program Outcomes(POs1-12)

Course Outcomes (COs) / Program Outcomes(POs)	DSC 1	DSC2	OE 3.1	OE 3.2	OE 4.1	OE 4.2	SHC1
1. Disciplinary knowledge and skills	X	X	X	X	X	X	
2. Skilled communicator	X	X	X	X	X	X	X
3. Critical thinker and problem solver	X	X	X	X	X	X	X
4. Team player/worker	X	X	X	X	X	X	X
5. Skilled project manager	X	X	X	X	X	X	X
6. Digitally literate		X		X		X	X
7. Analytical reasoning	X	X	X	X	X	X	X
8. Research-related skills	X	X	X	X	X	X	X
9. Multicultural competence	X	X	X	X	X	X	X
10. Moral, Ethical & Legal reasoning	X	X	X	X	X	X	X
11. Develop scientific temper and self-motivating learnings	X	X	X	X	X	X	X
12. Lifelong learner		X	X	X	X	X	X

Course Articulation Matrix relates course outcomes of course with the corresponding program outcomes whose attainment is attempted in this course. Mark 'X' in the intersection cell if a course outcome addresses a particular program outcome.

V	DSCA5 Medical Jurisprudence and Toxicology (3+2) DSCA6 Digital Forensics and Cybercrime (3+2) DSC B5(3+2)	Vocational-1 (3)				SEC-3: Cyber Security (2) (1+0+2)			20
VI	DSC A7 Dactyloscopy and DNA Fingerprinting (3+2) DSC A8 Corporate Crime (3+2) DSC B6(3+2)	Vocational-2 (3) Internship (2)				SEC-4: Investigative Journalism (2)			22
Exit option with Bachelor of Arts, B.A./ Bachelor of Science, B.Sc. Basic Degree (142 credits) or continue studies with the Major									
VII	DSC A9 Criminal Law (3+2) DSC A10 Physical & Biological Evidences (3+2) DSCA11 Drug Addictions and Narcotic Laws (3)	DSE A, E-1.1 Community Policing & Crime Investigation E-1.2 Forensic Document Examination (3) DSE A, E-2.1 Forensic Psychology E-2.2 Industrial Security Management & Detective Consultancy (3) RM-Criminological Research Methodology and Statistical Application (3)							22
VIII	DSC A12 Ballistics (3+2) DSC A13 Mass Media and Crime (3) DSC A14 Crime Scene Management (3)	DSE A, E-3.1 Chemical and Biometric Evidences E-3.2 Contemporary Forms of Crime E-3.3 Forensic Entomology E-3.4 Internship (3) Research Project (6)*							20
Award of Bachelor of Arts Honours, B.A. (Hons.)/ Bachelor of Science Honours, B.Sc. (Hons) degree in a discipline (184 credits)									

Note: In lieu of the Research Project, two additional Discipline Specific Electives (DSE) papers/Internship may be offered in VIII Semester.

Semester-III

B.A/B.Sc. Criminology and Forensic Science

Title of the course: DSCA3: Police Science and Criminal

Investigation Course Outcome:

- Understand the concept and purpose of Police Science and its importance in crime prevention, investigation and maintaining social order peacefully.
- Develop the knowledge regarding the Police Administration, Enforcement of Laws of the nation, Maintaining the Law and Order.
- Understanding the various challenges faced by police in their day to day policing.
- Become aware about the different types of crime scenes, investigations and their related legal procedures.

Number of Theory Credits	Number of Lecture hours/semester	Number of Practical credits	Number of practical hours/semester
4	56	4	56
Content of Theory course			56hrs
Unit – 1 Introduction to Police Science			14
Chapter-1 Police administration in India <ul style="list-style-type: none"> • Role of Police in Independent India, Constitutional provisions regarding policing in India • Role of Police in International level Chapter-2 Policing in present scenario. <ul style="list-style-type: none"> • Introduction to various styles of Policing • Ethics in Policing • Technology and policing • Short comings of policing Chapter-3 Police Recruitment and Training <ul style="list-style-type: none"> • Police recruitment, training • Police Reforms • Policing in present scenario 			
Unit – 2 Powers, Duties and challenges of Police			14
Chapter-4 Powers and duties <ul style="list-style-type: none"> • Executive powers and duties of police officers in the investigation • Police accountability in India: Courts, Executive Magistrates ,State Government, CAO, Citizens/ Community. Chapter-5 Challenges in policing <ul style="list-style-type: none"> • Internal and external challenges in policing • Programmes for redressing Public grievances, Police Complaints Authorities. Chapter-6 Police Imaging and Human Rights <ul style="list-style-type: none"> • Police Image, Police Corruption, Police and Human Rights • Technological short comings and policing 			
Unit – 3 Criminal Investigation			14
Chapter-7 Basics of Investigation <ul style="list-style-type: none"> • Objectives of Criminal Investigation • Characteristics and role of Investigating officer Chapter-8 Legal procedures in Investigation <ul style="list-style-type: none"> • Investigation procedures in traditional, contemporary and special crimes Chapter-9 Legal procedures under Criminal Law			

Case Laws on Registration of FIR, charge sheet, recording of statements, arrest, confession, summons and warrants.	
Unit-4 Crime scene Investigation	14
Chapter -10 Crime scene Management <ul style="list-style-type: none"> Responsibilities of First responding officer. Crime scene – Types, search methods, Photography and sketching. Chapter-11 Physical Clues <ul style="list-style-type: none"> Types of Physical clues and various crime scenes Chapter-12 Procedure Handling of Physical Clues <ul style="list-style-type: none"> Procedures in locating, handling, collecting, packing and forwarding of physical clues. 	

SUGGESTED READINGS:

1. Nabar, B.S. 2007, Forensic Science in Crime Investigation, 3rd Edition, Asia Law House, Hyderabad.
2. Sharma B.R, 2007, Forensic Science in Criminal Investigation and Trials Universal Law Pub. Co. Pvt. Ltd.
3. Douglas Cruise (2002) The Business of Private Investigations, Texas: Thomas Investigative Publications.
4. Ramanujam T, 1992, Prevention and Detection of Crime, Madras Book Agency
5. Nehad Ashraf, (1992), Police and Policing in India, Common Wealth Publishers, New Delhi

JOURNAL REFERENCES

1. International journal of police science and management, SAGE
2. The Indian Police Journal
3. The Journal criminal Law, Criminology and Police Science, JSTOR ISSN-15476154

DIGITAL REFERENCES

1. https://www.researchgate.net/publication/318324772_POLICE_SCIENCE_SCIENCE_OF_THE_POLICE_OR_SCIENCE_FOR_THE_POLICE_-_CONCEPTUAL_CLARIFICATION_AND_TAXONOMY_FOR_COMPARING_POLICE_SYSTEMS
2. <https://www.ojp.gov/pdffiles1/nij/228922.pdf> https://www.researchgate.net/publication/340874515_Police_science_as_an_emerging_scientific_discipline.

Pedagogy: Lecture, Assignments, Interactive Sessions, ICT, Group Discussion

Formative Assessment 40 (Weightage in Marks includes: Written Tests, Activities/Assignment/Seminar/Presentation & Attendance)			
Assessment Occasion/type	C1	C2	Total Marks
Written Test (2)	10	10	20
Seminar/Presentation/Activity	10	---	10
Case work/Assignment/Field work/Project work etc	---	10	10
Total	20	20	40

Dr. NATARAJ
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Chairperson (BOS)
Dean of Arts Faculty

**Model Question Paper Pattern in
Criminology and Forensic Science for Under Graduates
Davangere University**

Total Marks 60 (Theory)

Instructions:

- Answer Section A, B & C is compulsory.
- Section A, Answer any 5 question carries 2 marks each..... $2 \times 5 = 10$
- Section B, Answer any 4 Questions Carries 5 marks each ... $5 \times 4 = 20$
- Section C, Answer any 3 Questions Carries 10 marks each. $10 \times 3 = 30$

Section A

Six (6) Questions to be set and Five (5) have to answer..... $2 \times 5 = 10$

Question Number

1
2
3
4
5
6

Section B

Five (5) Questions to be set and Four (4) have to answer..... $5 \times 4 = 20$

Question Number

1
2
3
4
5

Section C

Four (4) Questions to be set and Three (3) have to answer..... $10 \times 3 = 30$

Question Number

1
2
3
4

Dr. NATARAJ
Member BOS

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Content of Practical Course DSC-3:

Credits: 02

Marks: 40+10=50

- Each Practical batch consisting of Max 10 Students
- Practical Examination batch Max 10 students
- Practical Examination duration 3Hrs
- Minimum 6 Practical's should be completed

List of Experiments to be conducted

1. Procedure and Process filing complaint to the Police Station
2. Scene of Crime Scene Documentation: rough sketch, final sketch, photography and videography (The Board resolved to delete this Practical because it is a repetition of Practical's held in Second Semester, DSCC-A2)
3. Crime Scene Investigation Methods (Murder, Burglary, Traffic Accident etc.)
4. Methods of Searching the Scene of Crime-out door crime scene
5. Methods of Searching the Scene of Crime-in door crime scene
6. Methods of Searching the Scene of Crime-mobile crime scene
7. Methods of Searching the Scene of Crime-Explosive crime scene
8. Reconstruction of Scene of Crime and report writing
9. Handling, Packing and forwarding of physical clues to experts
(Fingerprints on articles, Blood stains on articles, hair and fiber samples, bullets & Cartridge, Poisons.

Semester III
B.A./B.Sc. Criminology and Forensic Science
Title of Course: OE-3.1 Gender and Crime

Course Outcome:

- Understand the meaning, nature and scope of Gender equality and crime.
- Describe the criminological explanation of gender and crime and their challenges.
- Understanding the various patterns of gender related crimes and its prevention.
- Explain the different types of gender related crimes against children.

Number of Theory Credits	Number of Lecture hours/semester	Number of Practical credits	Number of practical hours/semester
03	42	---	---
Content of Theory course			42 Hrs
Unit – 1 Gender Equality			14
Chapter-1 Gender awareness in Criminology <ul style="list-style-type: none"> • Gender and crime: Meaning, nature and scope • Gender awareness in Criminology Chapter-2 Gender gap in crime <ul style="list-style-type: none"> • Gender equality: Meaning, definition • Gender equality and Crime Chapter-3 Cognitive capacities of crime <ul style="list-style-type: none"> • Cognitive capacities and crime • Situational pressures and gender 			
Unit – 2 Gender specific crimes and Criminological studies			14
Chapter-4 Criminological theories of gender and crime Chapter-5 Gender in Criminal Justice System <ul style="list-style-type: none"> • Crimes and Cultural Views • Legal system • Police practice • Court trials Chapter-6 Patterns of Crime <ul style="list-style-type: none"> • Meaning, definition and nature • Gendered pathways to offending 			
Unit -3 Women and Crime			14
Chapter-7 Women and Crime, Men and Crimes <ul style="list-style-type: none"> • Female patterns of offending Chapter-8 Women Criminality <ul style="list-style-type: none"> • Rising female criminality Chapter-9 Male Pattern Criminality Male patterns of offending Reasons for male criminality			
Unit- 4 Crimes against gender specific children			
Chapter-10 Crimes against children <ul style="list-style-type: none"> • Meaning, Definition, Nature and Scope • Harmful cycle of gender-based violence on children Chapter- 11 Social Impact of violence against children <ul style="list-style-type: none"> • Causes and impacts of gender-based violence against children Chapter-12 Types of Crimes against Children <ul style="list-style-type: none"> • Infanticides and feticides 			

<ul style="list-style-type: none"> • Child trafficking • Child pornography • Labour and street offences, etc. • Various procedural rules for protection of children 	
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SUGGESTED READINGS:

1. Fitz-Gibbon, K. & Walklate, S. (2018). Gender, Crime and Criminal Justice, Routledge, ISBN: 9781138656376
2. Mukharjee, S. K. & Scutt, J. A. (1981). Women and Crime, Routledge, ISBN: 9781138186569
3. Silvestri, M. & Crowther-Dowey, C. (2008). Gender and Crime (A Key Approach to Criminology), SAGE Publications
4. Britton, D. M. (2011). The Gender of Crime, Rowman & Littlefield
5. Evans, K & Jamieson, J. (2008). Gender and Crime: A Reader, Open University Press

JOURNAL REFERENCES

1. Child mal treatment-SAGE
2. International journal on child mal treatment-Springer
3. Women and Criminal Justice – Taylor and Francis
4. Feminist Criminology-SAGE
5. Violence and Gender

DIGITAL REFERENCES

1. Gender-Based Violence: A Global Threat | Save the Children
2. <https://www.open.edu/openlearncreate/mod/oucontent/view.php?id=53771&printable=1>
3. (PDF) Gender and Crime: Toward a Gendered Theory of Female Offending (researchgate.net)
4. <https://ijcst.journals.yorku.ca/index.php/ijcst/article/download/39737/35977>
5. Gender and Theories of Delinquency - Oxford Handbooks

Pedagogy: Lecture, Assignments, Interactive Sessions, ICT, Group Discussion

Formative Assessment 40 (Weightage in Marks includes: Written Tests, Activities/Assignment/Seminar/Presentation & Attendance)			
Assessment Occasion/type	C1	C2	Total Marks
Written Test (2)	10	10	20
Seminar/Presentation/Activity	10	---	10
Case work/Assignment/Field work/Project work etc.	---	10	10
Total	20	20	40

Dr. NATARAJ
Member BOS

Dr. Nagaraju. N
Coordinator

Professor Dr. Venkatarao Palati
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Dean of Arts Faculty

**Model Question Paper Pattern in
Criminology and Forensic Science for Under Graduates
Davangere University**

Total Marks 60 (Theory)

Instructions:

- Answer Section A, B & C is compulsory.
- Section A, Answer any 5 question carries 2 marks each..... $2 \times 5 = 10$
- Section B, Answer any 4 Questions Carries 5 marks each ... $5 \times 4 = 20$
- Section C, Answer any 3 Questions Carries 10 marks each. $10 \times 3 = 30$

Section A

Six (6) Questions to be set and Five (5) have to answer..... $2 \times 5 = 10$

Question Number

1
2
3
4
5
6

Section B

Five (5) Questions to be set and Four (4) have to answer..... $5 \times 4 = 20$

Question Number

1
2
3
4
5

Section C

Four (4) Questions to be set and Three (3) have to answer..... $10 \times 3 = 30$

Question Number

1
2
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Semester- III
B.A/B.Sc. Criminology and Forensic Science
Title of the course: OE-3.2 Crime Scene Investigation

Course Outcome:

- Understand the methods of securing, searching and documenting crime scenes.
- Capable to do the art of collecting, packaging and preserving different types of physical and trace evidence at crime scenes.
- Describe the legal importance of chain of custody.
- Understand the tools and techniques for analysis of different types of crime scene evidence.

Number of Theory Credits	Number of Lecture hours/semester	Number of Practical credits	Number of practical hours/semester
03	42	---	---
Content of Theory course			42 hrs
Unit – 1 Crime Scene Preliminaries			10.5 hrs
Chapter-1 Crime Scene and its importance. <ul style="list-style-type: none"> • Meaning and Types of crime scenes • indoor and outdoor, Mobile • Primary, secondary and tertiary. Chapter-2 Securing and isolating the crime scene. <ul style="list-style-type: none"> • Crime scene search methods. • Safety measures at crime scenes. Chapter-3 Legal Procedure at Crime Scene <ul style="list-style-type: none"> • Legal considerations at crime scenes. 			
Unit – 2 Crime Scene Documentation			10.5 hrs
Chapter-4 Crime Scene Documentation and its importance <ul style="list-style-type: none"> • Types of documentation of crime scenes Chapter-5 Crime Scene Recording <ul style="list-style-type: none"> • Photography. • Videography, Chapter-6 Sketching and Recording of Scene of Crime <ul style="list-style-type: none"> • Sketching • Recording notes. 			
Unit – 3 Crime Scene Coordination			10.5 hrs
Chapter-7 Duties of first responders at crime scenes. Chapter-8 Crime Scene Coordination between police personnel and forensic scientists at crime scenes. Chapter-9 The evaluation of 5Ws (who?, what?, when?, where?, why?) and 1H (how?).			
Unit -4 Crime Scene Evidence Management.			10.5 hrs
Chapter-10 Classification of crime scene evidence <ul style="list-style-type: none"> • Locard principle and Importance. • Physical evidence and • Trace evidence. Chapter- 11 Collection, labelling, sealing of evidence. <ul style="list-style-type: none"> • Hazardous evidence. • Preservation of evidence. Chapter- 12 Reconstructing Crime Scene <ul style="list-style-type: none"> • Chain of custody. • Reconstruction of crime scene. 			

SUGGESTED READINGS:

1. M. Byrd, Crime Scene Evidence: A Guide to the Recovery and Collection of Physical Evidence, CRC Press, Boca Raton (2001).
2. T.J. Gardener and T.M. Anderson, Criminal Evidence, 4th Ed., Wadsworth, Belmont (2001).
3. S.H. James and J.J. Nordby, Forensic Science: An Introduction to Scientific and Investigative Techniques, 2nd Edition, CRC Press, Boca Raton (2005).
4. W.J. Tilstone, M.L. Hastrup and C. Hald, Fisher's, Techniques of Crime Scene Investigation, CRC Press, Boca Raton (2013).

Pedagogy: Lecture, Assignments, Interactive Sessions, ICT, Group Discussion

Formative Assessment 40 (Weightage in Marks includes: Written Tests, Activities/Assignment/Seminar/Presentation & Attendance)			
Assessment Occasion/type	C1	C2	Total Marks
Written Test (2)	10	10	20
Seminar/Presentation/Activity	10	---	10
Case work/Assignment/Field work/Project work etc	---	10	10
Total	20	20	40

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**Model Question Paper Pattern in
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Total Marks 60 (Theory)

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- Section A, Answer any 5 question carries 2 marks each..... $2 \times 5 = 10$
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Section A

Six (6) Questions to be set and Five (5) have to answer..... $2 \times 5 = 10$

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Section B

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Section C

Four (4) Questions to be set and Three (3) have to answer..... $10 \times 3 = 30$

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Semester-III
B.A/B.Sc Criminology and Forensic Science

Title of the Course: SEC-2 Artificial Intelligence in Investigation

Course Outcome:

- **Understanding the Role and importance of Artificial Intelligence in Crime Investigation**
- **Explain the role of AI in Criminal Justice System**
- **Describing the application of AI in prevention & Detection of Crime**
- **Understanding various tool of AI in policing.**

Number of Theory Credits	Number of lecture hours/semester	Number of practical Credits	Number of practical hours/semester
2	28	-----	-----
Content of Theory Course 1			28Hrs
Unit-I: Introduction to Artificial Intelligence			14
Chapter 1: Artificial Intelligence: <ul style="list-style-type: none"> • Concept, Meaning and Definition • Development of AI and its importance Chapter 2: <ul style="list-style-type: none"> • Application of AI in Intelligence • Prevention of Crime through AI Chapter 3: Artificial Intelligence in Crime investigation <ul style="list-style-type: none"> • Criminal Justice System • Detection of Crime through AI • Application of AI in CJS 			
Unit-II: Introduction to Tools of AI in Policing			14
Chapter-4 Surveillance System <ul style="list-style-type: none"> • Meaning and Importance of Surveillance in Policing • CCTVs as a tool of AI Chapter-5 Types of Tools in Surveillance <ul style="list-style-type: none"> • Cameras as a tool of AI • FRS as a tool of AI • GPS & GIS as tool of AI Chapter 6: Access Control System and AI <ul style="list-style-type: none"> • AI Barriers • Biometric System • Access Card 			

References:

1. Alisha (2021) Use of ARTIFICIAL INTELLIGENCE in Criminal Justice System, First edition Bluerose Publishers Pvt. Ltd.
2. Dennis J. Baker, Paul H. Robinson (2020) Artificial Intelligence and the Law: Cybercrime and Criminal Liability, 1stEdn, Routledge Publications.
3. Elaine Rich (1991) Artificial Intelligence, 2ndEdn, Micgraw-Hill Publications.
4. Patterson W Dan (1990) Introduction to Artificial Intelligence and Expert Systems, Prentice-

Hall Publications.

5. Padhy N P (2005) Introduction to Artificial Intelligence and Intelligent Systems, Oxford Publication

Journals:

1. Thomas C. King, Nikita Aggarwal, Mariarosaria Taddeo & Luciano Floridi “*Artificial Intelligence crime: an interdisciplinary analysis of foreseeable threats and solutions*” Science and Engineering Ethics 26 (1):89-120 (2020)

Digital References:

1. https://www.researchgate.net/publication/331099286_Artificial_Intelligence_Crime_An_Interdisciplinary_Analysis_of_Foreseeable_Threats_and_Solutions
2. <https://www.researchgate.net>

Pedagogy: Lecture, Assignments, Interactive Sessions, ICT, Group Discussion

Formative Assessment 40 (Weightage in Marks includes: Written Tests, Activities/Assignment/Seminar/Presentation & Attendance)			
Assessment Occasion/type	C1	C2	Total Marks
Written Test (2)	05	05	10
Seminar/Presentation/Activity	05	---	05
Case work/Assignment/Field work/Project work etc	---	05	05
Total	10	10	20

Dr. NATARAJ
Member BOS

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Dean of Arts Faculty

**Model Question Paper Pattern in
Criminology and Forensic Science for Under Graduates
Davangere University**

Total Marks 60 (Theory)

Instructions:

- Answer Section A, B & C is compulsory.
- Section A, Answer any 5 question carries 2 marks each..... $2 \times 5 = 10$
- Section B, Answer any 4 Questions Carries 5 marks each ... $5 \times 4 = 20$
- Section C, Answer any 3 Questions Carries 10 marks each. $10 \times 3 = 30$

Section A

Six (6) Questions to be set and Five (5) have to answer..... $2 \times 5 = 10$

Question Number

1
2
3
4
5
6

Section B

Five (5) Questions to be set and Four (4) have to answer..... $5 \times 4 = 20$

Question Number

1
2
3
4
5

Section C

Four (4) Questions to be set and Three (3) have to answer..... $10 \times 3 = 30$

Question Number

1
2
3
4

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Semester IV
B.A/B.Sc. Criminology and Forensic Science
Title of the Course: DSC A4: Correctional Administration

Course Outcomes:

- Understand about the meaning, concept and scope of penology and Correctional Administration.
- Explain the theories and types of punishments in the past and present in India and abroad.
- Describing the prison as institution of correction, its types and the legal provisions
- Understanding the concepts of non-institutional treatments of prisoners.

Number of Theory Credits	Number of Lecture hours/semester	Number of Practical credits	Number of practical hours/semester
04	56	02	56
Content of Theory course			56 Hrs
Unit – 1 Introduction to Correctional Administration			14
Chapter-1 Penology and correctional administration <ul style="list-style-type: none"> • Penology – Definition, nature and scope • Correction – Definition, nature and scope Chapter-2 Punishment <ul style="list-style-type: none"> • Types of punishment. • Similarities and Differences between punishment and correction Chapter-3 Theories of Punishment <ul style="list-style-type: none"> • Deterrence theory • Retributive theory • Preventive theory • Reformation theory 			
Unit – 2 Prison system			14
Chapter-4 Prison and prison organization <ul style="list-style-type: none"> • Historical development of prison system. • Objectives of Imprisonment Chapter-5 Prison Systems in India <ul style="list-style-type: none"> • Types of prisons and correctional institutions in India. • Modernization of Prisons in India; Reformation & Rehabilitation approach in Prisons. Chapter-6 Prison reforms in India <ul style="list-style-type: none"> • History and evolution of prison legislations in India. • Recommendation of different committees on reformation system. • Prison act and prison manual 			
Unit – 3 Institutionalized treatment			14
Chapter-7 Corrections through Institutionalized treatment <ul style="list-style-type: none"> • Meaning and purpose • Types of institutions: Adult, women and children • Facilities provided in institutions. • Remission, temporary release and premature release Chapter-8 Legal provisions of prisoners <ul style="list-style-type: none"> • Legal Rights of prisoners • Constitutional provisions of prisoners Chapter-9 Nelson Mandela and others Rules for the treatment of prisoners			

Unit -4 Non Institutionalized treatment for prisoners	14
Chapter -10 Community based corrections <ul style="list-style-type: none"> • Probation: Concept, history and scope • Parole: Concept, history and scope Chapter-11 After care and Restorative Justice <ul style="list-style-type: none"> • After care services • Restitution and fine Chapter-12 Miscellaneous <ul style="list-style-type: none"> • Standard minimum rules for non-custodial measures(Tokyo rules) • Role of NGOs in reformation and rehabilitation 	

RECOMMENDED READINGS:

1. Edelston, C.D. & Wicks, R.I. (1977), An Introduction to Criminal Justice, McGraw Hill.
2. Krishna Mohan Mathur, (1994), Indian Police, Role and Challenges, Gyan Publishing House, New Delhi.
3. Bhattacharya S.K., (1986). Probation system in India, Manas Publications, New Delhi.
4. Brodie, S.R., (1976). Effectiveness of sentencing, Home office, London.
5. Paranjepe, N.V., (2002). Criminology and Penology, Central Law Publications, Allahabad.

JOURNAL REFERENCES

1. The Prison Journal-SAGE
2. International Journal of Prisoner Health
3. Journal Of Correctional Health Care

DIGITAL REFERENCES

1. <http://kamarajcollege.ac.in/Department/Criminology/II%20Year/003%20Core%205%20-%20Penology%20&%20Correctional%20Administration%20-%20III%20Sem.pdf>.
2. <https://www.scribd.com/document/408782187/Notes-on-Correctional-Administration-2017>.
3. https://www.academia.edu/34249101/Notes_on_Correctional_Administration.
4. <https://bprd.nic.in/WriteReadData/userfiles/file/5261991522-Part%20I.pdf>.

Pedagogy: Lecture, Assignments, Interactive Sessions, ICT, Group Discussion

Formative Assessment 40 (Weightage in Marks includes: Written Tests, Activities/Assignment/Seminar/Presentation & Attendance)			
Assessment Occasion/type	C1	C2	Total Marks
Written Test (2)	10	10	20
Seminar/Presentation/Activity	10	---	10
Case work/Assignment/Field work/Project work etc	---	10	10
Total	20	20	40

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Total Marks 60 (Theory)

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- Section C, Answer any 3 Questions Carries 10 marks each. $10 \times 3 = 30$

Section A

Six (6) Questions to be set and Five (5) have to answer..... $2 \times 5 = 10$

Question Number

1
2
3
4
5
6

Section B

Five (5) Questions to be set and Four (4) have to answer..... $5 \times 4 = 20$

Question Number

1
2
3
4
5

Section C

Four (4) Questions to be set and Three (3) have to answer..... $10 \times 3 = 30$

Question Number

1
2
3
4

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Content of Practical Course DSC-A4:

Credits: 02 Marks: 40+10=50

List of Field Based Practicals to be conducted

1. To visit and study the overview of Prison as a correctional institution
2. To visit and study the reformatory measures, training and rehabilitation process.
3. To visit and study various facilities provided in Prison
4. To visit and study the non-institutional treatment programmes
5. To visit and study the functions and powers of JJB and CWC
6. To visit and study the functions and powers of Probation
7. To visit and study the aftercare services and other NGOs working toward reformation, rehabilitation and resocialization of inmates.

Semester-IV

B.A/B.Sc. Criminology and Forensic Science Title of the course: O.E 4.1 Child Protection Laws

Course Outcomes:

- Understand the legal and constitutional definition of child and issues and problems of their development stage.
- Describe the role of various social institutions in the child protection and its importance.
- Understanding the powers and functions of Juvenile Justice Board and Child Welfare Committees mentioned under Juvenile Justice Board.
- Explain the crime against children and related laws and guidelines.

Number of Theory Credits	Number of Lecture hours/semester	Number of Practical credits	Number of practical hours/semester
03	42	--	---
Content of Theory course			42hrs
Unit – 1 Introduction to Child, their Protection and Laws			10.5 hrs
Chapter-1 Child: Meaning and Definition <ul style="list-style-type: none">• Legal and constitutional definitions of child• Developmental stages of childhood• Theories in child development Chapter-2 Factors determining Well Being and Development Of Children <ul style="list-style-type: none">• Adult-child relationships• Protection, care and support Chapter-3 Development and Well being <ul style="list-style-type: none">• Factors affecting development• Well-being of children			
Unit – 2 Child Protection			10.5 hrs
Chapter-4 Protection of Children <ul style="list-style-type: none">• Meaning, definition, nature and scope• Child protection and Role of: family, school, society, NGOs and government. Chapter-5 Legislations, Policies and Programmes <ul style="list-style-type: none">• Constitutional provisions for children• UNCRC, other relevant conventions Chapter-6 Government policies in child protection <ul style="list-style-type: none">• National policies• State Policies			
Unit – 3 Juvenile Justice System			10.5 hrs
Chapter-7 Juvenile Justice Act <ul style="list-style-type: none">• Salient features of J.J. Act• Procedures while dealing with children in conflict with law• Procedures while dealing with children in need care and protection Chapter-8 Commissions for Protection Of Child Rights Act 2005 <ul style="list-style-type: none">• Role, functions and powers of national commission Chapter-9 State commission in protection of child rights <ul style="list-style-type: none">• Salient features of integrated child protection scheme			

Unit -4 Crime against children	10.5 hrs
Chapter -10 Protection of Crime against children <ul style="list-style-type: none"> • Crime against children in family, schools and public places • Child labour and street offences • Child trafficking, prostitution and pornography etc Chapter-11 Special Laws for Crime Against Children <ul style="list-style-type: none"> • Prohibition of child marriage act • Protection of children from sexual offences • Child labour (prohibition and prevention) Act Chapter-12 International Perspective on Juvenile Justice <ul style="list-style-type: none"> • United Nations Standard Minimum Rules for Juvenile Justice (Beijing Rules) • UN Riyadh Guidelines etc. 	

SUGGESTED READINGS:

1. Chaudhary, N. (2004) Listening to Culture: Constructing Reality from Everyday Talk, New Delhi: Sage.
2. Bakshi, I. (1999) Understanding Children and their Problems, Mumbai: Vakils, Feffer and Simons Ltd. Empson, J. M.,
3. Nabuzoka D. (2003) A typical Child Development in Context, New York: Palgrave Macmillan
- Butler, I. and Roberts, G. (2004) Social Work with Children and Families: Getting into Practice, Second Edition, London: Jessica Kingsley Publishers.
4. Holt, J. (1974) Escape from Childhood, Bhopal: Eklavya - Institute for Educational Research and Innovative Action with permission from Hold Associates, Boston
5. Chandru, K., Geetha, R. & Thanikachalam, C. (1998) Child Law in India, Chennai: Indian Council for Child Welfare.
6. Verhellen, E. (2006) Convention on the Rights of the Child, London: Garant Publishers.
7. Joachim, T. (2004) Promoting Rights Based Approaches: Experiences and Ideas from Asia and the Pacific, Sweden: Save the Children

JOURNAL REFERENCES

1. Child abuse and neglect-Elsevier
2. Child welfare journal-CWLA
3. Child mal treatment-SAGE
4. International journal on child mal treatment-Springer

DIGITAL REFERENCES

1. <https://legalstudymaterial.com/child-protection-law-policy/>
2. <https://www.unicef.org/media/63086/file/UNICEF-Teaching-and-learning-about-child-rights.pdf>
3. <https://www.routledge.com/Childrens-Rights-and-the-Law-An-Introduction/Barnett/p/book/9781138321250>
4. <https://www.open.edu/openlearncreate/mod/oucontent/view.php?id=53771&printable=1>

Pedagogy: Lecture, Assignments, Interactive Sessions, ICT, Group Discussion

Formative Assessment 40 (Weightage in Marks includes: Written Tests, Activities/Assignment/Seminar/Presentation & Attendance)			
Assessment Occasion/type	C1	C2	Total Marks
Written Test (2)	10	10	20
Seminar/Presentation/Activity	10	---	10
Case work/Assignment/Field work/Project work etc	---	10	10
Total	20	20	40

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Section A

Six (6) Questions to be set and Five (5) have to answer..... $2 \times 5 = 10$

Question Number

1
2
3
4
5
6

Section B

Five (5) Questions to be set and Four (4) have to answer..... $5 \times 4 = 20$

Question Number

1
2
3
4
5

Section C

Four (4) Questions to be set and Three (3) have to answer..... $10 \times 3 = 30$

Question Number

1
2
3
4

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Semester-IV
B.A/B.Sc. Criminology and Forensic Science
Title of the Course: OE-4.2 Cyber Crime and Cyber Law

Course Outcome

- Understand the meaning and fundamentals of computers, networking and its operating systems.
- Describe the different types of cybercrimes, cyber security in dealing with its detection.
- Understand the various types of cyber forensic tools in identifying and examination of digital evidences
- Explain the laws related to cybercrimes, its prevention and detection of cybercrimes

Number of Theory Credits	Number of Lecture hours/semester	Number of Practical credits	Number of practical hours/semester
03	42		
Content of Theory course			42hrs
Unit – 1 Introduction to Computer and networking			10.5 hrs
Chapter-1 Fundamentals of Computers and operating system <ul style="list-style-type: none"> • Computers & Networking – Basics of computers, its Definitions and classification Chapter-2 System Software <ul style="list-style-type: none"> • Operating systems- Operating system and Function, Batch, Interactive, Time-sharing and Real-Time systems, CPU Scheduling – Scheduling concept, algorithms and Performance criteria, memory management. File sharing, File System Implementation. Overview of Linux Operating System. Chapter-3 Basics of Networking <ul style="list-style-type: none"> • Network Components - Server, client, routers, Shared Printers and other peripherals, Network Interface Card. • Network Devices – hubs, Switches, routers, repeaters. OSI model and TCP/IP model. Basic HTTP, World Wide Web, Web Browsers, Web Servers, Domain Names, URL and DNS. • IP addressing – types and classes. Types of Networks – LAN, MAN and WAN. Working of Wi-Fi and Bluetooth. Overview of Cloud computing. 			
Unit – 2 Cyber-crime Introduction			10.5 hrs
Chapter-4 Cyber Crime <ul style="list-style-type: none"> • Cybercrime- meaning, definition and its classification • Cybercrimes against Individuals – E-mail spoofing and online frauds, Phishing and its forms, Spamming, Cyber-defamation, Cyber talking, Cyber Bullying and harassment, Computer Sabotage, Pornography, Password Sniffing. Etc. Chapter-5 Cybercrime against Weaker Section <ul style="list-style-type: none"> • Cyber Crimes against Women and Children. Chapter-6 Cybercrime against organization – Unauthorized access of computer, Password Sniffing, Denial-of-service (DOS) attack, Backdoors and Malwares and its types, E-mail Bombing, Salami Attack, Software Piracy, Industrial Espionage, Intruder attacks.			
Unit – 3 Cyber Security and Cyber Forensics			10.5 hrs
Chapter-7 Cyber Security <ul style="list-style-type: none"> • Risk evaluation – Identification of Threats, Vulnerabilities 			

<p>and Risk.</p> <ul style="list-style-type: none"> • Risk Management, Risk Assessment and Analysis. • Information Classification, Policies, Standards, Procedure and Guidelines. • Security Frameworks, Layers of Security. • Authorization and Access Controls- Models, Methods and Types of Access Control. <p>Chapter-8 Digital Forensics: Meaning, Importance and Tools</p> <ul style="list-style-type: none"> • Types of Computer Forensics Tools and its needs <p>Chapter-9 Computer Forensics Software Tools. UNIX/Linux Forensics Tools, Other GUI Forensics Tools, Computer Forensics Hardware Tools, Forensic Workstations</p>	
Unit -4 IT Act and other Laws for Cyber-crime	10.5 hrs
<p>Chapter-10 IT Act 2000</p> <ul style="list-style-type: none"> • Objectives, Applicability, Non-applicability, Definitions, Amendments and Limitations. • Various cyber-crimes under Sections 43 (a) to (j), 43A, 65, 66, 66A to 66F, 67, 67A, 67B, 70, 70A, 70B, 80 etc. along with respective penalties, punishment and fines, Penal Provisions. <p>Chapter-11 Indian Evidence Act</p> <ul style="list-style-type: none"> • Classification – civil, criminal cases. Essential elements of criminal law • Cross examination and re-examination of witnesses. <p>Chapter-12 Provisions under Criminal Procedure Code</p> <ul style="list-style-type: none"> • Sections 32, 45, 46, 47, 57, 58, 60, 73, 135, 136, 137, 138, 141. <p>Section 293 in the code of criminal procedure. Secondary Evidence Section 65-B.</p>	

SUGGESTED READINGS:

1. John P. Hayes; "Computer Architecture and Organization", McGraw-Hill, 1988.
2. V. Rajaraman and Niharika Adabala; "Fundamentals of Computers", 6th Edition, PHI Learning Pvt. Ltd., 2015.
3. Anita Goel; "Computer Fundamentals", Pearson Publications, 2010.
4. Behrouz. A Forouzan; "Data Communication and Networking", 4th Edition, TMH, 2000.
5. Andrew S.Tanenbaum; "Modern Operating Systems", 2nd edition, Addison Wesley, 2001.
6. Gary Nutt; "Operating Systems: A Modern Perspective", 2nd edition, Pearson Education, 2001.
7. William Stallings; "Operating Systems: Internals and Design Principles", 5th Edition, Prentice Hall, 2005.
8. Karnika Seth; "Computers, Internet and New Technology Laws", Lexis Nexis Buttersworth Wadhwa, 2012.
9. Vikas Vashishth.; "Law and practice of intellectual property in India"
10. Jonathan Rosenoer; "Cyber Law: The Law of Internet", Springer- Verlag, New York, 1997.
11. Sreenivasulu N.S; "Law Relating to Intellectual Property", Patridge Publishing, 2013
12. Pavan Duggal; "Cyber Law – The Indian Perspective", Saakshar Law Publications.
13. Harish Chander; "Cyber Laws and IT Protection", PHI Learning Pvt. Ltd, 2012.

JOURNAL AND SPECIAL ACTS REFERENCES

1. The Copyright Act, 1957
2. The Patent Act, 1970
3. The Indian Evidence Act, 1872

DIGITAL REFERENCES

1. <https://mrcet.com/pdf/Lab%20Manuals/IT/R15A0533%20CF.pdf>.
2. <https://annamalaiuniversity.ac.in/studport/download/engg/it/resources/Cyber%20Forensics.pdf>
3. <https://www.ifsedu.in/cyber-forensics-cyber-crimes-cyber-security-cyber-law/>
4. <https://lawbhoomi.com/cyber-law-notes/>

Pedagogy: Lecture, Assignments, Interactive Sessions, ICT, Group Discussion

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Assessment Occasion/type	C1	C2	Total Marks
Written Test (2)	10	10	20
Seminar/Presentation/Activity	10	---	10
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Total	20	20	40

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Section A

Six (6) Questions to be set and Five (5) have to answer..... $2 \times 5 = 10$

Question Number

1
2
3
4
5
6

Section B

Five (5) Questions to be set and Four (4) have to answer..... $5 \times 4 = 20$

Question Number

1
2
3
4
5

Section C

Four (4) Questions to be set and Three (3) have to answer..... $10 \times 3 = 30$

Question Number

1
2
3
4


Registrar
Davangere University
Shivagangotri, Davangere

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