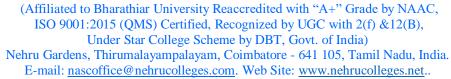


## NEHRU ARTS AND SCIENCE COLLEGE

(AUTONOMOUS)





### **REGULATIONS, CURRICULUM & SYLLABUS**

### **B. Sc. FORENSIC SCIENCE**

Semester I to VI

**Effective from 2023 – 2024** 

# NEHRU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

#### REGULATIONS FOR UNDERGRADUATE DEGREE COURSES

Choice Based Credit System blended with Outcome Based Education Regulations with effect from the Academic Year 2023-2024

#### **Definition**

a) Programme – A course of study leading to the award of a degree in a discipline.

(E.g.: B. Sc. / B. Com.)

- b) Branch Discipline of study (e.g. B.Sc. Computer Science)
- c) Curriculum The various courses (subjects) a student must study in a particular branch.
- d) Course The Theory & Practical subject offered under each curriculum.
- e) Credit A unit of measurement based on the duration of the contact hours, content and quality of the subject matter.

#### 1. UG Curriculum

The UG Curriculum follows CBCS pattern and the medium of instruction is English.

#### 2. Eligibility for Admission to the Course

Candidates for admission to the first year of the UG degree programmes are required to **have passed the higher secondary examination** (Academic or Vocational) conducted by the Govt. of Tamil Nadu in the relevant subjects or other examinations accepted as equivalent thereto by the Parent University, subject to such other conditions as may be prescribed thereof.

#### 3. Duration of the Programme

The UG programme will comprise six semesters with two semesters per academic year, extending over a total duration of three years. Examination shall be conducted at the end of every semester for the respective courses. Each semester has 90 instructional days consisting of 5 teaching hours per working day. Thus, each semester has 450 teaching hours and the whole programme has 2700 teaching hours.

#### 4. Choice Based Credit System (CBCS)

All Undergraduate Programmes offered by the University shall be under Choice Based Credit System (CBCS). Choice based credit system is introduced with the aim of offering flexibility in the choice of courses to the students.

#### **Objectives of the Choice Based Credit System**

- ➤ To facilitate the students to have greater flexibility in their choice of courses.
- ➤ To widen the spectrum of knowledge of students by means of Core, Allied, Project / Electives, Value Education, Environmental Studies and Skill Based Subjects.
- > To revamp the curriculum which enables to impart entrepreneurial skills and placement potentials qualities.
- ➤ To incorporate need based knowledge in tune with the location and neighborhood of the Institution.
- > To allocate credit points to each paper of the study based on the weightage of the contact hours, content and quality.
- > To extend opportunities to fast learners in order to earn additional credit from advanced as well as additional courses.
- > To maintain the total credit points of each programme on par with international standards.

#### 5. Outcome Based Education (OBE)

OBE is an **educational** theory that bases each part of an **educational** system around goals (**outcomes**). By the end of the **educational** experience, each student should have achieved the goal.

#### Objectives of Outcome based curriculum

- > The programme outcomes and Programme specific outcomes are clearly identified and unambiguously specified regarding the content, context and competence.
- ➤ The expected outcome should be defined by setting bench marks for each level of the programme. Benchmark should tackle and define specifically, the goals of the curriculum and verify ways to access whether the students have reached these goals at the level of study;
- ➤ OBE is driven by assessments that focus on well defined learning outcomes and not by other factors such as what is taught, the duration taken by the student to achieve the outcomes or which path the students take to achieve their targets. In OBE, assessment techniques must be with clear description of expected performance.

#### **Definitions**

**Outcome:** An outcome of an educational Programme is what the student should be able to do at the end of a Programme / Course / Instructional Unit.

#### **Levels of Outcomes**

- **Programme Outcomes:** POs are statements that describe what the students graduating from any of the educational Programmes should be able to do.
- ➤ **Programme Specific Outcomes:** PSOs are statements that describe what the graduates of a specific educational Programme should be able to do.
- **Course Outcomes:** COs are statements that describe what students should be able to do at the end of a course

**Learning Outcomes:** It describes levels of achievement that can be attained across the domains of learning. Here **K1** representing Remember; **K2** – Understanding; **K3** – Apply; **K4** – Analyze; **K5** – Evaluate, **K6** – Create are used to measure the levels of achievement in learning.

#### 6. Course of Study

The Course of Study for the UG degree courses of all branches shall consist of the following:

**6.1. Part I: Language:** Tamil or any one of the modern / Classical languages i.e. Malayalam, French and Hindi.

It is absolutely obligatory for all the UG students to study a language under part I. A student can select and study any one of the languages offered under part I. The syllabus drafted would enable the students to communicate with the ease and effectiveness in that language. It shall be offered during the Semesters I to IV with one examination at the end of each semester.

#### **6.2. Part II: Language:** English

The study of English has been made mandatory for all UG students under part II. English being the window to the outer world in the context of the globalization scenario, the contents of the syllabus is tailored in a fashion suitable for imparting the classical and the modern facets of the language and literature, besides conferring a mastery of fluency and command over the language, providing a clout to compete for employment opportunities. The subject shall be offered during the Semesters I to IV with one examination at the end of each semester.

#### 6.3. Part III: Core Subjects, Allied Subjects and Project or Elective Courses:

- 1) Core Subjects: Each programme has a group of Core courses arranged semester wise. The syllabi of the core courses will enlighten the students in the acquisition of the basic concepts of their respective disciplines, besides getting focused on to the recent trends. The core courses will span over six semesters and examination shall be conducted in the core subjects at the end of every semester.
- 2) Allied Subjects: In all disciplines, the UG students must study Allied courses along with the core courses, which would supplement, suit and support the major course of study. The Allied Subjects is to be studied during the first four semesters of the UG programmes and examination shall be conducted at the end of every semester.
- 3) **Project , Internships and Electives with three Courses :** In all disciplines, the UG student shall undergo a Project and Internships (if any) and he / she must study three Elective Courses.

Three Elective courses are to be offered one in the V semester and two in the VI Semester. Elective subjects are to be selected from the list of electives prescribed by the concerned Board of Studies during the fifth and Sixth Semester along with the Core Subjects.

A student shall take up a project work in addition to his elective subjects. The report of the study should be submitted at the end of course duly certified by the supervisor and forwarded by the Head of the Department / Principal of the College. The Head of the Department of the programme concerned shall assign a project supervisor, who in turn shall assign the topic and monitor the project work of the student.

A student shall complete Internship (if any) as per the recommendations of BoS concerned.

#### 6.4. Part IV

- 1. a) Those who have not studied Tamil up to XII std and taken a Non-Tamil language under Part-I shall take Tamil Comprising of two Courses. The course content of which shall be equivalent to that prescribed for the 6<sup>th</sup> Standard by the Board of Secondary Education and they shall be offered in the third and fourth semesters.
  - **b)** Those who have studied Tamil up to XII std and taken a Non-Tamil language under Part-I shall take Advanced Tamil comprising of two Courses in the third and fourth semesters.

(OR)

- c) Others who do not come under the above a + b categories can choose the following Non-major electives (NME) comprising of two courses with 2 credits each (4 credits) in the third and fourth semesters.
  - 1) Consumer Affairs / Gender Sensitization / Women's Rights (**III semester**.)
  - 2) General Awareness (**IV semester**.)

**Note:** The assessment for the category in Part IV – 1 b and 1 c subjects shall be through End Semester examination (ESE) for the total marks prescribed. There shall be no Continuous Internal Assessment (CIA).

- 2. Skill Based Subjects: For UG degree, four skill based subjects are to be offered one each in III, IV, V and VI Semesters based on the skill based courses recommended in Naan Muthalvan scheme of Govt. of Tamilnadu. The examination shall be conducted in the skill based subjects at the end of the semesters where they are offered.
- 3. Ability Enhancement Compulsory Course Human Rights and Constitution of India:

It is a course to impart the knowledge about the basic Human rights, Classification of human rights, Human Rights Commission and Constitution of India. The total mark is 50 for 2 credits. One Internal Examination shall be conducted for 25 marks in the II semester during CIA III and there is no ESE. The learning outcomes are further measured by various assessment criteria for 25 marks by the course teacher concerned.

- **4. Ability Enhancement Compulsory Course Environmental Studies :** It is a course on Environmental Science which underlines the importance of environment apart from sensitizing students to the dimensions of Environmental problems. The total mark is 50 for 2 credits. One Internal Examination shall be conducted for 25 marks in I semester during CIA III and there is no ESE. The learning outcomes are further measured by various assessment criteria for 25 marks by the course teacher concerned.
- 5. Human Values and Yoga Practice: It is a course to inculcate human values among students to develop physical, mental, social and spiritual health which will enhance personality of the students and also improve the institutional climate in the campus. Human Values and Yoga Practice is offered during Semesters I and II with one hour of Yoga and one hour of Human values to be handled alternatively in a week. This course carries a total of 50 marks comprising 25 marks of Internal Practical Assessment for Yoga and 25 marks of written Examination for Human values during CIA III of Semester II.

- 6. Skill Based Open Elective Courses (Extra Departmental Courses): Any student studying any programme can do course except the course offered by his / her Department. All the UG programmes shall offer two skill based courses as Extra department Courses, during semester III with 2 credits each. The students can choose one among the courses offered by other departments. The examination will be conducted at the end of the semester. There shall be no continuous Internal Assessment (CIA).
- 7. Value Based Open Elective Courses (Intra School Courses): During Semester IV, list of Open Elective Courses are offered to Students. These Courses are value based and help to inculcate the values and positive attitude among the Students. Each School will offer a list of courses and the Students shall choose any one open Elective Course they prefer and appear for the Examination to earn 2 mandatory credits. The examination will be conducted at the end of the Semester. There shall be no continuous Internal Assessment (CIA). However the NCC Cadets will appear for theory paper in NCC to earn these credits.
- **6.5. Part V: Extension Activities:** Every student shall participate compulsorily for period of not less than two years (4 semesters) in any one of the programmes. (NSS / Sports and Games / YRC / RRC)

Each student must choose any one of the courses offered during the first four semesters. The object of the slot is to build- up the ethics, awareness and involvement in social service, acquisition of knowledge and training in discipline leading to national integration and patriotism, and feeling fit and fine through participation in games and athletics.

The student's performance shall be examined by the staff in-charge of extension activities along with the Head of the respective departments and a senior member of the Department on the following parameters.

- ➤ 20% of marks for Regularity of attendance
- ➤ 60% of marks for Active Participation in classes / camps / games / special camps / programmes in the College / District / State / University activities.
- ➤ 10% of marks for Exemplary Awards / Certificates / Prizes.
- ➤ 10% of marks for other Social components such as Blood Donations, Fine Arts, etc.

The grades will be awarded at the end of the Fourth Semester. The mark sheet shall carry the gradation relevant to the marks awarded to the candidates. The marks shall be sent to the Controller of Examinations before the commencement of the final semester examinations.

**Table 1: Grades for Extension Activity** 

Range of Marks	Grade Point	Letter Grade	Description
90 – 100	9.0 - 10.0	О	OUTSTANDING
80 – 89	8.0 - 8.9	D+	EXCELLENT
75 – 79	7.5 - 7.9	D	DISTINCTION
70 – 74	7.0 - 7.4	A+	VERY GOOD
60 – 69	6.0 - 6.9	A	GOOD
50 – 59	5.0 - 5.9	В	AVERAGE
40-49	4.0-4.9	С	SATISFACTORY
00-39	0.0	U	RE-APPEAR
ABSENT	0.0	AAA	ABSENT

This grading shall be incorporated in the mark sheet to be issued at the end of the semester. (Handicapped students who are unable to participate in any of the above activities shall be required to take a test in the theoretical aspects of any one of the above fields and be graded and certified accordingly)

#### 7. Additional Credit Course

Students are given the opportunity to undertake optional papers, additional to their compulsory papers, in order to gain additional credit that would boost their grades. These are not mandatory. Students can earn to a maximum of 10 credits.

**Table 2: Regulations for Additional Credits** 

S. No.	Subject	Credit / course	Total credits
1	Presentation / Publication of Research papers in International Conferences / Journals.	1	1
2	Completion of Diploma / Certificate Courses	1	1
3	Self Study Papers	1	2
4	MOOC Courses prescribed by the Departments	1	2
5	Achievements - Sports / Social Activities / Co curricular / Extracurricular Activities at University / District / State / National / International levels	1	1
6	Swachh Bharath Summer Internship Programme	2	2
7	Visits Abroad for Participation in International Academic events	1	1
		Total	10

**Rules:** The Students can earn additional credits only if they complete the above during the course period (II to V Sem.) and based on the following criteria. Proof of Completion must be submitted to the Office of Controller of Examinations to award additional credits.

- 1. Students can earn an additional credit if they present / publish research papers in International conferences / reputed Journals
- 2. Students can complete Diploma / Certificate Courses for a minimum of 30 hrs (II to V Sem. only) from reputed centres and the same certificate shall be produced to earn a credit. They shall be guided by the Department if needed.
- **3.** Students can earn one credit, if they complete One Self Study Paper prescribed by the Department. The Departments shall offer two Self Study Papers.
- **4.** Students can earn one Credit, if they complete any one MOOC courses prescribed by the Department. Students shall earn a maximum of 2 Additional Credits by completing 2 online courses.
- **5.** Award Winners in Sports / Social Activities / Co curricular / Extra Curricular Activities at University / District / State / National / International levels can earn one Extra Credit by producing the Certificate.
- **6.** As per the direction of Ministry of Human Resource Development, Swachh Bharath Summer Internship Programme is introduced to the students as an optional paper. Students interested to join the internship programme are required to register and report the activities conducted during the internship period on the website <a href="https://sbsi.mygov.in">https://sbsi.mygov.in</a>. They shall gain 2 credits if they produce Swachh Bharath Internship Certificate provided by MHRD on completion of their internship.
- **7. Extra Credit for NCC Cadets**: NCC Cadets shall gain Extra credits as mandated by UGC and Bharathiar University apart from 2 credits to be added for Part V-Extension Activity during Semester VI. The regulations for the Extra credits shall be communicated to the Cadets through the NCC Officer of the College.

#### **Regulations for Awarding credits to NCC Cadets**

Compaton	Credits	Allocated	Remarks	
Semester	Camp	Theory	Kemarks	
III	2		Credits if 1st camp merged with 3 <sup>rd</sup> Semester	
IV	2		Under Value based Open Elective course ( Mandatory credit)	
V	2		Credits if 2 <sup>nd</sup> camp merged with 5 <sup>th</sup> Semester	
Total	6 credits			

#### **8. Value Added Course**

Each Department shall conduct a Value Added Course to their students during III and IV Semesters for 50 to 60 hours. The MoU with the Industry shall be signed and the Classes shall be conducted without affecting the regular class hours. The Examination and the Valuation shall be conducted by the Industry. The HoD of concerned department shall forward the marks to the Examination section during the end of IV semester and the Grade shall be awarded by the CoE. This is based on the Naan Muthalvan scheme of Govt. of Tamilnadu.

#### 9. Scheme of Examination

Table 3: Summary: CBCS for Undergraduate programmes with language for Four Semesters

Components of Study	No. of Subjects	Credit per Subject #	Total Credits	Marks	Total Marks
Part-I: Tamil / Other Languages	2 + 2 = 4	3	12	75	300
Part-II : English	2 + 2 = 4	3	12	75	300
Part-III					
Core subjects	14 -18	2/3/4	64-66	50 / 75 / 100	
Allied subjects	4-6	2/3/4	14 -16	50 / 75 / 100	2300
Electives	3	4	12	100	
Part-IV 1. (a) Those who have not studied Tamil up to XII std. and taken a non-Tamil language under part-I shall take basic Tamil comprising of two courses(level will be at 6 <sup>th</sup> std.) (b) Those who have studied Tamil up to XII std and taken a non –Tamil language under part-I shall take Advance Tamil comprising of two courses. I others who do not come under a + b can choose non-major elective comprising of two courses.(NME)	2	2	4	50	100
2. Skill based subjects	4	3	12	75	300
3. Human Rights and Constitution of India	1	2	2	50	50
4. Environmental Studies	1	2	2	50	50
5. Human Values and Yoga Practice	1	2	2	50	50

Additional Credits	II – V Semeste		ers	10 credit	ts
		Total	144		3600
Part V: Extension activities	1	2	2	50	50
8.Open Elective Courses	1	2	2	50	50
7. EDC (Extra Departmental Course)	1	2	2	50	50
6. Value Added Course	1	-	-	-	Grade

- No CIA marks for Additional Credit
- No CIA Tests or ESE for Extension Activities.
- For Value added course, Examination shall be conducted by the Industry for 100 marks for a duration of 3 hours.

#### 10. Requirement to appear for the Examinations

#### Attendance Requirements for the Students appearing for ESE

- The guidelines of attendance requirement issued by Bharathiar University are adopted by the College. Attendance shall be considered semester- wise (not annually).
- A candidate shall be permitted to appear for the Semester Examinations in any semester, if
  he / she secures not less than 75% of attendance in the total number of working days during
  the semester and if his / her progress has been satisfactory, and his / her conduct has been
  satisfactory.
- Those who have obtained below 75% and above 65% of attendance shall pay condonation fee and shall write the examination in the same semester with due permission from the Principal.
- Those who have below 65% and above 50% of attendance are not eligible to write the examination in current semester subjects but are permitted to continue their studies in the next semester provided that this is the first time that the candidate earned attendance between 50% and 65%. Else the candidates have to discontinue the course and re-join in the same semester subjects in the next year with proper approval of the Principal. However, the candidates are eligible to write arrear subjects if any.
- Those who have below 50% of attendance have to redo the semester.

#### 11. Restrictions to appear for the examinations

- a) Any candidate having arrear paper(s) shall have the option to appear in any arrear paper along with the regular semester papers.
- b) Candidates who fail in any of the course of Part I, II, III, IV & V of UG degree examinations shall complete the course concerned within 5 years from the date of admission to the said programme, and if they fail to do so, they shall take the examination in the texts / revised syllabus prescribed for the immediate next batch of candidates. If there is no change in the texts / syllabus they shall appear for the examination in that course with the syllabus in vogue until there is a change in the texts or syllabus. In the event of removal of that course consequent to change of regulation and / or curriculum after 5 year period, the candidates shall have to take up an equivalent course in the revised syllabus as suggested by the Chairman of the concerned board of studies and fulfill the requirements as per the regulations for the award of the degree.

#### 12. Medium of Instruction and Examinations

The Medium of instruction and Examinations for the courses of Part I, II & IV shall be in the language concerned. For part III courses, the medium of instruction and the medium of Examination are English.

#### 13. Distribution of Marks

The following are the distribution of marks for Examination & Evaluation pattern:

Table 4: Distribution of Marks between End Semester Exam (Theory) and Internal Assessment is 75: 25

<b></b>	E	External	Internal	Overall Passing Minimum
Total Marks	Max. Marks	Passing Minimum for External alone	Max. Marks	for Total Marks (Internal + External)
100	75	30	25	40
75	55	22	20	30
50	40	16	10	20

Table 5: The following are the Distribution of marks for the Continuous Internal Assessment in the theory papers of UG programmes

S. No.	For Theory - UG courses	For Theory - UG courses Distribution of Marks				
01.	CIA I	5	4	2		
02.	CIA II (Online Test)	5	4	2		
03.	CIA III	6	5	4		
04.	OBE Evaluation – Tool 01	3	2	1		
05.	OBE Evaluation – Tool 02	3	2	1		
06.	OBE Evaluation – Tool 03 3 3					
	TOTAL MARKS	AL MARKS 25 20 1				

#### 14. Continuous Internal Assessment (CIA)

Three CIA's shall be conducted at regular Intervals. CIA I shall be a 2 hours written test for a maximum of 50 marks and CIA II shall be conducted as Computer Based test (MCQ's) for 50 marks. CIA III shall be conducted as Model Examination for ESE.

#### 15. OBE Evaluation - Assignment / Seminar / Role play, etc.

Three OBE Assessment parameters are decided for each course to evaluate the achievement of course outcomes which shall be assessed by the concerned course teacher. The marks allotted to this component will be awarded based on the performance of the candidate. The Rubrics for awarding the marks shall be maintained by the Course Teacher concerned.

Table 6 : Distribution of Marks between End Semester Exam (Practical) and Internal Assessment is 60:40.

	E	xternal	Internal	Overall Passing Minimum
Total Marks	Max. Marks	Passing Minimum for External alone	Max. Marks	for total marks (Internal + External)
100	60	24	40	40
75	45	18	30	30
50	30	12	20	20

Table 7 : Distribution of marks for the Continuous Internal Assessment in UG practical courses

S. No.	For - UG practical Courses	Dist	tribution of I	Marks
01.	Laboratory Performance - Assessment Tool 01*	5 4 3		
02.	2. Laboratory Performance - Assessment Tool 02* 5 4			
03.	Laboratory Performance - Assessment Tool 03*	4	3	
04.	Test 1 : During Mid semester	10	7	4
05.	Test 2: As model test at the end of the semester	10	7	4
06.	Observation Note Book	5	4	3
	Total Marks	40	30	20

<sup>\*</sup> For measuring the Course Outcomes

#### 16. Observation Notebook & Regularity

The marks allotted for observation notebook & regularity are awarded based on the performance of students in writing procedure, results of the practical done during every practical class, regularity in attending practical class, which will be accounted based on the attendance maintained separately for practical class, and punctuality in the submission of observation notebook.

Table 8: Distribution of marks for the External Assessment in UG Practical courses

S. No.	For - UG practical courses	Distribution of Marks			
1.	Experiment – I	20	15	10	
2.	Experiment – II	20	15	10	
3.	Record	10	10	5	
4.	Viva Voce	10	5	5	
	TOTAL MARKS	60	45	30	

Table 9 : Distribution of marks for Project and Viva Voce examinations /
Industrial Training of UG programmes

	]	External	Internal	Overall Passing
Total Marks	Max. Marks	Passing Minimum for External alone	Max. Marks	Minimum for Total Marks (Internal + External)
100	60	24	40	40
75	45	18	30	30

Table 10 : Distribution of marks for the Continuous Internal Assessment in UG Project / Industrial Training Courses.

S. No.	For - UG Project courses / Industrial Training Distribution of Man			
1.	Review – I	10	7	
2.	Review – II	10	7	
3.	Review – III	10	7	
4.	Document, Preparation and Implementation	10	9	
	TOTAL MARKS	40	30	

Table 11 : Distribution of marks for the External Examination in UG Project /
Industrial Training courses

S. No.	For - UG Project / Industrial Training courses	Distribution of Marks		
1.	Record Work and Presentation	40	30	
2.	Viva Voce 20 15			
	TOTAL MARKS	60	45	

Table 12: The courses which have only Continuous Internal Assessment and no End Semester Examinations (ESE)

S. No.	Subject	Total Marks
1.	Environmental Studies	50
2.	Human Rights and Constitution of India	50
3.	Basic Tamil I	50
4.	Basic Tamil II	50
5.	Human Values and Yoga Practice	50
	TOTAL	250

For the above mentioned subjects, the examinations shall be only Continuous Internal Assessment (CIA) as prescribed in the syllabus. The marks shall be furnished to the CoE.

Table 13: The courses which have only End Semester Examinations (ESE) and no Continuous Internal Assessment

S. No.	Subject	Total Marks
1.	Non – Major Electives / Advanced Tamil I	50
2.	General Awareness / Advanced Tamil II	50
3.	Skill Based Open Elective Courses	50
4.	Value Based Open Elective Courses	50
	TOTAL	200

#### 17. Passing Minimum

A candidate who secures **not less than 40%** in the End Semester Examination and 40% marks in the External Examination and Continuous Internal Assessment put together in any theory course of Part I, II, III & IV shall be declared to have passed the examination in the subject (Theory and Practical). Thus the minimum pass mark for theory subject is 30 out of 75 in ESE and also 40 marks out of 100 (CIA+ESE).

A candidate who passes the examination in all the courses of Part I, II, III, and IV & V shall be declared to have passed, the whole examination. Thus to obtain UG degree a student should pass in all the courses prescribed in the concerned programme and also he / she should earn 144 credits.

#### 18. Marks & Grade

Once the marks of the CIA and End Semester Examinations for each of the course are available, they shall be added. The mark thus obtained shall then be converted to the relevant letter grade as per the details given below to indicate the performance of the candidate.

Table 14: Conversion of Marks to Grade Points & Letter Grade(Performance in a course / paper)

Range of Marks	Grade Point	Letter Grade	Description
90-100	9.0-10.0	O	Outstanding
80-89	8.0-8.9	D+	Excellent
75-79	7.5-7.9	D	Distinction

70-74	7.0-7.4	A+	Very Good
60-69	6.0-6.9	A	Good
50-59	5.0-5.9	В	Average
40-49	4.0-4.9	С	Satisfactory
00-39	0.0	U	Re-Appear
ABSENT	0.0	AAA	Absent

#### 19. Grade Point Average (GPA)

Grade point average (GPA) is calculated for each part taking into account all the courses studied under each part. Calculation of grade point average semester-wise and part-wise is as follows:

 $GPA = \frac{Sum \text{ of the multiplica tion of grade points by the credits of the courses}}{Sum \text{ of the credits of the courses in a semester}}$ 

$$\mathbf{GPA} = \frac{\sum_{i} (\mathbf{C}_{i} * \mathbf{G}_{i})}{\sum_{i} \mathbf{C}_{i}}$$

Where  $C_i$  = Credit earned for course i in any semester.

 $G_i$  = Grade points obtained for course i in any semester.

#### 20. Cumulative Grade Point Average (CGPA)

For the entire program CGPA is calculated in the following manner:

$$\mathbf{CGPA} = \frac{\sum_{n} \sum_{i} C_{ni} * G_{ni}}{\sum_{n} \sum_{i} C_{ni}}$$

#### 21. Classification of CGPA

A candidate who has passed all the examinations under different parts (Part-I to Part V) is eligible for the following part wise computed final grades based on the range of CGPA.

Table 15 : Classification of performance of Students based on the Cumulative Grade Points Average

CGPA	Grade	Classification of Final Result	
9.5-10.0	O+	Einst Class Examplem	
9.0 and above but below 9.5	O	First Class - Exemplary	
8.5 and above but below 9.0	D++		
8.0 and above but below 8.5	D+	First Class with Distinction	
7.5 and above but below 8.0	D		
7.0 and above but below 7.5	A++		
6.5and above but below 7.0	A+	First Class	
6.0and above but below 6.5	A		
5.5 and above but below 6.0	B+	Conned Class	
5.0 and above but below 5.5	В	Second Class	
4.5 and above but below 5.0	C+	TIL: 1 CI	
4.0 and above but below 4.5	С	Third Class	
0.0 and above but below 4.0	U	Re-appear	

A candidate who passes all the examinations in Part I to Part V securing following CGPA and Grades shall be declared as follows **for Part I or Part II or Part III**:

- a) A candidate who has passed all the Part-III subjects examination in the first appearance within the prescribed duration of the UG programmes and secured a CGPA of 9 to 10 and equivalent grades "O" or "O+" in part III comprising Core, Electives and Allied subjects shall be placed in the category of "First Class Exemplary".
- b) A candidate who has passed all the Part-III subjects examination in the first appearance within the prescribed duration of the UG programmes and secured a CGPA of 7.5 to 9 and equivalent grades "D" or "D+" or "D++" in part III comprising Core, Electives and Allied subjects shall be placed in the category of "First Class with Distinction".
- c) A candidate who has passed all Part-III subjects examination of the UG programmes and secured a CGPA of 6 to 7.5 and equivalent grades "A" or "A+" or "A++" shall be declared to have passed that part in "First Class".

- d) A candidate who has passed all Part-I or Part-II subjects examination of the UG programmes and secured a CGPA of 6 and above and equivalent grades "A" or "A++" or "A++" shall be declared to have passed that parts in "First Class".
- e) A candidate who has passed all the Part-I or Part-III or Part-III subjects examination of the UG programmes and secured a CGPA of 5.0 to 6 and equivalent grades "B" or "B+" shall be declared to have passed that parts in "Second Class".
- f) A candidate who has passed all the Part-I or Part-III or Part-III subjects examination of the UG programmes and secured a CGPA of 4.0 to 5 and equivalent grades "C" or "C+" shall be declared to have passed that parts in "**Third Class**".
- g) There shall be no classifications of final results for Part IV and Part V. However, those parts shall be awarded with final grades in the End semester statements of marks and in the Consolidated statement of marks.

#### 22. Improvement of Marks in the subjects already passed

Candidates desirous of improving the marks awarded in a passed subject in their first attempt shall reappear in the subsequent semester only. The improved marks shall be considered for classification but not for ranking. When there is no improvement, there shall not be any change in the original marks already awarded.

#### 23. Conferment of the Degree

No candidate shall be eligible for conferment of the Degree unless he / she

- i. Has undergone the prescribed course of study for a period of not less than six semesters in an institution approved by / affiliated to the University or has been exempted from in the manner prescribed and has passed the examinations as have been prescribed therefore.
- ii. Has completed all the components prescribed under Parts I to Part V in the CBCS pattern to earn 144 credits.
- iii. Has successfully completed the prescribed Field Work/ Institutional Training (if any) as evidenced by certificate issued by the concerned authorities.

#### 24. Ranking

A candidate who qualifies for the UG degree course passing all the examinations in the first attempt, within the minimum period prescribed for the course of study from the date of admission to the course and secures I or II class shall be eligible for ranking and such ranking shall be confined to 10 % of the total number of candidates qualified in that particular branch of study or maximum of Three Ranks whichever is lower. However the Programmes will be considered for ranking only when there are minimum of 10 students completing that Programme. The improved marks shall not be taken into consideration for ranking.

#### 25. Question Paper Pattern

The question paper pattern for CBCS pattern syllabi for the candidates admitted from the Academic year 2023-24 are as follows:

#### A. Question Paper Pattern for Part I/Part II/Core /Allied/Elective/Skill Based Subjects

Time: 3hrs Marks: 75

Knowledge Level		Section	Marks	Description
K1, K2, K3	1–10	A(Answer all the questions)	10 x 1 = 10	MCQ
K2, K3	11 – 15	B (Either or pattern)	5 x 5 = 25	Short Answers
K3, K4	16 – 21	C (Answer 3 out of 6)	3 x 10 = 30	Descriptive/ Detailed
K3, K4	22	D (Compulsory Question)	1 x 10 = 10	Application Based/ HOTS

#### B. Question Paper Pattern for Part I/Part II/Core /Allied/Elective/Skill Based Subjects

Time: 3hrs Marks: 55

Knowledge Level		Section	Marks	Description
K1, K2, K3	1-10	A(Answer all the questions)	10 x 1 = 10	MCQ
K2, K3	11 – 15	B (Either or pattern)	5 x 4 = 20	Short Answers
K3, K4	16 – 21	C (Answer 3 out of 6)	3 x 6= 18	Descriptive/ Detailed
K3, K4	22	D ( Compulsory Question)	1 x 7 = 7	Application Based/ HOTS

#### C. Question Paper Pattern - Advanced Tamil, Open Elective Courses and Self Study Papers

Time: 3 Hours Max Marks: 50

Knowled	ge Level	Section	Marks	Description
K2, K3	1 – 10	A (Answer all the questions)	$10 \times 2 = 20$	Short Answers / Define
K3, K4	11 – 15	B (Either or pattern)	5 x 6 = 30	Descriptive/ Detailed

For self study papers, Open Book Examination will be followed.

#### D. Question Paper Pattern for Part IV subjects

For Part IV papers like Environmental Studies, Human Rights and Constitution of India, Human Values & Yoga Practice, Examination time shall be **2 hours with maximum of 25 marks**. The pattern shall be 5 out of 10 Questions each carrying 5 marks.

**NOTE:** The questions should be numbered continuously running through the Sections A, B and C.

Questions should be evenly distributed among the unit in the syllabus in all the sections of the question paper. While framing questions with internal choice, the questions must be identified as (a) or (b).(e.g. 11. a or b). Further, the internal choice must be from the same unit.

**ESE for General Awareness** shall be conducted online with 100 multiple choice questions (with four options) to be evaluated online.  $(100 \times 0.5 = 50 \text{ marks})$ 

For other courses in Part IV of UG programmes namely, **Consumer Affairs, Gender Sensitization, and Women's Rights** the question paper pattern shall be 5 out of 10.

The Controller of the Examinations shall arrange for the setting of question papers on the basis the syllabus and the pattern of question paper duly certified by the Chairpersons of the respective Board of Studies.

#### 26. Syllabus

The syllabus for various courses shall be clearly demarcated into five viable units in each course.

#### 27. Revision of Regulations and Curriculum

The above Regulation and Scheme of Examinations shall be in vogue without any change for a minimum period of three years from the date of approval. The College may revise / amend / change the Regulations and Scheme of Examinations, if found necessary.

## NEHRU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

#### REGULATIONS FOR POSTGRADUATE DEGREE COURSES

Choice Based Credit System blended with Outcome based Education Regulations with effect from the Academic Year 2022-2023

#### **Definition**

- a) Programme A course of study leading to the award of a degree in a discipline. (E.g.: M. Sc. / M. Com.)
- b) Branch Discipline of study (e.g. M.Sc. Microbiology)
- c) Curriculum The various courses (subjects) a student must study in a particular branch.
- d) Course The theory & practical subject offered under each curriculum.
- e) Credit A unit of measurement based on the duration of the contact hours, content and quality of the subject matter.

#### 1. PG Curriculum

The PG Curriculum follows CBCS pattern and the medium of instruction is English.

#### 2. Eligibility for Admission to the Course

A candidate who has passed the Degree Examination as main subject of study of this University or an examination of some other University accepted by the Syndicate as equivalent thereto shall be eligible for admission to the Master Degree of this College.

#### 3. Duration of the Programme

This Course of Study shall be based on Semester System. This Course shall consist of four Semesters covering a total of two Academic years. For this purpose, each academic year shall be divided into two Semesters; the first and third Semesters; July to November and the second and the fourth Semesters; December to April. The Practical Examinations shall be conducted at the end of odd / even Semester. Each semester have 90 working days consists of 5 teaching hours per working day. Thus, each semester has 450 teaching hours and the whole programme has **1800 teaching hours**.

#### 4. Choice Based Credit System (CBCS)

All Postgraduate Programmes offered by the University shall be under Choice Based Credit System (CBCS). Choice based credit system is introduced with the aim of offering flexibility in the choice of courses to the students.

#### **Objectives of the Choice Based Credit System:**

- To facilitate the students to have greater flexibility in their choice of courses.
- > To revamp the curriculum, to impart entrepreneurial skills and placement potentials qualities.
- > To incorporate need based knowledge in tune with the location and neighborhood of the institution.
- > To allocate credit points to each paper of the study based on the weightage of the contact hours, content and quality.
- > To extend opportunities to fast learners in order to earn Extra credit from advanced as well as additional courses.
- ➤ To maintain the total credit points of each programme on par with international standards.

#### 5. Outcome Based Education (OBE)

OBE is an **educational** theory that bases each part of an **educational** system around goals (**outcomes**). By the end of the **educational** experience, each student should have achieved the goal.

#### Objectives of Outcome based curriculum:

- ➤ The programme outcomes and Programme specific outcomes are clearly identified and unambiguously specified regarding the content, context and competence.
- The expected outcome should be defined by setting bench marks for each level of the programme. Benchmark should tackle and define specifically, the goals of the curriculum and verify ways to access whether the students have reached these goals at the level of study;
- ➤ OBE is driven by assessments that focus on well defined learning outcomes and not by other factors such as what is taught, the duration taken by the student to achieve the outcomes or which path the students take to achieve their targets. In OBE, assessment techniques must be with clear description of expected performance.

#### **Definitions**

**Outcome:** An outcome of an educational Programme is what the student should be able to do at the end of a Programme/ course/ instructional unit.

#### **Levels of Outcomes**

- ➤ Programme Outcomes: POs are statements that describe what the students graduating from any of the educational Programmes should be able to do.
- ➤ Programme Specific Outcomes: PSOs are statements that describe what the graduates of a specific educational Programme should be able to do.
- ➤ Course Outcomes: COs are statements that describe what students should be able to do at the end of a course

**Learning Outcomes:** It describes levels of achievement that can be attained across the domains of learning. Here **K1** representing Remember; **K2** -Understanding; **K3** - Apply; **K4** - Analyze; **K5**- Evaluate, **K6** – Create are used to measure the levels of achievement in learning.

#### 6. CBCS Curriculum

#### **6.1. Part A :** Core Components:

Core Courses: Each programme has a group of core courses. The syllabus of the core courses will facilitate the students in the acquisition of the basic concepts of their respective disciplines, besides getting exposure to the recent developments. This exposure will suitably guide the students towards their vertical mobility in their higher studies. Core courses will last till the fourth semester. It is mandatory for all PG students to complete an online course under SWAYAM / NPTEL platform between 2<sup>nd</sup> and 3<sup>rd</sup> semester.

### 6.2. Part B: Optional Courses - Advanced Learner's Courses : (ALC)

Students are offered the opportunity to undertake optional papers, additional to their compulsory papers, in order to gain additional credit that would boost their grades. These are not mandatory. The course will be a self study nature and the concerned departments will offer guidance. Other Advanced Learner's Courses shall be decided during the conduct of Board of Studies. The Examination will be of Open Book Examination model.

#### 7. Requirement to appear for the examinations

Attendance Requirements for the Students appearing for ESE

- The guidelines of attendance requirement issued by Bharathiar University are adopted by the College. Attendance shall be considered semester- wise (not annually).
- A candidate shall be permitted to appear for the Semester Examinations in any semester, if
  he / she secures not less than 75% of attendance in the total number of working days during
  the semester and if his / her progress has been satisfactory, and his / her conduct has been
  satisfactory.

- Those who have obtained below 75% and above 65% of attendance shall pay condonation fee and shall write the examination in the same semester with due permission from the Principal.
- Those who have below 65% and above 50% of attendance are not eligible to write the examination in current semester subjects but are permitted to continue their studies in the next semester provided that this is the first time that the candidate earned attendance between 50% and 65%. Else the candidates have to discontinue the course and re-join in the same semester subjects in the next year with proper approval of the Principal. However, the candidates are eligible to write arrear subjects if any.
- Those who have below 50% of attendance have to redo the semester.

#### 8. Restrictions to appear for the examinations

- a) Any candidate having arrear paper(s) shall have the option to appear in any arrear paper along with the regular semester papers.
- b) Candidates who fail in any of the course of PG degree examinations shall complete the course concerned within 5 years from the date of admission to the said programme, and if they fail to do so, they shall take the examination in the texts / revised syllabus prescribed for the immediate next batch of candidates. If there is no change in the texts / syllabus they shall appear for the examination in that course with the syllabus in vogue until there is a change in the texts or syllabus. In the event of removal of that course consequent to change of regulation and / or curriculum after 5 year period, the candidates shall have to take up an equivalent course in the revised syllabus as suggested by the Chairman of the concerned board of studies and fulfill the requirements as per the regulation curriculum for the award of the degree.

#### 9. Medium of Instruction and examinations

The medium of Instruction and the medium of Examination is English.

#### 10. Distribution

The following are the distribution of marks for examination & evaluation pattern. Distribution of Marks between End Semester Exam (Theory) and Internal Assessment is 75:25. The following table gives the distribution.

#### **PG - PROGRAMMES (CBCS)**

Table 16: Total credit points and tenure of study for M.A., M.Com, M. Sc. and MSW

Part	Courses	Semesters	<b>Credit Points</b>	Marks / Grade
	Components			
III	Core / Electives / Internship / Project /	I to IV	94	2350
	Online course			

#### 11. Additional Credits

Students are given the opportunity to undertake optional papers, additional to their compulsory papers, in order to gain additional credit that would boost their grades. These are not mandatory. Students can earn to a maximum of 15 credits.

S. No.	Subject	Credit / Course	Total Credits
1.	Presentation of Research papers in International Conferences	1	1
2.	Publication of Research Papers in reputed Journals	1	1
3.	Advanced Learners Course	2	4
4.	MOOC Courses / Swayam prescribed by the Departments	2	4
5.	Visits Abroad for Participation in International Academics events	1	1
6.	Representation - Sports / Social Activities / Co curricular / Extracurricular Activities at University / District / State / National / International levels	1	2
7.	Swachh Bharath Summer Internship Programme	2	2
		Total	15

#### 12. Continuous Internal Assessment (CIA)

Three CIA's shall be conducted at regular Intervals. CIA I and II shall be a 2 hours written test for a maximum of 50 marks each and CIA III shall be conducted as Model Examination for ESE.

#### 13. OBE Evaluation - Assignment / Seminar / Role play, etc.

Three OBE Assessment parameters are decided for each course to evaluate the achievement of course outcomes which shall be assessed by the concerned course teacher. The marks allotted to this component will be awarded based on the performance of the candidate. The Rubrics for awarding the marks shall be maintained by the Course Teacher concerned.

#### 14. Distribution of Marks

Table 17: Distribution of marks for External and Internal for theory papers of PG courses

	External		Internal	Overall Passing	
Total Marks	Max. Marks	Passing Minimum for External alone	Max. Marks	Minimum for Total Marks (Internal + External)	
100	75	38	25	50	
75	55	28	20	38	
50	40	20	10	25	

Table 18: Distribution of Internal marks for theory papers of PG courses

S. No.	For Theory - PG courses	Distribution of Marks		
01.	CIA I	5	4	2
02.	CIA II	5 4 2		2
03.	CIA III	6	5	4
04.	OBE Evaluation – Tool 01	3	2	1
05.	05. OBE Evaluation – Tool 02		2	1
06.	OBE Evaluation – Tool 03	3	3	-
	TOTAL MARKS	25	20	10

Table 19: Distribution of marks for External and Internal for Practical papers of PG Courses

	I	External	Internal	Overall Passing Minimum
Total Marks	Max. Marks	Passing Minimum for External alone	Max. Marks	for total marks (Internal + External)
100	60	30	40	50
75	45	23	30	38
50	30	15	20	25

Table 20: Distribution of Internal marks for PG practical papers

S. No.	For PG Practical Courses	Dist	tribution of I	Marks
01. Laboratory Performance - Assessment Tool 01* 5 4				3
02.	Laboratory Performance - Assessment Tool 02*	5	4	3
03.	03. Laboratory Performance - Assessment Tool 03* 5 4			
04.	Test 1 : During Mid semester	10	7	4
05. Test 2: As model test at the end of the semester		10	7	4
06.	Observation Note Book	5	4	3
	Total Marks	40	30	20

Table 21: Distribution of External marks for PG practical papers

S. No.	For - UG practical courses	Distribution of Marks		
1.	Experiment-I	20	15	10
2.	Experiment-II	20	15	10
3.	Record	10	10	5
4.	4. Viva Voce		5	5
	TOTAL MARKS	60	45	30

Table 22: Distribution of marks for Project and Viva Voce examinations and Continuous Internal Assessments and passing minimum marks for the Project / Industrial Training courses of PG programmes

	]	External	Internal	Overall Passing
Total Marks	Max. Marks	Passing Minimum for External alone	Max. Marks	Minimum for Total Marks (Internal + External)
250	150	75	100	125
200	120	60	80	100
150	90	45	60	75
100	60	30	40	50

Table 23: Distribution of marks for the Continuous Internal assessment in PG Project /
Industrial Training Courses

S. No.	For - PG Project courses	Distribution of Marks			ks
1.	Review-I	20	15	10	10
2.	Review-II	20	15	10	10
3.	Review-III	20	15	10	10
4.	Document, Preparation and Implementation	25	20	15	10
5.	Research Paper Publication in Journals**	15	15	15	-
	TOTAL MARKS	100	80	60	40

<sup>\*\*</sup>Wherever it is not possible, an equivalent Assessment tool shall be prescribed by the Board Chairperson.

Table 24: Distribution of marks for the External Examination in PG Project / Industrial Training courses

S. No.	For - PG Project courses	Distribution of Marks			SS
1.	Record Work and Presentation	100	80	60	40
2.	Viva Voce	50	40	30	20
	TOTAL MARKS	150	120	90	60

#### 15. Passing Minimum:

A candidate who secures **not less than 50%** in the End Semester Examination and 50% marks in the External examination and Continuous Internal Assessment put together in any courses shall be declared to have passed the examination in the subject (Theory and Practical). Thus the minimum pass mark is 38 out of 75 in ESE and 50 marks out of 100 (CIA+ESE).

A candidate who passes the examination in all the courses shall be declared to have passed, the whole examination. Thus to obtain PG degree, a student should pass in all the courses prescribed in the concerned programme and also he / she should earn 94 credits.

#### 16. Grade:

Table 25: Classification of Grade for PG Students based on the Percentage of marks

Range of Marks	Grade Point	Letter Grade	Description
90 – 100	9.0 - 10.0	О	OUTSTANDING
80 – 89	8.0 - 8.9	D+	EXCELLENT
75 – 79	7.5 – 7.9	D	DISTINCTION
70 – 74	7.0 - 7.4	A+	VERY GOOD
60 – 69	6.0 – 6.9	A	GOOD
50 – 59	5.0 - 5.9	В	AVERAGE
00 – 49	0.0	С	RE-APPEAR
ABSENT	0.0	AA	ABSENT

#### 17. Grade Point Average (GPA)

Grade point average (GPA) is calculated for each part taking into account all the courses studied. Calculation of grade point average semester-wise and part-wise is as follows:

 $GPA = \frac{Sum \text{ of the multiplica tion of grade points by the credits of the courses}}{Sum \text{ of the credits of the courses in a semester}}$ 

$$\mathbf{GPA} = \frac{\sum_{i} (\mathbf{C}_{i} * \mathbf{G}_{i})}{\sum_{i} \mathbf{C}_{i}}$$

Where  $C_i$  = Credit earned for course i in any semester.

 $G_i$  = Grade points obtained for course i in any semester.

#### 18. Cumulative Grade Point Average (CGPA)

For the entire program CGPA is calculated in the following manner.

$$\mathbf{CGPA} = \frac{\sum_{n} \sum_{i} C_{ni} * G_{ni}}{\sum_{n} \sum_{i} C_{ni}}$$

Sum of the multiplica tion of grade points by the credits of

CGPA = 

Sum of the entire programme under each part

Sum of the Credits of the Courses of the entire programme under each part

#### 19. Classification of CGPA

A candidate who has passed all the examinations under different parts is eligible for the following part wise computed final grades based on the range of CGPA.

Table 26: Classification of performance of PG Students based on the Cumulative Grade

Points Average

CGPA	Grade	Classification of Final Result	
9.5 – 10.0	O+	Eight Class Examples *	
9.0 and above but below 9.5	О	First Class – Exemplary *	
8.5 and above but below 9.0	D++		
8.0 and above but below 8.5	D+	First Class with Distinction*	
7.5 and above but below 8.0	D		
7.0 and above but below 7.5	A++		
6.5 and above but below 7.0	A+	First Class	
6.0 and above but below 6.5	A		
5.5 and above but below 6.0	B+	Second Class	
5.0 and above but below 5.5	В	Second Class	

- a) A candidate who has passed all the subjects examinations in the first appearance within the prescribed duration of the PG programmes and secured a CGPA of 9 to 10 and equivalent grades "O" or "O+" in Core and Electives subjects shall be placed in the category of "First Class Exemplary".
- b) A candidate who has passed all the subjects examinations in the first appearance within the prescribed duration of the PG programmes and secured a CGPA of 7.5 to 9 and equivalent grades "D" or "D+" or "D++" in Core and Electives subjects shall be placed in the category of "First Class with Distinction".
- c) A candidate who has passed all the subjects examinations of the PG programmes and secured a CGPA of 6 to 7.5 and equivalent grades "A" or "A+" or "A++" shall be declared to have passed in "First Class".
- d) A candidate who has passed all the subjects examination of the PG programmes and secured a CGPA of 5.0 to 6 and equivalent grades "B" or "B+" shall be declared to have passed in "Second Class".

#### 20. Ranking

A candidate who qualifies for the PG Degree programme passing all the Examinations in the first attempt, within the minimum period prescribed for the programme from the date of admission to the programme and secures First or Second Class shall be eligible for ranking and such ranking will be confined to 10% of the total number of candidates qualified in that particular subject to a maximum of 10 ranks. However the Programmes will be considered for ranking only when there are minimum of 10 students completing that Programme. The improved marks will not be taken into consideration for ranking.

#### 21. Improvement of Marks in the subjects already passed

Candidates desirous of improving the marks awarded in a passed subject in their first attempt shall reappear in the subsequent semester only. The improved marks shall be considered for classification but not for ranking. When there is no improvement, there shall not be any change in the original marks already awarded.

#### 22. Conferment of the Degree

No candidate shall be eligible for conferment of the Degree unless he / she has undergone the prescribed programme of Study for a period of not less than four Semesters in the Institution or has been exempted there from in the manner prescribed and has passed the Examinations as have been prescribed.

#### 23. Question Paper Pattern

#### **A:** Question Paper Pattern

Time: 3 Hours Max Marks: 75

Knowledge Level	Q. No.	Section	Marks	Description
K1, K2, K3	1 – 10	A(Answer all the questions)	$10 \times 1 = 10$	MCQ
K2, K3	11 – 15	B (Either or pattern)	5 x 5 = 25	Short Answers
K3, K4	16 – 21	C (Answer 3 out of 6)	3 x 10 = 30	Descriptive/ Detailed
K4, K5	22	D (Compulsory Question)	1 x 10= 10	Application Based/ HOTS

#### **B.** Question Paper Pattern

Time: 3 Hours Max Marks: 55

Knowledge Level	Q. No.	Section	Marks	Description
K1, K2, K3	1 – 10	A(Answer all the questions)	10 x 1 = 10	MCQ
K2, K3	11 – 15	B (Either or pattern)	5 x 4 = 20	Short Answers
K3, K4	16 – 21	C (Answer 3 out of 6)	3 x 6 = 18	Descriptive/ Detailed
K4, K5	22	D ( Compulsory Question)	1 x 7 = 7	Application Based/ HOTS

#### C. Question Paper Pattern –Advanced Learners Course

Time: 3 Hours Max Marks: 50

Knowledge Level	Q. No.	Section	Marks	Description
K2, K3	1 – 5	A (Answer all the Questions)	$5\times 4=20$	Short Answers
K3, K4	6 – 10	B (Either or pattern)	$5 \times 6 = 30$	Descriptive/ Detailed

**NOTE:** The questions should be numbered continuously running through the Sections A, B and C.

Questions should be evenly distributed among the unit in the syllabus in all the sections of the question paper. While framing questions with internal choice the questions must be identified as (a) or (b). (e.g. 11. a or b). Further, the internal choice must be from the same unit.

The Controller of the Examinations shall arrange for the setting of question papers on the basis the syllabus and the pattern of question paper duly certified by the Chairpersons of the respective Board of Studies.

#### 24. Revision of Regulations and Curriculum

The above Regulation and Scheme of Examinations will be in vogue without any change for a minimum period of three years from the date of approval of the Regulations. The Board may revise / amend / change the Regulations and Scheme of Examinations, if found necessary.

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### NEHRU ARTS AND SCIENCE COLLEGE

#### (AUTONOMOUS)

(Affiliated to Bharathiar University Reaccredited with "A+" Grade by NAAC, ISO 9001:2015 (QMS) Certified, Recognized by UGC with 2(f) &12(B), Under Star College Scheme by DBT, Govt. of India) Nehru Gardens, Thirumalayampalayam, Coimbatore - 641 105, Tamil Nadu, India.



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#### **B.Sc. FORENSIC SCIENCE**

#### **Programme Outcomes:**

At the end of the course, the learners will be able:

**PO1**: To demonstrate academic proficiency in the core area of forensic science.

**PO2**: To use the scientific techniques of forensic science in investigations.

**PO3**: To systematically and scientifically collect evidences from crime scene

PO4: To analyse evidences using scientific techniques and form opinion based on it.

**PO5**: To aid and advice the criminal justice system in investigation, trial, correctional administration and victim support.

**PO6**: To develop skillset required for contributing towards the research and development in forensic Science.

**PO7**: Utilizing the existing techniques of forensic science in private investigations.

**PO8**: Understanding the emerging trends in Forensic Science and its applications in industrial context.

#### **Programme Specific Outcomes:**

**PSO1**: Understand the concept of criminal justice system, principles of crime & investigation.

PSO2: Understand the various techniques used in the analysis of evidences obtained as a byproduct of crime

**PSO3**: Develop skill to design and conduct experiments for the analysis of evidences based on the protocols provided by authorized agencies.

**PSO4**: Architect skill sets in assisting investigations, trials and correctional administration.

**PSO5**: Utilize the laboratory skills in industrial applications



## NEHRU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

(Affiliated to Bharathiar University Reaccredited with "A+" Grade by NAAC, ISO 9001:2015 (QMS) Certified, Recognized by UGC with 2(f) &12(B), Under Star College Scheme by DBT, Govt. of India)





#### **SCHEME OF EXAMINATION**

#### **B.** Sc Forensic Science

(Programme code: UFR)

(Applicable to all the students admitted during the academic year 2023-2024 onwards)

Semester	Part	Course code	Name of the course	Instructional Hours/week	Duration of Examination	Examination Marks			its
						CIA	ESE	Total	Credits
	I	23U1TAM101/ 23U1HIN101/ 23U1MAL101/ 23U1FRN101	Elanthamizh Rachnathmak Hindi Kadhayum Samskaraavum Le Francais Fondamental - I	4	3	20	55	75	3
	II	23U2ENG101	Professional English - I	4	3	20	55	75	3
		23U3FRC101	Core Paper I - General Forensic Science	5	3	25	75	100	4
		23U3FRC102	Core Paper II- Law for Forensic Science	5	3	20	55	75	3
I	III	23U3FRP103	Core Paper III - Crime Scene Management Practical	4	3	30	45	75	3
		23U3FRA101	Allied Paper I - Forensic Chemistry	5	3	20	55	75	3
	IV	21U4ENV101	@ Ability Enhancement Compulsory Course : Environmental Studies	2	3	50		50	2
		22U4HVY201	Value Education : Human Values and Yoga Practice	1	-	-	-	-	-
				30				525	21
	I	23U1TAM202/ 23U1HIN202/ 23U1MAL202/ 23U1FRN202	Pynthamizh Sanchar Hindi Novalum Bhashaapadanavum Le Francais Fondamentale - II	4	3	20	55	75	3
	II	23U2ENG202	Professional English - II	4	3	20	55	75	3
		23U3FRC204	Core Paper IV - Forensic Ballistics	4	3	25	75	100	4
II	III	23U3FRC205	Core Paper V - Instrumental Analysis	4	3	20	55	75	3
		23U3FRP206	Core Paper VI - Forensic Ballistics Practical	4	3	30	45	75	3
		23U3FRA202	Allied Paper II - Forensic Physics	3	3	20	55	75	3
		23U3FRR203	Allied Paper III - Forensic Chemistry Practical	4	3	40	60	100	4
	IV	21U4HRC202	@ Ability Enhancement Compulsory Course: Human Rights and Constitution of India	2	3	50	-	50	2
		22U4HVY201	@Value Education : Human Values and Yoga Practice	1	2	50	-	50	2

				30				675	27
		23U1TAM303/	Arunthamizh					0,0	,
III	I	23U1HIN303/	Sahityak Hindi			20			
		23U1MAL303/	Kavithayum Smaranayum	4	3	20	55	75	3
		23U1FRN303	Le Français General - III						
	II	23U2ENG303	Communicative English - I	4	3	20	55	75	3
	III	23U3FRC307	Core Paper VII - Impression Analysis	4	3	25	75	100	4
		23U3FRC308	Core Paper VIII - Forensic Statistics	4	3	20	55	75	3
		23U3FRP309	Core Paper IX - Impression Analysis Practical	4	3	30	45	75	3
		23U3FRA304	Allied Paper IV - Forensic Biology	3	3	20	55	75	3
	IV	23U4FRS301	Skill Based Paper I - Good Laboratory Practices	3	2	20	55	75	3
		22U4NM3BT1/ 22U4NM3AT1/ 22U4NM3CAF/	# @ Basic Tamil - I ## Advanced Tamil - I * NME: Consumer Affairs /	2	3	5	0	50	2
		22U4NM3GST/	Gender Sensitization Thoughts /		3		,		_
		22U4NM3WRT	Women's Rights						
		SBOEC	Skill Based Open Elective Course - Extra Departmental Course	2	3	-	50	50	2
		23U4FRVALC	**Skill Enhancement Add on course - Institute Industry Linkage	-	1	-	1	-	-
				30				650	26
	I	23U1TAM404/	Muthamizh						
IV		23U1HIN404/	Prayogik Hindi	4	3	20	55	75	3
		23U1MAL404/	Drisyakalaa Saahithyam						
		23U1FRN404	Le Francias General - IV	1	2	20	<i></i>	75	2
	II	23U2ENG404	Communicative English - II	4	3	20	55	75	3
	III	23U3FRC410	Core Paper X - Questioned Document Examination	4	3	25	75	100	4
		23U3FRP411	Core Paper XI - Questioned Document Examination Practical	4	3	30	45	75	3
		23U3FRA405	Allied Paper V - DNA Fingerprinting	3	3	20	55	75	3
		23U3FRP412	Core Paper XII-Forensic Biology Practical	4	3	40	60	100	4
	IV	23U4FRS402	Skill Based Paper II - Research methodology and Statistics	3	3	20	55	75	3
		22U4NM4BT2/ 22U4NM4AT2/ 22U4NM4GEN	# @Basic Tamil - II ##Advanced Tamil - II General Awareness	2	3	50		50	2
		VBOEC	Value Based Open Elective Course - Intra School Course	2	3	-	50	50	2
		23U4FRVALC	**Skill Enhancement Add on course- Institute Industry Linkage	-	-	-	-	-	Grade
				30				675	27
V	III	23U3FRC513	Core Paper XIII - Serology and DNA Typing	5	3	25	75	100	4
		23U3FRC514	Core Paper XIV - Forensic Medicine and Anthropology	5	3	20	55	75	3
		23U3FRC515	Core Paper XV - Introduction to Digital Forensic Science	5	3	20	55	75	3

		23U3FRP516	Core Paper XVI - Forensic Serology Practical	4	3	30	45	75	3
		23U3FRE501/ 23U3FRE502/	Discipline Specific Elective Paper - I	5	3	25	75	100	4
		23U3FRE503	Biscipinie Specific Elective Luper	J	3	25	75	100	
		23U3FRV619	Core Paper XIX - Project Viva Voce	3	•	-	-	-	-
	IV	23U4FRT503	Skill Based Paper III - Internship	3	3	30	45	75	3
				30				500	20
		23U3FRC617	Core Paper XVII - Forensic Toxicology	5	3	25	75	100	4
		23U3FRP618	Core Paper XVIII- Toxicology Practical	4	3	30	45	75	3
		23U3FRV619	Core Paper XIX - Project Viva Voce	6	3	30	45	75	3
	***	23U3FRE604/							
VI	III	23U3FRE605/	Discipline Specific Elective Paper - II	6	3	25	75	100	4
VI		23U3FRE606							
		23U3FRE607/	D 1. 0 .C. El D HI		2	25	7.5	100	,
		23U3FRE608/ 23U3FRE609	Discipline Specific Elective Paper - III	6	3	25	75	100	4
			Skill Based Paper IV - Outdoor						
	IV	23U4FRZ604	Training Outdoor	3	3	30	45	75	3
	V	22U5EXT601	Extension Activities	-	-	-	50	50	2
				30				575	23
				•	•		Total	3600	144
		litional Credit (Optional)	Semester II - VI						10 \$

# Basic Tamil - Students who have not studied Tamil up to 12th standard.

**Advance Tamil** – Students who have studied Tamil language up to 12th standard and chosen other languages under part I of the programme but would like to advance their Tamil language skills.

- \* NME Students shall choose any one course out of three courses.
- @ No End Semester Examinations. Only Continuous Internal Assessment (CIA)
- \$ Not included in Total marks & CGPA Calculation

## List of Discipline Specific Elective papers (Choose any one of the papers)

Elective-I	Subject Code		Name of the Subject
Dissipling Specific	23U3FRE501	A	Due Diligence and Loss Prevention
Discipline Specific Elective – I	23U3FRE502	В	Advanced Digital Forensics
Elective – I	23U3FRE503	C	Forensic Psychology
Dissipling Specific	23U3FRE604	A	Anti Money Laundering and KYC
Discipline Specific Elective – II	23U3FRE605	В	Audio and Video Analysis
Elective – II	23U3FRE606	C	Criminology and jurisprudence
Dissipling Specific	23U3FRE607	A	Forensic Finance
Discipline Specific Elective – III	23U3FRE608	В	Mobile and Wireless Device Forensics
Elective – III	23U3FRE609	C	Interrogation Techniques

<sup>\*\*</sup> Examination and Evaluation for Value Added Courses shall be conducted by the Industry and the Institute and marks shall be submitted to the COE for the award of Grade.

## Departmental Courses Offered by Forensic Science Department to other Department Students

Sl.No.	Semester	Course Code	Name of the Course
1	III	22U4FR3ED1	Fundamental Due Diligence
2	111	22U4FR3ED2	Introduction to Jurisprudence

## Intra School Course offered by the Department to other Department Students (within the School)

S. No	Course Code	Name of the Course
1	22U4VBOE01	Design Ecosystem
2	22U4VBOE02	Design Thinking
3	22U4VBOE03	Disaster Management
4	22U4VBOE04	Environmental Pollution and Waste Management (EMS)
5	22U4VBOE05	History of Ancient India
6	22U4VBOE06	Indian Knowledge System
7	22U4VBOE07	Principles of Intellectual Property Rights
8	22U4VBOE08	Science, Society and Culture
9	22U4VBOE09	Community Engagement
10	22U4VBOE10	Emotional Intelligence
11	22U4VBOE11	Fundamentals of Tourism
12	22U4VBOE12	Health Education
13	22U4VBOE13	Media and Politics
14	22U4VBOE14	Positive Psychology and Work Life
15	22U4VBOE15	Professional Ethics
16	22U4VBOE16	The Science of Happiness
17	NCC	

- Students shall opt any course within their Schools.
- NCC Students who qualify NCC B Certificate Examination need not appear for these open Electives. The Credits shall be transferred.

## **Self-Study Paper offered by Forensic Science Department**

Sl. No.	Semester	Course code	Course Title
1	Semester II to V	23UFRSS01	Martial Arts
2	Semester II to v	23UFRSS02	Occupational Safety and Health

Chairman Board of Studies in Forensic Science Nehru Arts and Science College, Coimbatore

Cou	ırse Code		Title		
<b>23U</b> 1	1TAM101	Part - I : Elan	thamizh (	இளந்தமிழ்)	
Ser	nester: I	Credits: 3	CI	A: 20 Marks	ESE: 55 Marks
Course	Objective	மொழி இலக்கியத்தின் வாயிலாக அறு மாணவாகளை உருவாக்குதல்.	ம் சார் பண்	பு மற்றும் ஆளுமை	ற <b>ி</b> க்க
Course	Category	Skill Development (மாணவர்களின் பெ	மாழித்திறன	ன ஊக்குவித்தல்)	
Develop	pment Needs	Regional (உலக அளவில் தமிழ் மொ	ழியின் அவ	யசியத்தை உணர்த் <sub>ද</sub>	துதல்)
Course	Description	மாணவா்களின் மொழித்திறனை ஊக்கு மொழியின் அவசியத்தை உணா்த்துத		<u>நூ</u> ம் உலக அளவி	ல் தமிழ்
Course	Outcomes		Teac	ching Methods	Assessment Methods
CO 1	சீர்திருத்தச்	)லக்கியங்கள் வாயிலாக சமூகச் சிந்தனைகள் பெறப்படும்.	காணொ	விரிவுரை/ ளிப்பட விளக்கம்	ஒப்படைவு
CO 2	வாழ்வியல்	லக்கியங்களின் வழி தமிழர்களின் பண்புகளைக் கற்று அறிதல்.		ഖിரിவுரை	குழுத்திட்டம்
CO 3		ருக்கு உணர்த்துதல்	காணொ	விரிவுரை/ ளிப்பட விளக்கம்	கருத்தரங்கு
CO 4		நக்கு அறிவுறுத்தல்		விரிவுரை / குழு விவாதம்	
CO 5		க்கிய வரலாற்றுத் திறனை வளர்த்தல்	ഖിரിவுன	ர/ குழு விவாதம்	கருத்தரங்கு
Offered	l by   தமிழ்த்த	ത്ര			
Course	Content : El	anthamizh (இளந்தமிழ்)		Instructional Hou	ırs / Week : 4
Unit	Description	n Text Book		Chapt	ers
I	சங்க இலக்கி	1. ஐங்குறுநூறு 2. பதிற்றுப்பத்து 3. பத்துப்பாட்டு - முல்லைப்பாட்( 4. சிறுபாணாற்றுப்படை	<u></u>	கிள்ளைப்பத்து ( பாடல்கள் இரண்டாம் பத்து (11-15 ஐந்து பா முல்லைப்பாட்டு (1-103 வரிகள்) சேரநாட்டின் வள	டல்கள்) முழுவதும்
		Instruction	al Hours	12 Ho	
Suggest	ted Learning I	Methods: நாடக முறையில் கலந்துரைய	<u>ாடல்</u>		
II	அற இலக்கிய நீதிநூல்கள்	4. நாலடியார்-பொருட்பால் 5. நான்மணிக்கடிகை		31 - 40 குநட்ப 231 - 240 குநட் 291 - 300 குநட் 11 ஆவது அதிச (கூடா நட்பு 1-10 முதல் ஐந்து டா	பாக்கள் பாக்கள் எரம் ) டல்கள்
C	tod I '	Instruction	al Hours	12 Ho	urs
III	ced Learning I பெண்ணியக் கவிதைகள்	Methods: கலந்துரையாடல்  1. ஆண்டாள் பிரியதர்ஷினி  2. கவிஞர் இளம்பிறை  3. சுகிர்தராணி  4. அ. வெண்ணிலா	1 77	பூச்சி வாழ்க்கை- சு தொட்டிச்செடி அம்மா நீரில் அலையும் மு	கம்
Cucasa	tod Lagunina l	Instruction		12 Ho	urs
Suggest	ied Learning I	Methods: புதுக்கவிதை எழுதும் திறன்	പ്രവ്യൂത്രഥ		

IV	சிறுகண		Metho	2. ஜெ 3. ச.த 4. வ6 5. உ	்டி ரே ஓயமோ தமிழ்ச் ெ ஹ்ணநி மாமகே	ക്ത് മെൽവർ ഡെവൽ ഒസ്വനി	Instr		al Hour பெந்றமை	யாண் வெயி எஸ் <u>த</u> மரப்ப	நிறைய அறைகள் உள்ள வீடு யானை டாக்டர் வெயிலோடு போய் எஸ்தர் மரப்பாச்சி 12 Hours				
V	v தமிழ் இலக்கிய வளர்ச்சியும் வரலாறு 2. சிறுகதையின்					நையின் தோற்றமும்				ā	தமிழ் இலக்கிய வரலாறு				
Suggest	ad I parr	ning N	lethods	• /Œ/IC	விவா	·Æiņ	IIISt	uctio	iai iioui	3	12 Ho	Juis			
Buggest	a Lean	mig iv	Lemous	• இழ	/ ОДІОДІІ	ஹ		Τn	tal Hour	rs	60 Ho	ours			
Text	Books			-		_		ர் மா	ணவர்கள	 நக்குரிய	பாடநூல்" <b>இ</b> ச கல்லூரி, கே	ளந்தமிழ்"			
Refere	nce Boo	ks	இரா.இ	ாங்கும அறை	ரனார், தகள் உ	முனை _ள்ள	வர்.பி.த	earų្̃ញាំណ	5ன், தமிழ்	ழம <b>ண்</b> அ	ிள்ளை, பதிட் முக்கட்டளை, சுரம், 11மாட	சென்னை			
Web	. URLs		https://	youtu.l	oe/2SM	1M5Lv	ZYo0								
				Tools	for As	sessme	ent (20 N	Marks)	)						
CIA	ΔI	C	IA II	C	IA III		Semin	ar	Assignm	nent	Group Project	То	Total		
4			4		5		2		2		3	2	0		
							Mappi	ng							
PO /	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5		
CO CO1	-	-	Н	-	Н	Н	M	Н							
CO2	-	-	M	-	Н	L	Н	Н							
CO3	-	-	L	-	M	M	Н	Н							
CO4	-	-	Н	-	Н	M	M	L							
CO5	-	-	H	-	Н	L	Н	Н							
H-High;	M-Medi			nod be						Vor	fied by				
Dr. S. Satheesh kumar										. Sridevi					

Course	e Code						
23U1H	IN101		Part - 1 - Rachnathmak Hin	di ( रचनात्मक हि	दी)		
Semes	ster: I		Credits: 3 CLA	A: 20 Marks		ESE: 55 l	Marks
			(Common to all UG Pro	grammes)			
Course	Objectiv	<sub>'</sub> e	हिंदी भाषा का अच्छा ज्ञान प्राप्त करने वे	के लिए।			
Course	Categor	y	Skill Development				
Develop	ment No	eeds	Regional				
Course	Descript	ion	Improves Accuracy & Quality, I	mproves Comm	unic	ation Skill	ls
Course	Outcom			Teaching Methods		Assessme	nt Methods
CO 1	आसपार	त की	नात्मकता का विकास होता है। यह हमारे दुनिया को समझने में भी मदद करता है।	Methods	leo	Assi	ignment
CO 2		में म	छात्रों की कल्पना और जिज्ञासा के ादद करती हैं।	Case Studie	es	Grou	p Project
CO 3	और स कहानी	मझने लेखन	ो भाषा को सही ढंग से बोलने, लिखनें में मदद करता है। विज्ञापन लेखन औ छात्रों को उनके रचनात्मक लेखन औ को विकसित करने में मदद करेगा।	Lectures / Vi	deo	Se	eminar
CO 4	बनाता	है।	लोगों के बीच प्रभावी संचार को सक्ष्म	Methods	leo	Assi	ignment
CO 5	संदर्भ व	म आध	लिखित पाठ के सार को समझने औ ।ार पर आपके निष्कर्षों का अनुमान लगाने द्धेमत्ता का आकलन करता है।		mb	Se	eminar
Offered	by Hi	ndi					
Course	Content			Instr	uctio	nal Hours	s / Week: 4
Unit			Description			Text Book	Chapters
I	नाटव	क लड़	ाई – 1979 – सर्वेश्वर दयाल सक्सेना			1	All
				Instruc	tiona	al Hours	12
Suggest		ning N नी -	Methods: Visual Learning				
II	<ol> <li>मजद</li> <li>ठाकु</li> <li>चीफ</li> </ol>	बूरी' - र का की	- मन्नू भंडारी कुऑं – मुंशी प्रेमचंद दावत – भीष्म साहनी ठा जीव –हरिशंकर परसाई			1	1 to 4
				Instruc	tiona	al Hours	12
Suggest			Methods: Auditory				
III	करन 2. विज्ञा	ग्रा। पन ले	व्याकरण – संज्ञा, सर्वनाम, क्रिया और खन ांकेतों से कहानी लेखन।	विशेषण की पहर	गन	1	1,2,3

									Insti	ruction	al Hour	S	12
Suggeste	ed Lear	rning I	Metho	ds : Co	mprehens	sive wr	ting				_		
IV	अनुवा	द : अ	ांग्रेज़ी से	हिंदी	( अनुवा	ाद अभ	<b>पास -</b> 3	3 ) 1	- 10 <b>3</b>	<b>ा</b> नुच्छेद	3	1	1,2
									Insti	ruction	al Hour	S	12
Suggeste	ed Lear	rning I	Metho	ds:A	uditory, V	isual							
V	पारिभ	ाषिक श	ब्दावली	, गृह	ग्रांश लेखन						5	1	1,2
•									Insti	ruction	al Hour	S	12
Suggeste	ed Lear	rning I	Metho	ds: C	omprehen	sive wr	riting						
										Tot	al Hour	s (	60
Tex	t Book	s	3 4 5	. अनुव . Bhai . भाषा	कहानी सं ाद अभ्यास <sup>catdarsh</sup> शास्त्र का ामदेव , व ग्रंथ	i – 3 nan.c पारिभा	o.nz <b>षेक शब्द</b>	कोश	– राजेंद्र	६ द्विवेदी		-17	
Refere	nce Bo	oks	2	. हिंदी . हिन्दी	नाटक औ अलोचना नेक हिंदी	की प	रीभाषिक	शब्दाव	र्ली – पेप	रबैंक	न प्रसाद		
Web. Ul	RLs												
				T	ools for A	Assess	sment (2	20 Ma	arks)				
CIA	I	CL	A II	(	CIA III	A	ssignme	ent	Semina	ar	Group project	То	tal
4			4		5		2		2		3	2	0
						Ma	pping						
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	-	-	Н	M	M	L							
CO2	-	-	Н	L	L	Н							
CO3	-	-	-	L	M	Н							
CO4	-	-	M	M	Н	L							
CO5	-	-	L	M	Н	L							
H-High;	M-Med									¥7 400	7.7		
		Cour	se desi	gned b	<b>Dy</b>					Verifi	ed by		
		Dr.S	S.Swarı	nalatha	l				D	r.S.Swa	arnalatha		

Course C	Code					
23U1M	AL101		Part - I : Kadhayum Sams	kaaravum (കഥയും സ	ംസ്കാരവ	(۵ړل
Semes	ster: I		Credits: 3	IA: 20 Marks	ESE: 55 M	<b>Iarks</b>
			(Common to all UG		·	
Course	Objectiv	'e	ആധുനികകാലത്തെ മലയാളക അവബോധം ഉണ്ടാക്കുന്നു	ഥകളെ കുറിച്ചും സംന	ഗ്കാരത്തെ 	കുറിച്ചും
Course	Categor	y	Skill Development			
Develop	oment No	eeds	Regional			
Course	Descript	ion	Improve accuracy & quality, in	nprove communication		
Course	Outcom	es	,	<b>Teaching Methods</b>	Assessmen	t Methods
CO 1	അഭിരു	ചിയെ	ംവേദനം ആസ്വാദകന്റെ യ പൂർത്തിയാക്കുന്നു	Lecture / Video Methods	Assig	gnment
CO 2	പ്രകൃത കഥാപ		ായി ബന്ധപ്പെടുന്ന ഗം	Case studies	Group	Project
CO 3			അതിന്റെ സംസ്കാരവും നഭാക്കുന്നു	Lectures / Video Lessons	Ser	minar
CO 4			'റെ മൂല്യം ാക്കുന്നു	Lecture / Video Methods	Assignment	
CO 5	ആശയ	വിപ	Lecture / Dumb Charades	Ser	ninar	
Offered	by M	alaya	lam			
Course	Content			Instruction	nal Hours	/ Week : 4
Unit			Description		Text Book	Chapter s
I	1. 6 2. 6 3. 6 4. 6	കുളവ	ത് - ഇ.സന്തോഷ്കുമ ഴിമഥനം - കെ.രേഖ വാഴ - വി .എം .ദേവദാദ മുണ്ടാക്കിക്കളിക്കാം - പി .വി	സ് ഷാജികുമാർ ണ	1	1 to 5
Suggest	od I oom	ing N	Mathada - Vigual I aaming	Instruction	al Hours	12
Suggest			Methods : Visual Learning ാനകഥകൾ			
II	2. 6 3. 2 4. 2	വസു മരപ്പാം മാണിം	പ്പോക്കത്തിൽ - തകഴി യാത്ര - കേശവദേവ് വകൾ - കാരൂർ ക്കൻ - ലളിതാംബിക അന no - ബഷീർ	തർജനം	1	6 to 10
Cugaas	od Lagr	ina N	Mathada . Anditaw	Instruction	al Hours	12
Suggest			Methods : Auditory പഠനം - കേരളത്തിലെ രുചി	ഭേദങ്ങൾ		
III	1. കാറ		കാടും കന്നയാളവും ദൈവവിപ		1	1,2,3

	2. 0	സാമൂതിര ലപ്പുറം	റി ,മുട്ട കേരള	മാല , ളത്തിൻ	,എരന്ത റെ (	ത് ,ബ്രാ അറേണ	-മണാ ധ്യ	办 -(C	കാഴിക്കേ	າວຣັ )			
									Inst	ruction	al Hou	rs	12
Suggest	ed Le	arning l	Metho	ds : Co	ompre	hensiv	e writi	ng					
IV	1. đ	ംസ്കാര ചട്ടായി കരിമ്പനം	വാന യെ ഉ	ം - േ ഉത് ശു	കരളര ൂരാട്ടാ	തിലെ - തൃഗ്ഗ	രുചിരേ ൂൂർ	ഭദങ്ങ			1		4,5
G .				<b>-</b>					Inst	ruction	al Hou	rs	12
Suggest	ed Le	arning l	Method	ds:A	uditory	, Visual					1		
V	m	വമാധ്യമ	മങ്ങൾ	- വ്	ിവർത	തനം					1	1	,2,3
									Inst	ruction	al Hou	rs	12
Suggest	ed Le	arning l	Metho	ds: C	ompreh	ensive v	writing						
		1. ചെ							3.	Tota	al Hou	rs	60
Refere Book	KS .	1. എം കോ 2. ചെ 3. പു 4. കേ 5. ന്യൂ	. അച്ച റുകഥയ തിയ ക സ്തകദേ രള സം സ് റൂമ	ഗൃതൻ ഗുടെ ച ഥ പു ലാകം സ്കാശ മിന്റെ തൃശ്ശൂർ	ഛന്ദസ് തിയ ശ പ്രസഭ രം - പ ം അക	- ചെറ - വി. വായന ചീകര എ .ശ്രീ വും പ	പുറവും - എ നം കേ റാജകു	ഇന്ന ൃഷ്ണ )ഡി : ാഴിപേ വനോവ	ർ ഡി.ന ലെ ഇന ൻ മാതൃ ഡോ.ഷ് ടൊട് ർ നാഷ ബി.അ്	ന് - ഡ ൃഭൂമി ബ ദീബാ ദിം ലണൽ ബ	ി.സി.ബു ചുക്സ് ഗ വാകരന് ധൂക്ക്സ്	ുക്സ് കോഴി േ കോട്ടയ	
***CD: C	KL3	http://v	www.k						Marks)				
CIA	I	CI	A II						Semina	ar I	Group roject	То	tal
	4		4		5		2		2		3		20
						Ma	pping						
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	POS	PSO1	PSO2	PSO3	PSO4	PSO 5
CO1	Н	Н	Н	M	Н	Н	Н	Н					3
CO2	Н	Н	Н	L	Н	M	Н	Н					
CO3	Н	M	Н	M	M	Н	Н	M					
CO4	Н	Н	L	M	L	Н	Н	Н					
CO5	Н	L	L	L	Н	Н	Н	L					
H-High:	M-M	edium; l	L-Low										
		Cours	e desig	ned by	<b>y</b>				Veri	fied by	Chairm	an	
			N. RAJ							: SMITH			

Semester : I   Credits : 3   CIA : 20 Marks   ESE : 55 Marks	23U1	rse Code		Title		
Course Objective   Acquisition of standard French through fundamental French grammar.   Course Category   Skill Development		IFRN101	Part - I: Le	Français Fondament	al - I	
Course Objective   Acquisition of standard French through fundamental French grammar.	Sem	nester : I	Credits: 3 CI	A: 20 Marks	ESE : 55 I	Marks
Course Category   Skill Development			(Common to all UG	Programmes)		
Development Needs       Global         This course has basic knowledge of the French grammar and aims to build solid foundation in the acquisition of standard French through fundamental French grammar         Course Outcomes       Teaching Methods       Assessment Method         CO 1       Learn basic French grammar along with French civilisation       Learn Megation, articles, and understand the Usage of prepositions.       Learn Negation, articles, and understand the Usage of prepositions.       Learn Future proche, Pronominal verb, Pronominal verb, Studies       Tutorial / Case Studies       Assignment         CO 5       Know to self-introduce and translate simple sent-ces       Lecture /       Group project         Offered by French         Course Content       Instructional Hours / Week and Instructional Hours / Week and Instructional Hours       Learn Instructional Hours       1       0         Suggested Learning Methods: Worksheets , Reading practice         II       S'ouvrir aux autres       1       1       1	Course	Objective	Acquisition of standard French	through fundamental I	French gran	nmar.
This course has basic knowledge of the French grammar and aims to build solid foundation in the acquisition of standard French through fundamental French grammar.    Course Outcomes	Course	Category	Skill Development			
Solid foundation in the acquisition of standard French through fundamental French grammar	Develop	ment Needs	Global			
CO 1   Learn basic French grammar along with French civilisation   Lecture   Assignment    CO 2   Knows the gender of nouns   Word game/ Lecture   Lecture    CO 3   Learn Negation, articles, and understand the usage of prepositions.   Lessons    CO 4   Learn Futur proche, Pronominal verb,   Tutorial / Case Studies    CO 5   Know to self-introduce and translate simple sentences    CO 6   Know to self-introduce and translate simple sentences    CO 7   Course Content   Instructional Hours / Week    CO 8   Instructional Hours / Week    CO 9   Instructional Hours / Week    CO 1   Instructional Hours / Week    CO 2   Learn Futur proche, Pronominal verb,   Tutorial / Case Studies    CO 3   Learn Futur proche, Pronominal verb,   Tutorial / Case Studies    CO 4   Learn Futur proche, Pronominal verb,   Tutorial / Case Studies    CO 5   Know to self-introduce and translate simple sentences    CO 6   Tutorial Hours   Text Book    Chapte Book   Text Book    Chapte Book   Text Book   Text Book    Chapte Book   Text Boo	Course	Description	solid foundation in the acquisiti			
French civilisation  CO 2 Knows the gender of nouns  CO 3 Learn Negation, articles, and understand the usage of prepositions.  CO 4 Learn Futur proche, Pronominal verb,  CO 5 Know to self-introduce and translate simple sentences  CO 6 French  Course Content  Course Cont	Course	Outcomes		<b>Teaching Methods</b>	Assessmen	t Methods
CO 3 Learn Negation, articles, and understand the usage of prepositions.  CO 4 Learn Futur proche, Pronominal verb,  CO 5 Know to self-introduce and translate simple sentences  CO 6 Trutorial / Case Studies  CO 7 Studies  CO 8 Studies  CO 9	CO 1			Lecture	Assi	gnment
Unit   Description   Lessons   Chapte	CO 2	Knows the g	ender of nouns		Se	minar
CO 4 Learn Futur proche, Pronominal verb,  CO 5 Know to self-introduce and translate simple sentences  Coffered by French  Course Content  Unit Description  Instructional Hours / Week :  Instructional Hours   10    Suggested Learning Methods: Worksheets , Reading practice  Is 'ouvrir aux autres   1   1    S'ouvrir aux autres   1   1    Lessons  Tutorial / Case Studies  Assignment  Lecture / Group project  Instructional Hours / Week :  Instructional Hours   12    Suggested Learning Methods: Worksheets , Reading practice	CO 3					Quiz
CO 4   Learn Futur proche, Pronominal verb,   Studies   Assignment						
Offered by French  Course Content Instructional Hours / Week :  Unit Description Text Book Chapte  I Mes cinq sens en action 1 0  Instructional Hours 12  Suggested Learning Methods: Worksheets , Reading practice  II S'ouvrir aux autres 1 1 1	CO 4		•		Assi	gnment
Course Content Instructional Hours / Week 3   Unit Description Text Book Chapter Book   I Mes cinq sens en action 1 0    Instructional Hours  Suggested Learning Methods: Worksheets, Reading practice  II S'ouvrir aux autres  1 1 1	CO 5		-introduce and translate simple	Lecture /	Grouj	p project
UnitDescriptionText BookChapteIMes cinq sens en action10Instructional Hours12Suggested Learning Methods: Worksheets , Reading practiceIIS'ouvrir aux autres11	Offered	by French				
Unit       Description       Book       Chapte         I       Mes cinq sens en action       1       0         Instructional Hours       12         Suggested Learning Methods: Worksheets , Reading practice         II       S'ouvrir aux autres       1       1	Course	Content		Instructi	onal Hours	s / Week: 4
Instructional Hours 12 Suggested Learning Methods: Worksheets , Reading practice  II S'ouvrir aux autres 1 1	Unit		Description			Chapters
Suggested Learning Methods: Worksheets , Reading practice  II S'ouvrir aux autres 1 1	I	Mes cinq sens	en action		1	0
II S'ouvrir aux autres 1 1				Instruction	al Hours	12
	Suggest	ed Learning I	Methods: Worksheets , Reading	practice		
Instructional Hours 12		S'ouvrir aux a	autres		1	1
	II			Instruction	al Hours	12
Suggested Learning Methods: Kahoot App, Worksheets	II			Histruction	ai ilouis	
III Partager son lieu de vie 1 2		ed Learning I	Methods: Kahoot App, Worksh		ai iiouis	
Instructional Hours 12	Suggest					2
Suggested Learning Methods : Audio & Visual, Speaking practice	Suggest			eets	1	
IV Vivre au quotidien 1 3	Suggest	Partager son	lieu de vie	eets Instruction	1	
Instructional Hours 12	Suggest III Suggest	Partager son	lieu de vie  Methods : Audio & Visual, Spea	eets Instruction	1 al Hours	12
Suggested Learning Methods: Comprehensive Writing	Suggest III Suggest	Partager son	lieu de vie  Methods : Audio & Visual, Spea	eets Instruction	1 al Hours	3

V	S'ouvri	r à la cı	ılture										1		4	
										Inst	ructio	ona	l Hou	rs	12	
Suggest	ed Lear	rning I	Metho	ds: Tr	anslati	ng sin	nple s	enten	ces	s, comp	reher	ndiı	ng the p	passage	•	
											T	ota	l Hou	rs	60	
Text Bo	oks				éthode orothée		•			-Noëlle 4)	Cocto	on,	Anoucl	nka De		
Reference books A1 Echo Méthode de Français																
Web. URLs Lingua.com, TV 5 app,																
Tools for Assessment (20 Marks)																
CIA	I	CL	A II	C	IA III	A	ssignn	nent		Semina	ır	(	Quiz	To	otal	
	4		4		5		2	,		2			3		20	
Mapping																
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PC	8	PSO1	PSO	)2	PSO3	PSO4	PSO5	
CO1	-	-	Н	M	Н	Н	-	-		-	-			-	-	
CO2	-	-	Н	L	Н	M	-	-		-	-			-	-	
CO3	-	-	ı	M	M	Н	-	-		1	ı			ı	-	
CO4	-	-	L	M	L	Н	-		-	-	-			-	-	
CO5	CO5 L - H												-			
H-High:	M-Med	dium; I	L-Low													
	Course designed by									Verified by Chairman						
Dr. R. M	Dr. R. Malathi									Dr. R. Malathi						

Course	e Code			,	Title			
23U2E	NG101		Part – II	: Prof	essional English –	I		
Semes	ter : I		Credits: 3	CIA	: 20 Marks	ESE: 55	Marks	
			(Common to al	l UG Pr	ogrammes)			
Course	Objectiv	ve	To help students to imbibe fine tune their productive s		op, practice and us	e the LSRW	skills and	
Course	Categor	·y	Skill Development					
Develop	ment N	eeds	Global					
Course	Descrip	1						
Course	Outcom	Assessme	nt Methods					
CO 1	_		stening, and reading proficiences discourses.	Lecture/Tutorial	Assi	gnment		
CO 2			pret imaginative, and creating the poetic genre.	Lecture/Tutorial	Assi	gnment		
CO 3	Enhance effective		Lecture/Tutorial	Spe	eaking			
CO 4			exercise grammatical skills and career.	in	Lecture/Tutorial	Re	ading	
CO 5	Evalua	te the	LSRW skills through literat	ure.	Lecture/Tutorial	W	riting	
Offered	by De	eparti	nent of English		l			
Course	Content	-			Instruct	ional Hour	s / Week: 4	
Unit			Description			Text Book	Chapters	
	Prose							
	•		Getting Up On Cold Morning					
I			ri – Tree Speaks			1	1-3	
			<ul><li>On the Rule of the Road</li><li>vity – Comprehension practice</li></ul>	e from l	Prose			
		5 11011		- 1101111	Instruction	 nal Hours	12	
Suggest	ed Lear	ning I	Methods: Flipped Learning	g				
	Poetry		•					
	John Mi	ilton -	On His Blindness					
II	Maya A	ngelo	u -Phenomenal Women			1	4-6	
	A. K. R	amanı	ıjan – A River					
	Speakir	ng Act	ivity – Group Discussion Fo	orum				
					Instruction	nal Hours	12	
Suggest	ed Lear	ning I	Methods: Flipped Learning	7				

III	Short S O. Henr R. K. N Oscar V Readin Short-st	ry – The arayan Vilde - ' <b>g Acti</b>	– The I The Ha	Missing ppy Pri	nce	n pract	ice ar	nd enl	han	cement		1		7-9	
										Instr	uction	al Hour	S	12	
Suggeste	ed Lea	rning l	Metho	ds: Tu	ıtorial										
IV	Grami Parts o Tenses Kinds o Writin	f Speed of Sent	ences	<b>P</b> aragra	ph Wr	iting u	sing g	ramm	ıar (	Compo	nents	1	10	0-13	
										Instr	uction	al Hour	rs	12	
Suggested Learning Methods: Tutorial															
V	Memo, Advertisement Minutes of the Meeting											4-17			
										Instr	uction	al Hour	S	12	
Suggested Learning Methods : ABL															
Total H												al Hour	s	60	
Text Books Compiled by the Department of English, NASC.															
Reference Web. Ul		ks	TAN the s	SCHE tudents ://www	NOTI by the y.youtu	E: (Texe departise de la constant de	xt: Pre rtmen n/wate	escribe t and t ch?v=	ed o the Qr	chapters college UPney2	s or pa	ig) – N ges will l			
				T	ools fo	r Asse	essme	nt (20	M	arks)					
CIA	I	CI	A II	C	IA III	As	signn	nent	S	peakin	g R	eading	ading To		
4			4		5		2			2		3		20	
						7.5							_		
						Ma	pping	5					,		
CO \ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO	8	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	M	L	Н	L	M	M	Н	M	[	Н	Н	M	Н	M	
CO2	M	L	Н	L	Н	M	Н	M	[	Н	Н	M	Н	M	
CO3	M	L	Н	L	Н	Н	Н	Н	[	Н	Н	M	Н	M	
CO4	M	L	Н	L	Н	L	Н	H H H H M H						Н	
CO5	Н	M	Н	L	Н	Н	Н	Н	[	Н	Н	Н	Н	M	
H-High;	M-Med	dium; l	L-Low			•		•					•		
			e desig	ned by	y					Vei	rified l	y Chair	man		
Mr. D. P.				•				Dr. R. Malathi							

Course	e Code												
23U3F	RC101	Core Paper I	- General Forensic Scie	nce									
Semes	ster : I	Credits: 4	CIA: 25 Marks	ESE: 75	Marks								
Солима	Objective	To learn the fundamental p	rinciples of forensic scien	nce and pro	cessing								
Course	Objective	crime scene in a systematic	manner.		_								
Course	Category	Skill Development											
Develop	pment Needs	Global											
		General forensic science deals with the history, development and											
Course	Description			1	vide insight								
		about the systematic proces											
Course	Outcomes		Teaching Methods	Assessmen	nt Methods								
CO 1	Understand Science.	the basics of Forensic	Lecture / Flipped Classroom	Assi	gnment								
CO 2		the legal framework in	Lecture / Flipped	(	)i								
CO 2	which fore	nsic science operates.	Classroom	,	Quiz								
CO 3	Processing	crime scenes systematically.	Lectures / Hands-on training	Assi	gnment								
CO 4		and packing of evidences in propriate way.	Tutorial / Lecture	Se	minar								
CO 5	Documenti maintain cl	Lecture / Training	Case as	ssessment									
Offered	Offered by Forensic Science												
Course	Content		Instruction		/ Week : 5								
Unit		Description		Text Book	Chapters								
	Introduction	n											
		ence: Definition, history and d											
		nsic science in criminal justic											
I		science in India- Principles of use used in forensic science are		1	1								
1		ience- Organization setup	-	1	1								
		Terree organization secup											
	Laboratory:	Structure and function of Stat											
	•	<u> </u>	te, Regional and Central										
	Forensic Sc	Structure and function of Stat	te, Regional and Central Mobile Forensic Science										
Suggest	Forensic Sc Laboratory	Structure and function of Statience Laboratories. Role of Min crime scene investigation.	te, Regional and Central	nal Hours	15								
Suggest	Forensic Sc Laboratory ted Learning	Structure and function of Statience Laboratories. Role of Min crime scene investigation.  g Methods: Video lectures	te, Regional and Central Mobile Forensic Science	nal Hours	15								
Suggest	Forensic Sc Laboratory ted Learning Education	Structure and function of Statience Laboratories. Role of Min crime scene investigation.  g Methods: Video lectures in Forensic Science	te, Regional and Central Mobile Forensic Science  Instruction	nal Hours	15								
Suggest	Forensic Sc Laboratory  ted Learning Education Education i	Structure and function of Statience Laboratories. Role of Min crime scene investigation.  g Methods: Video lectures in Forensic Science n Forensic Science, Ethics in	te, Regional and Central Mobile Forensic Science  Instruction  In Forensic Science and	nal Hours	15								
Suggest	Forensic Sc Laboratory  ted Learning Education i Role of Mo	Structure and function of Statience Laboratories. Role of Min crime scene investigation.  g Methods: Video lectures in Forensic Science	Instruction  To Forensic Science and of Forensic Science and of Forensic Scientist-	aal Hours	<b>15</b>								
	Forensic Sc Laboratory  ted Learning Education i Role of Mo Forensic Sc Evidence, 1	Structure and function of Statience Laboratories. Role of Man crime scene investigation.  Methods: Video lectures  In Forensic Science  In Forensic Science, Ethics in Edia- Duties & Qualification identist at the Crime Scene-Evidence in The Court of L	Instruction  Instruction  Forensic Science and of Forensic Science and of Forensic Scientist-Presentation of Expert Law, Report writing &										
	ted Learning Education i Role of Mo Forensic So Evidence, I Evidence pr	Structure and function of Statience Laboratories. Role of Man crime scene investigation.  Methods: Video lectures  In Forensic Science  In Forensic Science, Ethics in Edia- Duties & Qualification identist at the Crime Scene-Evidence in The Court of Lesentation, Components of reserved.	Instruction  Instruction  Forensic Science and of Forensic Science and of Forensic Scientist-Presentation of Expert Law, Report writing &										
	ted Learning Education i Role of Mo Forensic So Evidence, I Evidence pr	Structure and function of Statience Laboratories. Role of Man crime scene investigation.  Methods: Video lectures  In Forensic Science  In Forensic Science, Ethics in Edia- Duties & Qualification identist at the Crime Scene-Evidence in The Court of L	Instruction  Instruction  In Forensic Science and of Forensic Science and Presentation of Expert Law, Report writing & Exports and report format	1	2								
II	Forensic Sc Laboratory  ted Learning Education i Role of Mo Forensic Sc Evidence, I Evidence pr (according t	Structure and function of Statience Laboratories. Role of Man crime scene investigation.  Methods: Video lectures  In Forensic Science  In Forensic Science, Ethics in Edia- Duties & Qualification identist at the Crime Scene-Evidence in The Court of Lesentation, Components of reserved.	Instruction  To Forensic Science and of Forensic Science and of Forensic Scientist-Presentation of Expert Law, Report writing & exports and report format  Instruction	1									

	C	C T	vestigation							
Ш	Definiti Primary evidence corrobo principl victim, Agencia legal ex Objectiand con	1	3							
	scene ii	nvestigati	011.		Instructi	onal Hours	15			
Sugges	tad I aar	ming Mo	thods: Video le	cturas	Histi ucu	onai mour	5   15			
Sugges			thods: Video le cumentation of							
IV	Docume and see Importa and sea method method	enting crene, long- ance of scarch patte , spiral , wheel c, triangul	ses at 1 at d e	4						
	Instructional Hours 15									
Sugges	Suggested Learning Methods: Practice using set-up crime scenes									
V	Collecti general analysis Forward prepara	ion, pack considers, hypotheling of tion of quance-	aging and prese rations- Stages hesis formulati evidences: Pac uestionnaire- C	rding of evidence rvation of physic of investigation: on, testing, the king and sealing nain of custody:	al evidence an data collection ory formation of evidences Importance an	n, n. s, d	5			
	I				Instructi	onal Hours	15			
Sugges	ted Lear	ning Me	thods: Laborat	ory practice						
					7	Cotal Hours	75 Hrs			
Text B	ooks			Forensic Science: Tehru Arts and Sc						
1. An Introduction To Forensic Scientific and Investigative Techniques", Stuart.H.James and Jon. J. Nordby, Third Edition, CRC Press, 2007.  2. Criminalistics- An Introduction To Forensic Science, Saferstein.R, Printice Hall Inc. USA, 2003.										
			Tools for	Assessment (25	Marks)					
CL	A I	CIA I	I CIA III	Assignment	Seminar	Quiz	Total			
5	5	5	3	3	25					
_	•	_	6	3	1	_				

	Mapping												
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	Н	M	L	L	Н	L	Н	L	Н	M	L	M	L
CO2	Н	M	M	L	Н	L	Н	L	Н	M	L	M	L
CO3	Н	Н	M	L	Н	L	Н	L	Н	M	L	M	L
CO4	Н	Н	M	L	Н	L	Н	L	M	M	L	M	L
CO5	Н	Н	M	L	Н	L	h	L	Н	M	L	M	L

H-High; M-Medium; L-Low

Course designed by	Verified by Chairman				
Mr. Akhil Benny	Mr. Akhil Benny				

Cours	e Code			Title						
23U3F	RC102		Core Paper	r II - Law for Forensic So	cience					
Semes	ster : I		Credits: 3	CIA: 20 Marks	ESE: 55	Marks				
Course	Objecti	ve	_	This course is designed to provide awareness to the students regarding the legal framework in which Forensic Science operates.						
Course	Catego	ry	Skill Development							
Develo	pment N	eeds	Global							
Course	Descrip	tion	Being the application of on the law of the land. various laws.	-	•					
<b>Course Outcomes</b>				<b>Teaching Methods</b>	Assessmen	t Methods				
CO 1 Understand			the Indian Legal System	Lecture/Demonstration	Assig	gnment				
CO 2	legal s	ystem		Lectures/ Tutorials	Ser	ninar				
CO 3	the cri	minal	the role of witnesses in justice system.	Tutorial / Case Studies	Q	uiz				
CO 4	_		understanding about the unications.	Tutorial / Case Studies	Act	tivity				
CO 5	CO 5 Acquire basic idea about presumptions and burden of proof.				Assig	gnment				
Offered										
Course Content Instructional Hours / Week: 5										
Unit			Description		Text Book	Chapters				
I	Introduction laws, comaxims criminal Penal C	ction to curts a Basic ldefer code of	and their jurisdictions, legic concepts of criminal lances. Indian Penal Code:	The structure of the Indian their definitions, general	1	all				
				Instruction	onal Hours	15				
Sugges			Methods: Library extra	reading						
II	Introduction relevance between Evidence circums and ora and adm	ction ce and adre : Di tantia l evid nissibile, and	Legal System to Evidence Law: Basic of importance in the legal symissible and inadmissible fferent types of evidence, all evidence, real evidence ence. Relevancy of Evidence ility, the distinction between the criteria for determined the criteria for determined.		7,8					
				Instruction	onal Hours	15				
			Methods: PowerPoint Pr			·				

	T							1			
Ш	Witness expert witness of exactorss-e techniq Hearsa	1	all								
		<u> </u>				Instructi	onal Hours	15			
Sugges	Suggested Learning Methods: Case Studies										
IV	Legal Communications  Opinion Evidence: The admissibility of opinion evidence, including expert opinion evidence, and the rules governing the admissibility of such evidence. Confessions and Admissions:  The admissibility of confessions and admissions in criminal trials, the distinction between voluntary and involuntary confessions, and the rules governing the admissibility of such evidence. Privileged Communications: The concept of privileged communications, including lawyer-client privilege, doctor-patient privilege, and spousal privilege, and the rules governing the admissibility of such evidence.										
Instructional Hours 15											
Suggested Learning Methods: Case Studies											
V	Presum and evi presum Burden	nptions: idential propertions in of Pro	Diffe presurn trials oof in	mptions, and the s. Special Case	ns  oresumptions, in the rules govern  s: The burder es involving bre	ing the use of n of proof in	1	15			
						Instructi	onal Hours	15			
Sugges	sted Lea	rning M	lethod	ls: Video lectu	ure						
						T	otal Hours	75			
Text B	ooks		1.		& Dhirajlal, K. dia: Eastern Bo	* *	aw of Evid	ence.			
1. Lal, B. (2020). Law of evidence. Central Law Agency. 2. Rai, A. K. (2016). Evidence law: Principles, practice, and problems. Eastern Book Company. 3. Universal. (2020). Indian Evidence Act: Bare Act with short notes. Universal Law Publishing. 4. Gupta, S. P. (2016). Textbook on the law of evidence. Universal Law Publishing.											
				Tools for As	ssessment (20 I	Marks)					
CI	A I	CIA	II	CIA III	Assignment	Seminar	Quiz	Total			
4	4	4		5	3	20					
<b></b>					1						

	Mapping												
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M	-	-	L	Н	-	Н	-	Н	M	L	Н	-
CO2	M	L	L	Н	Н	-	L	-	Н	M	L	Н	-
CO3	Н	M	Н	Н	Н	-	L	-	Н	Н	Н	Н	-
CO4	M	L	L	M	Н	-	Н	-	Н	Н	L	Н	-
CO5	M	-	Н	M	Н	-	L	-	Н	M	-	Н	-

H-High; M-Medium; L-Low

Course designed by	Verified by Chairman
Ms. Archana Sunil	Mr. Akhil Benny

Course	Code				Title				
23U3F	RP103		Core Paper III - Cı	rime	Scene Management	Practical			
Semes	ter : I		Credits: 3	CI	A: 30 Marks	ESE: 45 Marks			
Course	Objecti	ve	Provide students with an crime scene analysis.	Provide students with an understanding of the systematic methods of crime scene analysis.					
Course	Catego								
Develop	ment N	leeds	Global						
Course Description Scientific study of crime scene for the systematic collection packaging of evidences.									
Course	Outcon	ies			<b>Teaching Methods</b>	<b>Assessment Methods</b>			
CO 1	Identify scene.	y pos	sible evidences from a crir	ne	Demonstration / Video Lessons	Practical			
CO 2	Docum	nent a	crime scene.		Demonstration	Practical			
CO 3	Collect	t and j	pack evidences scientifically	<b>7.</b>	Demonstration / Video Lessons	Practical			
CO 4	Mainta	in cha	ain of custody		Demonstration / Video Lessons	Practical			
CO 5	Study manage		egal aspects of crime sce	Demonstration / Video Lessons	Practical				
Offered	by Fo	rensi	c Science						
Course Content Instructional Hours / Week :						nal Hours / Week : 4			

S. No.	Experiment
1	To prepare a report on evaluation of crime scene.
2	Seizure of the premises of the crime scene, clothing, accessibility and chronology of investigation.
3	Photography of crime scene.
4	Searching and Listing of evidences at indoor crime scene.
5	Searching and Listing of evidences at outdoor crime scene.
6	Sketching of Crime scene by triangulation method
7	Sketching of Crime scene by baseline method.
8	Evidence collection, packaging, sealing and labelling.
9	Analysis of blood stains pattern using photograph.
10	Study of legal aspects of crime scene analysis
	TOTAL 60 Hours

	Tools for Assessment (30 Marks)										
Analytical Skill	Lab Performance	Inference	Test I	Test II	Observation	Total					
4	4 4 4 7 7 4 30										

	Mapping													
CO \ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	Н	Н	-	-	-	-	M	L	Н	Н	Н	Н	L	
CO2	Н	Н	-	-	-	-	M	L	M	L	Н	Н	L	
CO3	Н	Н	-	L	-	-	M	L	Н	M	Н	M	L	
CO4	Н	Н	ı	L	-	-	M	L	Н	L	Н	Н	L	
CO5	Н	Н	-	M	-	-	M	L	Н	Н	Н	M	L	

H-High; M-Medium; L-Low

Course designed by	Verified by Chairman					
Mr. Akhil Benny	Mr. Akhil Benny					

C	ourse Code		Title			
23U	3FRA101	Allied	Paper I - Forensic Chemi	stry		
Sen	nester : I	Credits: 3	CIA: 20 Marks	ESE: 55	Marks	
Course	Objective	To develop knowledge analyse them.	about various chemical ev	vidences an	nd skills to	
Course	Category	Employability				
Develop	pment Needs	Global/National				
Course	Description	3	ls with Forensic analysis ncludes features, collection amples.			
Course	Outcomes		Teaching Methods	Assessme	nt Methods	
CO 1	_	the fundamentals of nemistry and forensic cluding chromatographic copic method.	Lecture / Flipped Classroom	Assi	gnment	
CO 2	Understand investigate a analyze fire	the chemistry of fire, arson cases, collect and evidence	Video lectures / Tutorials	Se	minar	
CO 3		Ils identify explosives, st-blast residues using hniques	Lectures/ Tutorials	(	Quiz	
CO 4		ailed awareness about the drugs in individual and	Tutorial / Case Studies	Activity		
CO 5	Introduce the control.	he concept of quality	Lecture / Tutorials	Assi	gnment	
Offered		sic Science				
Course	Content		Instructio	1	/ Week : 5	
Unit		Description		Text Book	Chapters	
I	Chromatograp	emistry mistry: Introduction, Theo phic methods of chemical nemical analysis. Trap case	I analysis, Spectroscopic es and their examination.	1	all	
G			Instruction	al Hours	15	
Suggest	ted Learning I Arson	Methods: Reference to D	rs Manuals			
П	Chemistry of fire, pyrolysis, combustion, fire triangle and tetrahedron, flash point and ignition temperature. Fire categories, burn patterns. Investigation of arson cases, functions of a fire investigator, collection preservation and packing of fire evidence.  Lab analysis of the evidence, instrumental techniques used.  Petroleum products: types, by products, Standard methods of analysis of petroleum products for adulteration.					
			Instruction	al Hours	15	
Suggest	ted Learning I	Methods: Reference to D	FS Manuals			

Ш	Synthe Explosive residue explosive	esis and ion procession restant ion restan	d action rocess ection. sidues norgan	ns of exand example. Syste in the ic Anice	xplosiv ffects, matic labora ons and	ves (The types examinatory u	NT, PET of exp nation using ch	FN an olosion of experience	haracter d RDX, ns, post xplosives al techn last Res	IED). blast s and iques, idues,	2		all		
~			nal Hour	S	<u> 15</u>										
Suggest	ested Learning Methods: Reference to DFS Manuals														
IV	import sympto	definance. Coms, sinchemic	nition, Comme treet n	only c ames,	onsum metho	ed dru ds of	igs, the consun	ir mo nption	and for de of ac . Analy nd quali	tions, sis of			all		
									Insti	uctio	nal Hour	s	15		
Suggest	ted Lea	rning	Metho	ds: R	eferen	ce to I	OFS Ma	anual	S						
V	Body, Alcoho Comm	Alcoh Alcoh ol Esti on Alc , Che	troduc ol Into mation coholic	tion a exication, Leg Beve	nd Cla on, Br al Pro rages,	eath Avision Count	Alcohol s Rega ry Mad	Esting rding e Liq	of Alcoh nation, I Intoxic uor and ethano	Blood ation, Illicit	4		5		
,									Insti	uctio	nal Hour	s	<del>15</del>		
	ed I ee	•	N /	J., D	n										
Suggest	ggested Learning Methods: Reference to DFS Manuals														
Suggest	led Lea	rning									tal Hour		Hrs		
Suggest Text Bo		rning	2 3	. DFS Scie Scie Scie Scie Fore	S Manuarce, G S Manuarce, G S Manuarce, G S Manuarce, G Sensic C	ual- Pe lovt. o ual- Ex lovt. o ual- N lovt. o	etroleun f India aplosive f India arcotics f India stry: Co	n: Pub	olished b	y Dire by Dire y Dire ept. o	ectorate of ectorate of Forensia	f Foren	sic sic		
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	ooks		1 2 3 4	DFS Scie DFS Scie Fore Neh Star	Manuence, G Manuence, G Manuence, G Manuence, G ensic ( ru Art ndard	ual- Personal Persona	etroleun f India aplosive f India arcotics f India stry: Co Science ds of	n: Pub es: Pub ompile Colle cheme	olished be blished be by D ge Coin ical ana	by Directly Directly Directly Object of the	ectorate of ectorate of Forensiae.  Welcher	f Foren f Foren f Scien Frank	sic sic sic ce,		
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Course designed by	Verified by Chairman
Ms. Archana Sunil	Mr. Akhil Benny

Semester: II	Cou	rse Code			Title					
Course Objective பொழி இலக்கியத்தின் வாயிலாக அறும் சார் பண்பு மற்றும் ஆளுமை மிக்க மானவர்களை உருவாக்குதல்.  Course Category Skill Development (மாணவர்களின் மொழித்திறனை ஊக்குவித்தல்)  Development Needs Global /Regional (உலக அளவில் தமிழ் மொழியின் அவசியத்தை உணர்த்துதல் மற்றும் உடை அளவில் தமிழ் மொழியின் அவசியத்தை உணர்த்துதல் மற்றும் உடை அளவில் தமிழ் மொழியின் அவசியத்தை உணர்த்துதல்  Course Dutcomes  CO 1 பெத்தி இலக்கியங்களின் வழி வாழ்வியல் அவசியத்தை மற்றும் உடை அளவில் தமிழ் மொழியின் அவசியத்தை உணர்த்துத்தில் மற்றும் உடை அளவில் தமிழ் மொழியின் அவசியத்தை உணர்த்துத்தில் மற்றும் உடை அளவில் தமிழ் மொழியின் அவசியத்தை அடியத்துத்துத்துத்துத்துத்துத்துத்துத்துத்த	<b>23U</b> 1	ITAM202	Pa	art - I : F	ynthamizh (	(பைந்தமிழ்)				
Course Category Skill Development (மாணவர்களின் மொழித்திறனை ஊக்குவித்தல்)  Development Needs   Global / Regional (உ.கை அள்ளில் தமிழ் மொழியின் அவசியத்தை உணர்த்துதல்)  Course Description   மாணவர்களின் மொழித்திறனை ஊக்குவித்தல் மற்றும் உலக அள்ளில் தமிழ் மொழியின் அவசியத்தை உணர்த்துதல் மற்றும் உலக அள்ளில் தமிழ் மொழியின் அவசியத்துத்து உணர்த்துதல் விறிவுறை/கடினைப்பிட்டம் ஒப்பத்தில் விறிவுறை/கடினைப்பிட்டம் இடித்துற்கு வளர்த்தல் விறிவுறை/கடினைப்பிட்டம் அந்ததுரங்கு விறிவுறை/கடினைப்பிட்டம் அற்றுக்கும் அற்றுக்கும் அற்றுக்கும் அற்றுக்கும் அற்றுக்கும் அற்றுக்கிய அற்றுக்கும் அற்றுக்கிய அற்றுக்கும் அற்றுக்கிறுக்குறிறுக்கும் அற்றுக்கிறுக்கும் அற்றுக்கியத்களி பிறிவைப்பிட்டின் அற்றுக்கிறுக்குறிறுக்கியத்களி பிறிவைப்பிட்டின் விறிவத்தும் பிறிவைப்பிட்டின் அற்றுக்கிய அற்றுக்கு விறிவத்து விறிவத்தும் பிறிவக்கி விறிவத்தும் பிறிவக்கிய அற்றுக்குவில் பிறிவக்கிய அற்றுக்கிய அற்றுக்கிய அற்றுக்கு விறிவத்து விறிவத்து விறிவத்துதல் விறிவத்து அறிவத்துதல் விறிவது அறிவத்து விறிவது அறிவத்துதல் அறிவத்துதல் விறிவது அறிவத்துதல் விறிவது அறிவத்து விறிவது அறிவத்துதல் விறிவது அறிவது அறிவத்துதல் விறிவது அறிவத்துதல் விறிவது அறிவத்துத்துத்துத்து விறிவது அறிவத்துத்துத்துத்துத்து விறிவது அறிவத்துத்துத்துத்துத்துத்துத்	Sen	nester: II	Credits: 3	CIA:	20 Marks	ES	SE: 55 Marks			
Development Needs	Course	Objective			அறம் சார் பல	ன்பு மற்றும்	ஆளுமை மிக்க			
Course Outcomes  Course Outcomes  CO 1  பிக்தி இலக்கியங்கள் வழி வாழ்வியல் விறிவுறை/காணெளிப்பட இப்படைவு சிற்றிலக்கியங்களில் முறை தமிழிகளில் விறிவுறை/காணெளிப்பட இப்படைவு சிற்றிலக்கியங்களில் முறை தமிழிகளில் விறிவுறை/காணெளிப்பட இப்படைவு சிற்றிலக்கியங்களில் மூலம் தமிழிகளில் விறிவுறை/காணெளிப்பட கிருத்துற்கு கருத்துரங்கு விறிவுறை/காணெளிப்பட விறிவுறை அப்படைவு சிற்றுகைகளைக் கூறுதல் வளர்த்தல் விறிவுறை/காணெளிப்பட விறிவுறை/காணெளிப்பட விறிவுறை/காணைவிற்றுக்கிய வரலாற்றுத்திற்கை மேம்பாடு விறிவுறை/ கருத்துரங்கு பிறிவுறை/ கருத்துரங்கு பிறிவுறை/ கருத்துரங்கு மிறிவுறை/ கருத்துரங்கு விறிவுறை/ கருத்துரங்கு மிறிவுறை/ கருத்துரங்கு விறிவுறை/ கருத்துரங்கு விறிவுறை/ கருத்துரங்கு விறிவுறை/ கருத்துரங்கு விறிவுறை/ கருத்துரங்கு கருத்துரங்கு விறிவுறை/ கருத்துரங்கு கருத்துரங்கமாகலை  Cots தமிழ் இலக்கியங்கள் 1. திருமந்திற்ற முற்றியில் கருத்துற்றியில் கருத்திகள் திருபாலிகளைக்குறியில் கருத்துரங்கமாகலை  1. திருநாலக்கரங்கள் 3. முறிவுக்குறியில் பெற்றமை  1. கலம்பகம் - நடிதிக்கல்ம்பகம் படிற்களை பிடியாகளி 1-10 செய்யுள்கள் 1-10 செய்யுக்கி 1-10 செய்யிக்கி 1-10 செய்ய	Course	Category	Skill Development (மாணவர்களின் மொழித்திறனை ஊக்குவித்தல்)							
Course Outcomes  CO 1 பக்கி இலக்கியங்கள் வழி வாழ்வியல் விறிவுறை கழம்திகள் மானவர்களுக்கு எடுத்துறைத்தல் விறிவுறை/காணெள்ப்பட ஒப்படைவு குழுத்திட்டம் விறிவுறை குழிழர்களின் வழி வரழ்கியல் விறிவுறை குழுத்திட்டம் விறிவுறை குழிழர்களின் வழி சமுதரயச் விறிவுறை குழுத்திட்டம் விறிவுறை குழுத்தியத்தியத்தியத்தியத்தியத்தியத்தியத்தி	Develop	ment Needs	Global /Regional( உலக	அளவில்	தமிழ் மொழி	ധിത് அவசி	பத்தை உணர்த்துதல்)			
CO 1 பக்தி இலக்கியங்கள் வழி வயழ்வியல் விரிவுரை/காணொளிப்பட ஒப்படைவு கிறுல்கைகியங்களின் மூலம் தமிழர்களின் விழிவுரை/காணொளிப்பட ஒப்படைவு கிறுல்கைகளின் மூலம் தமிழர்களின் விழிவுரை/காணொளிப்பட கருத்துங்கு கிறுத்தல் விறிவுரை குழுத்திட்டம் விளக்கம் கிறுத்து விறிவுரை குழுத்திட்டம் விறிவுரை குழுத்திட்டம் விறிவுரை குழுத்திட்டம் விறிவுரை/ குழுத்திற்கு விறிவுரை ஒப்படைவு விறிவுரை ஒப்படைவு விறிவுரை ஒப்படைவு விறிவுரை ஒப்படைவு விறிவுரை ஒப்படைவு விறிவுரை குழுத்துற்கு கேற்கு கிறுத்து கிறுக்கிய வரலாற்றுத்திறனை மேம்பாடு விறிவுரை குழுத்துற்கு கேறிழ்த்துறை  Course Content: Pynthamizh (பைந்தமிழ்)  Instructional Hours / Week : 4  Unit	Course	Description			~ , ,	ற்றும் உலக	5 அளவில் தமிழ்			
CO 1 நிற்களை மாணவர்களுக்கு எடுத்துரைத்தல் விளக்கம் அப்படைவு சிற்றிலக்கியங்களின் மூலம் தமிழாகளின் விரிவரை குழுத்திட்டம் வரும்களை கூறுத்திருக்கும் விரிவரை குழுத்திட்டம் விரிவரை குழுத்திற்கு விரிவரை அப்படைவு கிரிவரை ஒப்படைவு கிரிவரை குழுத்திற்கை மேம்பாடு விரிவரை குழுத்திற்கு குறுத்திற்கை மேம்பாடு விரிவரை குழுத்திற்கு குறுத்திற்கை மேம்பாடு விரிவரை குழுத்திற்கு குறுத்திற்கை மேம்பாடு விரிவரை குழுத்திற்கு குறுத்திற்கு குறுத்திற்கு கிறுத்திற்கு குறுத்திற்கு குறுத்திற்கு குறுத்திற்கு மேற்றிற்கு திறுத்திற்கு குறுத்திற்கு கிறுத்திற்கு கிறிற	Course	Outcomes			Teaching 1	Methods	<b>Assessment Methods</b>			
பே வாழ்க்கை சுறுகளை எடுத்துரைத்தல் விரிவுரை குழுத்திட்டம் கருத்துரைக்கு விரிவுரை கருத்துர்க்கு கிரித்தனைகளைக் குறுதல் விரிவுரை ஒப்படைவு கிரித்தனைகளைக் கறுதல் விரிவுரை ஒப்படைவு கிரிவுரை ஒப்படைவு கிரிவுரை ஒப்படைவு கிரிவுரை குழில் இலக்கிய வரலாற்றுத்திறனை மேம்பாடு விரிவுரை குழு கருத்துரங்கு விரிவுரை கருத்துரங்கு விரிவுரை கருத்துரங்கு விரிவியியிரியிற்கும் அரிகுரைப்பதிகம் நான்காம் திருமுறை 4. திருநிவுக்குர் சிருமுறை 4. திருநிவுக்குர் சிருகுறைந்கிக்கலம்பகம் விரிவுரை விரிவுரு இருக்குரு விரிவியிரியிற்கும் அரிகுரும் இருப்பல்லாண்டு அரிகுருப்பதிகம் நான்காம் திருமுறை 1. கலம்பகம் சுடித்தகைத்திரன் பேற்றமை விரிவுரு அரிவுரு விரிவுரு விரிவுரு அரிவுரு விரிவுரு விரிவுரு இரிவுரு விரிவுரு அரிவுரு விரிவுரு விரிவுரு விரிவுரு விரிவுரு விரிவுரு விரிவுரு விரிவுரு அரிவுரு விரிவுரு விரிவுரு இரிவுருத்துரியிரு விரிவுரு விரிவுருரிவுரு விரிவுரு விரிவுரு விரிவுரு விரிவுரு விரிவுருரிவுரு விரிவுரு விரிவுருரிவுரி விரிவுரு விரிவுரு விரிவுருரிவுரு விரிவுரு விரிவுருரிவுரு விரிவுரு விரிவுரு விரிவுரு விரிவுருரிவுரு விரிவுரு விரிவுருரிவுரு விரிவுரு விரிவுருரிவுரு விரிவுரு விரிவுறு விரிவுரு விரிவுரு விரிவுறு விரிவுறு விரிவுரு விரிவுறு விரிவுறு விரிவுரு விரிவுரு விரிவுரு விரிவுரு விரிவுறு விரிவுறு விரிவுருறு விரிவுருறு விரிவுரு விரிவுறு விரிவுறு விரிவுறு விரிவுருறு விரிவுறு விரிவுறு விரிவுறு விரிவுறு விரிவுறு விரிவுறு வ	CO 1	_ ~	•	•			ஒப்படைவு			
பே 3 திந்தனைகளைக் கூறுதல் விளக்கம் கருத்தரங்கு விழிவுரை விழிவுரை விழிவரை விழிவரை விழிவரை விழிவரை விழிவரை கருத்தரங்கு விறிவரு கருத்தர் விறிவரு கருத்தர் விறிவரு கருத்தர் விறிவரு கருத்தர் விறிவரு விறிவரு கருத்தர் விறிவரு கருத்தரி விறிவரு விறிவரு கருத்தரி விறிவரு கருத்தரி விறிவரு கருத்தரி விறிவரு கருத்தரி விறிவரு கருத்தரி விறிவரு கருத்தரி விறிவரு விறிவர	CO 2	வாழ்க்கை கூ	றுகளை எடுத்துரைத்தல்	ழர்களின்	ഖിரിമ	ரை	குழுத்திட்டம்			
பெடு தமிழ் இலக்கிய வரலாற்றுத்திறனை மேம்பாடு விரிவுரை/ குழு விவாதம்  Offered by தமிழ்த்துறை  Course Content: Pynthamizh (டைந்தமிழ்)  Instructional Hours / Week : 4  Unit Description Text Book & Chapters  1. திருமந்திரம் - மூன்றாம் தந்திரம் (அதிகாரம் 2) 2. நாலாயிரத் திவ்வியப்பிரபந்தம்- மேரியாழ்வர் 3. மாணிக்கவாசகர்-எட்டாம் திருமுறை 4. திருநாவுக்கரசர்- திருவரங்கமாலை  Text Book & Chapters  1. திருமந்திரம் - மூன்றாம் தந்திரம் அட்டமாசித்திகள் திருப்பல்லாண்டு அச்சோப்பதிகம் நான்காம் திருமுறை - தேவாரம்  Suggested Learning Methods: ஆன்மிக் சிந்தனைத்திறன் பெற்றமை  1. கலம்புகம் - நந்திக்கலம்புகம் 91 -100 பாடல்கள்  2. பள்ளு – முக்குடற்பள்ளு 350 - 360 செய்யுள்கள்  4. பிள்ளைத்தமிழ் - மீனாட்சியம்மை பிள்ளைத்தமிழ் - மீனாட்சியம்மை பிள்ளைத்தமிழ் - மீனாட்சியம்மை பிள்ளைத்தமிழ் 5. பட்டினத்தூர் பாடல்கள்  1. இறையும் (வெ.அண்ணாமலை) செல்லாத பணம்  III நாவல் 1. இமையும் (வெ.அண்ணாமலை) செல்லாத பணம்	CO 3	, , ,	•	முதாயச்	, i ,		கருத்தரங்கு			
Offered by தமிழ்த்துறை  Course Content: Pynthamizh (பெந்தமிழ்)  Instructional Hours / Week : 4  Unit	CO 4			. 0		· · · · ·	ஒப்படைவு			
போக் Content: Pynthamizh (பைந்தமிழ்)  Instructional Hours / Week : 4  Unit  Description  Text Book & Chapters  1. திருமந்திரம் - மூன்றாம் தந்திரம் (அதிகாரம் 2) 2. நாலாயிரத் திவ்வியப்பிரபந்தம்- பெரியாழ்வார் 3. மாணிக்கவாசகர்-வட்டாம் திருமுறை 4. திருநாவுக்கரசர்- திருவரங்கமாலை  Instructional Hours  Suggested Learning Methods: ஆன்மிக சிந்தனைத்திறன் பெற்றமை  1. கலம்பகம் - நந்திக்கலம்பகம் 2. பள்ளு – முக்கூடற்பள்ளு 3. குறவஞ்சி – திருக்குற்றாலக்குறவஞ்சி 4. பிள்ளைத்தமிழ் 5. பட்டினத்தார் பாடல்கள்  1. சிற்றிலக்கியங்கள்  Instructional Hours  Suggested Learning Methods: கலந்துரைபயால்  III நாவல்  1. இமையம் (வெ.அண்ணாமலை)  Gசல்லாத பணம்  Instructional Hours  Instructional Hours  OF சல்லாத பணம்	CO 5			மபாடு			கருத்தரங்கு			
Unit         Description         Text Book & Chapters           I         பக்தி இலக்கியங்கள்         1. திருமந்திரம் - முன்றாம் தந்திரம் (அதிகாரம் 2) 2. நாலாயிரத் திவ்வியப்பிரபந்தம்- பெரியாழ்வார் 3. மாணிக்கவாசகர்-வட்டாம் திருமுறை 4. திருநாவுக்கரசர்- திருவரங்கமாலை         அட்டமாசித்திகள் திருப்பல்லாண்டு அச்சோப்பதிகம் நான்காம் திருமுரை - தேவாரம்           Instructional Hours         12 Hours           III         1. கலம்பகம் - நந்திக்கலம்பகம் 2. பள்ளு – முக்கூடற்பள்ளு 3. குறவஞ்சி – திருக்குற்றாலக்குறவஞ்சி 4. பிள்ளைத்தமிழ் - மீனாட்சியம்மை பிள்ளைத்தமிழ் 5. பட்டினத்தார் பாடல்கள்         91 -100 பாடல்கள் 1-10 செய்யுள்கள் 1-10 செய்யுள்கள் 1 -10 செல்லாக மன் 1 -10 செய்யுள்கள் 1 -10 செய்யுள்கள்	Offered	by	தமிழ்த்துற <u>ை</u>							
பக்தி இலக்கியங்கள்  1. திருமந்திரம் - மூன்றாம் தந்திரம் (அதிகரும் 2) 2. நாலாயிரத் திவ்வியப்பிரபந்தம்- பெரியாழ்வார் 3. மாணிக்கவாசகர்-எட்டாம் திருமுறை 4. திருநாவுக்கரசர்- திருவரங்கமாலை  Tenstructional Hours  Suggested Learning Methods: ஆன்மிக சிந்தனைத்திறன் பெற்றமை  1. கலம்பகம் - நந்திக்கலம்பகம் 2. பள்ளு – முக்கூடற்பள்ளு 3. குறவஞ்சி – திருக்குற்றாலக்குறவஞ்சி 4. பிள்ளைத்தமிழ் - மீனாட்சியம்மை பிள்ளைத்தமிழ் 5. பட்டினத்தார் பாடல்கள்  Suggested Learning Methods: கலந்துரையாடல்  Instructional Hours  Tenstructional Hours  1 -10 செய்யுள்கள் 1 -10 செய்யுள்கள் 1 -10 செய்யுள்கள் 2 - 10 செய்யுள்கள் 3 - 10 செய்யுள்கள் 3 - 10 செய்யுள்கள் 1 - 10 செய்யுள்கள்	Course	Content: Pyn	rthamizh (பைந்தமிழ்)			Instruction	nal Hours / Week: 4			
பக்தி இலக்கியங்கள்  2. நாலாயிரத் திவ்வியப்பிரபந்தம்- பெரியாழ்வார் 3. மாணிக்கவாசகர்-எட்டாம் திருமுறை 4. திருநாவுக்கரசர்- திருவரங்கமாலை  12 Hours  Suggested Learning Methods: ஆன்மிக சிந்தனைத்திறன் பெற்றமை  1. கலம்பகம் - நந்திக்கலம்பகம் 2. பள்ளு – முக்கூடற்பள்ளு 3. குறவஞ்சி – திருக்குற்றாலக்குறவஞ்சி 4. பிள்ளைத்தமிழ் 5. பட்டினத்தார் பாடல்கள்  1 -10 செய்யுள்கள்	Unit		Description			Text I	Book & Chapters			
Suggested Learning Methods: ஆன்மிக சிந்தனைத்திறன் பெற்றமை           1. கலம்பகம் - நந்திக்கலம்பகம்         91 -100 பாடல்கள்           2. பள்ளு – முக்கூடற்பள்ளு         350 - 360 செய்யுள்கள்           3. குறவஞ்சி – திருக்குற்றாலக்குறவஞ்சி         1-10 செய்யுள்கள்           4. பிள்ளைத்தமிழ் - மீனாட்சியம்மை பிள்ளைத்தமிழ்         1 -10 செய்யுள்கள்           1 -10 செய்யுள்கள்         358 - 367 பாடல்கள்           Suggested Learning Methods : கலந்துரையாடல்           III         நாவல்         1. இமையம் (வெ.அண்ணாமலை)         செல்லாத பணம்           Instructional Hours           Instructional Hours           Instructional Hours	I	•	(அதிகாரம் 2) 2. நாலாயிரத் திவ்வள் பெரியாழ்வார் 3. மாணிக்கவாசகர்-	வியப்பிரப <u>ர</u> எட்டாம் த	ந்தம்- திருமுறை	திருப்பல்லா அச்சோப்பத	எண்டு நிகம்			
II       1. கலம்பகம் - நந்திக்கலம்பகம்       91 -100 பாடல்கள்         2. பள்ளு — முக்கூடற்பள்ளு       350 - 360 செய்யுள்கள்         3. குறவஞ்சி — திருக்குற்றாலக்குறவஞ்சி       1-10 செய்யுள்கள்         4. பிள்ளைத்தமிழ் - மீனாட்சியம்மை பிள்ளைத்தமிழ்       1 -10 செய்யுள்கள்         5. பட்டினத்தார் பாடல்கள்       358 - 367 பாடல்கள்         Instructional Hours         Suggested Learning Methods : கலந்துரையாடல்         III       நாவல்       1. இமையம் (வெ.அண்ணாமலை)       செல்லாத பணம்         Instructional Hours         Instructional Hours	l			Instruct	ional Hours		12 Hours			
II       சிற்றிலக்கியங்கள்       2. பள்ளு – முக்கூடற்பள்ளு       350 - 360 செய்யுள்கள்         3. குறவஞ்சி – திருக்குற்றாலக்குறவஞ்சி சிற்றிலக்கியங்கள்       4. பிள்ளைத்தமிழ் - மீனாட்சியம்மை பிள்ளைத்தமிழ் - மீனாட்சியம்மை பிள்ளைத்தமிழ் - படல்கள்       1 -10 செய்யுள்கள்         5. பட்டினத்தார் பாடல்கள்       358 - 367 பாடல்கள்         Instructional Hours         Suggested Learning Methods : கலந்துரையாடல்         III       நாவல்       1. இமையம் (வெ.அண்ணாமலை)       செல்லாத பணம்         Instructional Hours         Instructional Hours	Sugges	sted Learning	Methods: ஆன்மிக சிந்த	னைத்திற	ன் பெற்றமை	24 400				
Suggested Learning Methods : கலந்துரையாடல்         III       நாவல்       1. இமையம் (வெ.அண்ணாமலை)       செல்லாத பணம்         Instructional Hours       12 Hours	п	சிற்றிலக்கியங்	2. பள்ளு — முக்கூடி     3. குறவஞ்சி — திரு கள்     4. பிள்ளைத்தமிழ் - பிள்ளைத்தமிழ்	டற்பள்ளு நக்குற்றா ெ மீனாட்ச்	லக்குறவஞ்சி	350 - 360 1-10 செய்ய 1 -10 செய்	செய்யுள்கள் புள்கள் பயுள்கள்			
III       рпай       1. இமையம் (வெ.அண்ணாமலை)       செல்லாத பணம்         Instructional Hours       12 Hours					ional Hours		12 Hours			
Instructional Hours 12 Hours	Suggest	ed Learning N	Methods: கலந்துரையாட	<b>ં</b>						
	III	நாவல்	1. இமையம் (வெ.அ	ண்ணாம	തல)	Ga	Fல்லாத ப <b>ண</b> ம்			
							12 Hours			

IV	<b>இ</b> ல	க்கணு	á	2. வல் 3. யாப் (எழு	லினம் ப்பின் உ	மிகா உறுப்பு மதல்	தொடை	जां	<b>J</b> )		தமிழ்	இலக்க	ணம்	
								In	struction	nal Hou	rs 12	12 Hours		
Suggeste	ed Lear	rning I	Metho	ds : ւ՝	ിഥെധി	ன்றி ச	மிம் எர	<b></b> மதுகு						
V       தமிழ் இலக்கிய         2       1. சிற்றிலக்கியத்தின் தோற்றமும் வளர்ச்சியும்         3. பக்தி இலக்கியத்தின் தோற்றமும் வளர்ச்சியும்         3. பக்தி இலக்கியத்தின் தோற்றமும் வளர்ச்சியும்         4. விண்ணப்பங்கள், மடல்கள் எழுதச்செய்தல்												்க்கிய எ	<b>யரலா</b> று	
									Instructio	nal Hou	rs 12	Hours	1	
Suggeste	ed Lear	rning I	Metho	ds: @	நழு வி	வாதம்								
						<u> </u>			To	otal Hou	rs 60	Hours		
Text	Books	1	''டை கல்		ழ்" தெ கோயம்		լ: தமிi ர்.	<u>ந்த்து</u>	தமிழ் நை, நே ளிய திரு	ரு கை		பாடந அறிவி	பல்	
Referen Web.	ce Boo URLs	2	திரு திரு ஆமி நிை	.ப்.இரா நெல்ே ே ழண்ண லயம்	மநாத வலி,	பிஎ் புதிய (	ாளை நோக்கி6	ഖിണ	க்க உ	_ரையுடல்	- சித்தாந்த ர் கழக லாறு, மீனாட்	வெளிu	<b>፤</b> ்டு,	
		<u> </u>		To	ols for	Assess	sment (2	0 Mai	rks)					
CIA	I	CI	A II		IA III		Semina		Assignme	ent G	roup Project	To	tal	
4			4		5		2		2		3	2	0	
							Mappin	g						
PO / CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	M	L	Н	L	Н	H	M	Н						
CO2	Н	L	M L	L L	H M	L M	H H	H						
CO3	H H	L L	H	L L	Н	M	M	L L						
CO5	Н	L	Н	L	Н	L	Н	H						
H-High; I					<u>I</u>	<u> </u>	1	I	1		l	l .	i .	
		Course	e desig	ned by						Veri	fied by			
Dr. S. Satheesh kumar										Dr. A	.Sridevi			

Course	e Code		•	Title					
23U1F	IIN202		Part - 1 Sanchar Hi	indi (संचार हिन्दी)					
Semes	ter: II		Credits: 3 CI	A: 20 Marks	ESE: 55 N	Marks			
			(Common to all UG Pro	ogrammes)					
Course	Objectiv	'e	पाठ्यक्रम संवादी हिंदी में पारंगत होने	ो में मदद करता है <b>1</b>					
Course	Categor	y	Skill Development						
Develop	pment Ne	eeds	National						
Course	Descript	ion	Improves Reading and Translat	tion Skills.					
Course	Outcom	es		<b>Teaching Methods</b>	Assessme	nt Methods			
CO 1	समझें। अंतर्निहि	मुक्त <sup>े</sup> त साम	ल शब्दावली और व्यावहारिक तत्वों को छंद और कविता के पारंपरिक रूपों में गान्य तकनीकों को समझें।	Lecture / Video Methods	Assi	gnment			
CO 2	में प्रदिष्ट व्याख्या में सक्षम	र्रीत क करने 1 होंगे	कार की संवादात्मक स्थितियों में हिंदी रने, चित्रित करने, नाटक करने और के लिए अर्जित कौशल को लागू करने	Case Studies	Grou	p Project			
CO 3	छात्र औ सक्षम ह		क और अनौपचारिक पत्र लिखने में	Lectures / Video Lessons	Se	minar			
CO 4	अनुवाद बनाता		लोगों के बीच प्रभावी संचार को सक्षम	Lecture / Video Methods	Assi	gnment			
CO 5			प्रा के वक्ता के साथ किसी भी सामान्य भन्न स्तरों पर बातचीत करने में सक्षम	Lecture / Dumb Charades	Se	minar			
Offered	l by Hi	ndi			,				
Course	Content			Instructional Hours	/ Week : 4				
Unit			Description		Text Book	Chapters			
I	आधुनिक	हिंदी व	काव्य : रश्मिरथी , रामधारी सिंह 'दिनव	<b>कर</b> '	1	All			
				Instruction	al Hours	12			
Suggest	ted Learı	ning N	Methods: Visual Learning			02 Hrs			
II	एकांकी संग्रह : 1. शिवाजी का सच्चा स्वरूप – सेठ गोविंददास 2. औरंगजेब की आखिरी रात – रामकुमार वर्मा 3. रीढ़ की हड्डी – जगदीशचंद्र माथुर 4. सिपाही की माँ – मोहन राकेश								
	Instructional Hours 12								
Suggest	ted Learn	ning N	Methods : Auditory			02 Hrs			
III			( छुटटी पत्र , संपादक को पत्र , वि ह लिए आवेदन पत्र , निजी पत्र )	पुस्तकों के लिए आदेश	1	1,2,3			
				Instruction	nal Hours	12			

Suggest	ed Lear	rning I	Metho	ds : Co	mprehens	sive writi	ng					02	2 Hrs
IV	अनुवाद	: हिंदी	ो से अं	ग्रेजी (	अनुवाद	अभ्यास	- 3 )	1 - 3	10 pass	sages	3		1,2
									Insti	ruction	al Hou	rs	12
Suggest	ed Lear	rning I	Metho	ds:A	uditory, V	isual						02	2 Hrs
V	V बोलचाल की हिन्दी : 1. शिक्षक - विद्यार्थी 2. ग्राहक-दुकानदार 3. डॉक्टर - रोगी, 4. साक्षात्कार 5. दो यात्री 6. माँ - बेटा												1,2
									Insti	ruction	al Hou	rs	12
Suggest	ed Lear	rning I	Metho	ds: C	omprehen	sive writ	ing					02	2 Hrs
										To	tal Hou	rs	60
Referen			2. स 3. अ 1. श्रेर 2. बो	रस एक ानुवाद ज् 	/ रामधार्र गंकी नाटक अभ्यास – एकांकी : पं० अय क्ररण निबंध	र्ग : डॉ. 3 दक्षि -डॉ विज ोध्या सिंह	रामकुग् ण भारत यपाल वि उपाध्य	मार वम 1 हिंदी ——— सेंह गाय	ि प्रचार सग	भा , चे			
Web. U	RLs		www	.webd	unia.con	n							
				T	ools for A	Assessn	nent (2	20 Mai	·ks)				
CIA	Ι	CI	A II	(	CIA III		sign ent	S	eminar		Group project	То	tal
4		1	4		5		2		2		3	2	0
						Map	ping						
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	L	Н	Н	M	L	M	L	M					
CO2	M	L	Н	L	Н	Н	Н	L					
CO3	Н	L	L	L	M	Н	M	Н					
CO4	Н	M	M	M	L	L	L	Н					
CO5	M	Н	L	M	M	M	M	M					
H-High;	M-Med	dium; I	L-Low										
		Cour	se desi	gned l	hv					Verifi	ied by		
			S.Swa						Dr.S		nalatha		

NASC | 2023

Course	e Code					
23U1M	IAL202	Part	t – I: Novalum Bhashaapadanavu	ım (നോവലും ഭാഷാം	പഠനവും)	
Semes	ter: II		Credits: 3	IA: 20 Marks	ESE: 55	Marks
			(Common to all UG Pr	_		
Course	Objectiv	⁄e	വിദ്യാർത്ഥികളിൽ മലയാള ഭാഷ നോവലുകൾക്കുള്ള സ്ഥാനവും വ			ഹിതൃത്തിൽ
Course	Categor	y	Skill Development			
Develop	oment No	eeds	Regional			
Course	Descript	tion	Proper guidance, opportunities and their ambitions	d encouragement that h	elp them to	achieve
Course	Outcom			<b>Teaching Methods</b>	Assessme	nt Methods
CO 1		ൂഹത ചിതം	തിലെ ഒരു വിഭാഗത്തിന്റെ	Lecture / Video Methods	Assi	ignment
CO 2	മാറ്റ	റങ്ങൾ		Case studies	Grou	p Project
CO 3			നാശത്തിനെതിരായി ഒന്നിച്ചു റിക്കുന്നു	Lectures / Video Lessons	Se	eminar
CO 4	സമ തിര	ൂഹത റിച്ചറി	തിലെ ഭാഷാസങ്കല്പം  യുന്നു	Lecture / Video Methods	Assi	ignment
CO 5			പ എങ്ങനെ സൃഷ്ടിക്കാമെന്ന് ക്കുന്നു	Lecture / Dumb Charades	Se	eminar
Offered	by Ma	alaya	lam	1	1	
Course	Content			Instructional Hours /	Week: 4	
Unit			Description		Text Book	Chapters
I	നോവൽ	) - ત(	്വിൻമകജെ		1	1 to 16
				Instruction	al Hours	12
Suggest	ted Leari	ning l	Methods: Visual Learning			02 Hrs
II	നോവൽ	) - ત(	്വ)ൻമകജെ		1	17 to 34
C .	. 1 7		M.A. I	Instruction	al Hours	12
Suggest	ted Leari	ning I	Methods: Auditory Method			02 Hrs
III	നോവൽ	ં - ત(	))ൻമകജെ		1	35 to 51
C	. 1 7		M. d	Instruction	al Hours	12
			Methods: Comprehensive Writing			02 Hrs
IV	ഭാഷാപ	U(I)o	- തെളിമലയാളം		1	1,2,3
C			M-4h-1-	Instruction	al Hours	12
Suggest	ted Leari	ning I	Methods: Auditory & Visual Method			02 Hrs

V	ഭാഷാപ	JOMo	- തെളി	<u>ി</u> മലയാള	<u>3</u> 0						1	2	1,5
									Instru	ctiona	l Hour	S	12
Suggest	ed Lear	rning I	Methods	: Com	prehensi	ve Writi	ng					02	Hrs
											l Hour		Hrs
Tex	t Book	s	1. അംബികാസുതൻ മാങ്ങാട്, എൻമകജെ - ഡി.സി.ബുക്സ് കോട്ടയം 2. എം.എൻ.കാരശ്ശേരി, തെളിമലയാളം - ഡി.സി.ബുക്സ് കോട്ടയം 1. പ്രൊഫ.എൻ.കൃഷ്ണപ്പിള്ള, കൈരളിയുടെ കഥ - ഡി.സി.ബുക്സ്										
Refero	ence Bo	oks	2. დ ი 3. დ (ი 4. ი(	കാട്ടയം ഡാ. പ ഗി.സി.ബ ഡാ.കെ. പസ്ഥാനം	മന രാ വുക്സ് എം. ജേ ങ്ങളിലൂ	മചന്ദ്രൻ കോട്ടയ ഭാർജ്, ശ ടെ - വ	ർ നായ ം ആധുന് ധി.സി.ക	ാർ, സ റിക മദ ബുക്ന	lയുടെ കഥ മ്പൂർണ്ണമല ലയാള സ ഗ് കോട്ടയ ലഘട്ടത്തി	ചയാള റാഹിത റം	സാഹിം ഗൃ ചരിത്ര	ത്യ ചര	
We	b. URL	us		www.ko www.m		naonlin	e.com						
CIA	Ι	C	IA II		A III		<u> </u>	nment Seminar		. Group project		Total	
4			4		5		2		2		3		0
						Mapp	ing						
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	Н	L	Н	Н	Н	Н	Н	Н		·			
CO2	Н	L	Н	M	Н	M	Н	Н					
CO3	M	L	M	M	M	Н	Н	M					
CO4	Н	L	L	Н	L	Н	Н	Н					
CO5	M	L	L	M	L	Н	Н	Н				_	_
H-High;	M-Med	lium; I	L-Low										
		Cours	e design	ed by			Verified by Chairman						
Ms. N. RAJANI						Dr. SMITHA C. R.							

Cou	rse Code		Title							
23U	1FRN202	Part – I : Le F	rançais Fondamenta	ıl – II						
Sem	nester : II	Credits: 3 CI	A : 20 Marks	ESE : 55	Marks					
		(Common to all UG	Programmes)							
Course	Objective	This course is comprised of deapply the grammatical structure		categories	and aims to					
Course	Category	Skill Development								
Develop	oment Needs	Global								
Course	Description	This course aims to develop communicative competence of the students in French, to create cultural awareness, to promote autonomy in learning French.								
Course	Outcomes		Teaching Methods	Assessm Methods						
CO 1	1	understanding of French culture foundation of verbs.			ignment					
CO 2	+	place, learn pronom en, y and	Tutorial / Case Studies	Seminar						
CO 3	Recall the te	nses and learn Imparfait tense	Lectures / Video Lessons	(	Quiz					
CO 4	Write about COD,	the weather and learn pronom	Word game / Lecture	Ass	ignment					
CO 5	Write sho Comprehend COI	rt passages and translate the passage and learn pronom		p project						
Offered	by Departi	nent of French								
Course	Content		Instruction	onal Hours	s / Week: 4					
Unit		Description		Text Book	Chapters					
I	Goûter à la ca	mpagne		1	5					
			Instruction	al Hours	12					
Suggest	ted Learning I	Methods: Worksheets, TV5 App	)							
II	Voyager dans	sa ville		1	6					
			Instruction	al Hours	12					
Suggest	ted Learning I	Methods: Kahoot App, Duoling	0							
III	Faire du neuf	avec du vieux		1	7					
			Instruction	al Hours	12					
Suggest	ted Learning I	Methods: Comprehensive Wri	ting							

IV	Change	er d'air	•										1		8
										Instr	uctio	nal	Hours	5	12
Suggest	ed Lear	rning I	Method	ds:C	ompre	ehens	ive W	riting							
V	Deveni	r éco-c	citoyen										1		9
Instruction													Hours	S	12
Suggested Learning Methods: Translating simple sentences and short passages															
Total												Hours	5	60	
Text Books  Saison 1 Méthode de Français – Marie-Noëlle Cocton, Ar Oliveira, Dorothée Dupleix (Unit 5 to 9)											Anouch	nka De			
Reference Books A1 Echo Méthode de Français															
Web. URLs Lingua.com, TV 5 app, Learn French by podcast (spotify)															
				T	ools fo	or As	sessm	ent (2	0 N	(Iarks)					
CIA	I	CL	A II	C	IA III	A	ssign	ment Seminar			(	Quiz		Total	
	4		4		5			2		2		3		20	
				•		M	[appir	ıg							
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO	7 PO	<b>)</b> 8	PSO1	PSC	)2	PSO3	PSO4	PSO5
CO1	-	-	Н	M	Н	Н	-	-	-	-	-		-	-	-
CO2	-	-	Н	L	Н	M	-	-	•	-	-		-	-	-
CO3	-	-	-	M	M	Н	-	-	-	-	-		-	ı	ı
CO4	-	-	L	M	L	Н	_		-	-	-		-	-	-
CO5	-	-	L	-	Н	-	_			-	-		-	ı	-
H-High:	M-Med	dium; I	L-Low												
		Course	e desig	ned by	y					Ver	ified	by	Chairn	nan	
Dr. R. Malathi  Dr. R. Malathi															

Cou	rse Code		Title								
23U	2ENG202	Part – II : Pr	ofessional English -	- II							
Sem	nester : II	Credits: 3	ESE:	55 Marks							
		(Common to all UG Programmes)									
Course	Objective	To equip the students with the Facilitate the insight and taste of		l its functi	onal usage.						
Course	Category	Skill Development									
Develop	pment Needs	Global									
Course	Description	SD: Helps to develop LSRW skill									
Course	Outcomes		<b>Teaching Methods</b>	Assessme	nt Methods						
CO 1	Mastering li	fe skills through prose discourse.	Lecture/Tutorial	Ass	ignment						
CO 2	Acquire eth genre.	ics and values through poetic	Lecture/Tutorial	Ass	ignment						
CO 3	through sho		Lecture/Tutorial	Sp	eaking						
CO 4	Enhance flu confidence.	nency over language with self-	Lecture/Tutorial	Reading							
CO 5		ow the language is used in develop LSRW Skills	Lecture/Tutorial	W	riting						
Offered	l by   Departi	nent of English									
Course	Content		Instruction		s / Week: 4						
Unit		Description		Text Book	Chapters						
I	Issac Asimov	- Tolerance ndhi - Women Not the Weaker Sex - The Fun They had <b>tivity</b> – Comprehension practice fr		1	1-3						
		*	Instruction	al Hours	12						
Suggest		Methods: Cooperative Learning									
II	William Blak Alexander Po	Stopping by Woods on a Snowy Fe - A Poison Tree pe - Ode on Solitude tivity - Group Discussion Forum	Evening	1	4-6						
			Instruction	al Hours	12						
Suggest		<b>Methods: Inquiry Based Learnin</b>	ng								
ш	Mark Twain - Japanese Folk Hector Hugh <b>Reading Acti</b> Short-stories	enhancement from	1	7-9							
			Instruction	al Hours	12						
Suggest	ted Learning I	Methods : Classroom Activity									

IV	Grami Article Concor Active Direct Writin	s d and Pa and Ind	onents ructiona	1		)-13 <b>12</b>								
Suggest	od I on	rnina l	Motho	de • Di	roct N	<b>Sothod</b>			IIISU	ucuona	I Hour	8	14	
V	Resume Writing Email Writing Dialogue Writing Testimonial Writing Creative Writing Instructional Hours												4-17	
									Instr	uctiona	l Hour	s	12	
Suggest	ed Lea	rning ]	Metho	ds : Ac	ctivity	Based	Learn	ing		TE :	, TT		<u> </u>	
			-						1 37.0		l Hour	S	60	
Text Books  Compiled by the Department of English NASC.  CLIL (Content & Language Integrated Learning) – Module by TANSCHE NOTE: (Text: Prescribed chapters or pages will be given to the students by the department and the college)														
Web. U	KLS			T	ools fo	r Asse	essmen	t (20 N	(Iarks)					
CIA	I	CI	A II	C	IA III	As	signm	ent	Speakin	ıg Re	ading	To	Total	
1	4		4		5		2	2 2			3		20	
						Ma	pping							
CO \ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	M	L	Н	L	M	M	Н	M	Н	Н	M	Н	M	
CO2	M	L	Н	L	Н	M	Н	M	Н	Н	M	Н	M	
CO3	M	L	Н	L	Н	Н	Н	Н	Н	Н	M	Н	M	
CO4	M	L	Н	L	Н	L	Н	Н	Н	Н	M	Н	Н	
CO5	Н	M	Н	L	Н	Н	Н	Н	Н	Н	Н	Н	M	
H-High;	M-Med	dium; l	L-Low											
		Cours	e desig	ned by	y				Ver	rified by	Chairı	nan		
Course designed by  Werified by Chairman  Dr. R. Malathi														

Cours	e Code			Title						
23U3F	RC204		Core Pape	er IV – Forensic Ballisti	cs					
Semes	ter : II		Credits: 4	CIA: 25 Marks	ESE: 75	Marks				
Course	Objectiv	ve	To learn to solve the vainvolved.	rious crimes in which	firearms and	l tools are				
Course	Categor	·y	Employability							
Develo	pment N	eeds	Global/National							
Course	Descrip	tion	Forensic Ballistics deals with Forensic Analysis of evidences related to firearms and tool marks. The course includes features, collection methods and analysis of ballistics evidences and tool marks.							
Course	Outcom	es		<b>Teaching Methods</b>	Assessme	ent Methods				
CO 1	and an	nmun		Lecture/Demonstration	Assi	gnment				
CO 2	ammu	nition		Video lectures/Tutorials	Se	minar				
CO 3	variou involv	s crin	skills to investigate the nes in which firearms are	Lectures/ Tutorials	(	Quiz				
CO 4			science of comparison of cartridge cases.	Tutorial / Case Studies	Ac	ctivity				
CO 5			lls to develop tool marks scene and analyse it.	Lectures/ Tutorials	Assi	gnment				
			c Science							
Course	Content	;		Instruct	ional Hours	/ Week: 4				
Unit			Description		Text Book	Chapters				
	Introdu	ntroduction to Ballistics cope of forensic ballistics- History of firearms: lock mechanism f various firearms- Firearms: Classification: Based on riffling, ction mechanism and loading- Parts of firearms: Butt, chamber, lagazine, firing mechanism and barrel. Concept of bore and alibre. Improvised, country made & imitative firearms. Features f the following firearms: 12 bore, INSAS, 0.315, revolver, pistol,								
I	of vario action n magazir calibre. of the fo	f fore us fir necha ne, fir Impro	nsic ballistics- History of fir earms- Firearms: Classificanism and loading- Parts of the ring mechanism and barrel ovised, country made & imi-	ation: Based on riffling, firearms: Butt, chamber, . Concept of bore and tative firearms. Features	1	1,2,3				
	of vario action n magazir calibre. of the fo carbine,	f fore us fir necha ne, fir Impro llowi AK	nsic ballistics- History of firearms- Firearms: Classificationism and loading- Parts of firing mechanism and barrelovised, country made & iming firearms: 12 bore, INSAS 47, SLR.	ation: Based on riffling, firearms: Butt, chamber, Concept of bore and tative firearms. Features 5, 0.315, revolver, pistol,  Instruction	1 onal Hours	1,2,3				
	of vario action n magazir calibre. of the fo carbine,	f fore us fir necha ne, fir Impro Illowi AK	nsic ballistics- History of fir earms- Firearms: Classifications and loading- Parts of the ring mechanism and barrel ovised, country made & iming firearms: 12 bore, INSAS 47, SLR.	ation: Based on riffling, firearms: Butt, chamber, Concept of bore and tative firearms. Features 5, 0.315, revolver, pistol,  Instruction						
	of varion action in magazir calibre. of the forcarbine,  ted Lear Internation Ammunand War Definition powder, of proping develop Ballistic	f fore us fir necha ne, fir Improblem AK 4  ning l and ition, ds. U on, Cl single ellant ed in es: De gas fir	nsic ballistics- History of firearms- Firearms: Classificationism and loading- Parts of firing mechanism and barrelovised, country made & iming firearms: 12 bore, INSAS 17, SLR.  Methods: Library extra restricted to the firearms as bullet mater as a bullet mater a	Instruction and propellant, Bullets, Pellets rial. Internal Ballistics: ner and propellant (black e). Ignition and burning ssive burning. Pressure of recoil. Intermediate notion of projectile by						
Sugges	of varion action in magazir calibre. of the forcarbine,  ted Lear Interna Ammun and Wa Definition powder, of prop develop Ballistic firearm,	f fore us fir necha ne, fir Improblem AK 4  ning l and ition, ds. U on, Cl single ellant ed in es: De gas fir	nsic ballistics- History of firearms- Firearms: Classificationism and loading- Parts of firing mechanism and barrelovised, country made & iming firearms: 12 bore, INSAS 17, SLR.  Methods: Library extra restricted to the firearms as bullet mater as a bullet mater a	Instruction and propellant, Bullets, Pellets rial. Internal Ballistics: ner and propellant (black e). Ignition and burning ssive burning. Pressure of recoil. Intermediate notion of projectile by uzzle flash, muzzle blast	onal Hours	12				

				-						
III	motion of protrajectory- can nature of air-r Physics of shot temporary and	External Ballistics: Definition, vacuum trajectory, Equations of motion of projectile, gyroscopic equilibrium of bullets, vacuum trajectory- calculation, effect of air resistance on trajectory and nature of air-resistance phenomena. Terminal Ballistics: Definition. Physics of shock waves, shock waves within the body; Cavitations, temporary and permanent cavities. Behaviour of various types of bullets on hitting the target, Ricochet and its forensic aspects.								
	ounces on mee		al Hours	12						
Sugges	sted Learning N	Methods: Hands on training	ar Hours	12						
	Evidentiary (									
IV	Calculation of trigger pull Determination of range of firing for shotguns: Burning, scorching, blackening and Tattooing. Characteristics of contact shots, Walker's test. Evidentiary clues: Types, occurrence, collection and packing. Matching of crime & test Bullets and cartridge cases. Comparison microscope, Identification of bullets and their comparison. Factors affecting the formation of striations. Gun Shot Residues (GSR): formation, composition and positioning of GSR. Collection, chemical methods of analysis and instrumental methods of analysis.									
		Instruction	al Hours	12						
Sugges	sted Learning I	Methods: Laboratory practice								
V	Tool Marks: Types of to combination of Class charact Lifting of tool cut marks; For Expert testim applications in	1	6							
	1	Instruction	al Hours	12						
Sugges	sted Learning I	Methods: Online training								
- 88	<u> </u>		al Hours	60						
Text B	Books	1. Sharma, B.R. (2017) Firearms in criminal investigation and trials: An integrative approach. Gurgaon, Haryana, India: Lexis Nexis.								
Refere	ence Books	<ol> <li>J. Howard Mathews, Charles C. Thomas; Fir VolI, II &amp; III, Springfield Illinois, 1973.</li> <li>Hatcher, Jury and Weller; Firearms Investigatic Evidence, Stackpole Books, Harrisburg, PA, 1</li> <li>Vincent Di Maio; Gunshot Wounds, CRC Pre 1999.</li> <li>Brain J. Heard; Hand book of Firearms and Bandand, 1997.</li> <li>TA. Warlow; Firearms- The Law and Forensic and Francis London, 1996.</li> </ol>	on, Identifi 977. ss, Washir allistics, Jo	cation and ngton, DC, ohn Willey						

	Tools for Assessment (25 Marks)												
CIA	CIA I CIA II		CIA III Assig			signn	ment Seminar		ar	Quiz		Total	
5			5		6		3		3 3		3	2	5
Mapping													
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M	Н	M	Н	L	-	Н	Н	L	M	Н	L	L
CO2	M	Н	M	Н	L	-	Н	Н	L	Н	Н	M	Н
CO3	M	Н	Н	Н	L	-	L	L	L	Н	Н	L	L
CO4	M	Н	M	Н	Н	ı	L	L	L	Н	Н	L	L
CO5	M	Н	M	Н	Н	ı	L	L	L	M	Н	-	L
H-High;	M-Me	dium; l	L-Low										
	(	Course	desig	ned by	y			Verified by Chairman					
Mr. Akh	il Benn	ny					N	Mr. Akhil Benny					

a	G 1			TO A					
Course				Title	_				
23U3F				V - Instrumental Anal					
Semest	ter : II		Credits: 3	CIA: 20 Marks	<b>ESE: 55</b>				
Course	Objectiv	ve	To learn the fundamental p	rinciples of various instr	uments used	l in Forensic			
			Science lab						
	Categor oment No		Employability Global						
	Descrip		Instrumental techniques ar	re fundamental to any la	horatory ar	alveie Thie			
Course	Descrip	uon	course is designed to prov						
			used in Forensic Labs, esp			lytical tools			
Course	Outcom	es	, <u>, , , , , , , , , , , , , , , , , , </u>	<b>Teaching Methods</b>		ent Methods			
CO 1			physics and working of vical tools and instruments.	Lecture/Demonstration	Ass	ignment			
CO 2	Ability	to se	lect suitable instrument for of a given forensic sample.	Lecture/ Case studies	Cas	e studies			
CO 3	Get far method	niliar Is	with molecular analytical	Lecture/Demonstration	Se	eminar			
CO 4	Learn t		chniques used in elemental	Lecture/Video lecture		Quiz			
CO 5		qualita	ults of various instruments ative and quantitative	Lecture/Demonstration	Ass	ignment			
Offered	l by Fo	rensi	c Science	1	I				
	Offered by Forensic Science  Course Content Instructional Hours / Week : 4								
Unit			Description		Text Book	Chapters			
I	Measure Concept Rules,	ement s. UV Beer-	Vis Spectroscopy Introduc Lambert's Law and its	romatography General ction, Woodward-Fieser	1	all			
	Instrume	entatio	on and applications.	Instructio	nal Hours	12			
Suggest	ted I ear	ning l	Methods: Library extra re		nai nours	12			
Dugges	Chroma			aumg					
II	Basic Chroma	Conc tograp	- •	Chromatography and	1	11,12,13			
				<u> </u>	nal Hours	12			
Suggest			Methods: Video lectures						
Ш	equation and appl and Comicrosco	n, ray lication ompou	Lens systems, Principle diagrams, working, sample points of following in Forensic and microscope, Stereo Phase contrast and Polar hicroscope, and Scanning electroscope.	preparation Science: Simple microscope,Comparisor rized light microscope	1	7,8,9			
					nal Hours	12			
Suggest	ted Lear	ning l	Methods: Hands on trainir	ng					

Spectro Centrif	oscopy, Sugation	, Atom n, Ele	nic En	nission	Spec	troscop	y, Cr	ystallogi	raphy,	1	7	,8,9		
								Instr	uctiona	l Hour	s	12		
ted Lea	rning l	Metho	ds: La	borat	ory pr	actice					•			
direct and io Magne Detector Interpretation	inlet, conization tism- nors- far etation	chroma on sou nass an caday of	nromatographic inlets, Ionization- ionization types a sources- EI, ESI, CI, FAB; vacuum system. ass analyzers- Quadrupole, Time of Flight, Ion trap. aday cup, electron multiplier, Scintillation counter. of Mass spectrograph. Applications of mass											
~F								Instr	uctiona	l Hour	s	12		
ted Lea	rning l	Metho	ds: Oı	nline t	rainin	g								
		Total Hours 60												
oks														
nce Boo	ks	3 4	. Bori . Mod 1973	row, Monesen 3.	Iolecul s A.A.	lar Spe et al.,	ctrosc Scien	opy, 198 tific Evid	80. dence in	Crimin		es,		
			To	ols fo	r Asse	ssmen	t (20 I	Marks)						
\ I	CL	A II					,	•	ar	Ouiz	To	tal		
										_		20		
PO1	PO2	PO3	PO4	PO5			POS	PSO1	PSO2	PSO3	PSO4	PSO5		
L	M	-	Н	-	Н		Н	-			-	Н		
Н	Н	-	Н - Н Н - Н Н											
M	M	-	Н	-	Н	Н	Н	-	Н	Н	-	Н		
M	M	_	Н		Н	Н	Н	_	M	Н		Н		
M	Н	-	Н	-	Н	Н	Н	-	Н	Н	-	Н		
; M-Me	dium; l	L-Low												
	Course	desig	ned by	<b>V</b>				Verifi	ed by (	Chairma	an			
						N	Ir. Ak							
	Spectro Centrif Method  ted Lea Mass S Princip direct : and io Magne Detecto Interprespectro  ted Lea  ooks  A I  4  POI L H M M M ; M-Me	Spectroscopy. Centrifugation Methods of A  ted Learning I  Mass Spectro Principle, Co direct inlet, co and ionization Magnetism- in Detectors- far Interpretation spectrometry  ted Learning I  ooks  A I CL 4  PO PO1 PO2 L M H H M M M M M M M M H; M-Medium; I	Spectroscopy, Atom Centrifugation, Ele Methods of Analysis  ted Learning Metho  Mass Spectrometry Principle, Compone direct inlet, chroma and ionization sou Magnetism- mass and Detectors- faraday of Interpretation of Inspectrometry in fore  ted Learning Metho  ted Learning Metho  Tooks  1 2 3 4 5  A I CIA II 4 4 4  PO PO1 PO2 PO3 L M - H H - M M - H H - M M M - S M- S M- S M- S M- S M- S M-	Spectroscopy, Atomic En Centrifugation, Electroph Methods of Analysis  ted Learning Methods: La Mass Spectrometry: Principle, Components- S direct inlet, chromatograp and ionization sources- Magnetism- mass analyzer Detectors- faraday cup, el Interpretation of Mass spectrometry in forensic so  ted Learning Methods: On  1. ML 2. Yind 3. Born 4. Mood 197 5. Gills  To A I CIA II CIA 4 4  O PO1 PO2 PO3 PO4 L M - H H H - H M M - H M M - H M M - H M M - H M M - H M M - H M M - H M M - H M M - H M M H - H M M H - H  ; M-Medium; L-Low  Course designed by	Spectroscopy, Atomic Emission Centrifugation, Electrophoresis Methods of Analysis  ted Learning Methods: Laborat Mass Spectrometry:  Principle, Components- Sample direct inlet, chromatographic in and ionization sources- EI, E Magnetism- mass analyzers- Qua Detectors- faraday cup, electron Interpretation of Mass spectr spectrometry in forensic science.  ted Learning Methods: Online to the Mass of the	Spectroscopy, Atomic Emission Spect Centrifugation, Electrophoresis, Sign Methods of Analysis  ted Learning Methods: Laboratory promass Spectrometry:  Principle, Components- Sample inlets direct inlet, chromatographic inlets, Id and ionization sources- EI, ESI, Cl Magnetism- mass analyzers- Quadrupol Detectors- faraday cup, electron multiplication of Mass spectrograph spectrometry in forensic science.  ted Learning Methods: Online training  1. MLA. Skoog, Do Fort Worth: Saur 1. Lundquist and Cl 2. Yinon, Forensic 3. Borrow, Molecul 4. Moonesens A.A. 1973.  5. Gilbert, GC-MS  Tools for Asset 4 CIA II CIA III As 4 5  May 6 PO1 PO2 PO3 PO4 PO5 PO6 L M - H - H - H - H - H - H - H - H - H -	Spectroscopy, Atomic Emission Spectroscop Centrifugation, Electrophoresis, Significant Methods of Analysis  ted Learning Methods: Laboratory practice Mass Spectrometry:  Principle, Components- Sample inlets- Bate direct inlet, chromatographic inlets, Ionization and ionization sources- EI, ESI, CI, FAI Magnetism- mass analyzers- Quadrupole, Tim Detectors- faraday cup, electron multiplier, Some Interpretation of Mass spectrograph. Appropriate Appropriate Methods: Online training  1. MLA. Skoog, Douglas Fort Worth: Saunders Components of Mass Spectrograph. Appropriate Methods: Online training  1. Lundquist and Curry, Molecular Spectrometry in forensic science.  1. Lundquist and Curry, Molecular Spectrometry in Moonesens A.A. et al., 1973.  3. Borrow, Molecular Spectrometry in Gibbert, GC-MS guide to Moonesens A.A. et al., 1973.  5. Gilbert, GC-MS guide to Mapping  1. CIA II CIA III Assignmate A I A I CIA III Assignmate A I A I I CIA III Assignmate A I A I I I I I I I I I I I I I I I I	Spectroscopy, Atomic Emission Spectroscopy, Crestrifugation, Electrophoresis, Significance of Methods of Analysis  ted Learning Methods: Laboratory practice  Mass Spectrometry:  Principle, Components- Sample inlets- Batch Inledirect inlet, chromatographic inlets, Ionization- io and ionization sources- EI, ESI, CI, FAB; van Magnetism- mass analyzers- Quadrupole, Time of FD Detectors- faraday cup, electron multiplier, Scintill Interpretation of Mass spectrograph. Applications spectrometry in forensic science.  1. MLA. Skoog, Douglas A. Prefort Worth: Saunders College 1. Lundquist and Curry, Method 2. Yinon, Forensic Application 3. Borrow, Molecular Spectrosc 4. Moonesens A.A. et al., Scient 1973.  5. Gilbert, GC-MS guide to Igni Tools for Assessment (20 Mapping 1973)  Tools for Assessment (20 Mapping 1974)  Tools for Pol	Spectroscopy, Atomic Emission Spectroscopy, Crystallog Centrifugation, Electrophoresis, Significance of Instrument Methods of Analysis    Instructed Learning Methods: Laboratory practice	Instructional ted Learning Methods: Laboratory practice  Mass Spectrometry: Principle, Components- Sample inlets- Batch Inlet, probe inlet, direct inlet, chromatographic inlets, Ionization- ionization types and ionization sources- EI, ESI, CI, FAB; vacuum system. Magnetism- mass analyzers- Quadrupole, Time of Flight, Ion trap. Detectors- faraday cup, electron multiplier, Scintillation counter. Interpretation of Mass spectrograph. Applications of mass spectrometry in forensic science.    Instructional ted Learning Methods: Online training	Spectroscopy, Atomic Emission Spectroscopy, Crystallography, Centrifugation, Electrophoresis, Significance of Instrumental Methods of Analysis    Instructional Hourited Learning Methods: Laboratory practice	Spectroscopy, Atomic Emission Spectroscopy, Crystallography, Centrifugation, Electrophoresis, Significance of Instrumental Methods of Analysis    Instructional Hours		

Course	Code				Title				
23U3F1	RP206		Core Paper V	I – Fo	rensic Ballistics Pra	ctical			
Semest	er : II		Credits : 4	CIA	A: 30 Marks	ESE: 45 Marks			
Course	Objecti	ve	To learn the techniques	of ana	lysing ballistics and	tool marks evidences			
Course Category Employability									
Develop	ment N	eeds	Global/National						
Course	Descrip	tion	firearms and tool marks	. The	Forensic Analysis of evidences related to course includes features, collection stics evidences and tool marks				
Course	Outcom	ies			<b>Teaching Methods</b>	<b>Assessment Methods</b>			
CO 1	-	y vario ge cases	ous cartridges, bullets	and	Demonstration / Video Lessons	Practical			
CO 2	Identif	y differ	ent firearms		Demonstration/ Video Lessons	Practical			
CO 3	_	e skills to balli	to conduct various spot stics	tests	Demonstration / Video Lessons	Practical			
CO 4	System		ing of tool marks from va	rious	Demonstration / Video Lessons	Practical			
CO 5	Develo	p skill t	to compare tool marks		Demonstration / Video Lessons	Practical			
Offered	by Fo	rensic	Science						
Course	Content	t			Instructio	onal Hours / Week : 4			

S. No.	Experiment
1	Identification of parts of firearms
2	Preliminary examination of various characteristics of fired bullets and shots.
3	Preliminary examination of various characteristics of fired cartridge cases.
4	Chemical tests for powder residues and barrel wash.
5	Examination and comparison of fired and test bullets and shots.
6	Examination and comparison of fired and test cartridge cases.
7	Collection and packing of Gun Shot Residues.
8	Identification of bullet using holes physical and chemical examination.
9	Lifting of tool marks from different surfaces
	TOTAL 60 Hours

	Tools for Assessment (30 Marks)									
Analytical Skill	Lab Performance	Interence   Test   Test II   Observation   Total								
4	4	4   4   7   7   4   30								

	Mapping												
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M	M	Н	Н	M	-	L	L	L	Н	Н	Н	L
CO2	M	M	Н	Н	Н	-	Н	Н	L	Н	Н	Н	Н
CO3	M	M	Н	Н	-	-	L	L	1	Н	Н	M	L
CO4	M	M	Н	Н	M	-	L	L	-	Н	M	L	L
CO5	M	M	Н	Н	-	-	L	L	-	M	Н	L	L

Course designed by	Verified by Chairman
Mr. Akhil Benny	Mr. Akhil Benny

Course	e Code			Title								
23U3F	RA202		Allied Paper II - Forensic Physics									
Semest	ter : II		Credits: 3	A: 20 Marks	]	ESE : 55	Marks					
Course	Objectiv	'e	To develop the skill to identify	and analyse phy	ysical evi	dences.						
Course	Categor	y	Employability									
Develop	ment No	eeds	Global									
Course	Descript	ion	Forensic Physics is the co- individualisation of physical forensic physics are glass, pair	evidences. The 1	najor evi	dences th	nat analysed in					
Course	Outcom	es		Teaching M	ethods	Assessn	nent Methods					
CO 1	Analys evidence		glass and deduce glass	Lecture/Demoi	nstration	A	ssignment					
CO 2	Ability	to in	dividualise soil samples	Lecture/ Case s	studies	Ca	ase studies					
CO 3	Compa the sou		rious paint samples to find put	Lecture/Demor	nstration		Seminar					
CO 4	Restore	e eras	ed identification marks	Lecture/Video	lecture		Quiz					
CO 5	Perform	n qua	lity test for building materials	Lecture/Demoi	nstration	A	ssignment					
Offered	by Fo	rensi	c Science			•						
Course	Content				Instruct	tional Ho	urs / Week: 3					
Unit			Description			Text Book	Chapters					
I	fractures cone fra fragmen matching	s, Det acture tation g, der	s and their composition. Foren ermination of direction of imp , radial fracture, rib marks, h , Examination of glass: colour nsity comparison, refractive in of glass evidence, Case studies	pact: concentric nackle marks, b r, fluorescence, dex, elemental	fracture, ackward physical	1	Sec 7					
I					ructiona	l Hours	9					
Suggest	ed Learı	ning I	Methods: Video lectures									
II	examina microsco different	tion opic ( ial th	I types of soil; Composition an of soil: particle size dist examination, density gradient ermal analysis, elemental analy e studies.	ribution, turbid analysis, igniti	ity test, on loss,	1	Sec 9					
II.				Inst	ructiona	l Hours	9					
Suggest		ning I	Methods: Library extra readii	ng								
ш	microsco chemica analysis techniqu	opic a l ana Pyr e - T	t and their composition, Forens and macroscopic studies, Pigmalysis, physical matching, so olysis, Cyclic voltammetry, TLC, Colorimetry. IR spectros of paint evidence. Case studies.	nent distribution dubility test, ed AAS. Chromate copy, X-ray dif	Micro- lemental	1	Sec 5					
			1		ructiona	l Hours	9					
Suggest	ed Learı	ning I	Methods: Online training									

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		od of 1							9VA	Meth	ods of			
IV		eration, l		_				_				1	Se	c 6
1 4		rding of										1	50	CO
		ding of					ieni su	races	. 1	yre ivia	iks and			
	Spece	i determ	mation	III acc	iuciii c	ascs.				Inctr	uctiona	l Houre		9
Suggest	od I o	orning N	Mothor	da. I a	horote	NWY NY	enation			111511	uctiona	1 110015		<del>,</del>
Suggest		arning I		us: La	Dorau	ory pr	actice							
		ling Mat		d thair	aamn	agitia	n Doto	rmino	tion	of odu	ltaranta			
$\mathbf{v}$		s of cem			_							1	Con 11	12 12
V		ysical, cl										1	Sec 11	1,12,13
	-	sis of E				iateria	ai. Alia	Tysis	OI (	ement	mortar,			
	ceme	nt concre	ete and	stones	S					T-n-cr4+	04: 0 0	l II arrag		9
Cuana	ad T a	a wasin a N	/ ath a	Ja. II.	da	. 4				Instr	uctiona	Hours		9
Suggest	tea Le	arning I	vietno	us: Ha	inas or	ı traii	ning				TD . 4 . 1	1 TT	T 4	· ·
			1		. ,		3.6	11 7	<u>.                                    </u>			l Hours	l	15 c
Text Bo	oks		1.	. Fore	-	nysics	Manua	al by I	Jire	ctorate	of Foren	sic Scien	ice, Gov	t. of
			6.	. Wor	king P	roced	ure Ma	nual:	Phy	sics BP	R&D Pu	ıblicatior	i, 2000.	
			7.	. R. S	aferste	in; Fo	rensic	Scien	ce F	Handboo	ok, Vol	I, II, 200	4.	
			8.	8. B. Caddy; Forensic Examination of Glass and Paints Analysis and Interpretation ISBN 0784 05749, 2001.										
Referen	oo Ro	oke		Inte	rpretati	ion IS	BN 078	34 05′	749,	, 2001.				
Kelel el	ice Do	UKS	9.	. Jam	es Mic	chael	Curran	, Tac	hia	Natilie	Hicks a	and John	S. Buc	kleton;
				Fore	ensic Ir	nterpre	etation	of Gla	ass l	Evidenc	e, CRC	Press, 20	00.	
			10						isic	Exami	nation o	f Paints	and Pig	gments,
				Tay	lor & F	ranci	s, NY,	2001						
			1.	https	s://epg	p.infli	bnet.ac	.in/ep	gpd	lata/upl	oads/epg	p_conter	t/S0000	16FS/
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Web. U	KLS		2.	https	s://epg	p.infli	bnet.ac	.in/ep	gpd	lata/uplo	oads/epg	p_conter	nt/S0000	16FS/
					10							24_e-text		
				7	Tools f	or As	sessme	nt (20	M	arks)				
CIA	I	CIA	II	C	IA III	A	ssignm	ent	S	eminar		Quiz	To	tal
4		4	•		5		2			2		3	2	20
				•		I	Mappii	ng			•		•	
CO \PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO	8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	Н	Н	Н											
CO2	M	Н	Н	Н	M	-	M	L		-	Н	Н	L	M
CO3	M	Н	Н	Н	M	-	M	L		-	Н	Н	L	L
CO4	Н	Н	Н	Н	M	-	Н	L		-	Н	Н	L	L
CO5	Н	Н	Н	Н	M	-	Н	L		-	Н	Н	L	Н
	; M-M	edium; I	L-Low				1	•						
		Cours	se desi	gned b	OV					Ver	ified by	Chairm	an	
Mr. Ak	hil Bei			<b></b>	J			Mr.	Akh	il Benn				

Course Co	de	Title										
23U3FRR2	03		Allied Pa	per XII –	- <b>F</b> (	orensic Chen	nistry Pra	actical				
Semester :	II	Cı	redits: 4		CL	A: 40 Marks	. ]	ESE : 60	Marks			
Course Obj	ective	Dev	elop the skill	lset to per	for	m basic wet la	ıb experi	ments.				
Course Cat	egory	Emp	oloyability									
Developmen	nt Needs	Glob	oal									
Course Des	cription	crim expe	es, analyzin	g evidend ime scend	ce,	chemistry and and unraveli avestigation,	ng myste	eries. Ga	in hands-on			
<b>Course Out</b>	comes					Teaching M	ethods	Assessm	ent Methods			
('() 1	amination dences	of	physical fe	eatures (	of	Demonstrat Video Lesso		P	ractical			
CO 2 Ide	entification	of clas	ss characteris	stics		Demonstrat		P	ractical			
CO 3 Ge	t familiaris	sed wit	h DFS manu	ıal		Demonstrat Video Lesso	ons	Practical				
CO 4 Ch	emical test	s for a	nions and ca	tions		Demonstrat Video Lesso		P	ractical			
(1)5	entification terial evid		of forensic relevance of Demonstration / Video Lessons Practical									
Offered by	Forensie	Scien	ice									
Course Con	ntent					In	struction	al Hour	s / Week: 4			
S. No.						eriment						
1			of the density s viscometer		peci	fic gravity bo	ttle and v	iscosity	of a liquid			
2	Preparat	on of l	buffers and d	leterminat	tion	of their pH v	alues usi	ng pH m	eter.			
3	Analysis	of org	anic compou	ınds using	g te	sts prescribed	by DFS.					
4	Preparat	on of s	standard solu	ition of di	iffe	rent compoun	ds in ppn	n and ppl	levels.			
5	Analysis	of ani	anions and cations by methods/tests prescribed by DFS.									
		or ann	ons and can	ons by me	cuio	us/tests prese	ribed by l	DF3.				
6	-		nt analysis of	-			ribed by l	DFS.				
6 7	Density	gradier	nt analysis of	f soil sam	ples			DFS.				
	Density Determin	gradier nation	nt analysis of of refractive	f soil samp	ples glas	S.		DF3.				
7	Density Determine Physical	gradier nation match	nt analysis of of refractive	f soil samp index of g	ples glas	ss and liquids		DFS.				
7 8	Density Determine Physical Compari	gradier nation match son of	nt analysis of of refractive ing of broke	soil samplindex of good pieces of ander mic	ples glas of d	ss and liquids.  Ifferent object cope.		DFS.				
7 8 9	Density Determine Physical Compari	gradier nation match son of	nt analysis of of refractive ing of broke paint chips t	soil samplindex of good pieces of ander mic	ples glas of d	ss and liquids.  Ifferent object cope.			L 60 Hours			
7 8 9 10	Density Determine Physical Comparine Restorate	gradier nation of match son of	nt analysis of of refractive ing of broker paint chips u	f soil samplindex of good pieces of under mice fication means.	ples glas of di crose nark	ss and liquids.  Ifferent object cope.			L 60 Hours			
7 8 9	Density Determine Physical Compari	gradier nation of match son of on of o	nt analysis of of refractive ing of broker paint chips u	f soil samplindex of good pieces of under mice fication means.	ples glas of di crose nark	ss and liquids.  ifferent object cope.  ss.		TOTA	L 60 Hours Total			

	Mapping												
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	Н	Н	M	Н	M	-	M	L	-	Н	Н	L	-
CO2	Н	Н	M	Н	M	-	M	L	-	Н	Н	L	-
CO3	Н	M	Н	Н	M	-	M	L	-	Н	Н	L	-
CO4	Н	L	M	Н	M	-	M	L	-	Н	Н	L	-
CO5	Н	Н	M	Н	M	-	M	L	-	Н	Н	L	-

Course designed by	Verified by Chairman
Ms. Archana Sunil	Mr. Akhil Benny

<b>Course Code</b>	Title							
22U4HRC202	Ability Enhancement Co Human Rights and Con	1 0						
Semester : II	Credits : 2	CIA: 50 Marks						

(Common to all UG Programmes)

## **Course Objective:**

Understand the concept of human rights and the importance of Indian Constitution.

### **Course Outcomes:**

CO1	Understand the principal aspects of human rights and duties in a broad sweep.
CO2	Acquire the knowledge about the Fundamental Duties and Rights of Indian Citizen
CO3	To know the rights of women and Children in India
CO4	Understand the structure and importance of Indian Constitution
CO5	Know the functions of Government and Election Commission of India

# Course Content Instructional Hours / Week: 2

Unit	Description						
I	An Introduction to Human Rights: Values – Dignity, Liberty, Equality, Diversity - Human Rights – Meaning and features; Significance Classification of Human Rights - Rights and Duties – Correlation						
	Instructional Hours	6					
	Human Rights and Fundamental Rights - Fundamental Rights and Fundamental Rights and Fundamental Rights - Fundamental Rights and Fundamental Rights - Fundamental Rights - Fundamental Rights and Fundamental Rights - Fundamental Rights - Fundamental Rights and Fundamental Rights - Fun						
	Directive Principles - Role of Judiciary in the protection of Human	Rights- National					
II	Human Rights Commission  Activity: Case Study related to Human Rights						
	Instructional Hours	6					
	Human Rights of Women and Children- Social Practice and Constitutio	-					
	Female foeticide and infanticide-Physical assault and Harassment- Do	_					
III	Conditions of Working Women	mestre violence					
111	Activity : Conduct a Group Discussion on the above topics						
	Instructional Hours	6					
	Constitution – Structure and Principles - Meaning and importance o	f Constitution -					
IV	Making of Indian Constitution - Sources - Salient features of Indian Constitution-						
1 V	Government of Union- Government of State-Features of judicial system	in India					
	T / / 177						
	Instructional Hours	6					
	Federalism in India – Features - Local Government -Panchayat –Power						
₹7	-Election Commission –Organisation and functions-Citizen oriented me	easures – RTI –					
V	Provisions and significance  Activity: Seminar/ Role play related to Indian Constitution						
	Instructional Hours	6					
	Total Hours	30					
	Total Hours	30					

UG NASC 2022

### **Text Book:**

1. **"Human Rights and Constitution of India",** Complied by Curriculum Development Cell, Nehru Artsand Science College.

## **Tools for Assessment (50 Marks)**

Case Study and Report submission	Seminar / Role play	<b>Group Discussion</b>	Comprehensive test for 5×5 = 25 marks	Total
10	10	5	25	50

# Mapping

PO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	-	-	-	L	Н	Н	Н	Н					
CO2	-	-	-	L	Н	Н	Н	Н					
CO3	-	-	-	L	Н	Н	Н	Н					
CO4	-	-	-	L	Н	Н	Н	Н					
CO5	-	-	-	L	Н	Н	Н	Н					

<b>Course Designed by</b>	Verified by Chairman
Dr. E. Vijaya Gowri	Dr. M. Saranya

Course Code	Ti	tle			
22U4HVY201	Value Education : Human Values and Yoga Practice				
Semesters : I & II	Credits: 2	CIA : 50 Marks			

## (Common to all UG Programmes)

## **Course Objective:**

- To help the students appreciate the essential complementarity between 'values' and 'skills' to ensure sustained happiness and prosperity, which are the core aspirations of all human beings.
- To prepare and distribute standardized Yoga teaching and training material with reference to institute health.

### **Course Outcomes:**

CO1	To know the importance of Ethics to be followed in the Human life.
CO2	To inculcate a sense of respect towards harnessing values of life and spiritof fulfilling social responsibilities.
CO3	To gain knowledge about the values that develops life skills.
CO4	To understand and Practice Meditation & Surya Namaskar.
CO5	To understand and apply the knowledge for physical health and well being through Asanas

# Course Content Instructional Hours / Week: 1 (For Semesters I and II)

Unit	Description
	Human Values - Introduction - Definition of Ethics and Values - Character and
I	Conduct - Nature and Scope of Ethics. Individual and Society - Theories of Society -
	Social Relationships and Society - Empathy: Compassion towards other beings.
	Instructional Hours 4
	Self-realization and Human Values-Self-realization and Harmony-Rules and Regulations-
II	Rights and Duties-Good and Obligation-Integrity and Conscience. Obligation to Family-
	Trust and Respect-Codes of Conduct.
	Instructional Hours 5
	Character Formation Towards Positive Personality: Truthfulness, Constructivity,
Ш	Sacrifice, Sincerity, Self Control, Altruism, Tolerance, Scientific Vision. Refinement of
111	worries: Neutralization of anger-Intelligent quotient(IQ), Emotional quotient(EQ), Spiritual
	Quotient (SQ)
	Instructional Hours 5
	Power of Meditation- Development of mind in stages - Mental Frequencies Methods for
IV	Concentration. Meditation Practices - Surya Namaskar.
1 4	Physical Exercises -Kayakalpa Practices Training for Potentialising the Mind.
	Instructional Hours 6

**ASANAS** 

Standing Posture: Tadasana, Utkattasana, arthaKadi Chakrasana, Trikonasana, Artha

Chandrarasana, Padahastasana, Virabhadrasana, Vrikshasana, Artha,

Natarajasana.

V Sitting posture: Padmasana, Gomukasana, Ustrasana, ArdhaMatsyendrasana,

Patchimottanasana.

**Prone posture:**Bhujangasana, shalabhasana, Dhanurasana, Chakrasana. **Supine posture:**Sarvangasana, Halasana, Matsyasana, Shanti asana

Pranayama: Bhastrika, Bhramari, NadiShodhan

Instructional Hours	10
Total Hours	30

#### **Text book:**

1. **"Value Education"**, compiled by Curriculum Development cell, Nehru Arts and Science College.

#### **Tools for Assessment**

25 marks	25 marks
Comprehensive test in Units I to III for 25 marks during CIA III of Sem. II	Perform 02 Yoga postures for Practical exam to be conducted during the mid. of Sem. II

## **Mapping**

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	-	1	-	Н	L	M	Н	Н					
CO2	-	-	-	L	M	Н	M	Н					
СОЗ	-	-	-	L	M	Н	S	Н					
CO4	-	-	-	L	L	Н	M	Н					
CO5	-	-	-	L	L	Н	M	Н					

Course Designed by	Verified by Chairman
Mr. Karthi M	Dr. N. Kavitha

Course	e Code				Title						
23U1T	AM303			Part -I	: Arunthamizh (&	அருந்தமிழ்)					
Semes	ter: III		(	Credits: 3	CIA: 20 Marks	ESE: 55 N	Marks				
Course	Objective	<b>;</b>	தமிழ்க்	காப்பியங்களின் வழி உ	றம் சார்ந்த சிந்தனைகளை உருவாக்குதல்						
Course	Category		Skill De	evelopment (மாணவர்கள	ின் மொழித்திறனை	ஊக்குவித்தல்)					
Develop	ment Nec	eds	Global	/Regional (உலக அளவி	ில் தமிழ் மொழியின்	அவசியத்தை உணர்த்து	தல்)				
Course 1	Descripti	on		ர்களின் மொழித்திறனை பத்தை உணர்த்துதல்	ஊக்குவித்தல் மற்று	ம் உலக அளவில் தமிழ்	மொழியின்				
Course	Outcome	s				Teaching Methods	Assessment Methods				
CO 1	. ~	_	ளில் அ ள வளர்	ணிநலம் அறிதல், அறம் த்தல்.	சார்ந்த	விரிவுரை/ காணொளிப்பட விளக்கம்	ஒப்படைவு				
CO 2	கூறுவ		லம் தமி	ககளைக் ிழின் இலக்கிய வளத்தை	Б	விரிவுரை	குழுத்திட்டம்				
CO 3		வர்களி மாக்குத		நாலத்திற்கேற்ப மொழிவ	ார்ச்சியை	விரிவுரை/ காணொளிப்பட விளக்கம்	ஒப்படைவு				
CO 4	நாட்டி	ன் சிறு	ந்த குடிய	்க்களாக மாணவர்களை	உருவாக்குதல்.	விரிவுரை// குழு விவாதம்	கருத்தரங்கு				
CO 5	மாண	வர்களி	ன் மனந	லத்தை வளர்த்தல்.	விரிவுரை/ குழு விவாதம்						
Offered	by	ிழ்த்து	ത്വ								
Course	Content	: Arun	thamizh	<b>ı</b> (அருந்தமிழ்)		Instructional Hours / V	Week: 4				
Unit	Des	scriptio	on	Text Book		Chapters					
I	காப்பியர்	ங்கள்		1.சிலப்பதிகாரம் 2.மணிமேகலை 3.சீவகசிந்தாமணி 4.கம்பராமாயணம்	1.2.பீடிகைக் கல 1.3.பூமகள் இல	காதை (மதுரைக்காண்டம்- ன்டுபிறப்புணாந்தக் காதை- ம்பகம் (பகுதி- 11-2347-23' ம்(கடல் தாவுப்படலம் 1 <b>-1</b> 0	பகுதி-9) 77 பாடல்கள்)				
				Instructional Hou			12 Hours				
Suggest	ed Learni	ing Me		ாடக முறையில் கலந்து		Outro comit ( : : : : : : : : : : : : : : : : :	127 4140				
II	சைவ,ഗൈ சுவடியிய		2ந பிர	தேவாரம் நாலாயிரத்திவ்வியப் பந்தம் வடியியல்	2.2.ஆண்டாள் திர 2.3.சுவழயியல் - 2.4 சைவம் தமியு	பெருமணம் (பாடல் எண்-4 5ப்பாவை - (பாடல் எண்- அறிமுகம் ஒக்குச் செய்த தொண்டு மிழுக்குச் செய்த தொண்(	474-483)				
				Instructional Hour			12 Hours				
Suggest	ed Learni	ing Me	thods:	பக்தி பாசுரங்கள் கலந்த	துரையாடல்						

I	1			Н	L	M	Н	1	-		1	1
M	L	Н	L	M	M	Н	L					
Н	L	L	L	H	M	Н	M					
PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO	PSO3	PSO4	PSO5
					N	Mapping						
4		4		5		2		2		3		20
IA I	(				ment (	<u> </u>	NO)	Assignme	ent	Group Project	To	otal
RLs	http							<u>/igtwme</u>	<u>rl4yw</u>			
	நாட் புதி	டுப்புறவி ப நோக்	பல் ஓர் , கில் தமிழ்	ஆய்வு: ஓ இலக்	டாக்டர் கிய வ	சு. சக் ரலாறு,	திவேல் மீனாட்சி	விஜயா ப் புத்தக	பதிப்ட ந நி	கம் சென்னை. த	-	រស់ -
ooks							_	_	_			
tea Leari Hours	nng Me	inous:	பாடத்தி	டடத்தி	ତ ତାଥା	றக்கப்பட	பிவிவி	ജംഗമയµ	ப விடு			:s
tad Laar	ning Ma	thoda		். சூர					LOUTO	വന്നിത്തെ െത്ത്		ours
இலக்க திறன்	கிய வர	லாற்றுத்	தமிழ் (	இலக்கிட		от <b>д</b> ј 2	2. பக்தி வளர்ச் 3. தமிழ	இலக்கி சியும் <u>க நாட்ட</u> ு	். யத்தி	ர் தோற்றமும்		
ted Learn	ning Me	ethods	நாட்டுப்ப	புறவியல்	് ഖழി		•			<u> </u>	·	
					Ins			1		(3.19.0211,011g) IDI	12 Ho	
வழக்கா	<b>ாறுகள்</b>						•	•	J		பர் பல் /	து <u>ம்)</u>
நாட்டுப்	ப்புற		நாட்டுப்ப	4.3	4.3 தமிழர்க்கலைகள்							
							_	_				
ted Learn	ning Me	ethods:	மொழித்					எழுதும்	திறன்	பெற்றமை	12 110	dis
(இலக்க	த்ணம்)			Tı	etruct			றக மெய்	பப்பாடு	<u>கள்</u>	12. Ho	nire
			2.தொல்	காப்பிய	ம்	3.3	ஆசிரிய	ır் வரலா	று			
1	ted Learn இலக்க திறன்  ted Learn இலக்க திறன்  ted Learn Aurs ooks nce Books RLs IA I A PO1 H M H	நாட்டுப்புற வழக்காறுகள்  ted Learning Me  இலக்கிய வரக்திறன்  ted Learning Me  Hours  ooks  RLs  http  IA I  PO1 PO2 H L M L H L	ted Learning Methods:  நாட்டுப்புற வழக்காறுகள்  ted Learning Methods  இலக்கிய வரலாற்றுத் திறன்  ted Learning Methods:  Hours  ooks  இளங்கலை இ தொகுப்பு: தப நாட்டுப்புறவி புதிய நோக்க  RLs  https://yout  IAI CIAII  4 4  PO1 PO2 PO3 H L H M L H M L H H L L M L H	பொழித்திறன் (இலக்கணம்)  ted Learning Methods : பொழித் நாட்டுப்புற வழக்காறுகள்  gலக்கிய வரலாற்றுத் திறன் தமிழ் த  ted Learning Methods: பாடத்தி Hours  ooks இளங்கலை இரண்டாம் தொகுப்பு: தமிழ்த்துறை நாட்டுப்புறவியல் ஓர் புதிய நோக்கில் தமிழ் RLs https://youtu.be/EJC  Tools for IA I CIA II (A)  PO1 PO2 PO3 PO4 H L H L M L H L H L H L H L L L	(இலக்கணம்)   Inted Learning Methods : பொழித்திறன் வழக்காறுகள்   நாட்டுப்புறவியவ் தமிழ் இலக்கிய வரலாற்றுத் தமிழ் இலக்கிய வரலாற்றுத் தமிழ் இலக்கிய இளங்கலை இரண்டாம் ஆண்டு தொகுப்பு: தமிழ்த்துறை, நேரு மடி கிமா நாட்டுப்புறவியல் ஒர் ஆய்வு: புதிய நோக்கில் தமிழ் இலக்கிய நோக்கிய நோக்கில் தமிழ் இலக்கிய நோக்கிய நோக்கிய நோக்கிய நோக்கிய நோக்கிய நாக்கிய நோக்கிய நாக்கிய நோக்கிய நோக்கிய நோக்கிய நோக்கிய நோக்கிய நோக்கிய நாக்கிய நாக்கிய நோக்கிய நாக்கிய நோக்கிய நாக்கிய நாக்கிய நோக்கிய நாக்கிய நாக்கிய நோக்கிய நாக்கிய நோக்கிய நாக்கிய நாக்கி	பொழித்திறன் (இலக்கணம்)    Potential   P	பெறாழித்திறன் (இலக்கணம்)  Instructional H ted Learning Methods: பொழித்திறன் வாயிலாக பிழை நாட்டுப்புற வழக்காறுகள்  Instruction  # 4.2  # 4.5  # 5  # 5  # 5  # 6  # 6  # 7  # 7  # 7  # 7  # 8  # 8  # 8  # 8	போழித்திறன் (இலக்கணம்)  2.தொல்காப்பியம் 3.2 மாணாக் 3.3 ஆசிரிய 3.4 எண்வன  Instructional Hours  ted Learning Methods : மொழித்திறன் வாயிலாக பிழையின்றி 4.1. பழுடி 4.2. விடு நாட்டுப்புற நாட்டுப்புறவியல் 4.3 தமிழ் வழக்காறுகள்  Instructional Hours  இலக்கிய வரலாற்றுத் திறன்  இலக்கிய வரலாற்றுத் திறன்  இலக்கிய வரலாற்றுத் திறன்  கமிழ் இலக்கிய வரலாறு  நாட்டுப்புறவியல் வழி நாட்டுப்புற மக்க பயடத்திட்டத்தில் கொடுக்கப்பட்டுள்ள Hours  லெக தொகுப்பு: தமிழ்த்துறை, நேரு கலை மற்றும் அறிவில் மடி Books  வளங்கலை இரண்டாம் ஆண்டு தமிழ் மாணவர்களுக் தொகுப்பு: தமிழ்த்துறை, நேரு கலை மற்றும் அறிவில் மடி Books  நாட்டுப்புறவியல் ஓர் ஆய்வு: டாக்டர் சு. சக்திவேல் புதிய நோக்கில் தமிழ் இலக்கிய வரலாறு, மீனாட்சி கேடிக்க நாட்டுப்புறவியல் ஓர் ஆய்வு: டாக்டர் சு. சக்திவேல் புதிய நோக்கில் தமிழ் இலக்கிய வரலாறு, மீனாட்சி கேட்டி	பொழித்திறன் (இலக்கணம்)  2.தொல்காப்பியம்  1.3.2 மாணாக்கர் வருக்கிறன் (இலக்கணம்)  1.3.3 ஆசிரியர் வருகாக மெய்  Instructional Hours  4.1. பழமொழிக்கிற  4.2. விடுகதைகள்  4.2. விடுகதைகள்  4.4. சிறுதெய்வ  4.5 விளையாட்  Instructional Hours  ted Learning Methods  தாட்டுப்புறவியல் வழி நாட்டுப்புற மக்களின் வ  இலக்கிய வரலாற்றுத் திறன்  இலக்கிய வரலாற்றுத் திறன்  இலக்கிய வரலாற்றுத் திறன்  Instructional Hours  Instructional Hours  Instructional Hours  Lun_த்திம்டத்தில் கொடுக்கப்பட்டுள்ள இலக்கிய வரலாற்றும் ஆமிழ் இலக்கிய வரலாறும் ஆமிழ் மாணவர்களுக்குரிய பாடத்திட்டத்தில் கொடுக்கப்பட்டுள்ள இலக்கிய பரலாக இளங்கலை இரண்டாம் ஆண்டு தமிழ் மாணவர்களுக்குரிய பாடித்தின் நாட்டுப்புறவியல் ஓர் ஆய்வு: டாக்டர் சு. சக்திவேல் விஜயா புதிய நோக்கில் தமிழ் இலக்கிய வரலாறு, மீனாட்சிப் புத்தன் மடிதிய நோக்கில் தமிழ் இலக்கிய வரலாறு, மீனாட்சிப் புத்தன் கடி நாட்டுப்புறவியல் ஓர் ஆய்வு: டாக்டர் சு. சக்திவேல் விஜயா புதிய நோக்கில் தமிழ் இலக்கிய வரலாறு, மீனாட்சிப் புத்தன் கடி நாட்டுப்புறவியல் ஓர் ஆய்வு: டாக்டர் சு. சக்திவேல் விஜயா புதிய நோக்கில் தமிழ் இலக்கிய வரலாறு, மீனாட்சிப் புத்தன் கடி நாட்டுப்புறவியல் திறுவர்களுக்கிய வரலாறு, மீனாட்சிப் புத்தன் கடி நாட்டுப்புறவியல் கல் படி இலக்கிய வரலாறு, மீனாட்சிப் புத்தன் கடி நாட்டுப்புறவியல் கல் படி நாக்கில் தமிழ் இலக்கிய வரலாறு, மீனாட்சிப் புத்தன் கடி நாட்டுப்புறவியல் கல் படி நாக்கில் தமிழ் இலக்கிய வரலாறு கூறுவியல் கல் விஜயா புத்தன் கடி நாக்கில் தமிழ் இலக்கிய வரலாறு கூறுவியல் கல் விஜயா புத்தன் கடி நாட்டுப்புறவியல் கல் கிய வரலாறு கூறுவியல் கல் விஜயா புத்தன் கூறிவியல் கல் விஜயா புத்தன் கூறிவியல் கல் விஜயா புத்தன் கூறிவியல் கல் விறுவர்களுக்கிய வரலாறு கூறுவியல் கல் விறுவர்களுக்கிய வரலாறு கூறுவியல் கல் விறுவர்களுக்கிய வரலாறு கூறிவியல் கல் விறுவர்களுக்கில் விறுவர்களுக்கிய வரலாறு கூறிவியல் கூறி	பொழித்திறன் (இலக்கணம்)  2.தொல்காப்பியம் 3.2 மாணாக்கர் வரலாறு 3.3 ஆசியியர் வறலாறு 3.3 ஆசியியர் வறலாறு 3.4 எண்வகை மெய்ப்பாடு.  Instructional Hours  ted Learning Methods : மொழித்திறன் வாயிலாக பிழையின்றி எழுதும் திறன் 4.1. பழமொழிகள் 4.2. விடுகதைகள் 4.2 விடுகதைகள் 4.4 சிறுதெய்வ வழியர்க்கலைகள் 4.4 சிறுதெய்வ வழியர்க்கலைகள் 1.5 விளையாட்டுகள் 1.5 விளையாட்கள் 1.5 விளையாட்டுகள்	பெறுத்திறன் இலக்கனம்) 2.தொல்காப்பியம் 3.2 மாணாக்கர் வரலாறு 3.3 ஆசிரியர் வரலாறு 3.4 எண்வகை மெய்பபடுகள்    Sumple   Sum	போழித்திறன் (இலக்கணம்)  2.தொல்காப்பியம் 3.3.3 ஆசிரியர் வரலாறு 3.4 என்வகை பெர்பாடுகள்  Instructional Hours  12 Ho  ted Learning Methods : மாழித்திறன் வாயிலாக பிழையீன்றி எழுதும் திறன் பெற்றமை  4.1. பழமொழிகள் 4.2. விடுகதைகள் 4.4. சிறுதெய்வ வழிபாடு மட்டும் 4.5 விளையாட்டுகள் (சிறுவர்.சிறுமியர் மட்ட  Instructional Hours  Inst

				r	Γitle				
Course 23U1H			David I. Califfrada			<del>ر الد د</del>			
			Part I - Sahityak			ĮGI)			
Semest	er: III		Credits: 3	CIA	: 20 Marks		ESE: 55	Marks	
			(Common to a		_				
Course	Objectiv	'e	चुनिंदा कविताओं के माध् को समझना।. संकलन में उपलब्ध कराए ग सराहना।					और विकास ए कविता की	
Course	Category	y	Skill Development						
Develop	ment Ne	eeds	National						
Course	Descrip	tion	Improves Writing Skills.						
		Cou	rse Outcomes		Teaching Meth	ods	Assessm	ent Methods	
CO 1			ा से अच्छी तरह वाकिफ हो सकेंग		Role play		Assi	gnment	
CO 2	कविताएँ	लिखत	भवों की पहचान करें जिनका उ । समय किया जा सकता है।		Group learni Acting	ng	Se	minar	
CO 3	समझें।	٠.	ा शब्दावली और व्यावहारिक त		Story Narration	on	Assi	gnment	
CO 4	छात्रों को	रचना	त्मक लेखन में अच्छा अभ्यास मि	लेगा।	Group learni and Work she	_	Group	Project	
CO 5	पाठ्यक्रम करता है		ादी हिंदी में पारंगत होने में	मदद	Worksheets a Exercises	nd	Se	Seminar	
Offered	by Hi	ndi							
Course	Content			Iı	nstructional Ho	ours	/ Week: 4		
Unit			Description	,			Text Book	Chapters	
I	नाटक –	सत्यां	नेव जयते – ( श्री सूर्यनारायण	ग मूर्ति	)		1	3	
~					Instruc	tiona	al Hours	12	
Suggest			Methods: Visual Learning					02 Hrs	
II		गव्य गव्य त	: कबीर के दोहे (10 दोहा तरंग)	),			1	2	
G .					Instruc	tiona	al Hours	12	
Suggest			<b>Methods : Auditory</b> ठाव्य : पुष्प की अभिलाष	T_ 1717	वनलाल चतर्वेटी			02 Hrs	
III	जलियांवा	ला बा री सिंह	ग़ में बसंत <sup>े</sup> – सुभद्राकुमारी <sup>:</sup> ह दिनकर				1	3	
						tiona	al Hours	12	
Suggest			Methods: Comprehensive					02 Hrs	
IV	_	_	) अर्थ अलंकार और शब्द वित्र पर कुछ वाक्य लिखना		₹,		1	2	
	•	•	<u> </u>		Instruc	tiona	al Hours	12	
Suggest	ed Learr	ning N	Methods : Auditory, Visua	l, Com				02 Hrs	

NASC 2023

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1									Instr	uctio	nal Hour	S	12	
Suggeste	d Lear	ning N	Method	ds: c	ompre	hensiv	e writi	ng				02	Hrs	
										To	otal Hour	s 60	Hrs	
1. नाटक – सत्यमेव जयते – ( श्री सूर्यनारायण मूर्ति )         2. काव्य सुमन – राजपाल एंड सन्स         1. हिंदी नाटक और रंगमंच – डॉ राम कुमार वर्मा														
Reference	e Bool	KS	1 2	- डॉ न्य हिंद	राम कुग री अरिहंत	मार व त प्रक	ामी गशन इंडिय	ा लिमिटे	ड					
Web. UI	RLs		1. 2. 3. 4.	http: www	s://ww w.bhas	lunia.c w.hind haindia samay	<u>ikunj.co</u> <u>1</u>	<u>om</u>						
				To	ols for	Assess	sment (	(20 M	arks)					
CIA	т	~=	A TT	Seminar Group Project			_							
CIA	1	CL	A II	C.	IA III	AS	signme	ent	Semina	ar	_	То	tal	
4	1		4 II	C.	5	AS	signme 2	ent	Semina 2	ar	_		tal 0	
	1			C.			Ü	ent		ar	Project			
	PO1			PO4			2	PO8		PSC	Project 3			
4 CO\PO CO1	PO1 H	PO2 H	PO3 H	PO4 M	5 PO5 M	Ma PO6 L	2 pping PO7 H	PO8 M	2		Project 3	2	0	
4 CO\PO CO1 CO2	PO1 H H	PO2 H H	4 PO3 H H	PO4 M L	5 PO5 M L	Ma PO6 L H	2 pping PO7 H M	PO8 M H	2		Project 3	2	0	
4 CO\PO CO1 CO2 CO3	PO1 H H L	PO2 H H M	PO3 H H L	PO4 M L L	5 PO5 M L M	Ma PO6 L H	2 pping PO7 H M M	PO8 M H L	2		Project 3	2	0	
CO\PO CO1 CO2 CO3 CO4	PO1 H H L M	PO2 H H M M	PO3 H H L L M	PO4 M L L M	5 M L M H	Ma PO6 L H H	2 pping PO7 H M M L	PO8 M H L L	2		Project 3	2	0	
4 CO\PO CO1 CO2 CO3	PO1 H H L M	PO2 H H M M	PO3   H   H   L   M   L	PO4 M L L	5 PO5 M L M	Ma PO6 L H	2 pping PO7 H M M	PO8 M H L	2		Project 3	2	0	
CO\PO CO1 CO2 CO3 CO4 CO5	PO1 H H L M M M-Med	PO2 H H M L lium; I	PO3   H   H   L   M   L	PO4 M L L M M	5 PO5 M L M H H H	Ma PO6 L H H	2 pping PO7 H M M L	PO8 M H L L	2	PSO	Project 3	2	0	

Course	Code			Title				
23U1M	AL303		Part - I : Kavithayum Sma	ranayum (കവിതയു	ും സ്മരണ	യും)		
Semest	er: III			CIA: 20 Marks	ESE: 55	-		
			(Common to all UG 1	Programmes)				
Course	Objectiv	ve	കവിതാ സാഹിത്യ പരിചയ അവബോധവും ആസ്വാദനവും	ാത്തോടൊപ്പം പുതു ഉയർത്തുക. കയാവുന്ന സമൂ	കവിതകളെ ഹത്തിലെ	ഉന്നത		
Course	Category	y	Skill Development					
Develop	ment Ne	eeds	Regional					
Course	Descript	ion	Developing Personality and So	elf confidence				
Course	Outcome	es		Assessment Methods	Assessme	nt Methods		
CO 1			ൂടെയുള്ള സംവേദനം	Smart boards/ Chalk and Talk	Assi	gnment		
CO 2	പ്രവർ	ർത്തന		Group learning	Se	minar		
CO 3	ബോധ	ാം ഉണ	വിഭാഗത്തിനിടയിൽ അവകാശ ഭാക്കുന്നു	Peer Teaching	Assi	gnment		
CO 4	സമൂപ പ്രവർ		ന് മൂല്യബോധമുണ്ടാക്കുന്ന ങ്ങൾ	Group learning	Grou	Project		
CO 5	സമൂപ	റത്തി	ൽ അധ്യാപനത്തിന്റെ പ്രാധാനു	Smart boards/ Chalk and Talk	Assi	Assignment		
Offered	by Ma	alayal	am					
Course	Content			Instructional Hour	rs / Week: 4	ļ		
Unit			Description		Text Book	Chapters		
I	നവീന ക	ംവിത	- പുതു കവിതകൾ		1	4		
				Instructio	nal Hours	12		
Suggest	ed Learn	ning N	Methods: Visual Learning			02 Hrs		
II	നവീന ക	ംവിത	- പുതു കവിതകൾ		1	3		
				Instruction	nal Hours	12		
			Methods: Auditory Method			02 Hrs		
III	കണ്ണീരും	കിനാ	ാവും - വി.ടി.ഭട്ടതിരിപ്പാട്		1	3		
	1.	• -			nal Hours	12		
			Methods:: Comprehensive w			02 Hrs		
IV	കണ്ടൽക	റെടുക	ംൾക്കിടയിൽ എന്റെ ജീവിതം - ര		1	2		
Suggest	ed I sorr	ning N	Methods: Auditory &Visual Metho		nal Hours	12 02 Hrs		
V			vieunous: Auditory & visual Metho ംൾക്കിടയിൽ എന്റെ ജീവിതം		1	3		
v	200010000		1000 is a new 14/1000 is not 2 not					
Suggest	ed Learr	ning N	Methods: Comprehensive Writing		nal Hours	12 02 Hrs		
Duggest	ca Leart	mig I	Todious . Comprehensive writing		otal Hours	60 Hrs		
			1. നവീന കവിത (പുതു					
Text Bo	oks		വിഭാഗം എഡിറ്റു ചെ 2. കണ്ണീരും കിനാവും - റ	യ്ത 10 കവിതകൾ .				

			3.		ടൽകാട ർ ബുക്ക		റിടയിര	ർ എന്	റെ ജീവ്	ിതം -	- കല്ലേൻ െ	പാക്കുട	ൻ -
			1.		യാള ക ഴിക്കോ		പഠനത	3W - (	ഗളിളാന	ന്ദ്രൻ	,മാതൃഭൂമ	ി ബുക്	സ്,
			2.				lത്യ ച ദമി, ത്യ		- ແ	ധാ.എ	ം.ലീലാവ	നി കേ	രള
Reference Boo	oks		3.	ആധ	ുനിക്ര	D	മലയാ	ള്കറ	വിതയിര	ർ എ	ൻ. അജാ	യകുമാ <i>ര്</i>	,
പഠനസംഘം, ചങ്ങനാശ്ശേരി 4. സാഹിത്യം മലയാളത്തിൽ ആത്മകഥ - നടുവട്ടം ഗോപാലകൃഷ്ണൻ , ഭാഷാ ഇൻസ്റ്റിറ്റ്യൂട്ട് , തിരുവനന്തപുരം													
Web. URLs: http://www.keralaculture.org>literature													
	Tools for Assessment (20 Marks)												
CIA I		CL	A II	C	IA III	As	signme	ent	Semina	ır	Quiz	To	tal
4			4		5		2	2			3	2	0
						Ma	pping						
CO\PO PO	01	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO	2 PSO3	PSO4	PSO5
CO1 I	Н	L	Н	M	Н	Н	Н	Н					
CO2	M	L	Н	L	Н	M	Н	Н					
CO3	Н	L	L	M	M	Н	M	Н					
CO4	M	L	L	M	L	Н	Н	M					
CO5	H-High; M-Medium; L-Low												
	Med	ium; I	L-Low										

Dr. SMITHA C.R.

Ms.RAJANI N.

Cours	e Code	e				Title		
23U1F	RN30.	3		Part – I	: Le F	rancais General – l	II	
Semes	ter : II	I	Credit	ts:3	CIA	: 20 Marks	ESE: 55	Marks
		L	(	Common to a	ll UG P	Programmes)		
Course	Objec	tive	Acquisition	n of standard F	rench b	y knowing more abo	ut the cultu	ıre.
Course	Categ	ory	Skill Deve	lopment				
Develop	pment	Needs	Global					
Course	Descr	iption	Improved u	anderstanding a	and com	nmunication		
Course	Outco	mes				<b>Teaching Methods</b>	Assessme	nt Methods
CO 1	Lear	n abo ns, hobb		er French sp	eaking	Lectures/ Tutorial	Assi	gnment
CO 2	Le pa	assé con	npose, l'impa	arfait		Group Learning	Assi	gnment
CO 3	Socia	al netwo	ork, les indic	ateurs de temp	os	Peer Teaching	Se	minar
CO 4	Le di	iscours o	lirect et indi	rect		Video Lecture / Lectures	Grou	p Project
CO 5	To le	earn to a	nswer questi	ons orally in F	rench	Group learning	Assi	gnment
Offered			nent of Fre	nch				
Course	Conte	nt				Instruct	ional Hour Text	rs / Week : 4
Unit				Description			Book	Chapters
I	La lar	ngue fran	caise en actio	on			1	1
C	. 17 .	•	M 41 1	¥7° 1		Instruction	al Hours	12
			Methods:	Visuals				
II	Aller	a la rer	ncontre des	autres 			1	2
Suggest	ted Le	arning N	Methods :	Group discu	ssions	Instruction	al Hours	12
III		nir son re					1	3
						Instruction	al Hours	12
Suggest	ted Lea	arning N	Methods:	Group discu	ussions		l	
IV	Vivre	l'inforn	nation				1	4
Suggest	ted I o	arnina N	Methods :	Visuals		Instruction	al Hours	12
V		oger le pa		Visuais			1	5
•	Interior	,501 10 pa				Instruction		12
Suggest	ted Lea	arning N	Methods:	Compreher	nsive w		ai iivuis	14
		Ü					al Hours	60

Text Boo	oks		1.	De C	Oliveira	a, Doro	thée D	upleix	– Marie (Unit 0	to 4)			
Reference	ce Bool	ks	1	. Con Lois		is 2	Method	de de	Français	s Régi	ine Méri	eux , Y	ves
Web. URLs  1. www.academia.edu													
Tools for Assessment (20 Marks)													
CIA I CIA III Assignment Seminar Quiz Total													
4 4 5 2 2 3 20													
						Ma	pping						
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	-	-	Н	M	Н	Н	-	-	-	-	-	-	-
CO2	-	ı	Н	L	Н	M	-	-	-	ı	-	-	1
CO3	-	ı	ı	M	M	Н	-	-	-	ı	-	-	ı
CO4	-	-	L	M	L	Н	-	-	-	-	-	-	-
CO5	-	-	L	-	Н	-	-	_	-	-	-	-	-
H-High;	M-Med	lium; I	L-Low										
	H-High; M-Medium; L-Low  Course designed by  Verified by Chairman  Dr. R. Malathi  Dr. R. Malathi												

UG 2023

Cours	e Code			Title			
23U2I	ENG303		Part – II : C	ommunicative English	- I		
Seme	ster : III		Credits: 3	CIA: 20 Marks	ESE:5	55 Marks	
			(Common to All U	(G Programmes)			
Course	Objective		To enable the students to lear a better understanding of the	•	f literature	and gain	
Course	Category		Skill Development				
Develop	ment Nee	ds	Global				
Course	Descriptio	n	SD: Helps to develop LSRW	skill			
	Co	urs	e Outcomes	<b>Teaching Methods</b>	Assessme	nt Methods	
CO 1			al, ethical and literary merits o the society.	Lecture/Tutorial	Assi	gnment	
CO 2		d e	emprehensive knowledge of execute life skills and human the photostatic interest in the skills and human the skills are skills and human the skills are skills and human the skills are ski	Lecture/Tutorial	Assi	gnment	
CO 3			ling strategies with enriched hrough short story.	Lecture/Tutorial	Spe	eaking	
CO 4	through t	he	use of English language study of Grammar and use fic contexts.	Lecture/Tutorial	Re	ading	
CO 5	Interpret works in		ir understanding of English RW mode	Lecture/Tutorial	W	Writing	
Offered		artn	nent of English				
Course	Content			Instructi		s / Week : 4	
Unit			Description		Text Book	Chapters	
I	R.K. Nara	yan	- Travel by Train - Headache - Tolerance		1	1 - 3	
				Instruction	al Hours	12	
		ng N	Methods: Intensive Reading				
п	Poetry William B Rudyard F Sarojini N	Kipli	<del>_</del>		1	4 - 6	
	Surojiii IV	arat	. The Queen Stavan	Instruction	al Hours	12	
Suggest	ed Learni	ng N	Methods : Scaffolding Metho				
III	Edgar Alla	- Af an P	ter Twenty Years oe – Tell - Tale Heart ton - The Lady or The Tiger?		1	7 - 9	
		_		Instruction	al Hours	12	
Suggest	ed Learni	ng N	Methods : Flipped Learning				

IV	Herma	n Melv	ille-M	oby Di	ck (At	oridged	Version	on)			1	10	) - 13
									Instr	uctiona	l Hour	S	12
Suggest													
V	Compr Practic Invited DD Na Speaki Taking Mock Assign Readir Newsp	ehensice, observational ing – It, and Viva ments, aper et ing – Marors a	on practing res, Co News I Gonver Voce and Perent c odals, and House the condition of the c	nctice / view inferen Live, B ip Disc resation in, Ser iver-Tea Readir Conco io to	from ing E- ce/ Ser BBC, C cussion Mana ninar am-inte ag Stra avoid	Poetry content minar I NN, V n Forum gemen Presenteraction attegies  Mail & them	y, Pro t (with Present OA etc m, part it, Deb ntations in Poor Repor n, Sen	se, O subtite ations cicipate ating, s on etry, P	Listenin nline Vales), Gu & Tests e in the Classro Crose, Noting, Spo Comple	Turn ing / boom-ovel,	1	14	l - 17
	Trepos	itions,	IGIOIIIS	una i	muses,	Cono	cution.		Instr	nictions	l Hour	S	12
Suggest	ed Lea	rning l	Metho	ds : Ac	etivity	Based	Learn	ing	- IIISUI	uctioni	i iioui	<u> </u>	
					<u>J</u>					Tota	l Hour	s	60
Text Bo	oks		Unit	I–V: C	ompile	ed by tl	ne Dep	artmer	nt of Eng	glish			
Referen		ks	TAN	SCHE to the	NOTE studer	E:(Text	: Presc he dep	ribed c	l Learning thapters at Marks)	<b>O</b> 7	•		
CIA	I	CI	A II	C	IA III	As	signm	ent	Speak	ing	Readi	ng	Total
4			4		5		2		2	0	3	0	20
			<del>-</del>		3						3		20
						Ma	pping						
CO \ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M	-	Н	-	M	M	Н	M	Н	Н	M	Н	M
CO2	M	-	Н	-	Н	M	Н	M	Н	Н	М	Н	М
CO3	M - H - H H H H									Н	M	Н	M
CO4	M	L	Н	-	Н	-	Н	Н	Н	Н	М	Н	Н
CO5	Н	M	Н	-	Н	Н	Н	Н	Н	Н	Н	Н	M
H-High;	M-Me	dium; l	L-Low			<u> </u>			1	l	1	<u>I</u>	1
		Cours	e desig	ned by	y				Veri	fied by	Chairm	an	
Dr. Ada	ppatu A	ancy A	ntony					r. R. N	Malathi				

Course	e Code			Title			
23U3F1	RC307		Core Paper	VII - Impression A	naly	sis	
Semest	er : III		Credits : 4	CIA: 25 Marks		ESE: 75	Marks
Course	Objectiv	⁄e	To impart knowledge and based on biometrics and ot		and	identifying	g individual
Course	Categor	y	Employability				
Develop	ment Ne	eeds	Global				
Course	Descrip	•	ning proper to identify				
Course	Outcom	es		Teaching Method	ls	Assessme	nt Methods
CO 1	compar	e foot	tify, develop, preserve and twear impression.	Lecture/Demonstrat	ion	Ass	ignment
CO 2	compar	e vari	tify, develop, preserve and ious biometric impression.	Lecture/ Case studie	es	Case	e studies
CO 3	and scie	ence b	g idea about the formation pehind fingerprints.	ion	Se	eminar	
CO 4	compar	e fing	tify, develop, preserve and gerprints	Lecture/Video lectu	re	(	Quiz
CO 5	signific	ance.		Lecture/Demonstrat	ion	Assignment	
			c Science	* 1	4.	1 77	/ 337 1 4
Course	Content			Instr	ucu	Text	s / Week: 4
Unit			Description			Book	Chapters
I	Introduction footwear impression. The example of th	tion, r impons, ons, minat	pressions Forms of footwear impress pressions, Location and Enhancement Methods, Pre ion process, Case histories. I , History, Scope, Application	recovery of footwo paration of Exempla Lip Prints- Introduction	ear irs,	1	1
					ction	al Hours	12
Suggest			Methods: Library extra rea	ading			
II	ear pri Identific Scope, A various acceptan	ts- In nt le ation Applic prints nce of	attroduction, History, Ear prints ocation, Producing stand and comparison. Palm print cation in crime detection, press, Present of expert evides miscellaneous prints. Tyre and forensic significance.	lards from suspect; Introduction, Historeservation and lifting the in court, Judic	ets, ery, of cial	1	2
	Comparts	son al	na iorensie significance.	Instruc	rtion	al Hours	12
Cuggaa	ed I eam	ning l	Methods: Hands on training		011	ai 110u18	12

Fingerprints Introduction, History and development of fingerprints, Structure of skin, Elements of fingerprinting: ridge patterns, ridge characteristics, Poroscopy. Classification of fingerprint patterns: single fingerprint classification, Henry system of classification  III (Primary to tertiary and key classification), extension of Henry 1 3 system of classification. AFIS: Introduction, History, Operations, Search technology, Administration and networking, Advantages.  Basics of taking inked prints, taking inked prints of living and dead: Plain and rolled prints, other devices and material for recording prints.  Instructional Hours 12  Suggested Learning Methods: Video lectures  Fingerprint as evidence Types of evidentiary fingerprints. Development of latent fingerprints: Physical and chemical methods. Development techniques on porous and non-porous surfaces, Development on adhesive surface, Development with blood and grease 1 4 contamination. Development of latent fingerprints on dead body. Visualization methods of illumination. Photography, Preservation and lifting of fingerprints. Digital imaging of fingerprint: processing of fingerprints and their enhancement.  Suggested Learning Methods: Laboratory practice  Bite Marks Introduction, History, Scope, Application in crime detection. V Preservation and lifting of various prints. Present of expert 1 5 evidence in court. Judicial acceptance of miscellaneous prints. Forensic significance of retinal scan and gait pattern.  Instructional Hours 12  Suggested Learning Methods: Online training		T						
Fingerprint as evidence   Types of evidentiary fingerprints. Development of latent fingerprints: Physical and chemical methods. Development techniques on porous and non-porous surfaces, Development on adhesive surface, Development with blood and grease 1	III	Introduction, I skin, Eleme characteristics single finger (Primary to to system of classes Search technologies). Search technologies of tak dead: Plain a	nts of fingerprinting: ridge patterns, ridge a, Poroscopy. Classification of fingerprint patterns: print classification, Henry system of classification ertiary and key classification), extension of Henry sification. AFIS: Introduction, History, Operations, blogy, Administration and networking, Advantages. In inked prints, taking inked prints of living and and rolled prints, other devices and material for	1	3			
Fingerprint as evidence Types of evidentiary fingerprints. Development of latent fingerprints: Physical and chemical methods. Development techniques on porous and non-porous surfaces, Development on adhesive surface, Development with blood and grease 1 contamination. Development of latent fingerprints on dead body. Visualization methods of illumination. Photography, Preservation and lifting of fingerprints. Digital imaging of fingerprint: processing of fingerprints and their enhancement.  Instructional Hours 12  Suggested Learning Methods: Laboratory practice  Bite Marks Introduction, History, Scope, Application in crime detection. V Preservation and lifting of various prints. Present of expert 1 5 evidence in court. Judicial acceptance of miscellaneous prints. Forensic significance of retinal scan and gait pattern.  Instructional Hours 12  Suggested Learning Methods: Online training		•	Instruction	al Hours	12			
Types of evidentiary fingerprints. Development of latent fingerprints: Physical and chemical methods. Development techniques on porous and non-porous surfaces, Development on adhesive surface, Development with blood and grease 1 contamination. Development of latent fingerprints on dead body. Visualization methods of illumination. Photography, Preservation and lifting of fingerprints. Digital imaging of fingerprint: processing of fingerprints and their enhancement.    Instructional Hours   12	Sugges							
Suggested Learning Methods: Laboratory practice  Bite Marks Introduction, History, Scope, Application in crime detection.  V Preservation and lifting of various prints. Present of expert 1 5 evidence in court. Judicial acceptance of miscellaneous prints. Forensic significance of retinal scan and gait pattern.  Instructional Hours 12  Suggested Learning Methods: Online training	IV	Types of e fingerprints: techniques on adhesive sur contamination Visualization and lifting	Physical and chemical methods. Development porous and non-porous surfaces, Development on face, Development with blood and grease a Development of latent fingerprints on dead body. Methods of illumination. Photography, Preservation of fingerprints. Digital imaging of fingerprint:	1	4			
Bite Marks Introduction, History, Scope, Application in crime detection.  V Preservation and lifting of various prints. Present of expert 1 5 evidence in court. Judicial acceptance of miscellaneous prints. Forensic significance of retinal scan and gait pattern.  Instructional Hours 12  Suggested Learning Methods: Online training		Instructional Hours 12						
Introduction, History, Scope, Application in crime detection.  V Preservation and lifting of various prints. Present of expert 1 5 evidence in court. Judicial acceptance of miscellaneous prints. Forensic significance of retinal scan and gait pattern.  Instructional Hours 12  Suggested Learning Methods: Online training	Sugges	ted Learning I	Methods: Laboratory practice					
Suggested Learning Methods: Online training	V	Introduction, History, Scope, Application in crime detection.  Preservation and lifting of various prints. Present of expert evidence in court. Judicial acceptance of miscellaneous prints.						
			Instruction	al Hours	12			
Total Hours 60	Sugges	ted Learning I	Methods: Online training					
			Total	al Hours	60			
Text Books  1. Biometrics notes compiled by the Department of Forensic Science	Text B							
1. Mehta, M.K; Identification of Thumb impression & cross examination of Fingerprints  2. Chatterjee, S.K; Speculation in Fingerprint Identification, Jantralekha printing Works, Kolkata, 1981.  3. Cowger James F; Friction Ridge Skin- Comparison & Identification of Fingerprints, CRC Press, NY, 1993	Refere	examination of Fingerprints  2. Chatterjee, S.K; Speculation in Fingerprint Identification, Jantralekha printing Works, Kolkata, 1981.  3. Cowger James F; Friction Ridge Skin- Comparison						
Web. URLs 1. https://www.ojp.gov/pdffiles1/nij/225320.pdf	XX7 1 X							

				T	ools fo	r Asse	essme	nt (25	Marks)					
CIA	I	CIA	4 II	C	IA III	A	ssignr	nent	Semin	ar	Quiz	To	tal	
,	5		5		6		3	3	3		3		25	
	Mapping													
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	Н	Н	Н	Н	ı	ı	M	L	-	Н	Н	-	-	
CO2	Н	Н	Н	Н	-	-	Н	L	-	Н	Н	-	-	
CO3	Н	Н	Н	Н	M	-	L	L	-	Н	M	M	-	
CO4	Н	Н	Н	Н	-	-	M	L	-	Н	Н	-	-	
CO5	Н	Н	Н	Н	-	-	Н	L	-	Н	Н	-	-	
H-High:	; M-Me	dium; l	L-Low	7										
		Course	desig	ned by	y				Verifi	ied by (	Chairma	an		
Ms. Arcl	nana Su	nil					N	Mr. Ak	hil Benn	y				

Course	ourse Code Title									
23U3F	RC308		Core Paper	· VIII - Forensic Statistic	es					
Semest	er : III		Credits: 3	CIA: 20 Marks	<b>ESE</b> : 55	Marks				
Course	Objectiv	e	Develop a solid understand in forensic science, enal conclusions, and contribute proceedings.	bling students to analy	ze data,	draw valid				
Course	Category	y	Employability							
Develop	oment Ne	eds	Global							
Course	Descript	ion	Explore the essential role of analysis, evidence assessment			•				
Course	Outcome	es		Teaching Methods	Assessme	nt Methods				
CO 1	forensic		nce	Lecture/Demonstration	Assi	gnment				
CO 2	natural s	samp		Lecture/ Case studies	Case	e studies				
CO 3	Underst evidence		he probability of transfer of	Lecture/Demonstration	Se	minar				
CO 4	evidence		mathematically evaluate	Lecture/Video lecture	(	Quiz				
CO 5	quantita	tivel		Lecture/Demonstration	Assi	ignment				
	l by   For Content	rensi	c Science	Instructi	anal Haur	s / Week: 4				
Unit	Content		Description	Instituction	Text Book	Chapters				
I	Probabil: subjective	ity: /e p	n forensic science Introduction, standard for probability, dependent evupdating of probabilities.	-	1	1				
				Instruction	al Hours	12				
Suggest			Methods: Library extra rea	ading						
П	multinon	ons, s ninal	samples and estimates, count distribution, hypergeometro to be be beta binomial distribution.		1	2				
				Instruction	al Hours	12				
Suggest			Methods: Hands on trainin	ng						
III	evidence from cri	od ra es, co imina	tio: Probability of guilt, just orrespondence probabilities al to scene and from scen	, Direction of transfer- ne to criminal. Transfer	1	3				
	probabili	шс8,	presence of non-matching e	Instruction						

Suggest	ted Lea	rning l	Metho	ds: Vi	deo le	ctures								
	Evalua													
i	Compl	imenta	ry ev	ents a	and e	xampl	es. I	Bayes	,	theoren	n and			
IV	•		•			-		•		f trans		1		4
_,	-				-			•		itive fa	-	1		•
ı	empiri			-	•		-,	F			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	· · · · · · · · · · · · · · · · · · ·			- Troipic		-				Instr	nction	al Hour	S	12
Suggest	ted Lea	rning ]	Metho	ds: La	borate	ory pr	actic	e		111501	4001011	<u> </u>		<u></u>
	Value													
ı	Odd f	orm o	f Bay	es' the	eorem	-likel	ihood	d ratio	ο,	logarith	nm of			
	likelih	ood ra	atio. V	/alue	of ev	idence	e: ev	aluati	on	of fo	rensic			
$\mathbf{V}$	eviden	ce, sur	nmary	of con	npeting	gpropo	sitio	ns, qu	ali	tative so	cale	1		5
	for val	ue of e	videnc	es, mi	sinterp	retatio	ns. T	ransp	ose	ed cond	itional			
	and de	fence f	allacie	s- prot	ability	of gu	ilt.	-						
										Instr	uction	al Hour	S	12
Suggest	ted Lear	rning 1	Metho	ds: Or	nline t	rainin	g							
											Tot	al Hour	S	60
Text Bo	oks		1.	Note	s comp	iled by	the D	Departi	nei	nt of For	ensic So	cience		
			1			K; Ide on of F				Thumb	impres	sion & c	eross	
Referen	ice Boo	ks	2	. Mic	hael O	. Finke	elstei	n; Sta	tist	tics for l	Lawyer	s, 2015.		
			3	Stua 201:		ames;	Fore	ensic A	Ana	alysis: F	From D	eath to J	ustice,	
Web. U	RLs													
				Too	ols for	Assess	smen	t (20	M	arks)				
CIA	I	CL	A II		A III			nent		Semina	ar	Quiz	To	tal
4			4		5		2			2		3	2	0
						Ma	pping	g			•			
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	7 PC	8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	Н	M	L	Н	Н	L	L	L		L	L	L	L	M
CO2	Н	L	L	L	Н	M	L	L		H	L	L	L	L
CO3	H H	L L	M H	M M	H	L L	H L	L		L H	L H	L L	L L	L M
CO5	Н	M	L	L	Н	H	M	M.		М	M	M	M	M
H-High										<u> </u>			<u> </u>	<u>I</u>
		Course			7					Vori	fied by	Chairn	nan	
N.C. A 1.1			uesig	neu ny			7	Mr Δ	kh.	il Benny		Chan II	ıan	
Mr. Akh	ıı Benny	y						.v11. /1.	1311.	ıı Denni	7			

Course	Code			Title			
23U3FI	RP309	)	Core Paper IX - Im	pression Analysis P	ractical		
Semeste	er : II	I	Credits: 3	IA: 30 Marks	ESE: 45 Marks		
Course	Objec	ctive	The students will understand & fingerprints, their patterns, for used to establish the identity of	otprints, tyre marks, l			
Course	Categ	ory	Employability				
Develop	ment	Needs	Global				
Course	Descr	iption	Scientific biometric tools and human identity. By learning biometrics, students will be a crimes.	proper techniques to	develop and compare		
Course	Outco	omes		Teaching Methods	Assessment Methods		
CO 1	Learn from meth	vario	arch and develop fingerprint us surfaces using differen	I lemonstration /	Practical		
CO 2			tify fingerprint patterns	Demonstration	Practical		
CO 3		erstand ification	the system of fingerprin	Demonstration / Video Lessons	Practical		
CO 4 Develop footprints and tyre impressions Demonstration / Video Lessons Practical							
CO 5	Uniq print		ification of a person based on lip	Demonstration / Video Lessons	Practical		
Offered	by	Forensi	c Science		•		
Course	Conte	ent		Instructi	onal Hours / Week: 4		
S. No	) <b>.</b>		Exp	eriment			
1		To take	plain and rolled inked fingerpri	nts in FBI card and to	identify patterns.		
2		Search f	or fingerprints from a suspected	l scene/object			
3	,	To perfo	orm ridge counting and whorl tr	acing from a given fi	ngerprint sample.		
4		Classific	cation of fingerprints using Hen	ry Ten Digit System.			
5		Develop method.	ment of fingerprints from poro	us/ non-porous surfac	e using powdering		
6			ment of fingerprints from poro	us/ non-porous surfac	e using chemical		
7			ement of footprints from mud.				
8			pment of tyre impressions.				
9		Develop	oment of lip prints.				
10			ison of fingerprint using ridge cint samples.	haracteristic or minu	tiae from a given		
					TOTAL 60 Hours		

				T	ools for	Asse	ssment	(30 M	arks)				
Analy Ski			ab rmanc	e In	ference	7	Test I	Te	est II	Obser	vation	То	tal
4	ı		4		4		7		7		4	3	0
						$\mathbf{M}$	apping						
CO \ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	Н	Н	Н	Н	L	-	M	-	-	Н	Н	M	-
CO2	Н	Н	L	Н	L	-	M	-	1	Н	Н	M	-
CO3	Н	Н	L	Н	M	-	M	-	ì	Н	Н	M	-
CO4	Н	Н	M	Н	L	-	Н	-	-	Н	Н	M	-
CO5	Н	Н	Н	Н	M	-	M	-	-	Н	Н	M	-
H-Hig	h; M-N	/ledium	; L-Lo	W									
		Cours	e desig	ned b	y				Verifi	ed by C	Chairma	n	
Ms. A	rchana	Sunil					Mr.	Akhil I	Benny				

Course	e Code			Title			
23U3F	RA304		Allied Pap	er IV - Forensic Biolog	gy		
Semest	er : III		Credits: 3	CIA: 20 Marks	ESE: 55	Marks	
Course	Objecti	ve	To learn the various analybiological samples.	ytical tools involved in	the forensic	analysis of	
Course	Categor	y	Employability				
Develop	ment N	eeds	Global				
Course	Descrip	tion	Forensic Biology deals with water animals and wild ani	=	es such as pla	ants, insects,	
Course	Outcom	ies		<b>Teaching Methods</b>	Assessment	Methods	
CO 1	Have a forension	e biolog		Lecture/Demonstration	Assig	gnment	
CO 2		s of hai	collection and scientific r and fibre.	Lecture/ Case studies	Case	studies	
CO 3	plants.		ne forensic significance of	Lecture/Demonstration	Ser	ninar	
CO 4	growth	•	time of death from insect	Lecture/Video lecture	Q	uiz	
CO 5	Unders cases.	tand ar	nd analyse wild life related	Lecture/Demonstration	Assig	gnment	
Offered	by Fo	rensic	Science				
Course	Content	t		Instruc	ctional Hour	s / Week: 3	
Unit			Description		Text Book	Chapters	
I	Histor evider impor Anthro	ry and so nces. F tance opology	to Forensic Biology cope, divisions. Nature and it fundamentals of Biology, in Forensic Biology. Im y & Odontology, Forensic and packaging of biological	Biochemistry and its portance of Forensic Serology. Collection,	1	1	
	•			Instructi	onal Hours	9	
Suggest	_	U	lethods : Library extra rea	ding			
	Hair -		ores  are of human hair: Inner a  of hair and growth stages.				
П	exami synthe	nation. etic fib	air: medulla, Medullary inc Fibre - Classification: Natures and their properties. es of fibres and their Forensic	rral, Semi-synthetic and Structure analysis for		2	
	1			Instructi	onal Hours	9	
Suggest	ed Lear	ning M	lethods : Hands on Trainin	ıg			

III	Forensic Imparrangement a Structure, fur Diatoms: Loc	cture and Properties. Types, Identification with sortance. Leaves: Morphology, types based on and venation with structures and examples. Pollen: nction, Reproduction and Forensic importance. cation, Structure, types, reproduction identification. Significance. Limnology: Scope, Forensic	1	3			
			onal Hours	9			
Suggest	ed Learning M	ethods : Library extra reading					
Daggest	Entomology	emous v znorury emoru reuning					
IV	Introduction, arthropod. In Coleoptera, c	areas and importance. General anatomy of sects of Forensic significance: Order- dipteral, ollembola etc. Estimation of time since death and ssion. Collection, packing and preservation of levidence.	1	4			
		Instructi	onal Hours	9			
Suggest	ed Learning M	ethods : Video lectures					
V	protection. We supporting according to identify: sp	History and Importance. Laws related to wildlife fild life protection Act: History, importance and its and laws. Red data book and wildlife crimes. Pug res and methods for collection. Methods of analysis becies, gender, age, individual characters from pug ife DNA data base. Ornithology and its application.	1	5			
		Instructi	onal Hours	9			
Suggest	ed Learning M	ethods : Library extra reading					
		Т	Cotal Hours	45			
Text Bo	ooks	<ol> <li>Forensic Biology notes compiled by the Science, Nehru Arts and Science College C</li> </ol>	-	of Forensic			
		1. Forensic Biology, S. Chowdhuri, BPRD, N	ew Delhi (19	71)			
Referen	ce Books	<ol> <li>Forensic Science Handbook, R. Safersteir New Jersey (1993)</li> <li>Criminalistics and Scientific Investigation, Cunliffe.</li> </ol>					
		4. Forensic Science in Wildlife Investigation,	Taylor & Fra	ncis (2009)			
Web. U	Web. URLs  1. https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=eCJfy23Kjy3c00VICLa6VYg==						

				To	ols for	r Asses	sment	(20 ]	Ma	rks)				
CIA	Ι	CIA	II	CI	A III	As	signm	ent		Semina	r	Quiz	Total	
4		4			5		2			2		3	2	0
						Ma	pping							
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO	)8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	Н	Н	L	M	L	M	L	N	1	-	L	M	-	L
CO2	Н	Н	Н	L	M	M	M	I	,	-	Н	Н	Н	Н
CO3	M	Н	L	L	-	M	M	I	,	-	Н	L	-	L
CO4	M	Н	L	Н	-	M	Н	I	,	-	Н	M	M	M
CO5	M	Н	Н	Н	Н	M	M	I	,	-	Н	Н	-	M
H-High; N	/I-Mediu	ım; L-L	ow											
	C	Course	design	ned by	7					Veri	ified b	y Chairma	an	
Ms. Arch	ana Sui	nil					M	r. Akl	hil l	Benny				

Course	Code			Title			
23U4F	RS301		Skill Based Paper	· I – Good Laborato	ry Pı	ractices	
Semest	er : III		Credits: 3	CIA: 20 Marks		ESE : 55 I	Marks
Course	Objecti	ve	To equip participants with and maintain Good Labor ensuring data integrity, environment.	ratory Practices (GI	LP) in	laborato	ry settings,
Course	Categor	<b>y</b>	Skill Development				
Develop	ment N	eeds	Global				
Course	Descrip	tion	This course introduces of principles, regulations, do laboratory professionals.	<del>_</del>			_
Course	Outcom	ies		Teaching Method	ds	Assessme	nt Methods
CO 1	To und	erstar	nd the basics of GLP	Lecture/Demonstrat	ion	Assi	gnment
CO 2			the components of GLP	Lecture/ Case studie	es	Case	studies
CO 3	Acquir protoco		nowledge on laboratory	Lecture/Demonstrat	ion	Se	minar
CO 4	Unders	tand t	the reporting of results	Lecture/Video lectu	re	(	Quiz
CO 5	Learn a			Lecture/Demonstrat	ion	Assi	gnment
			c Science				
Course	Content	t		Insti	ructio		s / Week: 3
Unit			Description			Text Book	Chapters
I	purp	inition pose o	n of good laboratory praction of GLP, Compliance with GL and its principles.	•		1	1
				Instru	ction	al Hours	9
Suggest			Methods: Library extra rea	ading			
II	the req	cility uirem ng, san	of GLP management, quality assura nents of the test facilities mpling and storage of analyt	equipments, person	als.	1	2
G					ction	al Hours	9
Suggest	t <b>ed Lear</b> Lab Pro		Methods: Hands on trainir	ıg			
III	Perform	nance , stud	s of the study-Reagents and s dy implementation and n			1	3
	recordi	ng					
	recordii	ng		Instru	ction	al Hours	9

	Report	ing											
<b>TX</b> 7	Report	ing of	study	result	ts, arc	hiving	of re	ecords	and mat	erials,	1		4
IV	enforce	ement	of GI	_P-aud	its, no	oncom	plianc	e and	consequ	ences,	1		4
	facility	disqu	alificat	ion an	d reins	tateme	ent.						
									Inst	ruction	al Hour	s	9
Suggest	ted Lea	rning l	Metho	ds: La	borat	ory pr	actice	2					
	NA	ABL											
	Na	tional	accre	ditatio	n boa	rd fo	r tes	ting a	nd calil	oration			
$\mathbf{V}$								Ū	ation, be		1		5
		pe and			-				,	,			
		pe une	prome			•			<b>.</b>	4.	1 77		0
C	T	<b>!</b> 1	N / - 41	J O.	.12 4-	•	_		Inst	ruction	al Hour	S	9
Suggest	tea Lea	rning	vietno	as: Oi	niine t	rainin	<u>g</u>			Tot	al Hour	<u> </u>	<u>45</u>
			1.	Note	es com	niled	hy the	denar	ment of				
Text Bo	ooks		1.			-	•		mbatore	1 Of Cits	ic Scici	icc, 11c	ın u
		ctices A	Assessm	ent									
Test.													
Reference Books  2. Jerry R. Mohrig; Laboratory Techniques in Organic													
Kelelel	Reference Books  Chemistry 2017												
			3.	Lyn	ne S. C	Garcia	; Clin	ical Lal	oratory	Manage	ement 2	019	
				1				t (20 M	(arks)				
CIA			A II	CI	A III	As	signn	nent	Semina	ar	Quiz		tal
4			4		5		2		2		3	2	0
							pping						
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7		PSO1	PSO2	PSO3	PSO4	PSO5
CO1	H H	M M	M L	M H	H H	H M	M	M	H M	M H	H L	H L	M M
CO <sub>2</sub>	<del>п</del> Н	M	M	L L	L	M	L	M	H	п Н	M	M	H
CO4													
CO5	Н	M	M	Н	M	L	L	M	Н	M	L	L	Н
H-High	; M-Me	dium; l	L-Low										
		Course	desig	ned by	V				Veri	fied hv	Chairm	an	
		Course	ucsig	med D					7 (11)	ilea by			
Mr. Akh	:1 D						TN.	//r 1/1-1	nil Benn	<b>3</b> 7			

UG NASC 2022

Course	e Code		Title								
22U3N	M3BT1			Part IV : Basic T	amil -		· I)				
Semest	ter: III		Credit	s: 2		CIA: 50 M	arks				
				(Common to all UG	Prog	rammes)					
Course	Objective	2	தமிழ் மொழி	யைக் கற்பித்தல்–மெ	ாழித்த	ிறனை வளர்த்தல்.					
Course	Category	,	Skill Develo	pment ( மாணவர்களி	ன் மெ	ாழித்திறனை ஊக்குவி					
Develop	ment Ne	eds	Regional (த	மிழ் மொழியின் அவக	சியத்ன	த உணர்த்துதல்)					
Course	Descripti	on	மாணவர்களி	ன் மொழித்திறனை உ	ளக்குவ	<b>பித்த</b> ல்					
Course	Outcome	s				<b>Teaching Methods</b>	<b>Assessment Methods</b>				
CO 1			க்கள் அறிமுக கியவற்றின் பட	ம் செய்தல் மற்றும் பன்பாடு.		குழு விவாதம்	ஒப்படைவு				
CO 2	பிறமொį	ழி கற்ற	<u>ந</u> ல் ஆர்வம் த	நுண்டல்.		குழு விவாதம்	கருத்தரங்கு				
CO 3	பிறமொடி	ழி அறி	ிவுத் திறன் பே	மம்படச்செய் <u>த</u> ல		விரிவுரை/ காணொளிப்பட விளக்கம்	குழுத்திட்டம்				
CO 4	வார்த்தை	த அல	மைக்கும் திறன்	r பெறச்செய்தல். -		விரிவுரை/ குழு விவாதம்	குழுத்திட்டம்				
CO 5	கையெர	ழத்துத்	திறன் பெறச்	)சய்தல்.		குழு விவாதம்	குழுத்திட்டம்				
Offered	by தம்	ிழ்த்து	றை				I				
Course	Content :	Basic	Tamil – I 🧕	டிப்படைத்தமிழ் - I	Insti	ructional Hours / We	ek: 2 Hours				
Unit	Ι	Descrij	ption	Text Book		Chap	ters				
I	•	-	ருழியின் ந் கூறுகள்	இலக்கணம்	2.மெ	பிர்எழுத்துக்கள் ய் எழுத்துக்கள் பிர்மெய் எழுத்துக்கள்					
l l			In	structional Hours			6 Hours				
Suggeste	ed Learn	ing M	ethods : តយ្វេ	ந்துக்களை எழுதும் ப	<b>ுற்றும்</b>	வாசிக்கும் திறன் பெ	<b>ந்நமை</b>				
II	சொ	ல் அ6	மைத்தல்	இலக்கணம்	2.இர 3.தமி 4.வல	எழுத்து ஒருமொழி ண்டுமுதல் ஐந்து எழு நிழ் மாதங்கள் பெயர்,கி ன்ணங்கள் பெயர், எல் ஆக்கம்	-				
'			In	structional Hours			6 Hours				
Suggeste	ed Learn	ing M	ethods : எழுத்	துக்களை கொண்டு	சொற்க	களை உருவாக்கும் ப	பிற்சி பெற்றமை				
III	(	தொடர	மைப்பு	தொடரமைப்பு	_	9வாய் யப்படுபொருள்					
				structional Hours			6 Hours				
Suggeste	ed Learn	ing M	ethods : சொற்	<sub>3</sub> களைக் கொண்டு ெ		உருவாக்கும் பயிற்சி	பெற்றமை				
IV	குற	நிப்பு எ	ரழுதுதல்	இலக்கணம்		ric ரமைப்பு தி அமைப்பு					
I			In	structional Hours			6 Hours				

UG NASC 2022

v	பிழைநீக்குதல்		இலக்கணம்		1.ஒந்றுப்பிழை 2.வாக்கியப் பிழை			
			Instructional Hours		6 Hours			
Suggest	ed Learning M	ethods :	இலக்கணப்	பிழை இன்றி	எழுதும் திறன் பெற்றமை			
			Т	otal Hours	30 Hours			
Text Books			<ol> <li>இளங்கலை தமிழ் மாணவர்களுக்குரிய பாடநூல்"அரிச்சுவடி" தொகுப்பு: தமிழ்த்துறை,நேரு கலை மற்றும் அறிவியல் கல்லூரி,கோயம்புத்தூர்.</li> </ol>					
Referen	1. பவணந்தி முனிவர்,நன்னூல் பூலியூர்க்கேசிகன் உரை,சாரதா பதிப்பகம், சென்னை–40. 2. தொல்காப்பியம், கணேசையர் பதிப்பு,உலகத் தமிழாராய்ச்சி நிறுவனம், சென்னை -113.							
Web. U	Web. URLs <a href="https://youtu.be/P7vvUnjI6vY">https://youtu.be/P7vvUnjI6vY</a> , <a href="https://youtu.be/Zx4R3yZseuQ">https://youtu.be/P7vvUnjI6vY</a> , <a href="https://youtu.be/Zx4R3yZseuQ">https://youtu.be/Zx4R3yZseuQ</a> .							

# **Tools for Assessment (50 Marks)**

CIA I	CIA II	CIA III	Seminar Assignment		Group	Total
					Project	
8	8	10	8	8	8	50

Mapping

CO/P	PO	PO2	PO3	PO4	PO	PO6	PO	PO	PSO	PSO	PSO	PSO4	PSO5
0	1				5		7	8	1	2	3		
CO1	L	L	H	L	H	M	Н	Н					
CO2	M	L	Н	L	M	M	L	Н					
CO3	Н	L	Н	L	L	M	M	Н					
CO4	Н	L	M	L	L	M	Н	M					
CO5	M	L	Н	L	M	M	Н	Н					

Course designed by	Verified by				
Dr. S. Satheesh kumar	Dr. A. Sridevi				

Course	e Code			Т	litle	
22U4N	M3AT1	Part IV	/: Adva	nced Ta	$\mathbf{mil} - \mathbf{I}$ (சிறப்பு	த்தமிழ் - <b>I</b> )
Semest	ter: III	Credits: 2			ESE: 50	Marks
Course Obj	ective	புதுக்கவிதை உருவா மேம்படுத்துதல்	ாக்கும் த	திறன் வ	ளர்த்தல் - மொ	ழித்திறனை
Course Cate	egory	Skill Development	(ഥനത്തവ	ர்களின்	மொழித்திறனை	ஊக்குவித்தல்)
Developmen	nt Needs	Regional (தமிழ் மெ	ாழியின்	அவசிய	<b>ு</b> த்தை உணர்த்த	நுதல்)
Course Desc	cription	மாணவர்களின் மொழ	<b>ித்தி</b> றன	ன ஊக்	குவித்தல்	
Course Out	comes				Teaching Methods	Assessment Methods
CO 1	புதுக்கவி திறன்வள	ி <b>தை</b> படைக்கும் ாத்தல்			ഖിரിഖ്വത്യ	குழுத்திட்டம்
CO 2	படைப்பாக பெறச்செ	க்கத்திறன் அறிவு ப்தல்.			வுரை / குழு விவாதம்	கருத்தரங்கு
CO 3		தொடர்பியலுக்கான மைவுத்திறன் பெறச்செய்த	தல்		விரிவுரை / ாணொளிப்பட விளக்கம்	கருத்தரங்கு
CO 4		பப் பிழையின்றிப் பேசும் ,ஒ பநச் செய்தல்	எழுதும்		ഖിரിவுரை	ஒப்படைவு
CO 5	கடிதம் எ பெறுதல்.	ழுதுதல் மற்றும் மொழியர	<u> ള</u> ിതെവ്		விரிவுரை / ஈணொளிப்பட விளக்கம்	குழுத்திட்டம்
Offered by	தமிழ்	த் <b>துறை</b>				
Course Con	tent: Advance	ed Tamil - I (சிறப்புத்தம	(I- வூ	Instru	ictional Hours	/ Week : 2 Hours
Unit	Descripti	ion Text	Book			Chapters
					1.1.தேசபக்திபாட	_ல்
I	புதுக்கவி	1. பாரதியார் <sup>தை</sup> 2. பாரதிதாசன்			தாயின் மணிக்ெ	•
	10	<sup>தை</sup> 2. பாரதிதாசன்			1	தமிழ்மொழிபற்று-
		T at	ation al	Hanna	கனியிடை,தமிடு	ழக்கும் அமுதென்று) <b>சா</b>
Suggested L	Learning Meth	nistru nods : கவிதை எழுதும் த		<b>Hours</b> பற்றமை		6 Hours
П	பிழை நீக்கு					பிழை நீக்கம் ழுதச் செய்தல்
Suggested I	coming Mc4l			Hours	neus elec÷ O∵	6 Hours
Suggested I III	earning Med இலக்கண் பயிற்சி அளித்தல்	இலக்கணம்	ாலம் இ	юп <u>ы</u> ө।(П	3.1.தொகை 3.2.தொகா	நூமை நிலைத்தொடர், நிலைத்தொடர் பர் வகைகள்

		Instruction	onal Hours			6 Hours
Suggested I	Learning Method	<b>ds :</b> இலக்கணப் பிழை இ	ன்றி எழுதும் ப	பயிற்சி	பெற்றமை	
IV	கடிதம் எழுதுதல்	இலக்கணப் பயிற்சி	₫(j)	4.2. 4.3. 4.4.	பாராட்டுக்கடிதம் நன்றிக்கடிதம் அழைப்புக்கடிதம் அலுவலகக் கடிது நட்புக்கடிதம்	ம்
		Instruction	onal Hours			6 Hours
Suggested I	Learning Method	ds : கடிதம் எழுதும் திர	<b>நன் பெ</b> ந்நமை			
V	இலக்கிய வரலாறு	தமிழ் இலக்கிய வ	ரலாறு		பலு நாச்சியார் பலோட்டிய தமிழன்	г
		Instruction	onal Hours			6 Hours
Suggested I	Learning Method	ds : தமிழ் இலக்கிய வர	லாற்றின் சிறப்ப	<u></u> പിതെ ക്ര	அறிய பெற்றமை	
		T	otal Hours			30 Hours
Text Books		<ol> <li>இளங்கலை தமிழ் மா தொகுப்பு: தமிழ்த்துழை கோயம்புத்தூர்.</li> </ol>				പ്പത്വെ.
Reference F	Books	<ol> <li>பாரதியார்- பாரதியார் கொடிமரத் தெரு, ெ</li> <li>பவணந்தி முனிவர் - பதிப்பகம், சென்னை</li> </ol>	சன்னை— 013 – நன்னூல் புலி	3.	·	
Web. URLs	<u>h</u>	ttps://youtu.be/xnsvFOHx	Deo, https://yo	outu.be/	kQoIj-29VIk.	
	Course desi	gned by			Verified by	
	Dr. S. Sathee	esh kumar			Dr. A. Sridevi	

NASC | 2022

Cour	se Code	Tit	tle							
22U4N	M3CAF	Non Major Elective	: Consumer A	ffairs						
Seme	ster : III	Credits: 2	E	SE : 50 M	arks					
		(Common to all UG Program	mes)							
Course	Objective	To enable the students to understand Markets	the concepts of	Consumer	s and					
Course	Category	Employability								
Develop	ment Needs	National & Global								
		Course Outcomes	Teachin Method	_	Assessment Methods					
CO 1	Know their consumer	r rights and responsibilities as a	Lecture Video Lec		Assignment					
CO 2	Gain know in India	vledge about Consumer protection law	Lecture Peer Teac		Seminar					
CO 3	Understand consumer	d the procedure about redressed of complaints	Lecture Group Disco		Seminar					
CO 4		encies and Norms Role Play								
CO 5	Comprehe	nd Business Firms, Interface with s.	Lecture Group Disco		Quiz					
Offered	by Depar	tment of Business Administration		•						
Course	Content		Instruct		rs / Week: 2					
Unit		Description		Text Book	Chapters					
I	Consumer, of markets Concept of (MRP), Fa relevant law Consumer	Nature of markets: Liberalization and with special reference to Indian Consuration Retail and Wholesale, Maximum ir Price, GST, labelling and packaging, Legal Metrology.  Complaining Behaviour: Alternatives Consumers; Complaint Handling Process	Globalization amer Markets, m Retail Price g along with available to	1	1 & 2					
			Instruction	al Hours	6					
Suggest		Methods: Video lectures								
II	<b>Objectives</b> Guidelines	mer Protection Law in India and Basic Concepts: Consumer rig on consumer protection, Consumer go- ious goods and services, service, deficient practice.	ods, defect in	1	5 & 6					
		-	Instruction	al Hours	6					
Suggest	ed Learning	Methods : Peer Teaching			1					

III	Protect	tion La can fil ion per al f cas	aw e a c riod; Pr ses, Re	omplai rocedu lief/Re	int? G	brounds	s of f	iling a ring of		laint; laint;	2		1
			<u>.                                    </u>						Instr	uctiona	l Hours	;	6
Suggest	ed Lear	ning N	<b>Aethod</b>	ls : Gr	oup D	iscussi	on						
IV		gulation es i. Te ii. Fo	n (ISR) lecomr ood Pro	Protection	ction P tion: T FSSA	olicies RAI I	, Consi				2		4
									Instr	uctiona	l Hours	8	6
Suggest	ed Lear	ning N	<b>1</b> ethod	ls : Ro	ole Pla	y							
V	Consumorganiz Mislead Consum Quality standar Hallma	mer Mations Aling Aliner Head and and and and and and and and and a	and dvertis lpline, l Sta	thei thei ements Compa ndard BIS, I	n Income roll of the second se	lia: le in ustaina Produ n: Vo Standa	Forma con able con ct testin bluntary ards M	sumer nsumpt ng. y and	Mand	ction, cional	2	6	& 7
									Instr	uctiona	l Hours	5	6
Suggest	ed Lear	ning N	<b>Iethod</b>	ls : Gr	oup D	iscussi	on						
										Tota	d Hours	5	30
Refere	nce Boo	ks		Aw 2. Ch	asthi. oudhar	(2007) ry, Ran s and F	Consun Nare	mer Af sh Pras	fairs, U ad (200	niversit 5). Con	ipoor, an ies Press sumer P blication	rotectio	
CO\	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
PO		102	100	104						1502	1503	1504	1505
CO1	L	-	-	-	M	Н	Н	M	M	-	-	-	-
CO2	L	-	1	ı	M	Н	Н	M	M	-	-	1	-
CO3	L	-	-	-	M	Н	M	M	M	-	-	_	-
CO4	L	-	-	-	M	Н	Н	M	M	-	-	-	-
CO5	L	_	-	-	M	Н	Н	M	M	-	-	-	-
H-High;	M-Med	ium; L	-Low					<u> </u>	1		•		1
		Course	e desig	ned by	7				Ve	rified b	y Chair	man	
D. D. A	Ayyappa						Т	or P A	Ayyapı		•		

Cours	e Code	,	<b>Fitle</b>		
22U4N	M3GST	Non Major Elective	: Gender Sensitiza	tion	
Semes	ter : III	Credits: 2	ESI	E : 50 Mar	ks
	•	(Common to all UG Progr	rammes)		
Course	Objective	To raise awareness of gender, pro- with key concepts and principles of			p learners
Course	Category	Skill Development, Employability a	and Entrepreneurship	)	
Develop	ment Needs	Local, National and Global			
Course	Description	The course aims an exploratio construction, gender issues and chakey concepts and principles of ge and equity.	llenges in India, and	equips lear	rners with
Course	Outcomes		Teaching Method	C	sessment Iethods
CO 1	Learn ge stereotypes	nder roles, socialization, and	Direct Instruction	n As	signment
CO 2	areas, and	the gender discrimination causes, evels in institutions.	Direct Instruction	n S	eminar
CO 3	families, a	e gender identity formation, types, ad socialization in India.	Video Lessons	As	signment
CO 4	Understand enrollment achieveme	, I I ,	Direct Instruction	n As	signment
CO 5	Apply the	Laws Related to Women	Direct Instruction	n Ex	khibition
Offered	by Depar	tment of Costume Design and Fashio	on	1	
Course	Content		Instruction		s / Week: 2
Unit		Description		Text Book	Chapters
I	Introduction Definitions, Meaning,	cialisation and Gender Roles:  - Meaning of Sex and Gender, Gender Agents of Gender Socialisation, Definitions, Nature of Gender Gender Roles/Stereotypes	Gender Roles-	1	-
~			Instruction	nal Hours	6
Suggest		Methods : Group discussions crimination:			
II	Gender Discriminat	scrimination - Meaning and Cau		1	-
			Instruction	nal Hours	6
Suggest		Methods: Video documentaries and	d films		
III	Identity, Ty	ntity: ntity - Meaning, Formation and Fa pes of Gender Identity, Types of Fa alisation within Indian Families		1	-
			Instruction	nal Hours	6
Suggest	ed Learning	Methods: Case Method			

	Gende	r Conc	cerns:												
IV				elated t	to Acce	ess. En	rolmer	it, Rete	ntion		1		_		
1 4	Partici					<i>5</i> 55, <b>1</b> 11		ι, ποιο	incrom,		1				
	T di tici	patron,	una 11						Ţ	nstructi	onal Ha	nire	6		
Suggest	ed Lea	rning l	Metho	ds : Vi	ideo do	ocume	ntaries	and fi		iisti ucti	onai ii	Juis	<u> </u>		
	Laws														
	Laws I	Related	to Rap	e, Law	s Relat	ed to I	Oowry -	Dowry	Prohib	ition Act	,				
$\mathbf{v}$	1961, I	Laws Re	elated to	o Rema	rriage,	Laws R	Related	to Divo	rce, Law	s Related	l l				
•	to Prop	erty In	heritan	ce, Lav	ws Rela	ated to	Traffic	king, C	Constitut	ional and	ı   1		-		
	-	-	related	to Wo	men - V	Vomen	's Rese	rvation 1	Bill – Hi	story and	l				
	Curren	t Status													
<u> </u>				1 0	3.5	(X X			I	nstructi	onal Ho	ours	6		
Suggest	ed Lea	rning I	<u>Metho</u>	ds : Ca	ase Me	ethod				Т	latal II.		20		
		1	Gend	ler Sc	hool a	and So	ociety	· Self	-learnin		'otal Ho		30 LORE		
Text Bo	oks	1.	Gender School and Society: Self-learning Material, MANGALORE  UNIVERSITY Printed at Datacon Technologies, Bangalore, 2018												
			UNIVERSITY, Printed at Datacon Technologies, Bangalore, 2018  1. United Nations Development Programme. (2014). Gender Equality and												
Referen	ce	1.	Unite	ed Nat	ions [	Develop	oment	Progra	mme. (	2014). (	Gender	Equalit	ty and		
Books			Won	nen's E	mpowe	erment	: Train	ing Ma	nual. Ne	ew York	: UNDF	P.			
		1.	Cour	sera - <u>l</u>	nttps://	www.c	ourser	a.org/co	ourses?c	query=ge	ender%2	20sensi	tization_		
Web. U	RLs	2.	edX ·	- <u>https:</u>	//www	edx.o	rg/lear	n/gende	er-sensit	ization					
		3.	Uden	ny - htt	tps://w	ww.ud	emy.co	m/topi	c/gende	r-sensiti	zation/				
						M	appin	g							
CO \ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5		
CO1	Н	M	M	M	M	Н	Н	M	-	=	1	-	-		
CO2	Н	M	M	M	Н	Н	M	M	-	-	-	-	-		
CO3	Н	M	M	M	M	Н	Н	M	-	-	ı	-	-		
CO4	Н	M	M	M	L	Н	Н	M	-	-	-	-	-		
CO5	Н	M	M	M	M	Н	M	M	-	-	-	-	-		
H-High;	M-Me	dium; l	L-Low												
		Course	e desig	ned b	y				Ver	rified by	Chairi	nan			
Ms. M.	Nandhi	ni					D	r. S. Jay	yapriya						

Cour	se Code	2		Title					
22U4N	M3WRT	Γ/	Non Major Electivo	e: Women's Rights					
Seme	ster : II	I	Credits: 2	ESI	E : 50 Mar	ks			
		I	(Common to all UG Pro	grammes)					
Course	Objectiv	ve	To facilitate the awareness about intellectual or cultural contribut			al,			
Course	Categor	ry	Skill Development						
Develop	oment N	leeds	National						
Course	Descrip	tion	Apply the knowledge of Rights	related to women for	their bette	rment.			
Course	Outcom	ies		Teaching Methods	Assessm	ent Methods			
CO 1	Aware	e of ba	sic constitutional rights	Lecture/ Case Study/ Role Play	Se	minar			
CO 2	Gain a	awaren	ess on Political rights	Lecture/ Case Study/ Role Play	Rol	le Play			
CO 3	Under	stand	individual and familial rights	Rol	le Play				
CO 4	Grasp in Indi		ovisions for Women's Rights	Rol	le Play				
CO 5		-	Study/ Role Play  understanding of the Lecture/ Case Mechanisms for women  Study/ Role Play  Assignm						
Offered	by D	epart	ment of Social Work						
Course	Content	t		Instruction	onal Hours	s / Week: 2			
Unit			Description		Text Book	Chapters			
I	relating state po and edi Universi Rights	to woolicy - lucationsity Defer West - Le	al Rights of Women in India: omen - Fundamental rights - Dir right to equality – rights against enal rights - the right to const eclaration of Human Rights -Enformen and Children - Role of Cegal AID cells, Help line, State	ective principles of exploitation cultural itutional remedy - orcement of Human ells and Counseling	4	2			
				Instruction	al Hours	6			
Suggest			Methods: Seminar	1 Dights of Warran					
II	in India leader represer Rural a	a - Ele - pro ntation	hts of Women in India: Political ectoral process – women as vote essure group, 73rd and 74 <sup>th</sup> of women in local self –gover ban local bodies - Reservation d women's issues.	rs - candidates and amendment and nment – women in	5	1			
				Instruction	al Hours	6			
Suggest	ed Lear	ning l	Methods : Role Play						

												1	
III	– Crim Harassı	ne Aga	inst W	Vomen wry De	Dome	estic V Moles	ioleno station	ce – Do – Sexu	al Abus	elated	3		7
	Rape L	oopho	les in P	ractice	e–Law	Enforc	ement	Agenc	-				
									Instr	uctional	l Hours	3	6
Suggest						<u> </u>							
		-	-		-				stic Viol				
IV									Act 2005		3		5
- '								idow Re	emarriag	ge Act	3		3
	1856 - '	The Do	owry P	rohibit	ion Ac	t 1961	•						
									Instr	uctiona	l Hours	3	6
Suggest	ed Lear	ning N	<b>Aethod</b>	ls : Cı	reative	Art A	Assign	ments					
	Special	Wor	nen V	Velfare	Law	s: Sex	kual F	Iarassm	ent at	Work			
	Places,	Rap	e and	Inde	ecent	Repre	esentat	ion, T	he Inc	decent			
$\mathbf{v}$	Represe	entatio	n (Prol	hibitio	n) Act,	, 1986,	Immo	oral Tra	ıfficking	g, The	3		9
V	Immora	al Traf	fic (Pre	eventio	n) Act	, 1956	- Acts	Enacte	d for W	omen	3		9
	Develo	pment	and E	Empow	ermen	t, Role	e of I	Rape C	risis Ce	enters.			
	Protect	ion of	Childre	en fron	ı sexua	al Offe	nces A	ct 2012	·•				
									Instr	uctional	l Hours	3	6
Suggest	ed Lear	ning N	<b>Aethod</b>	ls : Co	mmun	nity Pa	rticipa	ation P	rogram				
										Total	l Hours	3	30
			1.	P. D.	Kaush	ik "W	omen	Rights'	" Book	well P	ublicati	on 200°	7 UN
								_			nst Won		
							_		nts,1994	_		`	
Refere	nce Boo	ks			-	_		_			ay Our	Daily I	3read:
	200			•		`					lis, Bom	-	
											ality: Tl	•	ics of
						`	,		New D	1			
							pping						
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO
CO1	M	Н	M	M	Н	M	M	M					
CO2	Н	M	M	Н	M	M	Н	Н					
CO3	Н	M	M	Н	M	Н	M	M					
CO4	M	Н	M	Н	M	M	M	Н					
CO5	Н	M	M	Н	M	Н	M	M					
H-High;	M-Med	lium; L	L-Low	•				<u> </u>			•		
		Course	e desig	ned by	7				Ver	rified by	Chairi	nan	
Dr. P. N				•			I	Dr. P. N	athiya				
	-								-				

Course	e Code			,	<b>Title</b>		
22U4FI	R3ED1		Skill Base Extra Departmental C	_	en Elective Course : I - Fundamental I	Due Dilige	nce
Semest	er : III		Credits: 2		ESE:5	50 Marks	
Course	Objecti	ve	Due diligence is next le objective of training fore				
Course	Categor	<b>cy</b>	Employability				
Develop	oment N	eeds	Global				
Course	Descrip	tion	When it come to crimes, happening. Due diligent from happening.				
Course	Outcom	ies		T	eaching Methods	Assessme	ent Methods
CO 1	Exami diliger		concept of legal due	Lec	ture	Assi	gnment
CO 2	Due D	iligence		Lec	tures/ Tutorials	Se	minar
CO 3	operat	ional D	knowledge about the ue diligence		ture/Demonstration	(	Quiz
CO 4	Assess	ment	ESG Analysis and Risk		ver point sentation	Ac	etivity
CO 5	Acquir Dilige:		sic idea about Due ocess and Best Practices	Vid- lect	eo ures/Tutorials	Assi	gnment
Offered	by Fo	rensic	Science				
Course	Conten	t			Instruction	nal Hours	/ Week: 2
Unit			Description			Text Book	Chapters
I	Diligeno Laws a	on and ce. Corj nd Reg	igence I importance of Due Di porate Structure and Gover gulations, Contracts and A ation and Dispute.	rnance	, Compliance with ments, Intellectual	1	1
Suggest	ed I con	ming M	Iathada I ihnami avtna na	adina	Instruction	al Hours	6
Suggest			<b>lethods: Library extra re</b> Diligence	aumg			
II	Financia	al State	ements Analysis, Cash Flo Valuation Methods, Key F		-	1	2
1			·		Instruction	al Hours	6
Suggest			Iethods: PowerPoint pres	sentat	ion		
III	Busines Custom	s Mod er Base	Oue Diligence  The let and Strategy, Industre  The and Revenue Streams,  Resources and Manageme	Ope	=	1	3
					Instruction	al Hours	6
Suggest	ted Lear	ning M	<b>Iethods: Video lectures</b>				

IV	Assess Report	nmenta ment, Struc	al Impa Gover ture a	act Ass nance nd Co	sessme and E ntent,	nent nt, Soci thics As Risk As list and	ssessi ssessi	nent, E nent ai	ue Dili	gence	1		4
									Insti	uction	al Hour	s	6
Suggest								g					
V	Due D	oiligend nce Be	ce Pro	cess S	Steps,	t <b>Practic</b> Team Sessons L	truct				1		5
									Insti	uction	al Hour	s	6
Suggest	ed Lea	rning	Metho	ds: Po	werPo	oint pre	senta	tion					
	Total Hours 30 Hrs												
Text Bo	oks		1.			piled by				Forensi	c Scien	ce, Nel	ıru
Referen	ce Boo	ks	2	Gold The Due	e and F Art of Dilige	ence: An Paul J. H Due Di ence Har ent and I	ilger ligeno ndboo	ce by B ok: Cor	arbara I porate C	L. Koen Governa	ig nce, Ris	k	ım J.
						Map	ping						
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	-	Н	-	M	L	L	M	Н	-	Н	Н	Н	-
CO2	-	Н	-	M	L	L	M	Н	-	Н	Н	M	-
CO3	-	Н	-	M	L	L	M	Н	-	Н	Н	Н	-
CO4	-	Н	-	M	L	L	Н	Н	-	Н	Н	Н	-
CO5	-	Н	-	M	L	L	M	Н	-	Н	Н	Н	-
H-High;	M-Me	dium;	L-Low	,									
		Course	e desig	ned b	y				Verif	fied by	Chairm	an	
Mr. Akh	Course designed by Verified by Chairman  Akhil Benny  Mr. Akhil Benny												

Cours	e Code			Title						
22U4F	R3ED2		Skill Bas Extra Departmental Cou	ed Open Elective Course urse : II - Introduction t		lence				
Semest	ter : III		Credits: 2	ESE: 5	ESE: 50 Marks					
Course	Objective		Jurisprudence gives an ov or skill in law and the role	verview and a much more in depth knowledge of e of law in society.						
Course	Category		Skill Development							
Develo	pment Nee	ds	National							
Course	Description	n	Jurisprudence explores the manner. Jurisprudence de legal systems.		-	_				
Course	Outcomes			Teaching Methods	Assessment	Methods				
CO 1	Understa jurisprud		the meaning of e and sources of law.	Lecture	Assig	nment				
CO 2	rights an	d ol	the concepts of legals oligations	Lectures/ Tutorials	Sen	ninar				
CO 3	persons a	and	owledge about the legal properties	Lecture/Demonstration	Q	uiz				
CO 4	Understa and Hum		the Constitutional laws Rights	Tutorial / Case Studies	Act	ivity				
CO 5	Learn the Jurispruce		Contemporary Issues in	Video lectures / Tutorials	Assig	gnment				
Offere	d by Fore	nsi	c Science							
Course	Content			Instruction	onal Hours	/ Week : 2				
Unit			Description		Text Book	Chapters				
I	Definition jurisprude Legal Pos of sources interpretat	and nce itivities of	to Jurisprudence and Soud scope of jurisprudence, H in India, Schools of jurispism, Historical School and f law: primary and secon and the role of the judiciary Indian legal system	istorical development of prudence: Natural Law, Realism. Classification dary sources. Statutory	1	2				
				Instruction	nal Hours	6				
Sugges			Methods: Library extra re							
	Concept of fundament	of le	rights, legal rights, and hur	rights and concepts rights and obligations, Types of legal rights: ts, legal rights, and human rights, Relationship and duties. Legal concepts: justice, equality, this. Theories of punishment: retribution, rehabilitation Theories of law: analytical,						
II	liberty, a deterrence	and e, a	rights. Theories of pr	unishment: retribution,	1	3				
	liberty, a deterrence sociologic	and e, a al, a	rights. Theories of pound rehabilitation Theorie and natural law.	unishment: retribution, es of law: analytical,  Instruction	onal Hours	6				
	liberty, a deterrence sociologic	and e, a al, a	rights. Theories of pand rehabilitation Theorie	unishment: retribution, es of law: analytical,  Instruction						

					cquisi	tion, tı	ansfer,	and de	evolutio	on of							
	propert	y in In	dian ia	ıw					Inct	muetion	al Hour	eg.	6				
Suggest	od I oo	rning	Motho	da. Do	awar <b>D</b> a	oint nr	oconto	tion	11150	uction	ai iioui	<u>s  </u>	U				
Suggest	Consti							11011				T					
IV	Histori rights a and oth law an	cal devand dut ner org nd its and the	velopmies of cans of cans of recognition	ent of citizens the go	the Ins, Poweronn	dian Cers and nent, Fian leg	Constitu   functio     frinciplo   gal sys	ons of t es of i tem, I	Fundame The judio Internati Internation to and	ciary onal onal	1		7,9				
•									Inst	ruction	nal Hours 6						
Suggest	ed Lea	rning l	Metho	ds: Ca	ise Stu	ıdies											
V	and tec	develo hnolog	ppment gy, Env	s in In vironm	dian ju ental l	ırispru aw and	dence, l I sustair	nability	ction of y, Corpo cial just	orate	1		8				
									Inst	ruction	al Hour	rs	6				
Suggest	ed Lea	rning 1	Metho	ds: Vi	deo le	ctures											
										Tota	al Hour	s 30	Hrs				
Text Bo	oks		1.	. Para	njape,	N. V.	(2014).	Jurisp	rudence	e. Lexis	Nexis.						
Referen	ce Boo	ks	3.	Boo Para Lega Veri Univ Sing	k Cominjape, al Theoma, S. versal land, A. (	pany. N. V. Ory. Le K. (20 Law Pi (2019).	(2015). exisNex 19). Jur ublishir . Introd mpany.	An In is. risprud	troduct	ion to Ju	gal Theo urisprude Philoso ee and L	ence an	d				
CO L DO	DO1	DO4	DO2	DO 4	DO 5		pping	DOO	DCC1	DGOA	DG 0.2	DCC 4	DCO.				
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3		PSO5				
CO1	M M	-	-	-	H	-	-	-	H H	-	M M	H H	-				
CO <sub>2</sub>	M	-	-		Н	-	-	-	Н	-	M	Н					
CO4	M	_		-	Н	-	-	_	Н	-	M	Н					
CO5	M	_	_		Н	_		_	Н	_	M	Н	_				
H-High;		dium; l	L-Low			<u>l</u>		1	1		1 212		I				
									Vorie	d by C	hairma	<b>n</b>					
Ms. Arc		ourse d unil	iesigne	a by			Mr. Ak	chil Be		eu by C	hairma	Ш					

23U	1TAM404		Pa	art - I	: Muthamizh	າ (முத்தமிழ்)		
Sen	nester: IV		Credits: 3	CIA	: 20 Marks	ESE: 55 M	arks	
Course	Objective	சங்ககா	 ல மக்களின் வாழ்	ப் பியல்	வாயிலாக ப	ப ன்பாட்டுக் கூறுகளை உ	ணர்த்துதல	
Course	Category	Skill D	evelopment (மாண	வர்களி	ன் மொழித்தி	றனை ஊக்குவித்தல்)		
	pment Needs					ழியின் அவசியத்தை ഉ	உணர்த்துதல்)	
Course	Description		ர்களின் மொழித்திற பின் அவசியத்தை		~ , ,	மற்றும் உலக அளவ	பில் தமிழ்	
Course	Outcomes					<b>Teaching Methods</b>	Assessment Methods	
CO 1	தமிழர்களின்	வாழ்விய	ல் பண்புகளைக் கழ	ற்று அ	றிதல்.	விரிவுரை/காணொளிப் பட விளக்கம்	ஒப்படைவு	
CO 2			ககளைக் கூறுவதன் உணரச்செய்தல்.	மூலம்	தமிழின்	ഖിரിவுரை	குழுத்திட்டம்	
CO 3	உருவாக்குத	<b>ાં</b> .	ாலத்திற்கேற்ப மனை		ിയെ	விரிவுரை/காணொளிப் பட விளக்கம்	கருத்தரங்கு	
CO 4	நாட்டின் சிறந் உருவாக்குத		க்களாக மாணவர்கள	തബ		ഖിரിவுரை	ஒப்படைவு	
CO 5	மாணவர்களி	ர் மனநல	த்தை வளர்த்தல்.			விரிவுரை/குழு விவாதம்	கருத்தரங்கு	
Offered	d by   தமிழ்த்த	துறை						
Course	Content: M	uthamiz	h (முத்தமிழ்)			Instructional Hou	ırs / Week: 4	
Unit	Description	l	Text Book			Chapters		
					1.1 குறிஞ்சி: நீ	ின்ற சொல்லார்,		
	எட்டுத்த <u>ொ</u> கை	1.	நற்றிணை		1.2 முல்லை :	இளமை பாரார், குறி	ிஞ்சி :	
			குறுந்தொகை		<sub>-</sub> நிலக்கியை	ு. ம், பாலை :ஆடு அடை	D.	
Ι			பதிற்றுப்பத்து புறநானூறு			ாட்டு ஆயமொடு		
			ادی کے ج			் த்து : ஊன் தூவை அடி	சில்	
					1.4. யாதும் ஊ	ோ. பல் சான்றீரே, அ	ற்றைத்திங்கள்	
	•	•		•		Instructional Hours	12 Hours	
Suggest	ed Learning Mo	ethods: ச	ங்க இலக்கிய வழி	நற்பன்	புகளை அறிய	ச்செய்தல்		
		1.சிறுப	பா <b>ணாற்றுப்</b> படை	1	2.1 கடையெயு	<u>ඉ</u> வள்ளல்கள் சிறப்பு		
II	பத்துப்பாட்டு	2.குறிஞ்	ந்சிப்பாட்ட <u>ு</u>	2	2.2 அறத்தொ(	டு நிற்றல்		
11		3.பொ	ருநர்ஆற்றுப்படை	2	2.3 மன்னனின்	ா விருந்தோம்பல்		
		4.மது	ரைக்காஞ்சி	/	2.4 பாண்டிய 🤇	நெடுஞ்செழியன் குடிச்ச	சிறப்பு	
	•					Instructional Hours	12 Hours	
Sugges	ted Learning N		: புலவர்களின் மா					
	SIM		ான்மணிக்கடிகை 		விளம்பிநாகனா 	,		
III	அற இலக்கியங்கஎ		னியவை நாற்பது ளவழி நாற்பது-		பூதஞ்சேந்தனா பொய்கையார்	ர் - (1-5 பாடல்கள்) - (11-15பாடல்கள்		
	<b>ജ</b> ംഗയയപ്പെച്ചയം		<sub>ந</sub> ாந்பது நூரக்கோவை			முள்ளியார் (1-5 பாடல்க	·	
				1	•	Instructional Hours	12 Hours	
Sugges	ted Learning N	Methods	: அற இலக்கியா	ங்கள <u>ி</u>	ள் மாண்புககை	ள அறிய பெற்றமை		
IV	தமிழ்ச் செய	லிகள்	0. 0.	4.1 செயலிகள் அறிமுகம்				
1 4			தனித்தமிழ்	4.2 வகைகள்				
	II.		1		1			

									4.3 மொழிபெயர்ப்புச் செயலிகள்							
									4.4 த	மிழ்ச்	- செய	லிகள்	iπ			
						Instru	ıctional	Hours						12 Hour	'S	
Sugge	sted Le	arni	ing N	Metho	ls : த	மிழ்ச்	செயலி	கள் பற்	றி அற	இயும்	வாய்ப்	јц (	பெற்றமை			
V	<b>இ</b> லக்	கண	ாம்		,	ன்னூல் தால்க	் நாப்பிய	பம்	5.2 ц 5.3 ц	த்து . த்து (	- அழகு தற்றப்	)	ந்பொருள் து தமிழி		பொருள்	
													றி தமுழ்	100		
						Inctri	ectional	Hours	மொட்	bioir	யர்த்த	<u>ை</u>	1	2 Hours		
Sugge	sted Le	arni	inσ N	Method	lc · @				ചനിവ	் கிர	கன் பெ	സ്നൂത		2 110u15		
Dugge	stea Be	4111	<u>S</u> -	,100110	<u> </u>	0000000		Hours		يارو د	JOH GIL	∞ريارياد		0 Hour	<u> </u>	
Ref B	t Books ference Books  O. URL		<u>httr</u>	க6 1. சங் தி( 2. த6	ல்லூரி, பக இஞ நநெல் வித்தமி	கோய லக்கியா வேலி. Iழ்- இஎ GrNnb	ம்ப <u>ுத்தூ</u> ங்கள் - ாசுந்தரப <u>68Fd6v</u>	<del>і</del> .	தொகை _ன் பிரச	, பத் சுரம். u.be/	துப்பாட சென்6 14-sEz	ட்டு ச னை.	நும் அறி 6ழக வெ 4			
CL	A I		CIA	II	Cl	IA III	S	eminar	Ass	signn	nent		Group Project	T	otal	
	1		4			5		2		2			3	,	20	
		I					N	<b>Iapping</b>	l		ı			l.		
PO / CO	PO1	P	02	PO3	PO4	PO5	PO6	PO7	PO8	P S O 1	PS	02	PSO3	PSO4	PSO5	
CO1	M		L	Н	L	Н	Н	M	Н							
CO2	M H		<u>C</u>	Н	L L	М	L H	M	H H							
CO3	M		<u>L</u> L	H M	L L	H H	<u>н</u> Н	M H	M							
CO5	H h; M-M	]	L	L	L	M	Н	L	M							
				design	ned by	7					Ve	erifie	d by			
	Dr. S. Satheesh kuma										Dr.	A. Si	ridevi			

Course	Code			 Title						
23U1H	IN404	Part I - Prayogik	. Hind	li (प्रायोगिक <b>हिंदी</b> )						
Semest	er: IV	Credits: 3	CIA	A: 20 Marks	ESE: 55	Marks				
		(Common to	all U	G Programmes)						
Course	Objective	साक्षरता प्रशंसा और विश्ले	नेषण के	सौंदर्य, सांस्कृतिक 3	गौर सामाजिक	पहलुओं के				
		प्रति छात्रों को संवेदनशील बनाना								
		उन्हें विभिन्न कालों के प्रर	<u>ड्यात</u> ले	भेखकों के हिंदी कथा स	गहित्य के बेहत	ारीन नमूने				
		उपलब्ध कराना								
Course	Category	Skill Development								
Develop	ment Needs	National								
Course	Description	Improves Creative Writin	g.							
	Co	urse Outcomes		Teaching Methods	Assessm	ent Methods				
CO 1	छात्र हिंदी भा	षा से अच्छी तरह वाकिफ हो सकें	गे।	Role play	Assi	gnment				
CO 2	पाठ्यक्रम संव करता है।	वादी हिंदी में पारंगत होने में म	नदद	Group learning Acting	Se	minar				
CO 3	छात्र आधुनिव सकेंगे।	क हिंदी साहित्य का ज्ञान प्राप्त क	र	Story Narration	Assi	gnment				
CO 4	छात्रों को निबंध	थ लेखन में अच्छा अभ्यास मिलेग	πι	Group learning and Work sheets	( +r(1))	o Project				
CO 5	छात्रों को फिल मिलेगा।	म की समीक्षा करने का अभ्यास		Worksheets and Exercises	Se	minar				
Offered	by Hindi			1						
Course	Content		]	Instructional Hou	rs / Week:	4				
Unit		Description			Text Book	Chapters				
I	विरुद्ध उपन्य	ास: (मृणाल पाण्डे)			1	4				
G 4	17	N. (1 1 X7) 1 X		Instructio	nal Hours	12				
Suggest		Methods: Visual Learnin			T	02 Hrs				
II		(मृदुला गर्ग) लौटना और लौ का बच्चा (यशपाल)	८ना :	ममता जयशकर)	1	3				
				Instructio	nal Hours	12				
Suggest		Methods : Auditory				02 Hrs				
III		नुच्छेद पर समीक्षा लिखना गल: प्रवृतियां और कवि			1	3				
	८.जायुनिक क	ण्यः त्रपृतिया जार काव		Instructio	nal Hours	12				
Suggest	ed Learning	Methods: Comprehensive	e Writ			02 Hrs				

	आधुनिव	म युवा	पीढ़ी	J			ो, मोब श लिख		का	ा दुष्परि	णाम,	1		2
										Instri	uctio	nal Hou	rs	12
Suggeste	ed Lea	rning	Metho	ds:A	uditor	y, Vis	ual, Co	mp	rel					Hrs
	सिनेमा					•	Í					1		4
	·									Instri	uctio	nal Hou	rs	12
Suggeste	ed Lea	rning	Metho	ds : C	ompre	ehensi	ve writ	ing						Hrs
- 88		8						- 0			To	tal Hou	rs 60	Hrs
Text Bo	oks		3.	. कहाव . हर ह	नी कुंज ाल बेगा	, गोविंट ने - मृद्	,	न , म , राज	थुर पार	त ल एंड संर		ल्ली		
4. मेरा परिवार , लोकभारत प्रकाशन , इलाहाबाद  1. संजय चौहान , समकालीन हिंदी साहित्य विचार और विवाद , आशा कित  2. श्री रामदेव, व्याकरण प्रदीप, लोकभारती प्रकाशन, अलाहाबाद  3. डॉ वासुदेव नंदन प्रसाद, आधुनिक हिंदी व्याकरण और रचना, भारती भव प्रकाशक  4. ओंकार नाथ वर्मा , सामान्य हिंदी , अरिहंत प्रकाशन भारत लिमिटेड														
Web. Ul	RLs		1. 2. 3. 4. 5. 6.	hind www www https	w.hindi i-natak w.bhash w.hindi s://eboo	lunia.co kunj.co -vikas. naindia samay. ok.pusta	om html com ak.org/							
				Too	ls for		ment (		Ma	arks)				
CIA	Ι	CI	A II	C	IA III	As	ssignm t	en		Semina	ar	<b>Group Project</b>	To	tal
4			4		5		2			2		3	2	0
				•		Ma	pping	ı			1			
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO	8	PSO1	PSO	2 PSO3	PSO4	PSO
CO1	L	M	Н	M	M	L	Н	L			~ 3			5
CO2	L	M	Н	H	L	H	L	M	-					
CO3	M	L	L	L	L	Н	M	M	_					
CO4	M	M	M	M	Н	L	M	Н	_					
CO5	Н	Н	L	L	Н	L	Н	Н	[ ]					
H-High;	M-Med	dium; l	L-Low											
	(	Course	e desig	ned by	y						Veri	fied by		
		Dr.S.	Swarna	alatha						Dr.S	.Swa	rnalatha		

NASC | 2023

Cour	rse Code		Title			
23U1N	MAL404	Part - I : Drisyakalaa Sa	ahithyam ( ദൃശു	ൃകല	ാസാഹിത	)Jo)
Seme	ster: IV	Credits: 3 CI	A: 20 Marks		ESE: 55 I	Marks
		(Common to all UG Pr	_			
Course	Objective	സിനിമ എന്ന മാധ്യമത്തിന്റെ വ				
		കഴിയുന്നു.ദൃശ്യാവിഷ്ക്കരണരെ	യ ഴുറിച്ചുള്ള അ	30 JO	് ലഭിക്കുന	നു.
Course	Category	Skill Development				
Develop	ment Needs	_				
Course	Description	Guide and encourage them to a	chieve their amb	itions		
	Co	ourse Outcomes	<b>Teaching Meth</b>	ods	Assessme	nt Methods
CO 1	തിരക്കി പ്രസക്ത	ഥയിലെ സംഭാഷണത്തിന്റെ തി	Smart board chalk and Ta		Assi	gnment
CO 2	അംഗങ മംഗളക	ഗുത്തിലൂടെ വീട്ടിലെ എല്ലാ നുളെയും ദുഃഖം അറിയിക്കാതെ ംർമ്മം നടത്തുന്നു.	Group learni	ng	Sei	minar
CO 3	ഉയർത		Peer Teachin	ng	Assi	gnment
CO 4	ഭു ശ്വാ	വിഷ്ക്കരണം മലയാളത്തിൽ	Group learni		Group	Project
CO 5	രംഗവേ	പദിയുടെ അവതരണം	Smart board chalk and Ta		Assi	gnment
Offered	by Malay	valam				
Course	Content		Instructional Ho	ours /	Week: 4	
Unit		Description		Te	xt Book	Chapters
I	തിരക്കഥ -	ഞാൻ പ്രകാശൻ			1	5
			Instruc	tiona	l Hours	12
Suggest		Methods: Visual Learning				02 Hrs
II	തിരക്കഥ -	ഞാൻ പ്രകാശൻ			1	5
			Instruc	tiona	d Hours	12
		Methods: Auditory, Visual				02 Hrs
III	ത രക്കഥ -	ഞാൻ പ്രകാശൻ			1	3
Suggest	od I cornina	Methods: Visual Learning	Instruc	tiona	d Hours	12 02 Hrs
IV	നാടകം - ഭര				1	2
1 4			Instruc	tions	l Hours	12
Suggest	ed Learning	Methods: Auditory, Visual	Ilisti uc	tiona	ii iiouis	02 Hrs
V	നാടകം - ഭര				1	3
		-	Instruc	tiona	l Hours	12
Suggest	ed Learning	Methods: Visual Learning				02 Hrs
					l Hours	60 Hrs
Te	xt Books	1. തിരക്കഥ - ഞാൻ പ്രകാ 2. നാടകം - ഭരതവാക്യം , ജ		ന്ത, ഡ	ו.സ I.ബുക്	ιπυ
Refere	ence Books		ധാ.ആർ.വി.എം.ര സാഹിത്യവും	- 2	ഡു ഇററ	വങ്കര -

			4. 5.	mos	ക സാപ കം കല	റിത്യ	ചരിത്രം ചെഴ്ചയ	ം - ജി. )ുo - പ	ശങ്കരപ്പിള ചി.ജി.സദാ	3 <u>ള</u> - ന	യി.c	സി.ബുക ധി.സി.	ട്സ് വുക്സ്	
Web	. URL	S	_				re.org		<u>ature</u>					
				Too	ols for	Asses	sment (	(20 N	Iarks)					
CIA	CIA I CIA III Assignment Seminar Group Project Total													
4														
						Ma	pping							
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	POS	B PSO1	PSC	)2	PSO3	PSO4	PSO 5
CO1	Н	L	Н	Н	Н	Н	Н	Н						
CO2	M	L	Н	M	Н	M	M	M						
CO3	Н	L	M	M	M	Н	M	Н						
CO4	Н	L	L	Н	L	Н	M	M						
CO5	M	L	L	Н	L	Н	M	M						
H-High;	M-Med	lium; L	L-Low											
	Course designed by Verified by Chairman													
	Ms.RAJANI N. Dr.SMITHA C. R.													

Course	e Code			Title			
23U1F	RN404		Part-I: Le F	rancais General – I	V		
Semest	er : IV		Credits: 3	IA: 20 Marks	ESE:	55 Marks	
			(Common to all UG P	rogrammes)			
Course	Objectivo	e	Acquisition of standard Frenc communication	th through French	grammar	and oral	
Course	Category	7	Skill Development				
Develop	ment Ne	eds	Global				
Course	Descripti	on	Improved understanding and con	nmunication			
Course	Outcome	s		<b>Teaching Methods</b>	Assessme	ent Methods	
CO 1			uns, gérondif along with ation in foreign countries	Lectures /Tutorial	Assi	gnment	
CO 2	& futur	proc		Group Learning	Assi	gnment	
CO 3	Business la conse		l economic culture, la cause et nce.	Peer Teaching	Se	minar	
CO 4			g official and to a patron, le ubles pronoms	Group Learning	Group Project		
CO 5		tion e	and country, urbanisation, et la concession, le subjonctif et	Group Learning	Assignment		
Offered	by Dep	partn	nent of French				
Course	Content			Instructio	nal Hour	s / Week: 4	
Unit			Description		Text Book	Chapters	
I	Explorer l	'inco	nnu		1	1	
				Instructiona	l Hours	12	
Suggest	ed Learn	ing N	Methods : Visuals				
II	Goûter 1	'inso	lite		1	2	
				Instructiona	l Hours	12	
Suggest	ed Learn	ing N	Methods: Comprehensive writin	g			
III	Consomm	ner au	trement		1	3	
C	. 1 T	•	M-41-1- C- 1'	Instructiona	d Hours	12	
Suggest	ed Learn	ıng N	Methods : Group discussions				
IV	S'engage	r pou	ir une cause		1	4	
~				Instructiona	l Hours	12	
Suggest	ed Learn	ing N	Methods: Visuals				

V	Repens	er le qu	otidien				1		5					
I.										Instr	uction	nal Hour	s	12
Suggest	ed Lea	rning l	Metho	ds : G	roup D	Discus	sion							
			_								To	tal Hour	s	60
Text Bo	oks		1.				e de Fra e Duple	-			oëlle C	octon, And	ouchka I	)e
Reference Books  1. Connexions 2 Methode de Français Régine Mérieux, Yves Loiseau														
Web. URLs 1. www.academia.edu														
Tools for Assessment (20 Marks)														
CIA	Ι	CI	A II	C	IA III	A	ssignn	nent		Semina	ır	Quiz	To	tal
	4		4 5		2		2		3	20				
				1		M	apping	5			<b>,</b>			
CO \ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO	8	PSO1	PSO	PSO3	PSO4	PSO5
CO1	-	-	Н	M	Н	Н	-	-		-	-	-	-	-
CO2	-	-	Н	L	Н	M	-	-		-	-	-	-	-
CO3	-	-	-	M	M	Н	-	-		-	-	-	-	-
CO4	-	-	L	M	L	Н	-	-		-	-	-	-	-
CO5	-	-	L	-	Н	-	-	-		-	-	-	-	-
H-High;	M-Me	dium; l	L-Low				•			•		1		•
		Cours	e desig	ned by	y					Veri	fied b	y Chairm	an	
Dr. R. Malathi  Dr. R. Malathi														

Course	Code			ŗ	<b>Fitle</b>		
23U2E	NG404		Part – II :	Comm	unicative English -	· II	
Semest	er : IV		Credits: 3	CIA	: 20 Marks	ESE:5	5 Marks
		l	(Common to Al	l UG P	rogrammes)		
Course	Objectiv	ve	To equip the students with appreciation of literature.	Langu	age Skills and deve	lop intere	st in and
Course	Categor	<b>'y</b>	Skill Development				
Develop	ment N	eeds	Global				
Course	Descrip	tion	SD: Helps to develop LSR	RW skil	1		
Course	Outcom	ies			<b>Teaching Methods</b>	Assessn	nent Methods
CO 1	Unders prescri		the values of life reflected cose	in the	Lecture/Tutorial	As	ssignment
CO 2	Learn evidence	ce.	erpret poem based on cont		Lecture/Tutorial	As	ssignment
CO 3	Enhanc skills tl		naginative and communi h short stories.	cation	Lecture/Tutorial	S	Speaking
CO 4	Unders	tand t	he performing art through d	rama.	Lecture/Tutorial	]	Reading
CO 5	Acquir compet	-	ficiency in English for	global	Lecture/Tutorial		Writing
Offered	by De	eparti	nent of English				
Course	Content	t			Instructi	onal Hou	ırs / Week : 4
Unit			Description			Text Book	Chapters
I	Dr. Rad	hakris	n – Of Adversity Shnan - Character is Destiny - How I taught my grandmo	,	read	1	1
				•	Instructional	Hours	12
Suggest	ed Lear Poetry	ning l	Methods: Intensive Read	ing			
II	Sarojini	Dickin	u - The Soul's Prayer son - Death in the Opposite	House	e William Blake –	1	2
					Instructional	Hours	12
Suggest			<b>Methods : Scaffolding Met</b>	hod			
III	Edgar A	ierset Allan F	Maugham - Mr. Know-All Poe-The Purloined Letter The Thief Story			1	3
			·		Instructional	Hours	12
Suggest	ed Lear	ning I	Methods : Flipped Learnin	ng			

IV	<b>Drama</b> Willian		espear	re – As			1		4				
1									Instru	ctional	Hours	1	2
9	Suggest	ed Lea	rning	Metho	ods : F	lipped	Learn	ing					
GRAMMAR AND COMPOSITION Oral & Written Communication (Unit I–IV) Listening – Comprehension practice from Poetry, Prose, Online Voice Practice, observing/viewing E-content (with subtitles), Guest/Invited Lectures, Conference/Seminar Presentations & Tests, and DD National News Live, BBC, CNN, VOA etc Speaking – In Group Discussion Forum, participate in the Turn Taking, and Conversation Management, Debating, Defending/Mock Viva- Voce, Seminar Presentations on Classroom-Assignments, and Peer-Team-interactions. Reading-Different Reading Strategies in Poetry, Prose, Novel, Newspaper etc Writing – Clauses – Conditional, Relative, Restrictive, Non- Restrictive, Denotation and Connotations Précis Writing, One word substitution. Instructional Hours													
	Substitt	<i>.</i>							Instru	ctional	Hours	1	2
Suggest	ed Lear	rning I	Metho	ds : Ac	ctivity	Based	Learn	ing			110011		
					<u> </u>			U		Total	Hours	6	60
Text Bo	oks		Unit	I - V:	Comp	iled by	the De	partme	ent of E	nglish			
Referen	ce Boo	ks	NOT	•	xt: Pre	_	_	_		<u> </u>	Module by ven to the	•	
Web. U	RLs												
				T	ools fo	r Asse	ssmen	t (20 N	Iarks)				
CIA	I	CIA	II	CIA	III	Assig	nment	Sei	minar	Pre	sentatio	n Z	Γotal
4		4		5			2		2		3		20
			L			Ma	pping					l	
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M	-	Н	-	M	M	Н	M	Н	Н	M	Н	M
CO2	M	-	Н	-	Н	M	Н	M	Н	Н	M	Н	M
CO3	M	-	Н	-	Н	Н	Н	Н	Н	Н	M	Н	M
CO4	M	L	Н	-	Н	-	Н	Н	Н	Н	M	Н	Н
CO5	Н	M	Н	-	Н	Н	Н	Н	Н	Н	Н	Н	M
H-High;	M-Med	dium; I	L-Low					•	•			•	
		Course	e desig	ned by	<b>y</b>				Ver	ified by	Chairn	nan	
Dr. Adap							D	r. R. M	lalathi				

Cours	e Code			Title					
23U3F	RC410		Core Paper X - Qu	estioned Document Exa	mination				
Semest	ter : IV		Credits: 4	CIA: 25 Marks	ESE: 75	Marks			
Course	Ohioati	T.O.	To impart knowledge and s	kill of handling question	ed docume	nts and			
Course	Objecti	ve	investigating crimes associ	ated with documents.					
Course	Catego	ry	Employability						
Develo	pment N	leeds	Global						
			Documents are simply reco	rded information. This co	ourse is des	signed to			
Course	Descrip	tion	provide in depth knowledge	e in analysis of document	ts for all so	rts of			
			possible fraud practices.						
Course	Outcom	ies	<b>Teaching Methods</b>	Assessme	ent Methods				
CO 1	Have examin		ear idea about document.	Lecture/Demonstration	Ass	ignment			
CO 2			two handwriting.	Lecture/ Case studies	Case	e studies			
CO 3		-	author of a handwriting.	Lecture/Demonstration	Se	eminar			
CO 4	Differe forgery		e natural variation from	Lecture/Video lecture	(	Quiz			
CO 5			ecurity documents such as e, passport etc.	Lecture/Demonstration	Ass	ignment			
Offered		•	* *		-U				
	Offered by Forensic Science								
Course	Conten	t		Instruction	onal Hours	s / Week: 4			
Course	Conten	t	Description	Instruction	Text	s / Week : 4 Chapters			
				Instruction					
	Introdu	ıction	Description		Text				
	Introdu Introduc	<b>iction</b>	Description to questioned documents	History of questioned	Text				
Unit	Introduce docume	ents, C	Description  to questioned documents to questioned documents,	History of questioned documents and various	Text Book	Chapters			
	Introduction docume classes	ents, C	Description  to questioned documents to questioned documents, Classification of questioned	History of questioned documents and various be and application of	Text				
Unit	Introdu Introduce docume classes question	oction ents, Confidence de	Description  to questioned documents to questioned documents, Classification of questioned questioned documents, Sco	History of questioned documents and various be and application of handling of questioned	Text Book	Chapters			
Unit	Introduction docume classes question docume examina	of question ents; Connect does the contents of a question	Description  to questioned documents to questioned documents, Classification of questioned questioned documents, Scop ocuments, Preservation and Do's and Don'ts, Tools and of questioned documents,	History of questioned documents and various be and application of handling of questioned techniques used for the Ethics for Questioned	Text Book	Chapters			
Unit	Introduction docume classes question docume examina	of question ents; Connect does the contents of a question	Description  to questioned documents to questioned documents, Classification of questioned questioned documents, Scop ocuments, Preservation and Do's and Don'ts, Tools and	History of questioned documents and various be and application of handling of questioned techniques used for the Ethics for Questioned mination associations.	Text Book	Chapters			
Unit	Introduction docume classes question docume examina Docume	of question ents; Connected does the contents of a trion ent ex	Description  to questioned documents to questioned documents, Classification of questioned questioned documents, Scop ocuments, Preservation and Do's and Don'ts, Tools and of questioned documents, perts. Various document exa	History of questioned documents and various be and application of handling of questioned techniques used for the Ethics for Questioned	Text Book	Chapters			
Unit	Introduction docume examina Docume	oction conts, Conts, Conts of quants : I ation cent ex	Description  to questioned documents to questioned documents, Classification of questioned questioned documents, Scop ocuments, Preservation and Do's and Don'ts, Tools and of questioned documents, perts. Various document exa  Methods: Video lectures	History of questioned documents and various be and application of handling of questioned techniques used for the Ethics for Questioned mination associations.  Instruction	Text Book	Chapters			
Unit	Introduction docume classes question docume examina Docume	of question ents; Contents : I ation ent ex	Description  to questioned documents to questioned documents, Classification of questioned questioned documents, Scop ocuments, Preservation and Do's and Don'ts, Tools and of questioned documents, perts. Various document exa  Methods: Video lectures and Signature examinatio	History of questioned documents and various be and application of handling of questioned techniques used for the Ethics for Questioned mination associations.  Instruction	Text Book	Chapters			
Unit	Introduce docume classes question docume examina Docume ted Lear Handw	of question ents; Contents: I ation ent exerciting	Description  to questioned documents to questioned documents, Classification of questioned questioned documents, Scop ocuments, Preservation and Do's and Don'ts, Tools and of questioned documents, perts. Various document exa  Methods: Video lectures and Signature examinatio to handwriting and signature	History of questioned documents and various be and application of handling of questioned techniques used for the Ethics for Questioned mination associations.  Instruction  Instruction	Text Book	Chapters			
Unit I Sugges	Introduction docume classes question docume examina Docume ted Lear Handw Introduction characters.	of question ents: I ation ent exercise	Description  I to questioned documents to questioned documents, Classification of questioned questioned documents, Scop ocuments, Preservation and Do's and Don'ts, Tools and of questioned documents, perts. Various document exa  Methods: Video lectures and Signature examinatio to handwriting and signatus s and individual character	History of questioned documents and various be and application of handling of questioned techniques used for the Ethics for Questioned mination associations.  Instruction  Instruction  Instruction  Instruction	Text Book	all 12			
Unit	Introduction documents of the Lear Handw Introduction Character Forgery	of quents; I ation ent exercise criting criting criting criting and	Description  to questioned documents to questioned documents, Classification of questioned questioned documents, Scop ocuments, Preservation and Do's and Don'ts, Tools and of questioned documents, perts. Various document exa  Methods: Video lectures and Signature examinatio to handwriting and signatus s and individual character types of forgeries, Fore	History of questioned documents and various be and application of handling of questioned techniques used for the Ethics for Questioned mination associations.  Instruction  Instruction	Text Book	Chapters			
Unit I Sugges	Introduction docume classes question docume examina Docume ted Lear Handw Introduction character Forgery identification documents.	of question ents; I ation ent exercistic rand eation	Description  I to questioned documents to questioned documents, Classification of questioned questioned documents, Scop ocuments, Preservation and Do's and Don'ts, Tools and of questioned documents, perts. Various document exa  Methods: Video lectures and Signature examinatio to handwriting and signatus s and individual character types of forgeries, Fore of forgeries, Examination of	History of questioned documents and various be and application of handling of questioned techniques used for the Ethics for Questioned mination associations.  Instruction  In the examination, Class istics of handwriting, not examination and of additions, alterations	Text Book	all 12			
Unit I Sugges	Introduction documents of the Lear Handw Introduction Character Forgery identificant oblimation of the Lear Handw Introduction of the Lear Handw Introducti	of question ents, Contents: I ation ent exerciting existion eristic and extion existic and extion existic existing exist	Description  to questioned documents to questioned documents, Classification of questioned questioned documents, Scop ocuments, Preservation and Do's and Don'ts, Tools and of questioned documents, perts. Various document exa  Methods: Video lectures and Signature examinatio to handwriting and signatus s and individual character types of forgeries, Fore	History of questioned documents and various be and application of handling of questioned techniques used for the Ethics for Questioned mination associations.  Instruction  In the examination, Class istics of handwriting, not examination and of additions, alterations	Text Book	all 12			
Unit I Sugges	Introduction documents of the Lear Handw Introduction Character Forgery identificant oblimation of the Lear Handw Introduction of the Lear Handw Introducti	of question ents; Contents : I ation ent exerciting existion eristic and extion existic and extion existic existing exis	Description  I to questioned documents to questioned documents, Classification of questioned questioned documents, Scop ocuments, Preservation and Do's and Don'ts, Tools and of questioned documents, perts. Various document exa  Methods: Video lectures and Signature examinatio to handwriting and signatus s and individual character types of forgeries, Fore of forgeries, Examination on in the documents, Examin	History of questioned documents and various be and application of handling of questioned techniques used for the Ethics for Questioned mination associations.  Instruction  In the examination, Class istics of handwriting, not examination and of additions, alterations	Text Book	all 12			

	I —			1			
Ш	Examination stamps, stam	of documents of security documents (Currencies, passports, postal p papers, etc.). Examination of credit cards, e- ligital signatures. Examination of manipulated and ats.	1	12			
		Instruction	al Hours	12			
Sugges	sted Learning	Methods: Laboratory practice	arriours	12			
~ ~ 88	Age of docum						
IV	Examination of Destructive examination printers in for documents an mechanical i	of Ink and Paper, Determination of age of documents, method and non-destructive methods used in of ink and paper, Importance of typewriters and ensic document examination, Examination of charred d secret writings, Examination of rubber stamps and mpressions, Examination of alterations, erasures, additions, and obliteration.	1	11			
		Instruction	al Hours	12			
Sugges	sted Learning	Methods: Hands on training					
V	staple / punc History of T machine, typ printers: dot printed conte Facsimile ma	ching of documents: analysis of sequence of folds, h marks, etc. Determination of age of documents. Typewriters, types of typewriters, identification of escripts and typist. History of printers, types of matrix, inkjet, laser, Thermal etc. Examination of ents and identification of the printing machine. archines - working, examination. Importance of printers and facsimile machines in Forensic document	1	15			
		Instruction	al Hours	12			
Sugges	sted Learning 1	Methods: Library extra reading	177	<b>70</b>			
			al Hours	60			
	Books  1. Ramachandran, Questioned Documents, Lawmann's 2020 1. Ordway Hilton, Elsevier; Scientific Examination of Questioned Documents, Rev. ED: New York, (1928). 2. Albert S. Osborn, Second; Questioned Documents, Ed. Law, Publishing, Delhi, (1928). 3. Albert S. Osborn; The problem of Proof, Second Ed. Law, Publishing, Delhi (1998). 4. Charles C. Thomas, Billy Prior Bates; Typewriting Identics, Q.D., Springfield, Illinois (1971).						
Web. 1	1. https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/S0000 16FS/P000695/M006281/ET/1516191959FSC_P8_M1_e-text.pdf  2. https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/S0000 16FS/P000695/M011511/ET/1516250867FSC_P8_M32_e-text.pdf						

				Too	ols for	Asses	sment	(25 N	larks)				
CIA	I	CL	A II	C	IA III	As	ssignn	nent	Seminar		Quiz	Total	
5		,	5	6			3		3		3	2	5
	Mapping												
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M	Н	M	M	Н	L	M	-	-	Н	Н	-	Н
CO2	M	Н	M	Н	M	L	Н	-	-	Н	Н	-	Н
CO3	Н	Н	M	Н	M	L	Н	-	-	Н	Н	-	M
CO4	M	Н	M	Н	M	L	Н	-	-	Н	Н	-	M
CO5	Н	Н	M	Н	M	L	Н	L	-	Н	Н	-	Н
H-High;	M-Me	dium;	L-Low	7									
	Course designed by								Veri	fied by	Chairn	nan	
Ms. Arc	hana S	unil					ı	Mr. Ak	hil Benr	ny			

Course	Code					Title					
23U3F	RP411		Core	Paper XIV-	Questioned	l Document E	xamin	ation Pra	ectical		
Semest	er : IV	7	Cr	edits: 3	CL	A: 30 Marks		ESE : 45	Marks		
Course	Objec	tive				about suspicio principles and			d documents		
Course	Categ	ory	Em	ployability							
Develop	ment	Needs	Glo	Global							
Course	Descr	iption	its	In forensic science, questioned document may be examined to determine its origin, authenticity, and many other facets in order to solve a potential crime.							
Course	Outco	mes				Teaching Me	thods	Assessm	ent Methods		
CO 1		rstand tl		tion in handy	vriting and	Demonstrati Video Lesso		P	ractical		
CO 2				documents		Demonstrati		P	ractical		
CO 3			<u>*</u>			Demonstrati	ion /		ractical		
	1	eciphering Secret writings				Video Lesso					
CO 4	Anal	ysis of i	nk			Demonstration / Video Lessons			ractical		
CO 5	Learr	ı to writ	e report	port in forgery case Demonstra Video Les				P	ractical		
Offered	by	Foren	sic Scie	ence							
Course	Conte	ent				Inst	tructio	nal Hour	rs / Week: 4		
S. No	<b>D.</b>				Expe	eriment					
1		Examin	ation of	f handwriting	and compar	rison.					
2		Examin	ation ar	nd comparison	n of signatu	re.					
3		Security	docum	nents examina	ntion: currer	ncy note and pa	assport	examinat	ion.		
4		Deciphe	ering th	e secret writii	ng and mini	ature writing.					
5		Paper cl	nromato	ography for ir	nk analysis.						
6		Analysi	s of seq	uence of stro	ke in altered	d documents (a	dditior	n ).			
7		Identific	cation o	of author from	disguised v	writing.					
8		Moot co	ourt and	l case laws							
9		Report	writing-	- in a simulate	ed case of ha	andwriting or s	signatu	re forgery	7		
10		Preserva	ation of	charred docu	iments						
								TOTA	AL 60 Hours		
				Tools for A	ssessment	(30 Marks)					
Analyt Skil		La Perforr		Inference	Test I	Test II	Obse	rvation	Total		
4		4		4	7	7		4	30		

	Mapping												
CO\ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	Н	Н	Н	Н	-	-	L	-	-	Н	Н	-	M
CO2	Н	Н	M	Н	-	-	M	-	-	Н	Н	-	M
CO3	Н	Н	M	Н	-	-	M	-	-	Н	Н	-	M
CO4	Н	Н	M	Н	1	-	M	-	ı	Н	Н	-	M
CO5	Н	Н	M	Н	-	-	M	-	-	Н	Н	-	M

H-High; M-Medium; L-Low

Course designed by	Verified by Chairman						
Mr. Akhil Benny	Mr. Akhil Benny						

Course	Code			Title			
23U3F			Allied Pape	r V – DNA Fingerprii	nting		
Semest	er : IV		Credits: 3	CIA: 20 Marks	ESE: 55	Marks	
Course	Objective	<b>;</b>	Master the principles and analysis, genetic research,	-		for forensic	
	Category		Employability				
Develop	ment Nee	eds	Global				
	Description		Explore the fundamentals forensics and genetics, and DNA structure, analysis technitensive course.	d gain hands-on labor chniques, and their real-	ntory skills. I	Learn about ations in this	
	Outcomes			Teaching Methods		ent Methods	
CO 1			Human Genetics	Lecture/Demonstration	n Ass	ignment	
CO 2			ONA profiling	Lecture/ Case studies	Cas	e studies	
CO 3			DNA typing Systems	Lecture/Demonstration	n Se	eminar	
CO 4	Profiling		the application of DNA nowledge about Legal	Lecture/Video lecture		Quiz	
CO 5	Acquire Perspecti		n Ass	ignment			
	by Fore	<u>ensi</u>	c Science			/ ***	
Course	Content		Instru	ctional Hour	s / Week: 3		
Unit			Description	Text Book	Chapters		
I	History: structure, definition population	disc pro and n go	to Human Genetics covery, development in the operties and forensic imported d explanations for Heredity enetics- Molecular biology emical aspects. Genomics an	ance- Human genetics, alleles, mutations an of DNA, variations i	- 1 1	1	
•			•	Instruct	onal Hours	9	
Suggest	ed Learni	ing ]	Methods: Library extra rea	ading			
II	DNA Pro in the fiel analysis- semen, sy	dria filir ld o Coll weat	ng I DNA- definition, structurage: Introduction, definition, forensic science- Types of lection, packaging and presest and hair. Paternity and mad calculation.	history and importance samples used for DNA rvation of blood, saliva	1 ,	2	
				Instruct	onal Hours	9	
Suggest		_	Methods: Hands on training	ıg		T	
ш	DNA typamplification of SNP acalculation results. Many	DNA typing Systems  DNA typing systems- Polymorphism, RFLP analysis, PCR amplifications, sequence polymorphism- Analysis and functioning of SNP and Y- STR- Evaluation of results, frequency estimate calculations, allele frequency determination- Interpretations of results. Match probability- database, quality control, certification and accreditation.					
				Instruct	onal Hours	9	

Suggest	ed Lea	rning	Metho	ds: Vi	deo le	ctures								
IV	Applic Forens paterni immig	cation ic Signity case ration, ture ca	of DNA nificances, chi job dia nses- C	A Prof ce of I ld swa sputes- case str	iling ONA p oping Appl udies 1	rofilin Missi	ing p	erson' eterina	's iry	ns in disidentity, wildli	- civil fe and	1		4
										Instr	uction	al Hour	s	9
Suggest	ed Lea	rning	Metho	ds: La	borat	ory pr	actic	e						
V	Legal Perspective of DNA Profiling  Legal perspectives- legal standards for admissibility of DNA profiling, procedural and ethical concerns- Medical perspective: duties of a medical practitioner on conducting DNA profiling  Status of development of DNA profiling in India and abroad- New and future technologies: DNA chips, SNPs and limitations of DNA profiling.										5			
	Instruc											al Hour	s	9
Suggested Learning Methods: Online training														
	T									Tot	al Hours 45			
Text Bo	oks		1.	Jeffr	ey R. J	enkins;	DNA	Finge	rpı	rinting: 1	An Intro	duction 2	2009	
Reference Books  1. John M. Butler; Advanced Topics in Forensic Interpretation 2. Tehmina Anjum and Anis Ahmad Chaudhary; Fingerprinting: Approaches and Applications, 2.  1. https://www.vedantu.com/biology/dna-fingerprinting-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-princing-pri									;NA , 2013 ting					
				Too	ols for	Assess	smen	t (20 I	Ma	arks)				
CIA	I	CL	A II	CI	A III	As	signr	nent		Semina	ar	Quiz	To	tal
4			4		5		2			2		3	2	0
						Ma	pping	5						
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO	8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	Н	Н	M	L	M	Н	L	M		Н	M	M	Н	L
CO2	Н	Н	M	L	L	L	L	M		Н	M	Н	M	L
CO3	Н	Н	M	L	Н	M	L	M		Н	M	Н	Н	M
CO4 CO5	H H	H H	M M	L L	L H	H H	L L	M		H H	M M	H M	L L	H L
H-High:					11	11	L	IVI	L	11	1V1	1V1	L	L
11 111511										¥7	00 11			
		Course	e desig	ned by	7		Verified by Chairman							
Ms. Arc	Ms. Archana Sunil								Mr. Akhil Benny					

Course	e Code	<u> </u>		Title						
23U3FI	RP412	2	Core Paper XII	- Forensic Biology Pra	nctical					
Semest	er : IX	7	Credits: 4	CIA: 40 Marks	ESE: 60 Marks					
Course	Objec	ctive	techniques, allowing stud analyzing, and interpretin	To provide hands-on experience in the application of forensic biology techniques, allowing students to develop practical skills for collecting, analyzing, and interpreting biological evidence crucial to criminal investigations, thereby preparing them for careers in forensic science.						
Course	Categ	gory	Employability							
Develop	ment	Needs	Global / National							
Course	Descr	iption	Focuses on the hands-on skills needed for forensic science. You'll practice gathering, handling, and studying biological evidence, like DNA and blood.							
Course	Outco	omes		<b>Teaching Methods</b>	Assessment Methods					
CO 1		erstand tl	ne parts and working of	Demonstration / Video Lessons	Practical					
CO 2	Exar	nination	of hair, pollen grains.	Demonstration	Practical					
CO 3	Anal	ysis of fi	bre, diatoms	Demonstration / Video Lessons	Practical					
CO 4	Extra	act DNA		Demonstration / Video Lessons	Practical					
CO 5	DNA	separat	ion and working of PCR	Demonstration / Video Lessons	Practical					
Offered	l by	Forensio	Science							
Course	Conte	ent		Instruction	onal Hours / Week : 4					
S. No	<b>).</b>		I	Experiment						
1		Introduc	tion to microscope.							
2		Microsco	opic examination of human l	nair						
3		Analysis	of pollen grains							
4		Compari	son of human and non-huma	an hair						
5		Analysis	of fibre.							
6		Analysis	of diatoms.							
7		Analysis	of animal hair.							
8		Extraction	on to DNA from cheek cells							
9		Working	with PCR							
10		DNA sep	paration using gel electropho	presis						
	ı				TOTAL 60 Hours					

Tools for Assessment (40 Marks)										
Analytical Skill	Interence   Test   Test   Theoryption   Total									
5	5	5	10	10	5	40				

	Mapping												
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	Н	Н	L	Н	M	-	Н	-	-	Н	Н	M	M
CO2	Н	Н	L	Н	M	-	Н	-	-	Н	Н	M	M
CO3	Н	Н	L	Н	M	-	Н	-	-	Н	Н	M	M
CO4	Н	Н	-	Н	M	-	M	-	-	Н	Н	M	Н
CO5	Н	Н	-	Н	M	-	M	-	-	Н	Н	M	Н

H-High; M-Medium; L-Low

Course designed by	Verified by Chairman						
Mr. Akhil Benny	Mr. Akhil Benny						

Course	e Code			Title			
23U4F	RS402		Skill Based Paper II - I	Research methodology a	and Statist	ics	
Semest	er : IV		Credits: 3	CIA : 20 Marks	ESE : 55	Marks	
Course	Objecti	ve	Develop foundational know methods, evaluation of res relevant research data.		-		
Course	Categor	<b>.y</b>	Skill Development				
Develop	oment N	eeds	Global/ International				
Course	Descrip	tion	Research methodology is the problem and Statistics is a organization and analysis of	branch of science that	t deals with collection,		
Course	Outcom	<b>Teaching Methods</b>	Assessme	ent Methods			
research pro			with basic of research and the cess.	Lecture	Ass	ignment	
CO 2	and	devel	appropriate research design op appropriate research or a research project		Se	minar	
CO 3			s data collection methods	Lecture/Demonstration	Quiz		
CO 4	Describ method design		Lecture/Demonstration	Assignment			
CO 5			ight statistical technique to the research method	Lecture	Case studies		
Offered	by Fo	rensi	c Science				
Course	Content	t		Instruction	nal Hours	s / Week: 3	
Unit			Description		Text Book	Chapters	
I	Epistem Descript vs. Qua research	h: De nology tive v ntitat n. Res	Objective of research- n, Types of research: ndamental, Qualitative al, and other kinds of Methodology, Inductive Justice Research.	1	all		
				Instruction	al Hours	9	
Suggest			Methods: Library extra rea	ding			
II	Researce Formula of the s report v Need for hypothe	ation of stages writing or re	1	4,5			
'				Instruction	al Hours	9	
Suggest	ed Lear	ning	Methods: Library extra rea	ding			

	Т					T				
Ш	Interview collection Sampling design, probabilit random sa sampling, nonprobal sampling,	Data's, Moos, interview of second Technique of y sampling ampling, sy area sambility sambiguments	w schedules, lary data. Pops: Definition, Csampling: Prog, Types of stematic sampling and mupling and mupling: purpos	n of primary da Questionnaire culation and un Criteria for select obability samp probability san ing, stratified san ilti-stage samp sive sampling nowball sampli	es, Modes on the control of analysis eting a sampling ling and nor mpling: simple ampling, clusted ling, Types of convenience.	of s, sg l-e 1	6,7,8			
	or sampin	ng, require	ments of a goo	a sample.	T44:	nal Hour	s 9			
a	4 1T 9	. N. (1	1 0 4	• • 4	Instruction	onal Hour	s   9			
Sugges			ls: Group acti	vity						
IV	Variables Scales of Frequency Class wi representa	f measuren y for group dth, Conti ation of c	and Continuous nent -Nominal ned and ungro nuous and d	s, Independent and a line of the line of t	rval and rations ss Interval an lata, Graphica	o. d 1 nl	13,14			
					Instruction	onal Hour	s 9			
Suggested Learning Methods: Problem solving										
24550			l Tendency	/1 · 1118						
V	Measures Measures and stand symmetry	of Centr of Dispersi ard deviati v: Kurtosis	al Tendency: on: Range, qua on and coeffic	Mean, Media artile deviation, ient of variationss- Introduction th (SPSS).	mean deviations. Measure o		15			
					Instruction	onal Hour	s 9			
Sugges	ted Learni	ing Method	ds: Problem so	olving						
					T	otal Hour	s 45			
Text B	ooks	1.		R. (1996). I	Research met	nodology:	<u> </u>			
Refere	techniques (2nd ed.). New Delhi: Wiley Eastern.  1. Agarwal, B. (2012). Basic statistics. Tunbridge Wells: Anshan.  2. Argyrous, G. (2000). Statistics for social science research: With a guide to SPSS. London: SAGE.  3. Gupta, S. P. (2008). Statistical methods. New Delhi: Sultan Chand & Sons.  4. Leabo, D., & Smith, C. (1968). Basic statistics (3rd ed.). Homewood, Illinois: R. D. Irwin									
Web. U	Web. URLs  1. https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/law/09.  _research_methodology/01basics_of_research/et/8148_et_et.pdf 2. https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/law/09.  _research_methodology/17research_ethics/et/5800_et_17_et.pdf  Tools for Assessment (20 Marks)									
OT.	A T	CTA II			-	0 :	T . 4 . 1			
	A I	CIA II	CIA III	Assignment	Seminar	Quiz	Total			
4	4	4	5	2	2	3	20			

Mapping													
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M	-	-	-	-	Н	-	Н	-	-	-	Н	-
CO2	L	Н	-	-	-	Н	-	Н	-	-	-	M	-
CO3	L	Н	-	-	-	Н	-	Н	-	-	-	Н	-
CO4	M	Н	-	-	-	Н	-	Н	-	1	=	M	-
CO5	M	Н	-	-	-	Н	-	Н	-	-	-	Н	-

H-High; M-Medium; L-Low

Course designed by	Verified by Chairman					
Mr. Akhil Benny	Mr. Akhil Benny					

Course Code			Title								
22U4NM4BT2			Part IV : Basic Tamil – II (அடிப்படைத்தமிழ் - II)								
Semester: IV			Credits: 2 CIA: 50 Marks								
			(Common to all UG Programmes)								
Course (	Objective	∌ņ	அற இலக்கியங்களை அறிமுகப்படுத்தல்.								
Course (	Category	Ski	Skill Development (மாணவர்களின் மொழித்திறனை ஊக்குவித்தல்)								
<b>Development Needs</b>			Regional ( தமிழ் மொழியின் அவசியத்தை உணர்த்துதல்)								
Course I	Descriptio	on Lotte	மாணவர்களின் மொழித்திறனை ஊக்குவித்தல்								
Course (	Outcomes				<b>Teaching Methods</b>	<b>Assessment Methods</b>					
CO 1		லக்கிய அற லக அறிவு	நிவு பெறுதல் - சிறுக பெறுதல்.	தைகள்	விரிவுரை / காணொளி வகுப்பு	ஒப்படைவு					
CO 2			ர அறிமுகம் செய்தல் பற்றின் பயன்பாடு.	மற்றும்	குழு விவாதம்/ விரிவுரை	கருத்தரங்கு					
CO 3	பிறமொழ	றி அறிவுத்	திறன் மேம்படச்செய்த	தல்.	விரிவுரை/காணொளி ப்பட விளக்கம்	ஒப்படைவு					
<b>CO 4</b>	மொழிப்	பெயர்ப்புத்	திறன் மேம்படச்செய்த	ல்.	விரிவுரை/ குழு விவாதம்	குழுத்திட்டம்					
CO 5 வார்த்தை அன			தம் திறன் பெறச்செய்	தல்.	விரிவுரை / குழுத்திட்டம்	குழுத்திட்டம்					
Offered	by தமி	ழ்த்துறை									
Course (	Content :	Basic Tan	nil – II(அடிப்படைத்த	நமிழ் II) I	nstructional Hours / V	Week: 2 Hours					
Unit	Descr	iption	Text Book	s							
I	I நீதி நூல்கள்		1.பாரதியார் ஆத்திச்சூடி 2.கொன்றைவேந்தன்	1.1 1 முதல் 12 வரிகள் 2.1 1 முதல் 7 வரிகள்							
			nstructional Hours			6 Hours					
Suggested Learning Methods : நீதிநூல்களின் சிறப்பினை அறியும் பயன் பெற்றமை											
II	கீழ்க்கண	ினண் க்கு நூல் குறள்)	திருக்குறள்	2.1.கடவுள் வாழ்த்து -அகர முதல எனத் தொடங்கும் அதி 1 குறள் -1 2.2. வான் சிறப்பு- நீரின்றி அமையாது உலகு. அதி-2.குறள் - 10 2.3. அன்புடைமை - அன்பின் வழியது உயிர்நிலை. அதி - 8.குறள் - 10 2.4. கல்வி - கண்ணுடையார் என்பர் . அதி-40 குறள்-393 2.5. இனியவை கூறல் - இனிய உளவாக இன்னாத அதி10. குறள் -10							
Instructional Hours 6 I Suggested Learning Methods : திருக்குறளின் சிறப்பினை அறிந்தமை											
Suggeste	ed Learni	ng Metho		நப்பினை அநிந்தமை 							
III	கிராமிப	பக் கதைச	கள் கிராமியக் கதைகள்		1.பரமார்த்தக்குரு கதை 2.நாட்டுப்புறக் கதைகள்						
	Instru	ctional H	ours	1		6 Hours					
					அமைப்பினை அநியும்						

IV	மெ	ரழிப்பயிற்	ந்சி		மொழிப்ப	பயிற்சி		4.1. பிறமொழிச் சொற்களுக்கு தமிழ்ச்சொல் எழுதுதல்					ளுக்கு		
Instructional Hours					6 Hours										
Suggested Learning Methods:					தமிழ்ச்சொல் எழுதும் திறன் பெற்றமை										
V	<b>V</b> எழுத்துப்பயிற்				எழுத்துப்பயிற்சி 5.2					5.2 QU	தன்விவரம் எழுதுதல் பெயர், கல்லூரி விவரம் தச்செய்தல்				
	Tr	structi	onal H	ours	6 Hours								lours		
Suggest					மாழி கலப்பு இன்றி தமிழ்ச்சொல் எழுதும் திறன் பெற்றமை										
				T	otal Ho	ours						30	Hours		
Text Bo	இளங்கல தொகுப்ப	லை தமிழ் மாணவர்களுக்குரிய பாடநூல்"அரிச்சுவடி" பபு: தமிழ்த்துறை, நேரு கலை மற்றும் அறிவியல் கல்லூரி, புத்தூர்.													
Rafaranca Rooks					யயார் ஆத்திச்சூடி மணிவாசகர் பதிப்பகம், கோயம்புத்தூர் இராஜவீதி,01. நூள் - பரிமேலழகர் உரை, மணிவாசகர் பதிப்பகம், சென்னை - 600018.										
Web. U	RLs		https	://youti	tu.be/d5be921uxhE, https://youtu.be/Wtg-GJPfXTM.										
				-	Tool	s for A	ssessn	nent (5	0 Mark	(s)					
CIA	\ I	CIA	\ II	CL	4 III	Sei	ninar	Assignment Group Tot			Total				
								8		Project					
8	}	8	3	1	10		8		8 8			50			
						M	apping	 ŗ							
CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5		
CO1	M	L	Н	L	Н	M	Н	Н							
CO2	L	L	H	L	M	M	L	Н							
CO3 H L		H	L	L	M	M	Н								
CO4	H	L	M	L	L	M	H	M							
CO5	Н	L	H	L	M	M	Н	H							
H-High;	M-Med														
Course designed by										Veri	ified by				
Dr. S. Satheesh Kumar										Dr. A	. Sridev	v <b>i</b>			

Course	e Code				Title				
22U4N	M4AT2		Part IV : Advanced Tamil – II (சிநப்புத்தமிழ் -II)						
Semester: IV			Credits: 2		ESE: 50 Marks				
Course	Objective	<b>.</b>	நூல்களின் வழி செம்மைப்படுத்து		ள உருவா	க்குதல் செம்மொழியி	ினைச்		
Course	Category		Skill Developme	ent (மாணவர்களின்	மொழித்திற	தனை ஊக்குவித்தல்)			
Develop	ment Nee	eds	Regional (தமிழ்	மொழியின் அவசிய	பத்தை உல	னர்த்துதல் <b>)</b>			
Course	Descripti	on	மாணவர்களின் (	மொழித்திறனை ஊ	க்குவித்தல்				
Course	Outcome	S			Teac	hing Methods	Assessment Methods		
CO 1		•	கள் பெறுதல் மற் களைப் பெறுதல்.	றும் இலக்கண	ഖിரിഖുത	ர/காணொளிப்பட விளக்கம்	கருத்தரங்கு		
CO 2	பெறுதல்	)	5ல் மற்றும் மொழி	· 	ഖിரിഖുഒ	ரை/ குழு விவாதம்	ஒப்படைவு		
CO 3			திறன் அறிவுபெறச் ச்சியலுக்கானகுக	•		ഖിரിഖ്വரെ	கருத்தரங்கு		
<b>CO 4</b>	தகவல் பெறச்செ		ர்பியலுக்கானகடித	ம,அமைவுத்தாழன	ഖിரിഖുഒ	ரை/ குழு விவாதம்	குழுத்திட்டம்		
CO 5 மொழியைப் பிழையின்றிப் பெறச்செய்தல்			ழையின்றிப் பேச,	ச,எழுதும் திறன் விரிவுன		ர/காணொளிப்பட விளக்கம்	ஒப்படைவு		
Offered	by தம்	ழ்த்து	றை						
Course	Content :	Adva	nced Tamil – II	(சிறப்புத்தமிழ் -II)	Instru	ctional Hours / Wee	ek: 2		
Unit		Desci	ription	Text Boo	k	Chapt	ers		
I	பதினென் நூல்கள்	ள் கீழ்ச்	க்கணக்கு	1.திருக்குறள் 2.நாலடியார்		1.1. கூடாநட்பு 1.2. செய்நன்றியறிதல் - நாலடி 1.3. கல்வி (131,132 செய்யுள்க			
				Instruction			6		
Suggest			ethods : திருக்குற	ങ്നിன் சுவை அறியு	•	பெற்றமை 			
II	சிறுகளை	5		1.வெ.இறையன்பு - பூனாத்தி சிறுகதைகள்		2.1 சேவியர் வாத்தியார் 2.2 தூரிகை			
			Instructional Hours 6						
Sugges	ted Learı	ning N	Iethods : சிறுகதை	instruction தகளின் சுவை அறி		·	isomio		
Sugges	<b>ted Leari</b> இலக்கன		<b>lethods :</b> சிறுகதை		ியும் வாய்ப்	பு பெற்றமை  3.1 எழுத்தும் சொன்க கடிக்கும் சொன்க கடிக்கு கடிக்க்க்க்க்க்க்க்க்க்க்க்க்க்க்க்க்க்க	ர ரியாகப் ந ள்,		
III	இலக்கன	<b>រា</b> ល់		தகளின் சுவை அற் இலக்கணப் பயி Instruction	ியும் வாய்ப் ந்சி ஏடு nal Hours	3.1 எழுத்தும் சொ 3.2 சுட்டெழுத்துகள் 3.3 சொற்களைச் ச பயன்படுத்தும் முன 3.4 வினைச்சொற்கள் பெயர்ச்சொற்கள் 3.5 வினா எழுத்துக	ர ரியாகப் ந ள்,		
III	இலக்கன	<b>រា</b> ល់	Iethods : சிறுகதை ethods : இலக்கண	தகளின் சுவை அற் இலக்கணப் பயி Instruction	ியும் வாய்ப் ந்சி ஏடு nal Hours	3.1 எழுத்தும் சொன் 3.2 சுட்டெழுத்துகள் 3.3 சொற்களைச் ச பயன்படுத்தும் முறை 3.4 வினைச்சொற்கள் பெயர்ச்சொற்கள்	ர ரியாகப் ந ள்,		
III	இலக்கன	ກເບົ່ ing M		தகளின் சுவை அற் இலக்கணப் பயி Instruction	ியும் வாய்ப் ந்சி ஏடு nal Hours	3.1 எழுத்தும் சொ 3.2 சுட்டெழுத்துகள் 3.3 சொற்களைச் ச பயன்படுத்தும் முன 3.4 வினைச்சொற்கள் பெயர்ச்சொற்கள் 3.5 வினா எழுத்துக	ரியாகப் நியாகப் ந நார், சுள் <b>6</b> மல்பு வழக்கு,		
III Suggest	இலக்கன ed Learni	ກເບົ່ ing M		தகளின் சுவை அற் இலக்கணப் பயி Instruction ப் பிழை இன்றி எ	ியும் வாய்ப் ந்சி ஏடு aal Hours ழுதும் பயி	3.1 எழுத்தும் சொன் 3.2 சுட்டெழுத்துகள் 3.3 சொற்களைச் ச பயன்படுத்தும் முனை 3.4 வினைச்சொற்கள் பெயர்ச்சொற்கள் 3.5 வினா எழுத்துக	ரியாகப் நியாகப் நின், சுள் <b>6</b> மல்பு வழக்கு,		

V	படைப்பாற்றல் பயிற்சி		இலக்கிய வரலாறு		கவிதை–சிறுகதை–நூல் மதிப்பீடு எழுதுதல்		
Instruct	tional Hours				6		
Suggest	ed Learning M	ethods : மதிப்	<b>ீ</b> டு செய்யும் பயிற்சி	பெற்றமை			
			,	<b>Total Hours</b>	30 Hrs		
1. இளங்கலைத்தமிழ் மாணவர்களுக்குரிய பாடநூல்"திரட்டு" தொகுப்பு: தமிழ்த்துறை, நேரு கலை மற்றும் அறிவியல் கல்லு கோயம்புத்தூர்.  1. திருக்குறள் —பரிமேலழகர் உரை, மணிவாசகர் பதிப்பகம், செ.  2. வெ.இறையன்பு - பூனாத்தி சிறுகதைகள், விஜயா பதிப்பகம், கே.				ம் அறிவியல் கல்லூரி, சகர் பதிப்பகம், சென்னை - 018			
Web. U	RLs	https://youtu	.be/_vB59q6At8s, l	nttps://youtu.be	e/aSvxO_rV9eQ.		
	Course designed by				Verified by		
Dr. S. Satheesh Kumar			ar		Dr. A. Sridevi		

Course Code	Title			
22U4NM4GEN	Non Major Elective : Gen	Non Major Elective : General Awareness		
Semester : IV	Credits : 2	ESE : 50 Marks		

(Common to all UG Programmes)

## **Course Objective:**

Enable the students to learn General knowledge and prepare for different competitive exams.

#### **Course Outcomes:**

CO1	Determine Verbal Aptitude , Numerical Aptitude and Logical Reasoning
CO2	Recall basic Science, history, Tamil, Computer, Commerce concepts which would help to crack competitive Examinations
CO3	Acquire time Management skills to attempt competitive Examinations
CO4	Develop Aptitude and problem solving skills
CO5	Gain Knowledge about Current Affairs

#### **Course Content**

### **Instructional Hours / Week: 2**

S. No.	Topics
1.	Verbal Aptitude
2.	Numerical Aptitudeand Logical Reasoning
3.	Abstract Reasoning
4.	Tamil and Other Literature
5.	General Science and Technology
6.	Computer
7.	Economics and Commerce
8.	History and Freedom Struggle
9.	Sports
10.	Current Affairs
	Total Hours: 30

Text Book: "General Awareness", compiled by Nehru Arts and Science College, Coimbatore

# Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	Н	L	-	-	Н	-	-	L					
CO2	Н	L	-	-	Н	-	-	L					
CO3	Н	L	-	-	Н	-	-	L					
CO4	Н	L	-	-	Н	-	-	L					
CO5	Н	L	-	-	Н	-	-	L					

H-High; M-Medium; L-Low

Course Designed by	Verified by Chairman
P. Sheeba Maybell	T. Chandrapushpam

Cou	rse Code	Title				
22U	4VBOE01	Value Based Open Elective Course: Design Ecosystem				
Sem	ester: IV	Credits: 2 ESE: 50 I			Marks	
Course	Objective	To gain the knowledge on ecosyst				ability
Course	Category	Crosscutting Issue : Environment	And Sus	tainability		
Develop	ment Needs	Global				
Course	Description	Design ecosystem describes abortunctional unit of ecology where other and the surrounding environ	the livi			
Course	Outcomes			Teaching	Methods	
CO 1	Understand a environment	about the basic concepts of ecosystem al planning	em and	Lecti	ure / Video	Lessons
CO 2	ecosystem	edge of challenges and design pro		Lectu	ires / Video	Lessons
CO 3	ecosystem	about functions and flow of ene		Case study / Model		Model
CO 4	control	Analyse about process and mechanism of ecosystem control				Discussion
CO 5	Demonstrate framework	about green infrastructure and reg	ulatory	Le	ecture / Tute	orial
Course	Content			Instructi	onal Hours	s / Week: 2
Unit		Description			Text Book	Chapters
I	Axioms of Ec	Human Dominated-Eco al planning: Introduction to I sciences; Principles and Scop ological Engineering, Sustainable of tion dymanics, Human dominated of	Ecological Ecologica Ecological Ecological Ecological Ecological Ecological Ecologica Ecological Ecological Ecological Ecological Ecological Ecologica Ecological Ecologica Ecologica Ecologica Ecolog	Ecology.	1	1
<b>G</b> .			<u>I</u>	nstruction	al Hours	6
Suggest		Methods: Video Lectures cosystem services & Riomes: D	esign ch	nallenges		
п	<b>Designing Ecosystem services &amp; Biomes:</b> Design challenges and needs, the design process, biomes, ecoregions, other land classification systems.				1	3 & 4
	17		I	nstruction	al Hours	6
Suggest		<u>Methods: Video Tutorials</u> mass flow through ecosysten	ı• Struc	rture and		
Ш	Functions of	Ecosystems - Abiotic and Biotic of cycling of materials; water, carl	ompone	nts, Flow	3	2
	1 F		I	nstruction	al Hours	6
Suggest	ed Learning N	Methods : Group Discussion				

IV	control proc	control: Population control process, community less. Stream restoration design - hydrology, y, geomorphology, habitat, riparian corridor and	6					
		Instructional Hours	6					
Sugges	Suggested Learning Methods: Group Discussion							
V	Green infrastructure design: Green infrastructure network, sustainable cities initiatives, agricultural sustainability indicators, surrounding environmental, ecological and social justice; environmental ethics, issues and possible solutions							
		Instructional Hours	6					
Sugges	ted Learning N	Methods : Online Tutorial						
		Total Hours	30					
Text Books  and Conserving Eco.  Meffe, G.K., L. Ni Management: Adap 2012.  3. Elliot, D. 2003. Er		<ol> <li>Matlock, M. D. and M. Robert. Ecological Engineering Desig and Conserving Ecosystem Services. JohnWiley &amp; Sons, Inc.</li> <li>Meffe, G.K., L. Nielson, R. L. Knight and D. Schenborn Management: Adaptive, Community-Based Conservation. I 2012.</li> <li>Elliot, D. 2003. Energy, Society and Environment, Techn Sustainable Future. Routledge Press.</li> </ol>	2011 Ecosystem sland Press.					
Referei	1. Sim Van Der Ryn and S. Cowan. Ecological Design. Island Press, 1996 2. Neeraja, N. Environment and Ecology: A Dymanic Approach, 3 <sup>rd</sup> Editi GKP Books Catalogue. 2018.							
Web. U	JRLs	<ol> <li>https://www.nationalgeographic.org/encyclopedia/ecosystem/</li> <li>https://www.environmentandecology.com/</li> </ol>						
	Course	e designed by Verified by Chairman	1					
Dr. S. E	Esath Natheer	Dr. M. Thangavel						

Cours	rrse Code Title						
22U4	VBOE02	Value Based Open Elective Course:	Design Thinl	king			
Seme	ster: IV	Credits: 2	ES	SE : 50 Mark	KS		
	•						
Course	Objective	Inculcate the fundamental concepts o students as a good designer by impart ability	_	•			
Course	Category	Crosscutting Issue : Professional Ethics					
Develop	pment Needs	Local, National and Global					
Course	Description	The course aims to provide introducted techniques of design thinking and method in the real world.					
Course	Outcomes		Tea	aching Meth	ods		
CO 1	Learn the	pasic concepts of design thinking	Di	rect Instructi	on		
CO 2	Develop t	ne skill of applying the design thinking	Di	rect Instructi	on		
CO 3		Learn the business uses of design thinking Video					
CO 4		Understand the variety of approaches within the design thinking discipline  Direct Instruct					
CO 5	Impart kn	Impart knowledge in design thinking mindset Direct Instruction					
Course	Course Content Instructional Hours / Wo						
Unit		Description		Text Book	Chapter s		
<u> </u>		<b>r</b>	ition of Design Thinking, Variety within the Design 1				
I	Definition	nking Background	Design	1	1		
I	Definition Thinking I	nking Background of Design Thinking, Variety within the iscipline, Design Thinking Mindset		1 onal Hours	1 <b>06</b>		
I	Definition Thinking I	nking Background of Design Thinking, Variety within the iscipline, Design Thinking Mindset  Iethods: Brain Storming			_		
I	Definition Thinking I  ed Learning I  Design Thin Fundamenta Thinking, C	nking Background of Design Thinking, Variety within the iscipline, Design Thinking Mindset	Instructi ivergent umption		_		
I Suggest	Definition Thinking I  ed Learning I  Design Thin Fundamenta Thinking, C Testing, Pro	nking Background of Design Thinking, Variety within the iscipline, Design Thinking Mindset  Methods: Brain Storming Oking Approach Occupits — Empathy, Ethnography, Denvergent Thinking, Visual Thinking, Assective of the content of t	Instructi ivergent umption	onal Hours	06		
I Suggest	Definition Thinking I  ed Learning I  Design Thin Fundamenta Thinking, C  Testing, Pro  ted Learning	nking Background of Design Thinking, Variety within the iscipline, Design Thinking Mindset  Iethods: Brain Storming Iking Approach I Concepts – Empathy, Ethnography, Donvergent Thinking, Visual Thinking, Assettyping, Time for Learning and Validation  Methods: Learning by Teaching	Instructi  ivergent  umption  Instructi	onal Hours	5,1,3		
I Suggest	Definition Thinking I  ed Learning I  Design Thin Fundamenta Thinking, C Testing, Pro  ted Learning Design Thi organization Design Thi Diamond F	nking Background of Design Thinking, Variety within the iscipline, Design Thinking Mindset  Methods: Brain Storming Oking Approach Occupe Concepts — Empathy, Ethnography, Design Thinking, Visual Thinking, Associately and Validation  Methods: Learning by Teaching inking Resources — People, place,	ivergent umption Instructi material,	onal Hours	5,1,3		
I Suggest	Definition Thinking I  ed Learning I  Design Thin Fundamenta Thinking, C Testing, Pro  ted Learning Design Thi organization Design Thi Diamond F	nking Background of Design Thinking, Variety within the iscipline, Design Thinking Mindset  Iethods: Brain Storming Iking Approach Concepts — Empathy, Ethnography, Donvergent Thinking, Visual Thinking, Assumption, Time for Learning and Validation  Methods: Learning by Teaching inking Resources — People, place, al fit Inking Processes - Numerous Approaches Incomparison of the process, 5-Stage, School Process, Designation	ivergent umption Instructi material,	onal Hours  onal Hours	5,1,3 06		

NASC 2022

	Design Think	ing in Practice I:						
	Process Stage	s of Designing for Growth -						
IV	Design Think	ing Tools and Methods – I- Purposeful Use of 1						
	Tools and A	dignment with Process, Visu	alization, Journey					
	Mapping							
			Instruction	nal Hours	06			
Suggested Learning Methods: Case Method								
	O	ing in Practice II:						
	Design Thin	king Tools and Methods -	II- Value Chain					
${f V}$	Analysis,	Mind Mapping, Brainsto	orming, Concept	2	8			
	Development,	Assumption Testing, Ra	apid Prototyping,					
	Customer Co-	Creation, Learning Launch						
				nal Hours	06			
Sugges	ted Learning N	Methods: Project Based Lear		T				
		1. "Designing for growth		otal Hours	30			
Text Books		<ul> <li>by Jeanne Liedtka and Tim Ogilvie., 2011, ISBN 978-0-231-15838-1</li> <li>2. "The design thinking playbook: Mindful digital transformation of teams, products, services, businesses and ecosystems", by Michael Lewrick, Patrick Link, Larry Leifer., 2018, ISBN 978-1-119-46747-2</li> </ul>						
1. "Presumptive design: Design procession Leo Frishberg and Charles Land 803086-8  Reference Books  2. "Systems thinking: Managing charder for designing business architect Thinking", by JamshidGharaje 385915-0			harles Lambdin., 2016, anaging chaos and comp as architecture.", "Chap	ISBN: 978 plexity: A plater Seven: I	atform Design			
Web. U	Web. URLs  1. https://www.designcouncil.org.uk/news-opinion/design-process-what-double-diamond							
Course designed by			Verified by	Chairman				
Ms. M.	Nandhini		Dr. S. Jayapriya					

Course	e Code	Title		
22U4V	BOE03	Value Based Open Elective Course : Disaster	Manageme	ent
Semes	ter: IV	Credits: 2 ESE: 50	Marks	
~				
Course	Objective	To learn knowledge about disaster and risk and appropriate of any disaster.	oly the same	in the time
Course	Category	Crosscutting Issue : Environment And Sustainabilit	y	
Develo	pment Needs			
	Description	This course is designed to provide students with understanding of the concepts, theories, and practic management. Students will learn how to identify an emergency plans, and mitigate the impact of disaster organizations.	ces of disas nd assess ris	ter and risk ks, develop
		Course Outcomes	Teaching M	
CO 1	individuals	different types of disasters and their impact on and communities.		eture/ nstration
CO 2	framework,	e disaster management scenario in India, the policy and the role of different stakeholders in reducing and building resilience		eture/ Studies
CO 3		the concepts of risk and vulnerability in disaster at and analyze the different approaches to disaster on.	Lectures / Video Lessons	
CO 4	•	ne concept and nature of disaster preparedness, mponents of a disaster preparedness plan	Tutorial / Case Studies	
CO 5		emergency responses to be taken by the national nagement force and the practical training process on nagement	Lecture / Class Projects	
Course	Content		Instructional Hours Week:2	
Unit		Description	Text Book	Chapters
I	Definitions Basic conce Natural Dis epidemic or Disaster: Fin Disasters, A	and Terminologies used in Disaster Management, opts in Disaster Management, Types of Disaster: saster: Flood, Cyclone, Earthquakes, Landslides, Pandemic etc. (Case studies of each), Man-made re, Industrial Pollution, Nuclear Disaster, Biological occidents (Air, Sea, Rail & Road), Structural failures and Bridge), War & Terrorism etc. (Case studies of		1
		Instruction	nal Hours	6
Sugges		Methods: Power Point Presentation		
II	Hazard and Indian sce Managemen	Nagement in India Vulnerability Profile India, Disaster Management nario, India's vulnerability profile, Disaster t Act 2005 and Policy guidelines, National Institute of lanagement, National Disaster Response Force		2

	Disaster Man	tional Disaster Management agement Authority, District Cases Studies.	Disaster Management		
a			Instruction	al Hours	6
Sugges		Methods: PPT and Video L	ecture	I	
Ш	Vulnerability: Vulnerability	Inerability  : Assessing Disaster Risk, Disaster Risk, Disaster Risk, Disaster Risk, Disaster Risk, Disaster Risk, Disaster Reduction, Climate Variability and Risk Management	tegic Development for	1	3
			Instruction	al Hours	6
Sugges	sted Learning	Methods : Video Lecture			
	Disaster Prep				
IV	Concept and Warnings and Education, Co	Nature, Disaster Preparedness I Safety Measures of Disaster ommunication, and Training, and NGO Bodies.	r, Role of Information, Role of Government,	1	4
			Instruction	al Hours	6
Sugges	sted Learning	Methods: PPT and Group A	Activity		
V	Communicati Preparedness Management, Bodies, Psycl Recovery, Po Rehabilitation Rehabilitation Post Disaster	esponse: Introduction, Crisis I on, Participation, and Activ Plan, Search, Rescue, Eva Role of Government, Inte nological relief and recovery, ost Disaster Public Health a, Reconstruction and Recover as a Means of Development, effects and Remedial Measure Disaster management.	vation of Emergency cuation and Logistic ernational and NGO Relief operation and Management, 3R - ry, Reconstruction and Damage Assessment, es, Role of Educational	1	5
			Instruction	al Hours	6
Sugges	sted Learning	<b>Methods: Laboratory Pract</b>			
			Tot	al Hours	30
Text B	ooks	Disaster and Risk Manager of Criminology, Nehru Art	ts and Science College, Co	oimbatore	
Reference Books		<ol> <li>J. P. Singhal, "Disaster Management", Laxmi Publications, 2003.</li> <li>M C Gupta, "Manual on Natural Disaster Management in India", NI Delhi, 2013</li> <li>R K Bhandani, "An Overview on Natural &amp;Man-made Disasters Reduction", CSIR, New Delhi, 2000</li> <li>Dr. Mrinalini Pandey, "Disaster Management", Wiley India Pvt. L</li> <li>National Disaster Management Authority Publications-Guid Templates for Disaster Management</li> </ol>		NIDM, New ers and their Ltd, 2014.	
	Course	e designed by	Verified by	Chairman	n
Dr. Re	neesh K Rajan		Dr. Reneesh K Rajan		

Course	e Code			Title				
22U4V	BOE04		Value Ba Environmental	ased Open Elective Course : Pollution and Waste Management				
Semes	ter: IV		Credits: 2	ESE: 50 Marks				
Course	To acquire deeper knowledge about Environmental Management Sys						t Systems	
Course	Categor	Category Crosscutting Issue : Environment And Sustainability						
Develop	oment No	eeds	Global					
Course	Descript	tion	Environmental Pollution management of any unne the water, land or air that	cessary resource	use or rel	ease of sub	stances into	
Course	Outcom	es				Teaching	Methods	
CO 1	Unders	tand t	he types of environmental p	oollutants			cture / Learning	
CO 2			velop and interpret metho Systems.	ds of the Enviro	onmental		cture/ e Tutorial	
CO 3	Critical Environ		evaluate methods and al Management Systems fro		within spective.		cture/ Tutorial	
CO 4	Unders polluta	tand	the effective managen		onmental		cture/ Tutorial	
CO 5	Learn I	Enviro	nmental Auditing for vario	us Industries/Pro	jects.		cture/ e Tutorial	
Course	Content				Instructi	onal Hours	s / Week: 2	
Unit			Description			Text Book	Chapters	
I	Biodegr	adable	to Environmental polluta e pollutants, Non-biodeg ter Pollution, Soil Pollution	radable pollutan		1	1,2	
				I	nstruction	al Hours	6	
Suggest	Introduc definitio	ction ons an	Methods: Industrial Visit to Environmental Mand terms, Framework for En	vironmental Mar	nagement	2	2, 4	
	Systems System.		roach for developing an En	vironmental Mar	nagement		·	
G.	1.7		# 41 1 XX7 1 1	Iı	nstruction	al Hours	6	
III	The introduction and implementation of ISO 14001: environmental policy, planning, implementation and operation, checking, management review. Applications EMS in terms of Process flow chart, effluent Generation, composition and				2	5		
			offluents from following including, dairy, oil refineries	, etc.		1 **		
Suggest	ed I par	ning N	Methods : Online tutorial	<u> </u>	nstruction	al Hours	6	
IV	Introduc	ction to	o Environmental Auditing, rocedures and Guidelines	• •	• •	3	7	

		on: Causes, impacts, and reduce pollution and innovative solu	_		
			Instructiona	al Hours	6
Sugge	sted Learning N	Methods: Online tutorial			
V	Municipal Solid Waste Management: Collection, transportation, and disposal of solid waste - Examination of waste treatment technologies and waste-to-energy processes.  E-waste Management: Challenges and recycling techniques for electronic waste - Discussion on the environmental and health hazards associated with improper e-waste disposal.				8
		r	Instructiona	al Hours	6
Sugge	sted Learning N	Methods : Online tutorial			
	<u> </u>		Tota	al Hours	30
Text F	Books ence Books	Systems Textbook B Kuhre (Author)  2. M. N Rao, "Waste W Co. Pvt Ltd, 2007  3. Peavy, H.S, D.R. Roy New York: McGraw I  1. Christopher Sheldon	reparing Effective Environments of Environments (Page 1987) Property of the Property of Environment (Page 1987) Property of Environments (Page 1987) Property o	onmental Manage 1995  defined and IBH  numental Entalling Entalling Entalling	Management by W. Lee publishing ngineering", vironmental
Web.		Ltd, London, 1999.  1. https://www.anits.edu			
wen.		e designed by	Verified by	Ť	
Dr. O	S Nimmi		Dr. N. Saranya		

Course	urse Code Title						
22U4V	B0E05		Value Based Open Elective Course : History of	Ancient In	dia		
Semest	er: IV		Credits: 02	ESE: 50 Marks			
Course	Objectiv	ia, examini ents.	ng its				
Course	Categor	y					
Develop	ment No	eeds	Global				
Course	Descript	ion	This course gives an in depth analysis of the A marking the beginning of urban civilization in the Ind		•		
Course	Outcom	es		Teachin	g Methods		
CO 1	Unders	tand t	he salient features of Indus valley civilization	Le	cture		
CO 2	Evaluat	e the	features Civilizations	Tu	torial		
CO 3	Evaluat	e the	rise of new movements	Le	cture		
CO 4	Visualize the administration of Mauryas and the art and architecture of Mauryas				torial		
CO 5	Identify the administration of Guptas and their contribution to						
Course	Content		Instructional Ho	ours / Week	x : 2		
Unit			Description	Text Book	Chapters		
I	Relation of India	ship Sou	Nature and Scope of History - History and Its with other Social Sciences - Geographical Features arces of Indian History: Pre- History Paleolithic, eolithic, Chalcolithic and Megalithic Cultures.	1 &4	1-5		
~			Instruction	al Hours	6		
Suggest			Methods: Lecture/Tutorial  Civilization - Its Features & Decline; Early Vedic				
II		er Ved	lic Civilizations Vedic Literature Society Economy -	2	2-4		
			Instruction	al Hours	6		
Suggest			Methods : Lecture/Tutorial				
III		and	w Religious Movements Charvakas, Lokayathas, Buddhism; Mahajanapadas - Rise of Magadha;	3	3		
	тпраст.		Instruction	al Hours	6		
Suggest	ed Learı	ning I	Methods : Lecture/Tutorial				

IV	Foundation of the Mauryan Dynasty; Ashoka and His Dharma Polity Administration - Society Economy Religion Literature - Art and Architecture; Disintegration of the Mauryan Empire; Post- Mauryan Kingdoms - Indo-Greeks - Kushanas and Kanishka - Society Economy Literature Art and Architecture; The Satavahanas; Sangam Age Literary Development.						
		Instructiona	l Hours	6			
Sugges	ted Learning <b>N</b>	Methods : Lecture/Tutorial					
V	Gupta Empire: A Brief Political Survey - Polity and Administration, Social and Economic Conditions, Agriculture and Land Grants - Feudalism, Caste System, Position of Women, Education, Literature, Science and Technology, Art and Architecture - Harshavardana and His Achievements.						
	Instructional Hours 6						
Sugges	ted Learning I	Methods : Lecture/Tutorial					
	Total Hours 30						
	1. E.H. Carr, What is History? Penguin Books, England, 1990. 2. Majumdar, R.C., History and Culture of the Indian People, Vol I, II & & III. 3. Romila Thapar, Asoka and the Decline of the Mauryas, OU New Delhi, 1995.			30			
Text B	ooks	<ol> <li>E.H. Carr, What is History? Penguin Books, Eng.</li> <li>Majumdar, R.C., History and Culture of the In I, II &amp; &amp; III.</li> <li>Romila Thapar, Asoka and the Decline of the Interval of th</li></ol>	gland, 199 dian Peop ne Maurya	0. le, Vols. s, OUP,			
	ooks nce Books	<ol> <li>E.H. Carr, What is History? Penguin Books, Eng.</li> <li>Majumdar, R.C., History and Culture of the In I, II &amp; &amp; III.</li> <li>Romila Thapar, Asoka and the Decline of the New Delhi, 1995.</li> </ol>	gland, 199 dian Peop ne Maurya o AD 1300	0. le, Vols. s, OUP,			
	nce Books	<ol> <li>E.H. Carr, What is History? Penguin Books, Eng.</li> <li>Majumdar, R.C., History and Culture of the In I, II &amp; &amp; III.</li> <li>Romila Thapar, Asoka and the Decline of the New Delhi, 1995.</li> <li>Romila Thapar, Early India (From the earliest to 1. Poonam Dalal: Ancient and Medival India for U.</li> </ol>	gland, 199 dian Peop ne Maurya o AD 1300 JPSC & St	0. le, Vols. s, OUP, ). tate Level			

Cou	ırse Code		Title		
22U	4VBOE06	Value Based Open Elective	e Course : Indian Kno	wledge Sys	tem
Sem	nester: IV	Credits: 2	ESE: 50 Marks		
Course	Objective	To make the students underst it to their day to day life	derstand the knowledge system in India and apply		
Course	Category	Value Education			
Develop	ment Needs	National			
	Description	country and traditional kno	engage for spreading the rich heritage of our knowledge in the field of Arts and literature aces, Engineering & Technology, Architecture etc.		
Course	Outcomes		Teaching Methods		
CO 1	Understand overview of I	the History and an ndian knowledge System.	Flipped (	Classroom	
CO 2	_	e Importance of Vedic hilosophical System	Studen	t Centric	
CO 3	1	Foundational Concepts like and Number Systems.	Blended Mode		
CO 4	and Town Pla	concepts of Astronomy anning Architecture.	Flipped (	Classroom	
CO 5	Wellness,	Psychology and Ve Governance	Case	-Base	
Course	Content		Instructional Hours /	Week: 2	
Unit		Description		Text Book	Chapters
I	Ancient Known	wledge System: An Introduction wledge-Defining Indian Know owledge System Corpus History of Indian Knowledge S	vledge System –The -A Classification	1	1
			Instruction	al Hours	06
Suggest	ed Learning M	lethods: Cooperative Learn	ing		
п	The Vedic Corpus: Introduction to Vedas-The four Vedas.  Philosophical System: Indian Philosophical System —  Development and Unique Features-Vedic schools of Philosophy.			2 & 3	
			Instruction	nal Hours	06
Suggest	ed Learning M	<b>Iethods : Peer Learning</b>			

Г							
III	Natural Langu Mathematics:	Component of a Language- age Processing. Unique Aspects of Indian as and their Contributions-Arit	n Mathematics-Great	1	5 & 8		
			Instructional	Hours	06		
Suggest	ted Learning M	ethods : Group Learning					
IV	Development Calendar Town Plannin	Unique aspects of Indian of Astronomy in India-Electory  ng Architecture: Indian Arch  —Town Planning-Unitary	ments of the Indian	1	9 & 12		
			Instructional	Hours	06		
Suggest	ted Learning M	ethods: Mind Mapping					
V	Health-Tridosa Management- Governance	Health, Wellness and Psychology: Ayurveda -Definition of Health-Tridosas-Relationships to Health-Disease-Disease Management-Yoga way of Life-Indian Approach to Psychology.  Governance and Public Administration: Arthasastra Governance and Administration.					
			Instructional	Hours	06		
Suggest	ted Learning M	Tethods : Case Studies					
			Total	Hours	30		
Text Bo	ooks	Introduction to Indian	Rajat Bhat,Nagendra Pa Knowledge System: Co ning Private Limited,Delh	vana R.Noncepts a	٧,		
Referen	ice Books	publishers, 2002.	System in India by Amit System in India, by Amit				
Web. U	RLs	<ol> <li>https://www.youtube.co</li> <li>http://nptel.ac.in/course</li> </ol>	om/watch?v=LZP1StpYEIs/121106003/	PM			
	Course	designed by	Verified by C	Chairman			
Dr. N. S	Saranya		Dr. K. Rajarajeswari				

Cou	rse Code	Title			
<b>22U</b> 4	VBOE07	Value Based Open El			
Sem	ester: IV	Principles of Intellectua Credits: 2	ESE: 50		
Course	Objective	To make the students to recognize the inpupils on basic concepts of Intellectual Pro To learn the procedure of obtaining Pa Industrial Design	perty Rights.		
Course	Category	Entrepreneurship			
Develop	ment Needs	Global			
Course 1	Description	The course is designed to provide comregarding the general principles of IPR, C Intellectual Property Rights, the registra Regime Relating to IPR.	oncepts and	Theories, C	Criticisms of
		Course Outcomes		Teachin	g Methods
CO 1		Intellectual Property Rights (IPR), its signinovation and creativity, and the different		Lec	cture
CO 2	Equip with effectively.	Equip with the knowledge to navigate the patent filing process			
CO 3	Comprehend the fundamentals of copyrights, their types, registration procedures, terms and remedies				cture
CO 4	Narrate the trademarks, their rights, types, purpose, registration process, and the trademark landscape in India				orial
CO 5	Analyze the significance of geographical indications (GI) and the need for their protection, the relevant laws and regulations in India				cture
		Course Content	Instructi		s / Week: 2
Unit		Description		Text Book	Chapters
I	IPR, Importa Rights, Pater Layout Des	n to Intellectual Property Rights (IPR): Innce of IPR, Kinds of Intellectual property int, Trade Mark, Trade Secret and trade draign, Geographical Indication, Plant Vaknowledge, IPR in India and the world, IPR	rights: Copy ess, Design, rieties and	1	1,2
			Instructi	on Hours	6
Suggeste	ed Learning M	<b>Methods: Lecture/Tutorial</b>			
II	amendments requirements The role of F	roduction to Patent, Patent Act 1970, Patentable and non-Patentable invention for obtaining Patent, Registration Procedure Patentees and Different layers of the international and International Patent filing procedure.	ons, legal e of Patent, onal patent	1	4
			Instruction	nal Hours	6
Suggeste		Methods: Lecture/Tutorial	ofinition 0-		
III	Types of Clicense, Ter	Introduction to Copyrights, Origin, and Do Copyrights, Registration procedure, Assi ms of Copyright, Piracy, Infringement, with special reference to software, Copyright	gnment & Remedies,	1	
~			Instruction	nal Hours	6
Suggeste	ed Learning M	<b>lethods</b> : Lecture/Tutorial			

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* 1	* *		1	9
protection, a	nd trademark registration proce	ss, trademarks in India.		
-		Instruction	al Hours	6
ed Learning M	<b>Tethods: Lecture/Tutorial</b>			
Design: Intro	oduction to Design, Registration	n of Design, Cancellation		
of Registrati	on, International Convention	on Design, functions of	1	7,10
Design, Geo	Graphical Indication: Introd	luction to Geo Graphical	1	, ,- ,
Indication, V	Vhy and how GI needs protect	tion and GI laws, Indian		
GI act.				
		Instruction	al Hours	6
ed Learning M	<b>Iethods</b> : Lecture/Tutorial			
		Tot	tal Hours	30
	1. Intellectual Property Rig	ghts, Asha Vijay DurafeDhan	ashree K.	
ext Book	Toradmalle, Wiley Publ	isher, 2022		
D 1	1. B.L. Wadera, Pater	nts, trademarks, copyri	ght, Desig	ns and
rence Book	Geographical Judication	ons.	-	
eb. URLs	1. https://dst.gov.in/sites/de	efault/files/E-BOOK%20IPR	.pdf	
Course	e designed by	Verified by	Chairman	
rathap Chandra	· · ·	Dr. S. Saraswathi		
	Types of trace protection, and ed Learning Mosign: Intro of Registrati Design, Geo Indication, Word act.  The design of the desi	Types of trademark, purpose, and function of protection, and trademark registration proce  ed Learning Methods: Lecture/Tutorial  Design: Introduction to Design, Registration of Registration, International Convention Design, Geo Graphical Indication: Introduction, Why and how GI needs protect GI act.  ed Learning Methods: Lecture/Tutorial  1. Intellectual Property Rig Toradmalle, Wiley Publications of Registration in the property Rig Toradmalle, Wiley Publications of Registration in the property Rig Toradmalle, Wiley Publications of Registration in the property Rig Toradmalle, Wiley Publications of Registration in the property Rig Toradmalle, Wiley Publications of Registration in the property Rig Toradmalle, Wiley Publications of Registration in the property Rig Toradmalle, Wiley Publications of Registration in the property Rig Toradmalle, Wiley Publications of Registration in the property Rig Toradmalle, Wiley Publications of Registration in the property Rig Toradmalle, Wiley Publications of Registration in the property Rig Toradmalle, Wiley Publications of Registration in the property Rig Toradmalle, Wiley Publications of Registration in the property Rig Toradmalle, Wiley Publications of Registration in the property Rig Toradmalle, Wiley Publications of Registration in the property Rig Toradmalle, Wiley Publications of Registration in the property Rig Toradmalle, Wiley Publications of Registration in the property Rig Toradmalle, Wiley Publications of Registration in the property Rig Toradmalle, Wiley Publications of Registration in the Publication in the Publica	Design: Introduction to Design, Registration of Design, Cancellation of Registration, International Convention on Design, functions of Design, Geo Graphical Indication: Introduction to Geo Graphical Indication, Why and how GI needs protection and GI laws, Indian GI act.  Instruction  ed Learning Methods: Lecture/Tutorial  Total  act Book  1. Intellectual Property Rights, Asha Vijay DurafeDham Toradmalle, Wiley Publisher, 2022  1. B.L. Wadera, Patents, trademarks, copyrig Geographical Judications.  b. URLs  1. https://dst.gov.in/sites/default/files/E-BOOK%20IPR  Course designed by  Verified by	Types of trademark, purpose, and function of a trademark, trademark protection, and trademark registration process, trademarks in India.  Instructional Hours  Red Learning Methods: Lecture/Tutorial  Design: Introduction to Design, Registration of Design, Cancellation of Registration, International Convention on Design, functions of Design, Geo Graphical Indication: Introduction to Geo Graphical Indication, Why and how GI needs protection and GI laws, Indian GI act.  Instructional Hours  Red Learning Methods: Lecture/Tutorial  Total Hours  1. Intellectual Property Rights, Asha Vijay DurafeDhanashree K. Toradmalle, Wiley Publisher, 2022  Tence Book  1. B.L. Wadera, Patents, trademarks, copyright, Desig Geographical Judications.  1. https://dst.gov.in/sites/default/files/E-BOOK%20IPR.pdf  Course designed by  Verified by Chairman

Course	e Code			Title			
22U4V	BOE08		Value Based Open Elective	Course : Science,	Socie	ety and Cu	lture
Semes	ter: IV		Credits: 2	ESE: 50 Marks			
Course	Objective	To create awareness on Science, Indian Society and cultural heritage of ou Country					age of our
Course	Category		Skill Development				
Develop	ment Nec	eds	Global				
Course	Descripti	on	Facilitate the awareness on S Social empowerment, Democ Civilization, cultural heritage a	racy and Freedom	of o	our Count	•
			<b>Course Outcomes</b>		7	Гeaching <b>I</b>	Methods
CO 1	awaren	iess a	concepts of Science in our about Scientific community	-	Lect	ure / Video Mode	o Lessons / el
CO 2	moderi	n soc	<u> </u>		Lec		eo Lessons
CO 3	social	laws				Lectur Case st	udy
CO 4	Traditi	onal	the Indian culture, diversity customs		(	Tutori Group Disc	
CO 5	_	arison of ancient heritage and civilization of our ry and follow them in our life  Lecture / Tutorial					`utorial
Course	Content			Instructional H	ours /	/ Week: 2	
Unit			Description			Text Book	Chapters
I	in day to Technolo Robotics, Scientists India, Sci	o da ogy. , Nar s of ientis Pol	tence - Developments and their y Life - Achievements of Inc. Awareness in the fields of IT notechnology and Biotechnology Ancient India, Science and Science and Modern India. India's Policies and Reports related to Vision.	dians in Science as F, Space, Computery. Cientists of Medie Cicy in the Field of	and ers, val the	1	1
		<i></i>		Instruc	ctiona	l Hours	6
Suggest			Methods: Video Lectures		·, I		
П	of India- empowers	Impa ment	iour - Salient features of our So act of globalization on Indi , Democracy and Freedom-R nization in the development of l	an society. Soc Role of women a nealthy society.	cial and	2	1
G -	. 1 T	• • •	W. 41 1	Instruc	ctiona	l Hours	6
Suggest			Methods: Video Tutorials tegration – Communalism	- Regionalism	and		
III	Secularism Social Se Resources	m – ] ector- s. W	Problems relating to developme -Services relating to Health, I elfare schemes for vulnerable s of Centre and States scheme	nt and management Education and Husections of the peo-	nt of man ople-	2	1 & 2

		nd Bodies constituted for the protection and f vulnerable sections.					
		Instructional Hours	6				
Sugges		<b>Iethods : Group Discussion</b>					
IV	South Asian Cultures-Indian culture-combination of several cultures-Indian philosophy-Religious culture-Family structure and marriage-Wedding rituals-Indian greetings-Indian foods- Festivals-Traditional clothing. Epics of India-Indian Arts and Music-Indian architecture and Sculptures-Indian Languages and Literature-Perceptions of Indian culture.						
		Instructional Hours	6				
Sugges		Iethods: Video Tutorials					
v	Ancient Civilization-Indus Valley Civilization-Harappa and Mohenjo-Daro civilization-Evolutions of early Buddhist Architecture-Advent in China-Ellora caves civilization-King 4 2 Gupta's period of civilization-Vijayanagara inscriptions-Mohall's period of civilization-British culture.						
	11	Instructional Hours	6				
Sugges	ted Learning N	Iethods : Online Tutorial					
		Total Hours					
Тє	ext Books	<ol> <li>Science, Culture and Society: Understanding Science ir Century by Mark Erickson, Paperback – Illustrated, 20</li> <li>Khanna, Indian Social order and Laws, Universities Press.</li> <li>Choudhary, Social Protection Law Provisions and Procedular Heritage systems-Universal Law Publishing Cortinated Civilization of Indian sub-continent- Ancient English</li> </ol>	15. ss. edure. npany.				
Refe	rence Books	<ol> <li>National integration and Secularism: Issues and Challe Publications.</li> <li>Ancient Culture of India: Issues and Concerns.</li> </ol>	enges, Regal				
W	eb. URLs	1. https://www.amazon.in/Science-Culture-Society-Understanding-Century-dp-0745662250/dp/0745662250/ref=dp_ob_title_bk.					
	Course	designed by Verified by Chairman	1				
Dr. K.		Mr. Akhil Benny					

Cou	rse Code		Title			
22U4	VBOE09	Value Based Open Electi	ve Course : Community	Engagemen	t	
Sem	ester: IV	Credits: 2	ESE: 50 Marks			
	Course Objective  This course serves as an introduction to community englearners to explore methods of community involvement process, and professionalism within the community.					
Course	Category	Skill Development				
Develop	ment Needs	National				
Course	Description	Apply the principles of co decision makers, and stake		to the divers	e public,	
Course	Outcomes			<b>Teaching M</b>	<b>Iethods</b>	
CO 1	Apply profe organization	essional behavior when wor ns	king with community	Lecture/ (	Case Study	
CO 2	Investigate needs	the complexity of problems	related to community	Lecture/	Role Play	
CO 3	_	conduct the phases of a corng consensus building and a ocedures.		Lecture/ (	Lecture/ Case Study	
CO 4	_	community interests, power te empowerment of exclude	· ·	Lecture/ / Role Play		
CO 5		s-jurisdictional, inter-agency holder collaboration.	, inter-disciplinary, and	Lecture/ (	ecture/ Case Study	
Course	Content		Instructional Hour	s / Week: 2		
Unit		Description		Text Book	Chapters	
I	-	nics and Spectrum of Counity, Rural culture and I		3	2	
			Instruction	onal Hours	6	
Suggest		Methods : Seminar				
п		lopment Programs and Ru on and Community Involve		2	3	
			Instruction	onal Hours	6	
Suggest		Methods : Role Play				
III	Utility of pu	oonents and Principles of c blic resources. Social con Various government scheme	tribution of community	1	3	
			Instruction	onal Hours	6	
Sugges	ted Learning	Methods: Role Play				

	1	Engaged Research and Et	•		_		
IV	0 0	arch. PRA, Programmes of co	mmunity engagement	1	2		
	and their evalu	ation.					
			Instruction	al Hours	6		
Sugges	ted Learning N	<b>Iethods</b> : Creative Art Assi	gnments				
<b>T</b> 7	Rural Distress	Rural Distress, Rural Poverty, Impact of Disasters on Migrant 2					
$\mathbf{V}$	Laborers, Mit	gation of Disaster.					
			Instruction	al Hours	6		
Sugges	ted Learning N	<b>Methods: Community Partic</b>	ipation Program				
			Tot	al Hours	30		
Text B	ooks	<ol> <li>Participatory Rural App Planning, R Ramesh</li> <li>Introduction to Comma Service-Learning, Gary SAGE Publications</li> </ol>		eory, Pract	ice, and		
1. Community-based participatory research: a capacity-but approach for policy advocacy aimed at eliminating disparities. Am J Public Health. 2010  2. Achieving successful community engagement: A rapid review. BMC Health Services Research.			health				
Web. U	JRLs	1. https://unnatbharatabhiyan.gov.in > presentations 2. https://www.wellawareworld.org/					
	Course	designed by	Verified by	Chairman			
Ms. T l	O Lidya		Dr. P. Nathiya				

Fundamentals of Emotional Intelligence: Meaning Definition Nature and Significance Models of Emotional Intelligence: Ability, Trait and Mixed Building blocks of emotional intelligence: Self-awareness, Self-Management, Social Awareness, and Relationship Management  Instructional Hours  Suggested Learning Methods: Video lectures  Personal Competence: Meaning Definition Self Awareness: Observing and recognizing one's own feelings, Knowing one's strengths and areas of development. Self-Management: Managing emotions, anxiety, fear, and anger.  Instructional Hours  Suggested Learning Methods: Role Play  Social Competence: Social Awareness: Others' Perspectives, Empathy and Compassion Relationship Management: Effective communication, Collaboration, Teamwork and Conflict Management  Instructional Hours  Suggested Learning Methods: Peer Teaching  Emotional Intelligence: Measurement, and Development	Course	Code			Title				
Course Objective	22U4VI	BOE10		Value Based Open E	lective Cou	rse : Emotio	nal	Intelligen	ice
Intelligence, its models and components   Course Category   Employability & Skill Development	Semest	er: IV		Credits: 2		ESE: 5	50 M	Iarks	
Intelligence, its models and components   Course Category   Employability & Skill Development					<u> </u>				
Development Needs	Course	Objectiv	ve				once	epts of E	Emotional
Course Description   Understanding the importance of Emotional Intelligence and build effective relationships   Teaching Methods	Course	Categor	y	Employability & Skill D	evelopment				
Course Outcomes	Develop	ment Ne	eeds	National & Global					
Understand the Self-Awareness, Self-Management, Social Awareness and Relationship Management   Video Lectures	Course	Descript	ion		ortance of	Emotional	Intel	lligence a	nd build
CO 1	Course	Outcom	es					Teaching	Methods
emotional intelligence.  CO 3 Narrate the insights into establishing positive relationships  CO 4 Understand the emotional intelligence and its importance  CO 5 Summarize the Self-Management Techniques  CO 5 Summarize the Self-Management Techniques  Course Content  Instructional Hours / Week: 2  Unit  Description  Fundamentals of Emotional Intelligence: Meaning Definition Nature and Significance  Models of Emotional Intelligence: Ability, Trait and Mixed Building blocks of emotional intelligence: Self-awareness, Self-Management, Social Awareness, and Relationship Management  Instructional Hours  Suggested Learning Methods: Video lectures  Personal Competence: Meaning Definition Self Awareness: Observing and recognizing one's own feelings, Knowing one's strengths and areas of development. Self-Management: Managing emotions, anxiety, fear, and anger.  Suggested Learning Methods: Role Play  Social Competence: Social Awareness: Others' Perspectives, Empathy and Compassion Relationship Management: Effective communication, Collaboration, Teamwork and Conflict Management  Instructional Hours  Suggested Learning Methods: Peer Teaching  Empathy Intelligence: Measurement, and Davalopment of the Play Intelligence: Measurement of the Play Intelligence: Measurement of the Play Intelligence: Measurement of the Play Intelligence of the Pla	CO 1				•	Social			
CO 4 Understand the emotional intelligence and its importance  CO 5 Summarize the Self-Management Techniques  CO 6 Summarize the Self-Management Techniques  Course Content  Instructional Hours / Week: 2  Unit  Description  Fundamentals of Emotional Intelligence: Meaning Definition Nature and Significance Models of Emotional Intelligence: Ability, Trait and Mixed Building blocks of emotional intelligence: Self-awareness, Self-Management, Social Awareness, and Relationship Management  Instructional Hours  Personal Competence: Meaning Definition Self Awareness: Observing and recognizing one's own feelings, Knowing one's strengths and areas of development. Self-Management: Managing emotions, anxiety, fear, and anger.  Instructional Hours  Suggested Learning Methods: Role Play  Social Competence: Social Awareness: Others' Perspectives, Empathy and Compassion Relationship Management: Effective communication, Collaboration, Teamwork and Conflict Management  Instructional Hours  Suggested Learning Methods: Peer Teaching  Emotional Intelligence: Measurement, and Development  Emotional Intelligence: Against Measurement, and Development  Emotional Intelligence: Against Measurement, and Development  Emotional Intelligence: Measurement, and Development	CO 2				nniques of bu	uilding		Lecture/ I	Role Play
CO 5 Summarize the Self-Management Techniques  Course Content  Instructional Hours / Week: 2  Unit  Description  Fundamentals of Emotional Intelligence: Meaning Definition Nature and Significance Models of Emotional Intelligence: Self-awareness, Self-Management, Social Awareness, and Relationship Management  Instructional Hours  Suggested Learning Methods: Video lectures  Personal Competence: Meaning Definition Self Awareness: Observing and recognizing one's own feelings, Knowing one's strengths and areas of development. Self-Management: Managing emotions, anxiety, fear, and anger.  Instructional Hours  Suggested Learning Methods: Role Play  Social Competence: Social Awareness: Others' Perspectives, Empathy and Compassion Relationship Management: Effective communication, Collaboration, Teamwork and Conflict Management  Instructional Hours  Suggested Learning Methods: Peer Teaching  Emotional Intelligence: Measurement, and Devalopment of	CO 3	Narrate	e the i	nsights into establishing po	sitive relation	onships	Le	ecture/ Pe	er Teaching
Course Content  Unit  Description  Fundamentals of Emotional Intelligence: Meaning Definition Nature and Significance Models of Emotional Intelligence: Self-awareness, Self-Management, Social Awareness, and Relationship Management  Instructional Hours  Suggested Learning Methods: Video lectures  Personal Competence: Meaning Definition Self Awareness: Observing and recognizing one's own feelings, Knowing one's strengths and areas of development. Self-Management: Managing emotions, anxiety, fear, and anger.  Instructional Hours  Suggested Learning Methods: Role Play  Social Competence: Social Awareness: Others' Perspectives, Empathy and Compassion Relationship Management: Effective communication, Collaboration, Teamwork and Conflict Management  Instructional Hours  Suggested Learning Methods: Peer Teaching  Emotional Intelligence: Measurement, and Development	CO 4	Unders	stand t	the emotional intelligence a	and its impor	rtance		Lecture/ I	Role Play
Unit Description Text Book Chapter  Fundamentals of Emotional Intelligence: Meaning Definition Nature and Significance Models of Emotional Intelligence: Ability, Trait and Mixed Building blocks of emotional intelligence: Self-awareness, Self-Management, Social Awareness, and Relationship Management  Instructional Hours 6  Suggested Learning Methods: Video lectures  Personal Competence: Meaning Definition Self Awareness: Observing and recognizing one's own feelings, Knowing one's strengths and areas of development. Self-Management: Managing emotions, anxiety, fear, and anger.  Suggested Learning Methods: Role Play  Social Competence: Social Awareness: Others' Perspectives, Empathy and Compassion Relationship Management: Effective communication, Collaboration, Teamwork and Conflict Management  Instructional Hours 6  Suggested Learning Methods: Peer Teaching  Emotional Intelligence: Measurement, and Development	CO 5	Summa	arize t	he Self-Management Tech	niques				-
Fundamentals of Emotional Intelligence: Meaning   Definition Nature and Significance   Models of Emotional Intelligence: Ability, Trait and Mixed   Building blocks of emotional intelligence: Self-awareness, Self-Management, Social Awareness, and Relationship   Management   Ma	Course	Content				Instruction	nal H	Hours / W	eek: 2
Fundamentals of Emotional Intelligence: Meaning Definition Nature and Significance Models of Emotional Intelligence-: Ability, Trait and Mixed Building blocks of emotional intelligence: Self-awareness, Self-Management, Social Awareness, and Relationship Management  Instructional Hours  Suggested Learning Methods: Video lectures  Personal Competence: Meaning Definition Self Awareness: Observing and recognizing one's own feelings, Knowing one's strengths and areas of development. Self-Management: Managing emotions, anxiety, fear, and anger.  Instructional Hours  Suggested Learning Methods: Role Play  Social Competence: Social Awareness: Others' Perspectives, Empathy and Compassion Relationship Management: Effective communication, Collaboration, Teamwork and Conflict Management  Instructional Hours  Suggested Learning Methods: Peer Teaching  Emotional Intelligence: Measurement, and Development	Unit			Description					Chapters
Instructional Hours 6  Suggested Learning Methods: Video lectures  Personal Competence: Meaning Definition Self Awareness: Observing and recognizing one's own feelings, Knowing one's strengths and areas of development. Self-Management: Managing emotions, anxiety, fear, and anger.  Instructional Hours 6  Suggested Learning Methods: Role Play  Social Competence: Social Awareness: Others' Perspectives, Empathy and Compassion Relationship Management: Effective communication, Collaboration, Teamwork and Conflict Management  Instructional Hours 6  Suggested Learning Methods: Peer Teaching  Emotional Intelligence: Measurement and Development and Develop	I	Definit Models Buildir Self-M	tion N s of E ng ble lanage	fature and Significance motional Intelligence-: Abi ocks of emotional intellement, Social Awarene	ility, Trait ar	nd Mixed f-awareness,		1	1&2
Personal Competence: Meaning Definition Self Awareness:   Observing and recognizing one's own feelings, Knowing one's strengths and areas of development.   Self-Management: Managing emotions, anxiety, fear, and anger.				-		Instructi	iona	l Hours	6
II Observing and recognizing one's own feelings, Knowing one's strengths and areas of development.  Self-Management: Managing emotions, anxiety, fear, and anger.  Instructional Hours 6  Suggested Learning Methods: Role Play  Social Competence: Social Awareness: Others' Perspectives, Empathy and Compassion Relationship Management: Effective communication, Collaboration, Teamwork and Conflict Management  Instructional Hours 6  Suggested Learning Methods: Peer Teaching  Emotional Intelligence: Measurement, and Development	Suggest								
Suggested Learning Methods: Role Play    Social Competence: Social Awareness: Others' Perspectives,   Empathy and Compassion   2   1&2     Relationship Management: Effective communication,   Collaboration, Teamwork and Conflict Management   Instructional Hours   6     Suggested Learning Methods: Peer Teaching   Emotional Intelligence: Measurement and Development	II	Observ strengt	ing a	nd recognizing one's own areas of development.	feelings, Ki	nowing one's	s	1	5&6
Social Competence: Social Awareness: Others' Perspectives,  Empathy and Compassion Relationship Management: Effective communication, Collaboration, Teamwork and Conflict Management  Instructional Hours 6  Suggested Learning Methods: Peer Teaching  Emotional Intelligence: Measurement and Development	1					Instruct	iona	l Hours	6
III Empathy and Compassion Relationship Management: Effective communication, Collaboration, Teamwork and Conflict Management  Instructional Hours 6  Suggested Learning Methods: Peer Teaching  Emotional Intelligence: Measurement and Development	Suggest								
Suggested Learning Methods: Peer Teaching  Emotional Intelligence: Measurement and Development	III	Empathy and Compassion Relationship Management: Effective communication,  2				1&2			
Emotional Intelligence: Messurement and Development	C .	1.7		(A) 1 B 7 16		Instructi	iona	l Hours	6
Meaning Definition, Importance	Suggest IV	Emotio	onal	Intelligence: Measureme		evelopment	-	2	4&5

	Maggurag of	emotional intelligence Strategies to develop and				
		otional Intelligence				
		Instruction	al Hours	6		
Sugges	sted Learning N	Methods: Role Play				
	Self-Manage	ement Techniques: Meaning Definition Techniques				
V	to regulate en	to regulate emotions such as Mindfulness, Conditioned relaxation				
	response and	Boundary setting	2	6&7		
	Techniques of	Techniques of Relationship Management: Display of empathy,				
	Effective Co	mmunication, Teamwork, Conflict resolution				
	Instructional Hours					
Sugges	sted Learning N	Methods: Group Discussion				
		Tota	al Hours	30		
		1. Bar-On, R., & Parker, J.D.A.(Eds.) (2000	). The h	andbook of		
		emotional intelligence. San Francisco, California: Jossey Bros.				
Text B	looks	2. Goleman, D. (2005). Emotional Intelligence. New York: Bantam				
ICAL D	OUNS	Book.				
			). (2000). Handbook of intelligence. Cambridge			
		University Press.				
		1. HBR's 10 Must Reads on Emotional Intelligence	e (2015)			
Refere	nce Books	2. HBR's 10 Must Reads on Managing Yourself (2	2011)			
		3. Self-Discipline: Life Management, Kindle Editi	ion, Daniel	Johnson.		
	Course	e designed by Verified by	Verified by Chairman			
		, ormod sy				
Dr. R	A Ayyapparajan	Dr. R A Ayyapparajan	Dr. R A Ayyapparajan			

Cou	rse Code	Т	itle			
22U	4VBOE11	Value Based Open Elective Cour	se : Funda	ament	als of Tou	rism
Sem	ester: IV	Credits: 2			ESE:	50 Marks
					l	
Cours	e Objective	To impart Knowledge on Tourism		evelop	ment in th	e economic
		growth and also to identify the tourist	t needs.			
	e Category	Employability				
Develor	oment Needs	Global				
Course	Description	To enhance the students to get part about concepts of tourism.	in the to	urism	industry a	nd to know
Course	Outcomes		1	Геасhi	ng Metho	ds
CO 1	Understand t	ourism and its development		I	Direct Instr	ruction
CO 2	Analyse the l	Factors influencing the Travel Motivat	ions.	I	Direct Instr	ruction
CO 3	Comprehend	the Tourist Transport			Video Les	ssons
CO 4	Understand t	he Tourist Accommodations		I	Direct Instr	ruction
CO 5	Apply the Tr	avel Agency Operations			Video Les	ssons
Course	Content		Instru	ctiona	l Hours /	Week: 2
Unit		Description			Text Book	Chapters
I	Tourist; Visit Outbound; De	<b>Phenomenon:</b> Definition – To or; Excursionist; Domestic; Internation estination. Growth of Tourism / Evolutions.	onal; Inbou ition / Hist	ind; tory	1	9, Key Terms
	of Tourism & Present status of tourism in India. Thomas Grand Circular Tour.			OK —		
			Instru	ıction	al Hours	6
Suggest	9	Methods : Lecture Based Learning				
II	Motivators, C and prestige I Rest and recre	ivations: Categories of Motivation Cultural Motivators, Interpersonal Motivators. Types of Tourism: Pleasu eation, Health, Participation in Sports, ic and Family, Spiritual and Religious	ivators, Sta re, relaxat Curiosity	atus ion, and	1	3
			Instru	ıction	al Hours	6
Suggest		Methods: Group Learning Method	3.6	2 1		
III		<b>nsport:</b> Role of Transport in Touris oad Transport, Air Transport, Rail T			2	15
			Instru	ıction	al Hours	6
Suggest		Methods: Group Learning Method	0	, 1		
IV	International Residential Accommodat Bed and Bro	· · · · · · · · · · · · · · · · · · ·	<b>ipplement</b> Sites, Pensi	ary ion,	1	8
			Instru	ıction	al Hours	6
Suggest	ed Learning N	Methods: Group Learning Method				

	TT 1 4	D 1 . C	O1 101 1 2			
	0	cy: Products of Travel Agen	• .			
$\mathbf{V}$		y, Functions, Travel Related B	*	3	2,3	
	Travel Requir	ements, Travel Agency Operat	tions.			
	Instructional Hours					
Sugges	ted Learning N	Methods: Lecture Based Lear	rning			
			Tot	tal Hours	30	
		1. A.K. Bhatia, Tourism D	evelopment: Principles	& Practic	es, Sterling	
		Publishers Pvt 2007.				
Text B	ooks	2. A.K. Bhatia, International Tourism Management, Sterling Publishers				
TOALD	OOKS	Pvt 2012.				
		3. Jagmohan Negi, Travel Agency Operations Concepts and Principles,				
		Kanishka Publishers and	Distributors, 2003.			
		1. Biswanth Gosh, Tourisi	m & travel managem	ent. Vikas	Publishing	
D 6	D 1	House, Second Edition, 2	•	, 11100	1 00110111119	
Keterei	nce Books	2. Christopher Holloway, Business of tourism, Elsevier Publisher, Second				
		Edition, 2006.	,		,	
		,				
	Course	e designed by	Verified by	y Chairma	n	
Mr. B.	Tamilselvan		Mr. B. Tamilselvan			

(	Course Code	Title			
22	2U4VBOE12	Value Based Open Elective : Heal	th E	ducation	
5	Semester: IV	Credits: 2	ES	E: 50 Ma	rks
Course	Objective	1. Acquire knowledge on different dimension	ons o	f health.	
		2. Inbuilt healthy life style practices			
Course	e Category	Value education			
	pment Needs	Local			
Course	Description	It provides knowledge on values and practice	s for	healthy li	ving
	C	ourse Outcomes		Teaching	Methods
CO 1	Recall the impo	rtance of health education		Interactiv	ve session
CO 2	Enlist the right	choice of foods and dietary pattern		Interactiv	ve session
CO 3	Identify method	ls to manage mental health issues		Activity teac	based hing
CO 4	Practice effective	ve personal health habits		Interactiv	e session
CO 5	Summarize the mankind	importance of environmental health for		Interactiv	e session
Course	Content	Instruc	tiona	al Hours /	Week: 2
Unit		Description		Text Book	Chapters
I	determinants of Aim, objective services,	alth, Components of wellness, spectrum a health - Definition of health-health education and principles of health education - Health - Measuring the health attitudes of students	on- lth	1	1
			tion	al Hours	6
Sugges		ethods: Group Activity	Ī		
II	yielding, body functions), food	th 7 food groups; functional food groups-ener building and protective foods (only sources at l pyramid, meal planning pattern, healthy eati Activity - Assessing dietary adequacy of studer	nd ng	3,4	1 & 1, 2
		Instruc	tion	al Hours	6
Sugges		ethods: Peer learning			
Ш	Mental Health  Meaning of mental health – importance of mental health- characteristics of emotionally healthy-Self esteem-Values and patterns in decision making- Mental health problem of adolescences – depression & stress -causes and management Related activity-Stress level assessment in students				
	Instructional Hours 6				
Sugges	sted Learning M	ethods: Role play			
2 288					

				1	T
IV	Personal Health  Definition of personal health- under nutrition and over nutrition -prevalence of life style disease-healthy lifestyle practices- personal hygiene-Importance of physical activities & exercise  Related Activity -Analyzing the physical activity pattern of students				8
	Stadelits		Instructional	Hours	6
Suggeste	ed Learnin	g Methods: Assignment		110011	Ů
V Environment and Health Definition of environmental health, Biodiversity, climate change and biodiversity, environmental pollution-causes and consequences of air, water and soil pollution-Food contamination and consequences Related Activity-Group discussion on case studies				5,8	
	•	<u> </u>	Instructional	Hours	6
Suggeste	ed Learnin	g Methods: Group Discussion	1		
				l hours	30
Text	Books	<ol> <li>Anspaugh (2001), Tea Cataloging, 6<sup>th</sup> Edition,</li> <li>Tyler Miller (2006), Ea private ltd</li> <li>Srilakshmi (2010), Die New Delhi</li> <li>Srilakshmi (2010), Fo limited, New Delhi</li> </ol>	US nvironmental Science, Ce etetics, New age Internati	engage lead	rning India
	1. Howley & Don Franus(B) (2003) Health Fitness Instructor's Handbook. Human Kinetics publication.  2. Ramachandran. L. Dharmalingam. T (1993) Health Education India Vikas publishing House Private Limited  1. Health education				
	Cour	rse designed by	Verified by (	Chairman	
Dr. A. S	Swarnalath	a	Dr. A. Swarnalatha		

Course	e Code			Title			
22U4V	BOE13		Value Based Open	Elective Cours	e : Media a	nd Politics	3
Semest	ter: IV		Credits: 2		ESE: 50	Marks	
	01: 4:		T- I		1:	1 1141	
	Objectiv		To Impart knowledge of u	nderstanding the	e media and	1 politics	
	Categor		Skill Development				
	ment No		Global				1
Course	Descript	tion	This course examines how public thinking and debate	-		utions inter	act to shape
				Course Outco		hing Metho	ds
CO 1	Unders	stand 1	the basic idea of media and	Politics	Lect	ure and De	monstration
CO 2	Summ	arize t	he political stance of media	ı <b>.</b>		Lectu	re
CO 3	Apply	the Sl	kills on writing political nev	vs.	Lect	ure and De	monstration
CO 4	Evalua Organi		the various characteris	stics of me	edia	Video Le	ctures
CO 5			nass media influences as in political contexts	ndividuals, grou	ips,	Discuss	sion
Course	Content				Instructio		/ Week : 2
Unit			Description			Text Book	Chapters
	Media -	Me	aning and importance. Ro	ole of media in	Society		
I			nmunication - Mass Medi	•	•	1	1
1		-	political manifestation. Soc	cial media and	Political	1	1
	narratio	n			Instruction	al Uaura	06
Suggest	ed Leam	ning N	Methods: Learning by Te		HISTITUCTION	ai nours	06
Duggest			s of Modern Mass Medi		Electronic		
II	Media –	Polit	ical economy and Ownershi	p		2	2
					Instruction	al Hours	06
Suggest			Methods: Active Learning omy - State ownership ver		nership of	T	
			<ul><li>Consequences of priv</li></ul>	-	-		
III			ttern Government Regulation	-		1	2
			s Censorship.	•	•		
				]	Instruction	al Hours	06
Suggest			Methods: Group Learning				
			on- The relationship between				
IV	_	_	Political manipulation of		the impact	3	3
	oi mass	meara	on global political process		Instruction	al Houre	06
Suggest	ed Lear	ning N	Methods : Visual Learning		mon uchth	ai iivuis	VV
			ts of Mass Media: Individ		Society		
V			ng public opinion- Settin	• •	•	2	4

Political Socia	alization- Political mobilization	n			
		Instructiona	al Hours	06	
<b>Suggested Learning N</b>	Methods : Case study based I	Learning			
		Tota	al Hours	30	
	1. Lowe, L. (2016). The l	Definitive Guide to Creativ	e Writing a	and Media	
	Productions. United Sta	Productions. United States: Xlibris UK.			
Text Books	2. Marshall, C. (2018). W	. Marshall, C. (2018). Writing for Social Media. United Kingdom: BCS			
Text Dooks	Learning & Development Limited.				
	3. Cain, S., Batty, C. (2016). Media Writing: A Practical Introduction.				
	United Kingdom: Palgrave Macmillan.				
	1. Mencher, Melvin."Bas	sic News Writing" Unive	rsal Books	tall, New	
	Delhi.1993.				
	2. Sreenivas Rao. Academic Book Centre, Ahmedabad. 1981.				
Reference Books	3. Barnard, J. (2019). Th	e Multimodal Writer: Crea	ative Writi	ng Across	
	Genres and Media. Uni	ted Kingdom: Bloomsbury	Academic.		
	4. Kuehn, S. A., Lingwal	I, J. A. (2016). The Basics	of Media V	Writing: A	
	Strategic Approach. Un	ited States: SAGE Publicat	ions.		
Web. URLs	1. https://www.bing.com/	videos/			
Course	e designed by	Verified by	Chairma	n	
Mr. R. Baiju Paul		Mr. R. Baiju Paul			

Cou	ırse Code		Title		
22U4	VBOE14	Value Based Open E	lective : Positive Psycholo	gy and Wo	ork Life
Sem	nester: IV	Credits: 2	ESE: 50	Marks	
Course	Objective		narked by predominance of emerging paradigm of Pos	-	
Course	Category	Skill Development		•	
Develop	oment Needs	National			
Course	Description	Build relevant competent lived experience and its in	eies for experiencing and sl inplications	haring happ	oiness as
Course	Outcomes			Teaching	g Methods
CO 1	Understand	the realities of Psychology	and Work life	Lecture/	Case Study
CO 2	Insight on o	origin and development of F	Positive Psychology	Lecture	Role Play
CO 3	Reveal the l	knowledge about phases of	Positive Psychology	Lecture/	Case Study
CO 4	Perceptiven	ess about Happiness in Psy	chology and its Traits	Lecture	Role Play
CO 5		e specific skills and techr Companionship	iques for working with	Lecture/	/ Role Play
Course	Content				onal Hours 2
Unit		Description		Text Book	Chapters
	Introduction	to Positive Psychology	Positive Psychology:		
I	-	story, Nature, Dimension	and scope of Positive	3	1
	Psychology	Seligman's PERMA			
			Instruction	al Hours	6
Suggest		Methods: Seminar	D '' E '		
		otional States and Processeing: Hope & Optimism	·		
II		of Emotional Intelligence		2	3
	Emotions	or Emotional intelligence	, initiative of Fositive		
			Instruction	al Hours	6
Suggest		Methods : Role Play			
	_	d Virtues : Character Streng			
III	Resilience in Altruism	n the phase of challenge	& Loss, Empathy and	1	3
	Aittuisiii		Instruction	al Houre	6
Suggest	ted Learning N	Methods : Role Play	mstruction	ui iivuis	
~ -55		Introduction to Psycholog	gy of happiness, well		
	being and sco	pe, Types of happiness- Eu	daimonic and Hedonic		
IV	_	Happiness, Theories, M		3	2
		happiness, Traits associ	ated with Happiness,		
	seung Goals	for Life and Happiness	Instruction	al Houre	6
Suggest	ted Learning N	Methods : Creative Art A		ai iivuis	<u> </u>
bugges	ca Learning N	remous . Creative Aft A	asignments		

V	_	and Gratitude : Forgive sformation and Role of s		1	3	
	Instructional Hours 6					
Sugges	ted Learning N	<b>Methods: Community Part</b>				
			To	tal Hours	30	
		Methuen. 2. Carr, Alan (2007).	. The psychology of  Positive Psychology: The strengths. Routledge, Taylor	ne science (	of human	
Text Books		Experience, Harper F 3. Garcia, Hector., & M	haly (1990) Flow: The Psterennial.  Mirrales. Francesc.(2017)  Happy Life, Hutchinson Lo	IKIGAI-The		
1. Frankl, Viktor E. (1988). The Will to Meaning: Foundations a Applications of Logotherapy. Meridian/Plume 2. Frankl, Viktor E. (2000) Man's Search for Ultimate Meaning, Base Books. 3. Snyder, C. R., & Lopez, S. J., & Pedrotti, J. T (2011) Position Psychology: The Scientific and Practical Explorations of Hums Strengths, Sage Publications India Pvt Ltd.			ing, Basic ) Positive			
	Course	e designed by	Verified by	y Chairmai	n	
Ms. K.	Merlin Jenefer		Dr. P. Nathiya			

Course	Code			Title			
22U4VI	BOE15		Value Based Open	Elective Course : Pro	fessi	onal Ethics	S
Semest	er: IV		Credits: 2	ESE	: 50	Marks	
Course	Objectiv	e	Students will understand personal lives and Profess	-	lues	and Ethics	in their
Course	Category	<b>y</b>	Employability & Skill De	evelopment			
Develop	ment Ne	eds	National & Global				
Course	Descript	ion	Understanding the imporbuild effective career.	tance of maintaining I	Profe	ssional Eth	ics and
Course	Outcome	es			Tea	ching Meth	ods
CO 1	Unders	tand t	the basic purpose of Profess	sion		Lectu	re
CO 2	Summa	arize t	the Professional Rights And	l Responsibilities	Le	ecture/ Peer	Teaching
CO 3		Apply the various Roles in Applying Ethical Principles at Various Professional Levels  Lecture/ Case Study				se Study	
CO 4	Profess	Sessional Ethical Values and Contemporary Issues Lecture/ Role Play				ole Play	
CO 5		-	Competitive and Challengo Industrial Growth.	ging Environment to	Lec	ture/ Group	Discussion
Course	Content					tructional l ek : 2	Hours /
Unit			Description			Text Book	Chapters
I	Basic (Govern Emotion Profess Profess	Concering Enal Iresion	n to Professional Ethics epts Ethics, Personal & Professional ligence and professionalism, Pro Risks, Professional Accounts and Profession.	onal Ethics, Life Skill	s,	1	1&2
				Instru	ction	al Hours	6
Suggeste			Methods: Video lectures				
II	Deonto Virtue Absolut Ethical	logy The tion, l Ego	ries: Basic Ethical Principle ory, Rights Theory, C Moral Rationalism, Moral I rism, Feminist Consequent mas, Moral Autonomy	Casuist Theory, Mo Pluralism	ral	1	5&6
				Instru	ction	al Hours	6
			Methods: Mini Case Ana				
III	Profess	sional	<b>Practices:</b> Professions an	d Norms of Profession	nal	2	1&2

Instructional Hours   6						
V	Development Ecosystem, Energy Concerns, Ozone Deflection, Pollution, Ethics in Manufacturing and Marketing Media Ethics; War Ethics; Bio Ethics, Intellectual Property Rights  Instructional Hours					
	Global issue Scenario, Te Trade, World Business E	Global issues in Professional Ethics: Introduction – Current Scenario, Technology Globalization of MNCs, International Trade, World Summits, Issues Business Ethics and Corporate Governance, Sustainable				
Instructional Hours						
	editing.		al House	6		
Sugges	Ethics in chewide definit distinguished attention to r	Alethods: Group Discussion  anging domains of Research: The US government ion of research misconduct, research misconduct from mistakes and errors, recent history of esearch misconduct ing emphasis on understanding and fostering conduct, responsible authorship, reviewing &	2	4&5		
a		al Hours	6			
	Ethics, Profe The Centralit from 1979	rms of Professional Conduct vs. Profession ies, Obligations and Moral Values in Professional ssional codes of ethics by of Responsibilities of Professional Ethics; lessons American Airlines DC-10 Crash and Kansas City by Walk away Collapse.				

Course	e Code	Title					
22U4V	BOE16	Value Based Open Elective Course : The Science of Happiness					
Semester: IV		Credits: 2	ESE: 50 Marks				
Course	Objective	To explore the key elements of happiness at work and strategies to cultivate joy, well-being, and productivity in the workplace, relationship between happiness and various work-related factors, such as efficiency, creativity, innovation, work-life balance, and making a difference for others.					
Course	Category	Skill Development					
Develop	ment Need	Global					
Course Description To create a positive work environment and promote happines themselves and others.						oiness for	
<b>Course Outcomes</b>					<b>Teaching Methods</b>		
CO 1	Understa	nderstand the Happiness as a Scientific Construct			Lectur	Lecture Method	
CO 2	Apply the	pply the Theories and Models of Well-being			Flipped	Flipped Teaching	
CO 3	Demonst	Demonstrate the Individual Factors and Happiness			Lectur	Lecture Method	
CO 4	Analyze	he Social and Environmental Factors	ne Social and Environmental Factors in Happiness			e Method	
CO 5	Apply Happiness and Work Efficiency				Flipped Teaching		
Course Content Instructional Hours / Week : 2							
Unit		Description			Text Book	Chapters	
I	Introduction to Happiness as a Scientific Construct  Defining happiness and its importance in individual and societal well-being, Overview of subjective well-being and its components – life satisfaction, positive emotions, and negative emotions, Exploration of cultural variations in happiness and its measurement			1	1		
	Instructiona					6	
Suggest		Methods: Group Discussion					
II	Theories and Models of Well-being  Prominent theories of well-being – hedonic well-being, eudemonic well-being, PERMA model. Role of factors – autonomy, meaning, and engagement in happiness. Strengths and limitations of different well-being models			1	2		
				Instruction	al Hours	6	
Suggest		Methods: Group Discussion					
III	Individual Factors and Happiness  Personality traits – optimism, resilience and their influence on happiness. Role of genetics and biological factors in determining happiness levels. Examination of personal values, goals, and self-esteem and their impact on subjective well-being				1	3	
				Instruction	al Hours	6	
Suggest		Methods: Group Discussion					
IV		Environmental Factors in Happine of social relationships and so		support in	1	4	

		nappiness. Influence of socia	=			
	norms, and cultural factors on well-being. Impact of					
		al factors - access to natu	re, quality of living			
	conditions or	n happiness.				
			Instructiona	al Hours	6	
Sugges	ted Learning N	<b>Methods</b> : Group Discussion				
	Happiness and Work Efficiency					
	Impact of happiness on work efficiency and productivity, strategies for					
V		managing daily hassles and reducing stress in the workplace, link 1				
		piness and creativity in the wo	_			
	fostering a cre	eative and innovative work enviro				
			Instructiona	al Hours	6	
Sugges	ted Learning N	<b>Methods</b> : Group Discussion				
				al Hours	30	
Text Books		1. Susan A. David, IlonaBOni well, and Amanda Conley Ayers;				
		The Oxford Hand book of Happiness.				
		1. Achor, S. (2010). The happiness advantage: The seven principles				
		of positive psychology that fuel success and performance at work.				
		Random House.				
Referen	nce Books	2. Lyubomirsky, S. (2008). The how of happiness: A scientific				
		approach to getting the life you want. Penguin.				
		3. Diener, E., & Seligman, M. E. P. (2002). Very happy people.				
		Psychological Science, 13(1), 81-84.				
Web. U	. URLs 1. <a href="https://onlinecourses.nptel.ac.in/noc23_hs06/preview">https://onlinecourses.nptel.ac.in/noc23_hs06/preview</a>					
Course designed by		e designed by	Verified by Chairman			
Dr. S. E	Balaji		Dr. K. Rajarajeswari			

Course	e Code			Title						
23U3F	RC513		Core Paper XI	II- Serology and Di	NA T	yping				
Semest	ter : V		Credits : 4	CIA: 25 Marks		ESE: 75	Marks			
Course	Objecti	ve	To impart knowledge and s	skill for analysing hu	man	biological	samples.			
Course	Categor	ry	Employability							
Develop	oment N	eeds	Global							
Course	Descrip	tion	Forensic Serology involve	ed the methods of i	denti	fying the	person under			
			question by means of biolo	ogical analysis. This	invo	lves a two-	step process.			
			First step is the serological	analysis and the seco	nd st	ep is the D	NA analysis.			
Course	Outcom	ies		Teaching Method	ls	Assessme	nt Methods			
CO 1	fluids.		erve and analyse body	Lecture/Demonstra	tion	Ass	signment			
CO 2	Extract	DNA	A from biological sample.	Lecture/ Case studi	es	Cas	e studies			
CO 3			ONA using markers for tifications.	Lecture/Demonstra	tion	S	eminar			
CO 4	Perform	n chei	mical tests for body fluids	Lecture/Video lectu	ıre		Quiz			
CO 5	5 Identify and individualise blood samples   Lecture/Demonstration   Assignment									
Offered by Forensic Science										
Course	Conten	t		Ins	truc	tional Hou	ırs / Week: 5			
Unit			Description			Text Book	Chapters			
	Biologi	cal Ev	vidences							
	Collecti	on, p	acking and preservation of	biological evidenc	es.	1	1			
I	Preserva	atives	used in biological evidence	s. Bioterrorism and	bio	1	1			
	war, use	e of lo	cust as a bioweapon, microb	ial forensics.						
					ction	al Hours	15			
Suggest			Methods: Library extra rea	ading						
			s function							
			l: composition, functions. Co							
	-	_	chniques. Grouping: Gener							
			nce, Blood group determina							
II			formation and Bombay bloo	-		1	2			
	_		antibody, Various antig							
			etween precipitation, aggluting							
			nical techniques : principle,	runction and foren	SIC					
	significa	ance.		Instant	otion	al Hours	15			
			Methods: Laboratory prac		LUUII	ai 110urs	15			

	1		, ,			
Ш	Analysis of b stains. Takay Identification and sweat: a agglutination. tests for ident collection, pa identification	mination of Body fluids blood: identification, confirmatory for fresh blood ama and Teichmann test for dried blood stains. of blood group from stain of blood, Semen, saliva bsorption elution, absorption inhibition and mixed Semen: location, collection, packing, evaluation and ification and forensic significance. Urine: location, ackaging, preservation, evaluation and tests for and forensic significance. Forensic significance of aids like sweat, saliva, milk and its collection and	1	3		
		Instruction	al Hours	15		
Sugges	sted Learning I	Methods: Hands on training				
- 38		to Human Genetics				
IV	Human geneti mutations and variations in I genetics. Mito activity. DNA importance in	cs - definition and explanations for Heredity, alleles, I population genetics. Molecular biology of DNA, DNA, Biochemical aspects. Genomics and medical ochondrial DNA - definition, structure, biochemical a Profiling: Introduction, definite ion, history and the field of forensic science. Paternity and maternity on, derivation and calculation.	1	4		
	l	Instruction	al Hours	15		
Sugges	sted Learning I	Methods: Video lectures				
V	amplifications of SNP and calculations, results. Match and accredita Applications i person's iden related to pat	systems - Polymorphism, RFLP analysis, PCR s, sequence polymorphism. Analysis and functioning Y- STR, Evaluation of results, frequency estimate allele frequency determination, Interpretations of a probability - database, quality control, certification ation. Forensic Significance of DNA profiling: In disputed paternity cases, child swapping. Missing tity, civil immigration, job disputes. Case studies the ernity and maternity disputes and child swapping. It is for admissibility of DNA profiling.	1	5		
		Instruction	al Hours	15		
Sugges	sted Learning I	Methods: Online training				
			al Hours	75		
Text Books  1. Forensic Serology notes compiled by the department of Forensic Science, Nehru Arts and Science College, Coimbatore.						

2023

Refero	ence Bo	ooks	3	Pres DN and . Mo Trip . Fras	ss, Inc. A Prof Thom di, J.K pathi P ser, Ro	nd DNA ojuhn; E B): Med I. J.A (196	DNA fingerprinting; Edited by Jorg T. Epplen In; Birkhauser Verlag, Switzerland, 1999. Medical Jurisprudence and Toxicology, N.M.  (1965): An introduction to Medical Genetics. 975): Human Physiology.							
1. https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/S000016 FS/P000699/M011528/ET/1516257136FSC_P12_M2_e-text.pdf 2. https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/S000016 FS/P000699/M011539/ET/1516257484FSC_P12_M13_e-text.pdf 3. https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/S000016 FS/P000699/M011530/ET/1516257192FSC_P12_M4_e-text.pdf  Tools for Assessment (25 Marks)													pdf 000016 kt.pdf 000016	
CL	A I	CIA	II	C	IA III	As	ssignm	ent	Semin	ar	Quiz	To	otal	
									3				,	
5	5	5			6		3		3		3	2	25	
	5	5			6	M	3 apping		3		3	2	25	
		FO2	PO3	PO4	6 PO5	Ma PO6		PO8		PSO2	PSO3	PSO4	PSO5	
5				<b>PO4</b> H			apping			PSO2				
CO\PO	PO1	PO2	PO3		PO5		apping PO7	PO8			PSO3	PSO4	PSO5	
CO\ PO CO1	PO1 M	<b>PO2</b> H	<b>PO3</b> H	Н	PO5		apping PO7	PO8		Н	PSO3	PSO4	PSO5	
CO\ PO CO1 CO2	PO1 M M	PO2 H H	<b>РО3</b> Н	H H	PO5 M L		apping PO7 L M	PO8		H H	PSO3 H H	PSO4	PSO5 M L	
CO\ PO CO1 CO2 CO3	PO1 M M M	<b>РО2</b> Н Н	PO3 H M L	H H H	PO5 M L M	PO6 - -	apping PO7 L M L	PO8	PSO1	H H H	PSO3 H H H	PSO4 - - M	PSO5  M L M	
CO\ PO CO1 CO2 CO3 CO4 CO5	PO1 M M M M M	PO2 H H H H	PO3 H M L M H	H H H H	PO5 M L M L	PO6	PO7 L M L M	- - -	PSO1	H H H	PSO3 H H H	PSO4 M -	PSO5 M L M L	
CO\ PO CO1 CO2 CO3 CO4 CO5	PO1 M M M M M	РО2 Н Н Н Н	PO3 H M L H H L-Low	H H H H	PO5  M L M L M	PO6	PO7 L M L M	- - -	PSO1	H H H	PSO3 H H H H	PSO4 M	PSO5 M L M L	

Cours	e Code			Title						
23U3F	RC514		Core Paper XIV - F	orensic Medicine and A	nthropology	y				
Semes	ter : V		Credits: 3	CIA: 20 Marks	ESE: 55	Marks				
Course	Objectiv	⁄e	To impart knowledge and reports and draw conclusion		rstanding m	edico-legal				
Course	Categor	y	Employability							
Develo	pment No	eeds	Global							
Course	Descript	tion	Medico legal reports such the investigation. This cou about the various causes of	rse is designed to provide	an in-depth	knowledge				
Course	Outcom	es		Teaching Methods	Assessme	ent Methods				
CO 1	To und death	lersta	nd medico legal aspects of	Lecture/Demonstration	Assi	gnment				
CO 2	post-m	fy the time since death from nortem report.  Lecture/ Case studies Case								
CO 3			various causes of death.	Lecture/Demonstration	Se	minar				
CO 4	punish	ment	ious injuries and s associated with it.	Lecture/Video lecture	e/Video lecture Q					
CO 5			nderstand reports on nst body.	Lecture/Demonstration	Assi	gnment				
Offered by Forensic Science										
Course	Content			Instructi	onal Hours	/ Week : 5				
Unit			Description		Text Book	Chapters				
I	Forensic Procedur death, St asphyxia	e M re: Ir usper a, de	to Forensic Medicine and edicine: Introduction, Inquest, Summons. Death: aded animation, Modes of determination of time since lentify living person for gen	History, Scope, Legal Definition, types, brain eath: coma, syncope and e death, Identification:	1	3				
				Instructio	nal Hours	15				
Sugges			Methods: Library extra re							
П	Injury and Post Mortem Examination Autopsy: introduction, legal requirements to conduct autopsy, preparation of autopsy report, Examination of dead body: types and methods, Examination of bones, Exhumation, Signs of death: Immediate, Early and Late. Rigor mortis, algor mortis, post mortem hypostasis, muscle changes, putrefaction, saponification									
ı					nal Hours	15				
			Methods: Online training							

NASC

l			LOOK TON A	ssessment (20 N	viarke)				
web. URLs  1. https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=eCJfy23Kjy3c0vI CLa6VYg==  2. https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/S000016FS/P000701/M015724/ET/1464331542FSC_P14_M9_e-text.pdf  3. https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/S000016FS/P001353/M026913/ET/1516254684FSC_P11_M35_e-text.pdf									
Refere	nce Bool	<b>ks</b> 3.	edition, Para Fundamental Publishers- I Guharaj Fore Orient Long Nicholas V. and Practice.		shing, Hydera Iedicine and T (P) LTD, Kol P V Guharaj, I n, Hyderabad. ensic Anthrop	bad. Coxicology: 1 Ikata. Edited by M 1 cology: Curre	R. Basu, R Chandran, ent Methods		
Text B			. Narayana Re Toxicology,	ddy K.S, Introd	duction to For		cine and		
Sugges	sted Lear	rning Method	ds: Hands on t	training	Instruct	ional Hours	15		
V	Ossific in hum of oss ossifica bones, Humer Femur	an antent 1	9,10						
Sugges	ted Lea	rning Metho	ds: Laborator	y practice	IIIsti uct	ionai mours	13		
IV	Introdu skeletal Charac human	l system: Struteristics of be and non hun	tion, history, sucture and fun ones. Anatomy	scope and importance of ctions, Classific of bones: generation of gender.	cation of bond eral aspects for c importance	es, for 1	21		
Sugges	sted Lear	rning Metho	ds: Video lectu	ıres	Instruct	ional Hours	15		
Ш	Sexual victim, burns, influent Lightni	Thermal deascalds establicing, effects ng stroke:	roduction, type aths: types, po shment of ider s, properties,	es, examination ost mortem apprintity, Electrical Post morten as, Post morten individual.	pearances. Fla injuries: facto n appearance m appearance	sh ors 1 es, es,	17		

	Mapping													
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	Н	M	M	Н	M	-	M	-	-	M	Н	L	-	
CO2	M	Н	Н	Н	M	-	Н	-	-	Н	Н	L	-	
CO3	Н	Н	M	Н	M	-	Н	-	-	Н	Н	L	-	
CO4	M	M	L	Н	Н	1	Н	- 1	-	Н	Н	Н	-	
CO5	M	M	L	Н	Н	M	Н	-	-	M	Н	Н	-	

Course designed by	Verified by Chairman
Mr. Akhil Benny	Mr. Akhil Benny

Course	Code			Title					
23U3FF	RC515		Core Paper XV - I	ntroduction to Digi Science	tal Fo	orensic			
Semeste	er : V		Credits: 3	CIA: 20 Marks	]	ESE : 55 N	Marks		
Course	Objectiv	ve	Gain an <i>overview of digital</i> the best practices in dealing				understand		
Course	Categor	<b>'y</b>	Skill Development						
Develop	ment No	eeds	Global						
Course 1	Descrip	tion	Digital Forensics is a science of finding evidence from digital media like computer, mobile phone, server, or network and the process of preservation, identification, extraction and documentation of compute evidence which can be used by the court of law.						
Course	Outcom	ies		Teaching Metho	ds	Assessme	ent Methods		
CO 1	digital	foren	niliar with the concept of sics and cyber threats	Lecture/Demonstrat	tion	Assi	gnment		
CO 2			the various digital forensic n methods	Lecture/Demonstrat	tion	Case	studies		
CO 3	Gain b and net		Se	Seminar					
CO 4		rstand the threats associated with Lecture/Video lecture Que devices.							
CO 5	Acquir in digit		owledge in emerging trends rensics	Lecture/Demonstrat	tion	Assi	gnment		
Offered	by Fo	rensi	c Science						
Course	Content	t		Instru	ıction	al Hours	/ Week : 5		
Unit			Description			Text Book	Chapters		
	Introdu	ction	to Digital Evidence						
I	Types of social in	f digi nedia	digital evidence and its important tal evidence: computer, mob., Legal and ethical consider the digital evidence.	oile devices, cloud, a erations in collection	ind	1	all		
I .				Instru	ction	al Hours	15		
Suggeste	ed Lear	ning 1	Methods : Library extra rea	ading					
	Fundan	nenta	ls of Digital Forensics						
II	extraction used in	on, do digita	digital forensics: present ocumentation, and analysis, all forensics investigations, Claudigital forensics.	Tools and technique	ies	1	4		
l l				Instru	ction	al Hours	15		
Suggeste	ed Lear	ning 1	Methods : Library extra rea	ading					

	Operating Sys	stems and File Systems					
Ш	systems : FAT data carving, Introduction to	o operating systems and file systems, Types of file 7, NTFS, EXT, and HFS, Analysis of file systems: file headers, and footers. Network Forensics: o network forensics and its importance, Packet as role in network forensics, Tools used in network	1	5,6,7			
		Instruction	al Hours	15			
Sugges	ted Learning N	<b>Iethods : Online training</b>					
	Mobile Device	es and social media forensics					
IV	smartphones, t used in mobile Introduction to	o mobile device forensics, Types of mobile devices: ablets, and wearable devices. Tools and techniques device forensics. Cloud and Social Media Forensics; cloud and social media forensics, Types of cloud and blatforms, Tools and techniques used in cloud and orensics.	1	9,10			
		Instruction	al Hours	15			
Sugges		<b>Iethods: Hands on training</b>					
V	Introduction to Things, Artific emerging trend	ends in Digital Evidence o emerging trends in digital evidence: Internet of cial Intelligence, and Blockchain. The impact of ls on digital forensics investigations. Future of digital ligital forensics.	1	12			
		Instruction	al Hours	15			
Sugges	ted Learning M	Iethods: Video lectures					
		Tot	al Hours	<b>75</b>			
Text B	ooks	<ol> <li>"Digital Forensics: Principles and Practices" b K. Srinivas, and V. Kamakshi Prasad</li> </ol>	y Niranjan	Reddy,			
Refere	nce Books	<ol> <li>Digital Forensics and Cyber Crime: Second International ICST Conference, ICDF2C 2010, Abu Dhabi, United Arab Emirates, October 4-6, 2010, Revised Selected Papers" edited by Pavel Gladyshev and Marcus K. Rogers</li> <li>"Handbook of Digital Forensics and Investigation" edited by Eoghan Casey</li> <li>"Cyber Crime and Digital Evidences: Indian Perspective" by S. C. Lakhotia and Abhishek Kumar</li> <li>"Digital Evidence and Computer Crime: Forensic Science, Computers and the Internet" by Eoghan Casey</li> </ol>					
Web. U	1. What Is Digital Forensics: Process, Tools, and Types   Computer Forensics Overview   RecFaces						

Mr. Akhil Benny

	Tools for Assessment (20 Marks)												
CIA	I	CL	A II	Cl	A III	As	signm	ent	Semina	ar Quiz		Total	
4		,	4		5		2	2 2 3		2 3		2	0
Mapping													
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	Н	L	-	-	Н	M	M	L	-	L	L	L	Н
CO2	Н	L	-	Н	Н	M	Н	L	-	Н	Н	Н	Н
CO3	Н	L	-	L	Н	M	M	L	-	M	L	M	Н
CO4	Н	L	-	L	Н	M	M	L	-	M	L	Н	Н
CO5	Н	-	M	M	Н	Н	M	Н	-	M	L	L	L
H-High;	M-Me	dium;	L-Low					•					
		Course	e desig	ned by	y		Verified by Chairman						

Mr. Akhil Benny

Seminary	Course	Code	e					Title			
Course Objective   Serology is the study of the bodily fluids inside of the body such as blood semen, saliva, perspiration and faecal matter	23U3F	RP510	5		Coi	re Paper			Serology	y	
Semen, saliva, perspiration and faecal matter	Semest	er : V	r	Credit	s:3		CL	A: 30 Marks	1	ESE : 45	Marks
Development Needs   Course Description   Course is structured to provide the basic concepts of analytical methods as it applies to hair, body fluid and other evidences.    Course Outcomes   Teaching Methods   Assessment Method different types of hair.   Demonstration / Video Lessons   Practical group and diatoms.   Demonstration / Video Lessons   Practical proup and packing of toxicological samples.   Demonstration / Video Lessons   Practical property of drugs and pesticides.   Demonstration / Video Lessons   Practical property of drugs and pesticides.   Demonstration / Video Lessons   Practical property of drugs and pesticides.   Demonstration / Video Lessons   Practical property of drugs and pesticides.   Demonstration / Video Lessons   Practical property of drugs and pesticides.   Demonstration / Video Lessons   Practical property of drugs and pesticides.   Demonstration / Video Lessons   Practical property of drugs and pesticides.   Demonstration / Video Lessons   Practical property of drugs and pesticides.   Demonstration / Video Lessons   Practical property of drugs and pesticides.   Demonstration / Video Lessons   Practical property of drugs and pesticides.   Demonstration / Video Lessons   Practical property of drugs and pesticides.   Demonstration / Video Lessons   Practical property of drugs and pesticides.   Demonstration / Video Lessons   Practical property of drugs and pesticides.   Demonstration / Video Lessons   Practical property of drugs and pesticides.   Demonstration / Video Lessons   Practical property of drugs and pesticides.   Demonstration / Video Lessons   Practical property of drugs and pesticides.   Demonstration / Video Lessons   Demonstration / Video Lessons   Practical property of drugs and pesticides.   Demonstration / Video Lessons   Demonstration / Video Lessons   Practical property of drugs	Course	Objec	ctive							e body su	ich as blood,
Course Description  Course is structured to provide the basic concepts of analytical methods as it applies to hair ,body fluid and other evidences.  Course Outcomes  Co 1 Learn to analyze and compare and identify different types of hair.  CO 2 Conduct test to identify blood stains, blood group and diatoms.  CO 3 Learn the distillation of alcoholic drinks.  CO 4 Learn the systematic methods of collection and packing of toxicological samples.  CO 5 To prepare a TLC plate and examination of video Lessons  Offered by Forensic Science  Course Content Instructional Hours / Week: 4  S. No. Experiment  1 Analysis and comparison of human and animal hair.  2 Blood grouping of fresh blood stains.  3 Presumptive test for blood stains.  4 Microcrystal tests for dried blood stains.  5 Microscopic analysis of diatom  6 Preliminary examination of saliva  7 Preliminary examination of saliva  7 Preliminary examination of saliva  10 Confirmatory examination of saliva  10 Confirmatory tests for Semen  Tools for Assessment (30 Marks)  Analytical Skill Performance  Inference Test I Test II Observation Institutional methods of the difference in the provide the basic concepts of analytical and other evidences.  Teaching Methods Assessment Method Obsension Practical Demonstration / Video Lessons Demo	Course	Categ	gory	Employa	bility						
Course Outcomes   Teaching Methods   Assessment Method	Develop	ment	Needs								
CO 1   Conduct test to identify blood stains, blood group and diatoms.   Demonstration / Video Lessons   Practical	Course	Descr	ription			_			-		ical methods
CO 1   different types of hair.   Video Lessons   Practical group and diatoms.   Demonstration   Practical	Course	Outco	omes					Teaching M	ethods	Assessn	nent Methods
CO 2   group and diatoms.   Demonstration   Practical	different types of hair. Video Lessons								Р	ractical	
CO 3 Learn the distillation of alcoholic drinks.  CO 4 Learn the systematic methods of collection and packing of toxicological samples.  CO 5 To prepare a TLC plate and examination of drugs and pesticides.  Offered by Forensic Science  Course Content Instructional Hours / Week : 4  S. No. Experiment  1 Analysis and comparison of human and animal hair.  2 Blood grouping of fresh blood stains.  3 Presumptive test for blood stains.  4 Microcrystal tests for dried blood stains.  5 Microscopic analysis of diatom  6 Preliminary examination of Semen  8 Identification of species (precipitin test)  9 Confirmatory examination of saliva  10 Confirmatory tests for Semen  Tools for Assessment (30 Marks)  Analytical Skill Performance  Inference Test I Test II Observation Interest	CO 2			•	blood st	ains, blo	ood			P	ractical
Analytical Skill   Performance   Inference   Test II   Observation   Total	CO 3		n the distillation of alcoholic drinks							P	ractical
Offered by Forensic Science  Course Content  S. No. Experiment  Analysis and comparison of human and animal hair.  Blood grouping of fresh blood stains.  Presumptive test for blood stains.  Microcrystal tests for dried blood stains.  Microscopic analysis of diatom  Preliminary examination of Semen  Identification of species (precipitin test)  Confirmatory examination of saliva  Confirmatory tests for Semen  Tools for Assessment (30 Marks)  Analytical Skill Performance  Instructional Hours / Week : 4  Inst	CO 4	and 1	packing of	acking of toxicological samples. Video Lessons							ractical
Course Content  S. No.  Experiment  Analysis and comparison of human and animal hair.  Blood grouping of fresh blood stains.  Presumptive test for blood stains.  Microcrystal tests for dried blood stains.  Microscopic analysis of diatom  Preliminary examination of saliva  Preliminary examination of Semen  Identification of species (precipitin test)  Confirmatory examination of saliva  Confirmatory tests for Semen  TOTAL 60 Hours  Analytical Skill Performance  Inference Test I Test II Observation Total		drug	s and pest	icides.	and exa	mination	of			P	ractical
S. No.  Analysis and comparison of human and animal hair.  Blood grouping of fresh blood stains.  Presumptive test for blood stains.  Microcrystal tests for dried blood stains.  Microscopic analysis of diatom  Preliminary examination of saliva  Preliminary examination of Semen  Identification of species (precipitin test)  Confirmatory examination of saliva  Confirmatory tests for Semen  TOTAL 60 Hours  Tools for Assessment (30 Marks)  Analytical Skill Lab Performance Inference Test I Test II Observation Total				Science							
1 Analysis and comparison of human and animal hair. 2 Blood grouping of fresh blood stains. 3 Presumptive test for blood stains. 4 Microcrystal tests for dried blood stains. 5 Microscopic analysis of diatom 6 Preliminary examination of saliva 7 Preliminary examination of Semen 8 Identification of species (precipitin test) 9 Confirmatory examination of saliva 10 Confirmatory tests for Semen  TOTAL 60 Hours  Tools for Assessment (30 Marks)  Analytical Skill Performance Inference Test I Test II Observation Total			ent						struction	nal Hour	rs / Week : 4
2 Blood grouping of fresh blood stains. 3 Presumptive test for blood stains. 4 Microcrystal tests for dried blood stains. 5 Microscopic analysis of diatom 6 Preliminary examination of saliva 7 Preliminary examination of Semen 8 Identification of species (precipitin test) 9 Confirmatory examination of saliva 10 Confirmatory tests for Semen  TOTAL 60 Hour  Tools for Assessment (30 Marks)  Analytical Skill Performance Inference Test I Test II Observation Total					•						
3 Presumptive test for blood stains.  4 Microcrystal tests for dried blood stains.  5 Microscopic analysis of diatom  6 Preliminary examination of saliva  7 Preliminary examination of Semen  8 Identification of species (precipitin test)  9 Confirmatory examination of saliva  10 Confirmatory tests for Semen  TOTAL 60 Hours  Tools for Assessment (30 Marks)  Analytical Skill Performance Inference Test I Test II Observation Total								ınımal hair.			
4 Microcrystal tests for dried blood stains.  5 Microscopic analysis of diatom  6 Preliminary examination of saliva  7 Preliminary examination of Semen  8 Identification of species (precipitin test)  9 Confirmatory examination of saliva  10 Confirmatory tests for Semen  TOTAL 60 Hours  Tools for Assessment (30 Marks)  Analytical Skill Performance Inference Test I Test II Observation Total				1 0			S.				
5 Microscopic analysis of diatom 6 Preliminary examination of saliva 7 Preliminary examination of Semen 8 Identification of species (precipitin test) 9 Confirmatory examination of saliva 10 Confirmatory tests for Semen  TOTAL 60 Hours  Tools for Assessment (30 Marks)  Analytical Skill Performance Inference Test I Test II Observation Total	3		Presumpt	ive test for	blood s	stains.					
6 Preliminary examination of saliva 7 Preliminary examination of Semen 8 Identification of species (precipitin test) 9 Confirmatory examination of saliva 10 Confirmatory tests for Semen  TOTAL 60 Hours  Tools for Assessment (30 Marks)  Analytical Skill Performance Inference Test I Test II Observation Total	4		Microcrys	stal tests fo	or dried	blood sta	ains.				
7 Preliminary examination of Semen  8 Identification of species (precipitin test)  9 Confirmatory examination of saliva  10 Confirmatory tests for Semen  TOTAL 60 Hours  Tools for Assessment (30 Marks)  Analytical Skill Performance Inference Test I Test II Observation Total	5		Microsco	pic analysi	s of dia	tom					
8 Identification of species (precipitin test) 9 Confirmatory examination of saliva 10 Confirmatory tests for Semen  TOTAL 60 Hours  Tools for Assessment (30 Marks)  Analytical Skill Performance Inference Test I Test II Observation Total	6	T	Prelimina	ry examina	ation of	saliva					
9 Confirmatory examination of saliva  10 Confirmatory tests for Semen  TOTAL 60 Hours  Tools for Assessment (30 Marks)  Analytical Skill Performance Inference Test I Test II Observation Total	7		Prelimina	ry examina	ation of	Semen					
10 Confirmatory tests for Semen  TOTAL 60 Hours  Tools for Assessment (30 Marks)  Analytical Skill Performance Inference Test I Test II Observation Total	8		Identifica	tion of spe	cies (pr	ecipitin t	test)				
TOTAL 60 Hours  Tools for Assessment (30 Marks)  Analytical Skill Performance Inference Test I Test II Observation Total	9		Confirma	tory exami	ination (	of saliva					
Tools for Assessment (30 Marks)  Analytical Skill Lab Performance Inference Test I Test II Observation Total	10		Confirma	tory tests f	or Seme	en					
Analytical Skill Lab Performance Inference Test I Test II Observation Total										TOTA	L 60 Hours
Skill Performance Inference Test I Test II Observation Total				To	ols for	Assessm	nent	(30 Marks)			
				ance Info	erence	Test	Ι	Test II	Obser	vation	Total
	4		4		4	7		7	4	4	30

	Mapping												
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	Н	Н	Н	Н	M	-	M	L	-	Н	Н	L	-
CO2	Н	Н	Н	Н	M	-	M	L	-	Н	Н	L	-
CO3	Н	Н	Н	Н	M	-	M	L	-	Н	Н	L	-
CO4	Н	Н	Н	Н	M	-	M	L	-	Н	Н	L	-
CO5	Н	Н	Н	Н	M	-	M	L	-	Н	Н	L	-

Course designed by	Verified by Chairman
Ms. Archana Sunil	Mr. Akhil Benny

Course	Code			Title					
23U3FI	RE501		Discipline Specific Elective	ve Paper : I (A) – Due I Prevention	Diligence and	Loss			
Semeste	r:V		Credits: 4	CIA: 25 Marks	ESE: 75 M				
Course	Objecti	Due diligence is next level forensic science in which the course has an objective of training forensic scientists in preventing potential crimes.							
Course	Categor	<b>·y</b>	Employability						
Develop	ment N	eeds	Global						
Course 1	Descrip	tion	e looks forward to technic	=	_				
Course	Outcom	ies		<b>Teaching Methods</b>	Assessme	ent Methods			
CO 1	diligen	ice	e concept of legal due	Lecture/Demonstration	n Assi	gnment			
CO 2	Due D	iligen		Lecture/ Case studies	Case	estudies			
CO 3	operati		knowledge about the Due diligence	Lecture/Demonstration	Lecture/Demonstration Se				
CO 4	Unders Assess	ment	(	Quiz					
CO 5	Acquii in Los		n Assi	gnment					
Offered by Forensic Science									
Course	Content	t L		Instruct	ional Hours	/ Week : 5			
Unit			Description		Text Book	Chapters			
I	Due Di	ligenc ce Bes	e Process and Best Practice Process, Steps, Team State Practices and Lessons Le	tructure and Roles, Due	1 1	1			
				Instruct	ional Hours	15			
			Methods: PowerPoint pre	sentation					
II	Financia	al Stat	e Diligence tements Analysis, Cash Flo	-	1	2			
	and For	ecasts	, Valuation Methods, Key I			15			
Cucast	od I so	nir a l	Mothoda Library sytem		ional Hours	15			
			Methods: Library extra r Due Diligence	eading					
ш	Busines Custom	s Moe er Ba	del and Strategy, Industry se and Revenue Streams, C n Resources and Manageme	Operations and Supply	1	3			
					ional Hours	15			
C4	ad I aar	ning ]	Methods: Video lectures						

	ESG A	nalysi	is and l	Risk A	ssessi	nent							
	Enviro	nment	al Impa	ect Ass	sessme	ent, So	cial ar	nd Con	nmunity	Impact			
IV	Assess	ment,	Gover	nance	and E	thics A	Assess	sment,	Due Di	ligence	1		4
	Report	Struc	ture ar	nd Co	ntent,	Risk A	ssess	ment a	nd Mitig	gation			
	Strateg	gies, Di	ue Dilig	gence (	Check	list and	l Tem	plates.					
									Inst	truction	al Hou	rs	15
Suggest	Suggested Learning Methods: Library extra reading												
2 2 88 2 2	Investigations in Loss Prevention												
		asic questions of investigation, Types of Investigations,											
$\mathbf{V}$		nformation sources, Investigation and Auditing, Investigative									5		
					_			_					
	Leads. Loss Prevention services and speculations.  Instructional Hours							rc	15				
Suggest	ea I ha	rning	Matha	de. Do	worP	nint nr	ocont	ation	11150	ii uction	ai iiou		10
Suggest	eu Lea	ı illing	MEHIO	us. 1 u	WEIT	յու իւ	esciit	auon		Т-4	-1 TT		75
										100	al Hou	rs	75
Text Bo	Text Books  1. Notes Compiled by the Department of Forensic Science, Nehru												
	Arts and Science College, Coimbatore.												
	1. Due Diligence: An M&A Value Creation Approach by William J.												
	Gole and Paul J. Hilger												
Referen	ice Boo	ks	2.				_	•	Barbara		_	1	
			3.		_				rporate ( anning b				
										y LCO I	. Danoi	I	
								(25 M					
CIA	I	CI	A II	Cl	A III	As	signn	nent	Semina	ar (	Quiz	To	tal
5			5		6		3		3		3	2	5
						Ma	pping						
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7			PSO2	PSO3		
CO1	L	Н	L	L	-	Н	Н	Н	M	M	L	L	L
CO2	L H	H H	H H	-	-	H H	H M	H	H	H H	L L	L L	L L
CO3	Н	M	L	-	-	М	Н	Н	Н	M	L	L	L
CO5	Н	L	L	-	_	M	M	Н	M	M	L	L	L
H-High				l	l	l	1		1	<u>I</u>		<u>I</u>	l
			e desig		V				Verif	ied hy (	hairm	an	
		Cours	ucsig.	neu n	7			Verified by Chairman					
Mr. Akł	il Benn	ıy					1	Mr. Akhil Benny					
I	<u>-</u>							Title I Initial Donney					

Course	e Code Title									
23U3FR	RE502 I	Discipline Specific Elective I	Paper : I (B) – Advance	ed Digital F	orensic					
Semeste	r : V	Credits : 4	CIA: 25 Marks	ESE: 75 N	Marks					
Course (	Objective	investigation	n and laws							
Course (	Category	Skill Development								
Develop	ment Needs	Global								
Course l	Description	Cyber forensic Science is ar is designed to introduce the specialize in the cyber foren	e concepts to any forens							
Course	Outcomes		Teaching Methods	Assessme	ent Methods					
CO 1	Recognize computers a	terminologies related to and cyber security.	Lecture/Demonstration	Assi	gnment					
CO 2	Have an cybercrimes	overall view of various	Lecture/ Case studies	Case	estudies					
CO 3		asic idea about the tools and in the field of cybercrime n.	Lecture/Demonstration	Se Se	minar					
CO 4	Legal frame investigation	ework in which cybercrime n is done.	Lecture/Video lecture	(	Quiz					
CO 5		ole and functions of various investigation tools.	Lecture/Demonstration	Assi	gnment					
Offered	•	ic Science								
Course	Content		Instructi	ional Hours	/ Week : 5					
Unit		Description		Text Book	Chapters					
I	Introduction and Topology Historical development, Classification of cybercrime – Conventional crime vs. cybercrime, Causes for cybercrime, Trends in cybercrime worldwide. Hacking, cracking, DoS, Viruses, worms, malwares, bombs, email bombing, data diddling, salami attacks, phishing, steganography, cyber stalking, spoofing, pornography, defamation, computer vandalism, cyber terrorism, cyber warfare, crime in social media, social engineering, credit card frauds and financial frauds, telecom frauds, Cloud based crime, Understanding fraudulent behaviour, fraud triangle, fraud detection techniques, Intellectual Property Rights, Violation of									
-	Intellectual Property Rights, E-commerce frauds.  Instructional Hours 15									
Suggeste	ed Learning	Methods: PowerPoint prese		onai muuts	13					

2023

	Cyber Crimes		
п	Introduction to Computer Crime, Characteristics of Computer Crime, Classification of computer crimes. Introduction to cyber crimes and their classification, Hacking and Cyber Laundering, Spamming, Obscenity and Pornography, Programme Manipulation, Cyber stalking and web jacking, Phishing and Spoofing, DOS and DDOS Attacks, Intellectual, Property Crimes & Computer Security. Introduction to Cyber forensic, Malware and their types, Types of viruses and worms, Super zapping and trap doors, Identity Theft Frauds, Cyber Criminals & Their Targets, Modus operandi of cyber criminal.	1	2
	Instructio	nal Hours	15
Sugges	ted Learning Methods: Library extra reading		
Ш	Evidence Collection  Cardinal rules of cyber forensic, Imaging of Hard disk and other media, Password Cracking, E-Mail Investigation, Encryption and decryption methods, Restoration of Deleted File, Tools for Cyber Forensic Analysis, Digital crime scene investigation, Cyber Forensic Workstation, Legal Perspective of Digital Evidences.	$\begin{bmatrix} 1 & 1 \end{bmatrix}$	3
	Instructio	nal Hours	15
Sugges	ted Learning Methods: Video lectures		
IV	Cyber crime investigation  Cyber/digital forensics, Cyber forensics life cycle, Chain of custody Search, seizure and preservation of digital evidence, Cyber forensic tools, Cloud forensics, Data privacy issues, Cryptography, Cyber forensic divisions in State and Central Governments, Cybercrime cells, Cyber appellate authorities.		4
	Instructio	nal Hours	15
Sugges	ted Learning Methods: Library extra reading		
V	Cyber laws in India  Information Technology (amended) Act, 2008 – Indian Evidence Act, 1872 – Digital evidence – Cyber laws across the globe – UNCITRAL – Jurisdiction issues Unit V: Cybercrime and Countermeasures Information security – Best information security practices in India and other countries – E-mail security – Web application security, malware security, network security, cloud security and wireless security.	1 5	5
		nal Hours	15
Sugges	ted Learning Methods: PowerPoint presentation		
		otal Hours	75

Text Boo	oks		2.			-	•	-	nent of mbatore		c Scienc	ce, Neh	ru
Reference	ce Boo	ks	<ol> <li>Colarik, A. &amp; Janczewski, L. (2011). Cyber Warfare and Cyber Terrorism. Springer.</li> <li>Fadia, A. (2005). The Unofficial Guide to Ethical Hacking. Course Technology.</li> <li>Erickson, J. (2008). Hacking: The Art of Exploitation, 2nd Edition. No Starch Press.</li> </ol>								oer		
Web. UI	RLs	<ol> <li>https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/Forensi c_Science/16Digital_forensics/10Introduction_to_cyber_crime s_and_their_classification/et/6311_et_6311_et_et.pdf</li> <li>https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/forensi c_science/16digital_forensics/26cardinal_rules_of_cyber_fore nsic/et/6316_et_6316_et_et.pdf</li> <li>Tools for Assessment (25 Marks)</li> </ol>											
CIA	T	CL	A II		A III		signm	`	Semina	ar (	Quiz	To	tal
5	_		5		6	120	3		3		3		5
						Ma	pping						
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	L	Н	L	L	L	Н	Н	-	M	M	L	L	L
CO2	L	Н	Н	Н	M	Н	Н	-	Н	Н	L	L	L
CO3	Н	Н	Н	Н	M	Н	M	-	Н	Н	L	L	L
CO4	Н	M	L	Н	Н	M	Н	-	Н	M	L	L	L
CO5	Н	L	L	M	M	M	M	-	M	M	L	L	L
H-High;	M-Me	dium; l	L-Low										
		Course	e desig	ned by	y				Veri	fied by	Chairn	nan	
<u> </u>						М	Mr. Akhil Benny						

Course	Code			Title					
23U3F	RE503		Discipline Specific Electi	ve Paper : I (C) - Fore	ensic Psycho	logy			
Semest	ter : V		Credits: 4	CIA: 25 Marks	ESE: 75	ESE : 75 Marks			
Course	Objecti	ve	social, emotional and conte	extual components and	behavior, in terms of its biological, cognitive, ual components and their interaction, and to s implications in forensic settings.				
Course	Categor	·y	Skill Development						
Develop	ment N	eeds	Global						
Course	Forensic Psychology is the application of psychology in the aid of le investigation. Forensic psychology looks into the vast psycholog perspectives and applies them to legal investigations including issues s as public policies, new laws, competency, and also the mental state of defendant.								
Course	Outcom	ies		Teaching Methods	Assessm	ent Methods			
CO 1		ology	nd the basic concepts of suitable for forensic science s	Lecture/Demonstration	on Ass	ignment			
CO 2	Unders		the concepts of Normality	Lecture/Demonstration	on Case	e studies			
CO 3		ologic	owledge about various al disorders	Lecture/Video lecture	e Se	eminar			
CO 4	Psycho	pathy	·	Lecture/ Case studies	(	Quiz			
CO 5			out Criminal profiling and ninal profiling methods.	Lecture/Demonstration	on Ass	Assignment			
Offered	by Fo	rensi	c Science						
Course	Content	t		Instruct	ional Hours	/ Week: 5			
Unit			Description		Text Book	Chapters			
I	Forensic Psychology  Definition and sub-specializations of forensic psychology, History of Forensic Psychology, Ethical Issues in forensic psychology, Relationship between psychology and law and Relationship of forensic psychology with criminology and criminal psychology Scope and future of forensic psychology, Mac Naughten rule, Insanity in Indian penal code (IPC 84): Legal insanity and medical insanity.								
G		•			ional Hours	15			
Suggest	ed Lear	ning	Methods: Library extra rea	ding					

	NY 100 1 A 1 100		
	Normality and Abnormality The concept of normality and abnormality, Historical view of		
	abnormal behaviour, Abnormal behaviour: Current status and		
	classification systems- ICD and DSM- Merits and demerits of		
	· · · · · · · · · · · · · · · · · · ·		
	classification- Causes and risk factors, biological viewpoints,	1	
II	Psycho-social viewpoints: Major perspectives, Socio-cultural	1	2
	viewpoint, Alcohol abuse and dependence, Clinical picture and		
	Causal factors, Drug abuse and dependence, Opium and its		
	derivatives, Barbiturates, Amphetamines, Cocaine,		
	Hallucinogens, Marijuana, Caffeine and nicotine, Factors		
	affecting drug abuse.		
C		nal Hours	15
Sugges	sted Learning Methods: Library extra reading  Psychological Disorder		
	Mood disorders: Mania and depression, Unipolar and bipola	r	
	disorders, Causal factors in mood disorders: Biological		
	Psychological, and Socio-cultural factors, Anxiety disorders, Phobia		
	disorders, Panic disorder and agoraphobia, Generalised Anxiety		
	Disorder and Obsessive Compulsive Disorder, Personality		
	_		
	disorders: Clinical features of personality disorders, Types o		
	Personality disorders, Paranoid, Schizoid, Schizo-typal, Histrionic		
III	Narcissistic, Antisocial, Borderline, Avoidant, Dependent	_	3
	Obsessive-compulsive, Passive-aggressive and Depressive		
	personality disorder, Causal factors in personality disorders		
	Biological, Psychological and Socio-cultural, Schizophrenia and		
	delusional disorder, The clinical picture in schizophrenia, Subtypes		
	of schizophrenia-Paranoid, Catatonic, Disorganised, Residual and		
	undifferentiated type, Causal factors in Schizophrenia, Biological		
	Psychological, and Socio-cultural factors, The clinical picture in	1	
	delusional disorder, Causal factors in delusional disorder.		
Cuggo		nal Hours	15
Sugges	sted Learning Methods: Case studies  Psychopathy and Sociopathy		
	Eyewitness testimony: its importance and significance, Violence		
	and aggression: biological factors, psychological factors and socia		
	factors, Childhood disorders and criminality, The Crimina		
IV	Psychopath-general behavioural characteristics of psychopaths		4
"	difference between psychopath and sociopath, Antisocia		7
	Personality Disorder and Psychopath and Offending patterns o		
	criminal psychopaths, Criminal Homicide, Multiple Murder, Serial		
	Killers, Mass Murders.	-	
		nal Hours	15
Sugges	sted Learning Methods: Video lectures		

	Crimi												
V	Inductive and Deductive approaches and criminal profiling methods. Polygraph: instrument and its parameters, scientific based and techniques: relevant-irrelevant techniques, CQT, Card techniques approaches are levant-irrelevant techniques, CQT, Card techniques, BEOS: introduction to BEOS instrument Procedure, suspect interview, designing of probes-audio amp; amp; visual, recording and its analysis, Narco Analysis: History and Procedure and its forensic importance.									ic basis ard test rument, dio &	1		5
									Inst	truction	nal Hou	rs	15
Suggest	ed Lea	rning	Metho	ds: Vi	deo le	ctures							
- 88		8								To	tal Hou	rs	75
Text Bo	Text Books  1. Notes compiled by the department of foren and Science College Coimbatore.								orensic s	science,	Nehru	Arts	
Referen	1. Alloy, L.B., Riskind, J.H., Manos, M.J. – Abnormal Psychology- Current Perspectives,9 th Edition(2005), Tata Mc graw –Hill.  2. Bartol, C.R & amp;amp; Bartol, A.M. (2008).Introduction to Forensic Psychology:  3. Research and Application.USA: SAGE publications.  4. Carson, R.C., Butcher, J.N. & Dineka, S. (2000). Abnormal Psychology and  5. Modern Life. (11th Ed). New York: Alleyn & amp;amp; Bacon.  1. https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=eCJfy23Kjy 3c0vICLa6VYg==								to  ).  on.				
				Too	ols for	Assess	sment (	(25 M	(arks				
CIA	I	CL	A II	Cl	A III	As	ssignm	ent	Semina	ar	Quiz	To	tal
5			5		6		3		3		3	2	5
		l				Ma	pping	<u> </u>		ı			
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6		PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	Н	Н	L	M	Н	-	M	-	-	M	Н	Н	-
CO2	Н	M	L	L	Н	-	M	-		M	Н	Н	
CO3	Н	Н	L	L	Н	-	M	-	-	M	Н	Н	-
CO4	Н	M	L	L	M	-	M	-	-	M	Н	Н	-
CO5	Н	Н	L	L	Н	-	-	-	M	Н	Н	Н	-
H-High:	M-Me	dium;	L-Low										
	(	Course	design	ned by	7				Veri	fied by	Chairn	nan	
Ms. Arc	Ms. Archana Sunil  Mr.						Akh	il Benny					

**Instructional Hours: 3 Hrs** 

Cou	Course Code Title								
23U4	4FRT503	Skill l	Skill Based Paper – Internship						
Sem	ester : V	Credits: 3	CIA :	: 30 Marks	ES	SE : 45 Marks			
Course	Objective	The objective of this countries hands-on experience in the criminal justice administra	worki						
Course	se Category Skill Development								
Develop	pment Needs Employability								
Course Description  This course provides undergraduate students with an opportunity to with various agencies involved in the criminal justice system and go time experience. This will develop skills in critical thinking, labor skills, and effective communication.						system and get real			
Course	Outcomes			Teaching Met	hods	Assessment Methods			
CO 1		and the functions of var s involved in criminal jus on.		Hands-on tra	ining	Review			
CO 2	•	administration and activitie agencies in the field of fore		Hands-on tra	ining	Review			
CO 3	Understand various field	the scope of Forensic Sciences.	ce in	Hands-on tra	ining	Review			
CO 4		skillset require for a fore ork in the industry.	ensic	Hands-on training Review					
CO 5	Create know	ledge and give it to the socie	ety.	Hands-on tra	ining	Review			
Offered	by Forensi	c Science			<b>'</b>				

# List of activities student must indulge in

The students must undergo a 15-day internship in various labs/police station/ advocate office/court/ prison/ related industries to expose to the various agencies and their functioning

# **Details of the evaluation procedure:**

- (i) Student must complete all 15 days of internship work and produce certificate issued by the respective agency for proof.
- (ii) A report comprise of the daily activities done by the student should be submitted within the stipulated time.
- (iii) During the end semester examination, the evaluation will be done by a panel of examiners, including internal examiners.
- (iv) A public viva voce, where the I, & II Year students will be the audience

Tools for Assessment CIA (30 Marks)							
Review - I	Review - II	Review - III	Document Preparation & Implementation	Total			
7	7	7	9	30			

ESE (45 Marks)							
Record Work and Presentation	Viva voce						
30	15						

	Mapping												
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	Н	M	M	L	Н	M	M	M	Н	Н	Н	Н	M
CO2	Н	Н	M	M	Н	M	M	M	Н	Н	Н	M	Н
CO3	Н	Н	M	Н	Н	M	M	M	M	Н	Н	M	M
CO4	Н	Н	Н	M	Н	L	Н	Н	Н	M	Н	Н	M
CO5	Н	Н	M	Н	M	Н	M	M	Н	Н	M	Н	Н

Course designed by	Verified by Chairman
Mr. Akhil Benny	Mr. Akhil Benny

Cour	rse Code Title								
23U3	FRC617		Core Paper X	VII - Forensic Toxicolo	ogy				
Seme	ster : VI		Credits: 4	ESE:	75 Marks				
Course Objective			Develop knowledge and sk samples	ensic toxi	nsic toxicological				
Cours	e Categor	y	Employability						
Develo	opment No								
Course Description			Toxicology is the study of Toxicology deals with the analysis of body samples for	identification of cause		•			
Cours	rse Outcomes Teaching Methods					nent Methods			
CO 1	Know the inside be		gical action of various toxins	Lecture/Demonstration	As	ssignment			
CO 2			late toxins.	Lecture/ Case studies	Ca	ase studies			
CO 3			d in toxicology related cases.	Lecture/Demonstration		Seminar			
CO 4	evidence	es.	and preserve toxicological	Lecture/Video lecture	Quiz				
CO 5	CO 5 Study the metabolism and extraction of common poisons in the body Lecture/Demonstration					Assignment			
Offere	Offered by Forensic Science								
Cours	Course Content Instructional Hours / Week : 5								
Unit			Description		Text Book	Chapters			
Unit	Forensic significar classifica chemical and symp	toxico nce or tion on nature, otoms o	Forensic Toxicology  plogy: Introduction, Role f toxicological findings- the basis of their origin, p types of poisoning- Modes of poisoning, its effect on	Poisons, definition, hysiological action and of administration- Signs vital functions- Medico		Chapters 11			
	Forensic significar classifica chemical and symp	toxico nce or tion on nature, otoms o	Forensic Toxicology  plogy: Introduction, Role f toxicological findings- the basis of their origin, p types of poisoning- Modes	Poisons, definition, hysiological action and of administration- Signs vital functions- Medico	Book  1	-			
I	Forensic significar classifica chemical and symplegal and	toxiconce or tion on nature, otoms of post-m	Forensic Toxicology  clogy: Introduction, Role  f toxicological findings-  the basis of their origin, p  types of poisoning- Modes  of poisoning, its effect on  cortem findings and report w  tethods: Library extra read	Poisons, definition, hysiological action and of administration- Signs vital functions- Medico citing.  Instructiona	Book  1	11			
I	Forensic significar classifica chemical and symplegal and symplegal and sted Learn Drugs and Drugs: de Common names, minstrumer	toxiconce or tion on nature, otoms of post-menting Medits and its and	Forensic Toxicology  clogy: Introduction, Role  f toxicological findings-  the basis of their origin, p  types of poisoning- Modes  of poisoning, its effect on  cortem findings and report w  tethods: Library extra read	Poisons, definition, hysiological action and of administration- Signs vital functions- Medico riting.  Instructional ing  Ind forensic importance- etions, symptoms, street of drugs: chemical and malysis- Importance of	Book  1	11			
Sugge	Forensic significar classifica chemical and symplegal and sted Learn Drugs and Drugs: de Common names, minstrumer physical a	toxiconce or tion on nature, otoms or post-menting Mad its are efinitionally consumethods in tal. Spand biodesical.	Forensic Toxicology  cology: Introduction, Role  f toxicological findings-  the basis of their origin, p  types of poisoning- Modes  of poisoning, its effect on  cortem findings and report w  fethods: Library extra read  ctions  n, classification and scope a  umed drugs, their mode of a  of consumption- Analysis  cot tests and qualitative a	Poisons, definition, hysiological action and of administration- Signs vital functions- Medico riting.  Instructional ing  Ind forensic importance- etions, symptoms, street of drugs: chemical and malysis- Importance of	1 Hours	11			

Text	Books	Toxico	ology, 13 <sup>th</sup> edition	ntroduction to Forei	nsic Medi									
Text	Books	1. Naraya	ana Reddy K.S, I											
1 Narayana Reddy K.S. Introduction to Forensic Medicine and														
Sugg	ested Learning I	Methods: Hands	s on training	Tota	LILouwa	Suggested Learning Methods: Hands on training								
~				Instructiona	l Hours	15								
toxicological cases.														
				Report writing in		25								
V		=		s types of poisons:	1									
	symptoms of o													
			•	ospital: Signs and										
Sugg	Suggested Learning Methods: Video lectures  Collection of Evidences and Report Writing													
				Instructiona	l Hours	15								
	pharmacokinet	ics and bio analyt	tical techniques.											
	metabolism	n and clinical												
IV		-	Ţ	metabolism, drug	1	17								
	Forensic phar	macology: defi	inition, introduc	tion- Absorption,										
88		o Pharmacology	<b>.</b>											
Suggested Learning Methods: Laboratory practice														
	poisons, shake	venom, mseet on		Instructiona	l Hours	15								
	_	venom, insect bit	_	mation of metanic										
		_		ination of metallic										
Ш			ques. Application of chromatography for the vison and drugs. Spectrophotometric techniques for											
	·		1 1	conventional and										
	<b>.</b>	ollection and An	-											

	Mapping												
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	M	M	Н	Н	L	M	-	-	-	Н	Н	-	-
CO2	M	Н	Н	Н	L	L	M	-	-	Н	Н	-	L
CO3	Н	M	M	L	L	L	-	L	-	Н	Н	-	M
CO4	M	Н	Н	Н	L	-	M	ı	1	Н	Н	-	-
CO5	M	Н	Н	Н	L	M	ı	-	1	Н	Н	-	ı

Course designed by	Verified by Chairman
Ms. Archana Sunil	Mr. Akhil Benny

Course	Code				Title				
23U3FI	RP618	3	Core	Paper XVII	I - Toxicolog	y Practical			
Semeste	er : V	I	Credits: 3	CL	4 : 30 Marks	ESE:	45 Marks		
Course	Objec	ctive	toxicological exa		oks for the presence of drugs and/or poisons				
Course	Categ	gory	Employability						
Develop	ment	Needs	Global						
Course	Descr	ription	Course is structuas it applies to, a	•			•		
Course	Outco	omes			Teaching M	ethods Asse	ssment Methods		
CO 1			nup procedures of		Demonstrat Video Lesso		Practical		
CO 2	Lear		xamination of et	hanol and	Demonstrat		Practical		
CO 3			llation of alcoholi		Demonstrat Video Lesso	ons	Practical		
CO 4	and p	packing o	ematic methods of f toxicological san	nples.	Demonstrat Video Less	Practical			
CO 5	drug	s and pest		mination of	Demonstrat Video Lesso		Practical		
	Offered by Forensic Science								
Course	Conte	ent			In	structional Ho	ours / Week : 4		
S. No	•			Expe	eriment				
1		Clean up	procedure for visc	era					
2	-	Test for e	thanol and methar	nol					
3	١	TLC exar	nination of pestici	des					
4		Preparation	on of different mol	bile phases ar	nd spraying re	aying reagents			
5		Examinat	ion of plant poisor	ns					
6		Collection	n and packing of to	oxicological s	samples.				
7		Extraction	n of drugs and pois	sons from dif	ferent matrice	es.			
8		Distillatio	on of alcoholic dri	nks.					
9		Preparation	on of TLC plates.						
10	1	TLC exar	nination of drugs						
						TO	ΓAL 60 Hours		
			Tools for	Assessment	(30 Marks)				
Analytical Skill Lab Performanc Inference Test I					Test II	Observation	Total		
	6 e 4 4 7								

						N	<b>Aapping</b>						
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	Н	Н	Н	Н	M	-	M	L	-	Н	Н	L	-
CO2	Н	Н	Н	Н	M	-	M	L	-	Н	Н	L	-
CO3	Н	Н	Н	Н	M	-	M	L	-	Н	Н	L	-
CO4	Н	Н	Н	Н	M	-	M	L	-	Н	Н	L	-
CO5	Н	Н	Н	Н	M	-	M	L	-	Н	Н	L	-

Course designed by	Verified by Chairman
Ms. Archana Sunil	Mr. Akhil Benny

Course	Code			T	itle :			
23U3FI	RV619		Core Paper 2	XIX - I	Project and V	iva voc	ee	
Semeste	er : VI		Credits: 3	: 30 Marks	ESE: 45 Marks			
Course Objective			The objective of this course is to provide undergraduate students with hands-on experience in conducting research projects, with a focus on developing skills in problem-solving, critical analysis, data collection, and effective communication.					
Course	Categor	y	Skill Development					
Development Employability								
Course Description			This course provides undergraduate students with an opportunity to design, plan, and execute a research project in their field of study, developing skills in critical thinking, data analysis, and effective communication.					
Course	Outcom	ies			Teaching Me	thods	Assessment Methods	
CO 1	Explain Forens		basic concepts of researcence	ch in	Classroom		Review	
CO 2	Write e	extens	ively about a particular topic	c.	Practical Tra	aining	Review	
CO 3	Analys	e liter	ature, collect data and interp	oret it	Reading rev articles	iew	Review	
CO 4	Choose		roblem and conduct a scie.	ntific	Laboratory/ Survey	ry/ Review		
CO 5	Create	know	ledge and give it to the socie	ety.	Research paper writing Review			
Offered	by Fo	rensi	c Science					

# List of activities student must indulge in

**Instructional Hours / Week: 6** 

The students, under the guidance of a teacher shall take up a project on any relevant topic related to Forensic Science.

# **Details of the evaluation procedure:**

- (i) Each student will work on a topic/area of interest and conduct a micro level quantitative or qualitative study as their project work
- (ii) The student has to submit a project report and should appear for a public viva voce before a panel of internal and external examiners
- (iii) The project report will be evaluated at two levels- continuous assessment and end semester examination.
- (iv) A public viva voce.

# **Project Guidelines**

# ARRANGEMENT OF CONTENTS:

The sequence in which the project report material should be arranged and bound is as follows:

- 1. Cover Page & Title Page
- 2. Table of Contents
- 3. List of Tables
- 4. List of Figures
- 5. List of Symbols, Abbreviations
- 6. Chapters
- 7. References
- 8. Appendices The table and figures shall be introduced in the appropriate places

	Tools for Assessment CIA (30 Marks)							
Review - I	Review - II	Review - III	Document Preparation & Implementation	Total				
7	7	7 7 9 30						

ESE (45 Marks)							
Record Work and Presentation	Viva Voce						
30	15						

	Mapping														
CO \ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO 5		
CO1	Н	M	-	L	M	Н	L	M	M	L	Н	M	L		
CO2	Н	L	L	M	L	Н	M	M	L	Н	Н	M	L		
CO3	Н	M	-	Н	M	Н	Н	L	M	Н	Н	M	L		
CO4	Н	Н	Н	M	Н	Н	Н	M	L	M	Н	M	L		
CO5	M	M	M	Н	L	Н	M	L	L	Н	M	M	L		

Course designed by	Verified by Chairman
Mr. Akhil Benny	Mr. Akhil Benny

Cou	rse Code		Title						
		Discipline Specific Elective	Paper : II (A) – Anti M KYC	Ioney Laund	lering and				
Semes	ter : VI	Credits: 4	CIA: 25 Marks	ESE: 75 N	Marks				
Course	Objective	To educate students on Laundering (AML) and Kn them to recognize and preve with regulatory requirement	ow Your Customer (KY ent financial crimes effe	C) regulation	s, enabling				
Course	Category	Employability							
Develop	ment Needs	Global							
Course	Description	This course covers Anti Customer (KYC) basics. protect your business from	Students understand the	e rules, spot					
Course	Outcomes		<b>Teaching Methods</b>		essment ethods				
CO 1		ney Laundering Methods	Lecture/Demonstration	Assi	gnment				
CO 2	Understand Internation	d AML Legislation and al Cooperation	Lecture/Demonstration	Se	minar				
CO 3	Know about Financial Intelligence Lecture/ tutorial Quiz  Acquire knowledge on Regulatory  Acquire knowledge on Regulatory								
CO 4	Bodies and Guidelines Lecture/ Video lecture Assignment								
CO 5	Understand KYC (Know Your Customer) and Customer Risk Lecture/ Case studies Case study Management								
Offered	by Forens	sic Science							
Course	Content		Instruct	ional Hours	/ Week : 6				
Unit		Description		Text Book	Chapter s				
I	Money Lau Money Laur	Indering Methods Indering: Definition and Sindering on the Global Economethods and Techniques Used	ny, Financial Terrorism, in Money Laundering	1	1				
Suggest	ad Laarnina	Mothods: Powerpoint proc		ional Hours	18				
п	Suggested Learning Methods: Powerpoint presentation  AML Legislation and International Cooperation  Money Laundering Legislation in Different Countries  II International Cooperation Among Countries and International 1 2  Bodies, Global Efforts and Coordination for AML and CFT  Role of Financial Intelligence Units (FIUs)								
G ·	17 .	M. Al. J. Y'I		ional Hours	18				
		Methods: Library extra re							
Ш	(FATE), Mo	nittee on AML and KYC, Fina oney Laundering and Correst India - PMLA Objectives, Fir	ondent Banking - AM		3				
				ional Hours	18				
Suggest	ed Learning	Methods: Online training							

Regulatory Bodies and Guidelines   Basel Committee on AML and KYC, Financial Action Task, Force   IV (FATF) and Its Recommendations, AML Structure in India,   1   4   Prevention of Money Laundering Act (PMLA) Objectives, RBI   Guidelines, Key Agencies: FIU IND, ED, NIA, SFIO   Instructional Hours   18									
IV (FATF) and Its Recommendations, AML Structure in India, Prevention of Money Laundering Act (PMLA) Objectives, RBI Guidelines, Key Agencies: FIU IND, ED, NIA, SFIO									
Prevention of Money Laundering Act (PMLA) Objectives, RBI Guidelines, Key Agencies: FIU IND, ED, NIA, SFIO  Instructional Hours 18  Suggested Learning Methods: Video lectures  KYC (Know Your Customer) and Customer Risk Management Historical Overview of KYC and Regulatory Framework, Customer Acceptance Policy and Customer Identification Procedure, Risk Management in KYC, KYC for Different Types of Accounts and Customers, Monitoring Transactions and Reporting Obligations Under PML Act, Role of KYC in Fraud Control, Interconnectedness of KYC, AML, and CFT, Regulatory Coordination for AML, CFT, and KYC  Instructional Hours 18  Suggested Learning Methods: Case studies  Total Hours 90  Text Books  1. Notes Compiled by the department of Forensic Science, Nehru Arts and Science College Coimbatore  1. Minahan, T. P. (Year of publication). Anti-Money Laundering: What You Need to Know. Publisher.  2. Minahan, T. P. (Year of publication). Anti-Money Laundering Compliance Handbook: A Practical Hands-On Guide for Compliance Professionals. Publisher.  3. Morini, M., & Cherubini, U. (Year of publication). Understand and Managing Model Risk: A Practical Guide for Quants, Trad and Validators. Publisher.  4. Barnes, P. (Year of publication). Anti Money Laundering and Know Your Customer. Publisher.  Tools for Assessment (25 Marks)  CIA I CIA II CIA III Assignment Seminar Quiz Tota 5 5 5 6 3 3 3 3 3 25									
Guidelines, Key Agencies: FIU IND, ED, NIA, SFIO    Instructional Hours   18									
Instructional Hours   Suggested Learning Methods: Video lectures									
Suggested Learning Methods: Video lectures									
V									
Historical Overview of KYC and Regulatory Framework, Customer Acceptance Policy and Customer Identification Procedure, Risk Management in KYC, KYC for Different Types of Accounts and Customers, Monitoring Transactions and Reporting Obligations Under PML Act, Role of KYC in Fraud Control, Interconnectedness of KYC, AML, and CFT, Regulatory Coordination for AML, CFT, and KYC    Instructional Hours   18									
Acceptance Policy and Customer Identification Procedure, Risk Management in KYC, KYC for Different Types of Accounts and Customers, Monitoring Transactions and Reporting Obligations Under PML Act, Role of KYC in Fraud Control, Interconnectedness of KYC, AML, and CFT, Regulatory Coordination for AML, CFT, and KYC    Instructional Hours   18									
Management in KYC, KYC for Different Types of Accounts and Customers, Monitoring Transactions and Reporting Obligations Under PML Act, Role of KYC in Fraud Control, Interconnectedness of KYC, AML, and CFT, Regulatory Coordination for AML, CFT, and KYC   Instructional Hours   18									
Customers, Monitoring Transactions and Reporting Obligations Under PML Act, Role of KYC in Fraud Control, Interconnectedness of KYC, AML, and CFT, Regulatory Coordination for AML, CFT, and KYC  Instructional Hours  Suggested Learning Methods: Case studies  Total Hours  90  1. Notes Compiled by the department of Forensic Science, Nehru Arts and Science College Coimbatore  1. Minahan, T. P. (Year of publication). Anti-Money Laundering: What You Need to Know. Publisher.  2. Minahan, T. P. (Year of publication). Anti-Money Laundering Compliance Handbook: A Practical Hands-On Guide for Compliance Professionals. Publisher.  3. Morini, M., & Cherubini, U. (Year of publication). Understand and Managing Model Risk: A Practical Guide for Quants, Tradiand Validators. Publisher.  4. Barnes, P. (Year of publication). Anti Money Laundering and Know Your Customer. Publisher.  Tools for Assessment (25 Marks)  CIA I CIA III CIA III Assignment Seminar Quiz Tota 5 5 5 6 3 3 3 3 255									
Customers, Monitoring Transactions and Reporting Obligations Under PML Act, Role of KYC in Fraud Control, Interconnectedness of KYC, AML, and CFT, Regulatory Coordination for AML, CFT, and KYC  Instructional Hours  Suggested Learning Methods: Case studies  Total Hours  90  Text Books  1. Notes Compiled by the department of Forensic Science, Nehru Arts and Science College Coimbatore  1. Minahan, T. P. (Year of publication). Anti-Money Laundering: What You Need to Know. Publisher.  2. Minahan, T. P. (Year of publication). Anti-Money Laundering Compliance Handbook: A Practical Hands-On Guide for Compliance Professionals. Publisher.  3. Morini, M., & Cherubini, U. (Year of publication). Understand and Managing Model Risk: A Practical Guide for Quants, Tradiand Validators. Publisher.  4. Barnes, P. (Year of publication). Anti Money Laundering and Know Your Customer. Publisher.  Tools for Assessment (25 Marks)  CIA I CIA III CIA III Assignment Seminar Quiz Tota 5 5 5 6 3 3 3 3 255									
Under PML Act, Role of KYC in Fraud Control, Interconnectedness of KYC, AML, and CFT, Regulatory Coordination for AML, CFT, and KYC  Instructional Hours 18  Suggested Learning Methods: Case studies  Total Hours 90  1. Notes Compiled by the department of Forensic Science, Nehru Arts and Science College Coimbatore  1. Minahan, T. P. (Year of publication). Anti-Money Laundering: What You Need to Know. Publisher.  2. Minahan, T. P. (Year of publication). Anti-Money Laundering Compliance Handbook: A Practical Hands-On Guide for Compliance Professionals. Publisher.  3. Morini, M., & Cherubini, U. (Year of publication). Understand and Managing Model Risk: A Practical Guide for Quants, Tradiand Validators. Publisher.  4. Barnes, P. (Year of publication). Anti Money Laundering and Know Your Customer. Publisher.  Tools for Assessment (25 Marks)  CIA I CIA II CIA III Assignment Seminar Quiz Tota 5 5 5 6 6 3 3 3 3 3 255									
of KYC, AML, and CFT, Regulatory Coordination for AML, CFT, and KYC  Instructional Hours 18  Suggested Learning Methods: Case studies  Total Hours 90  1. Notes Compiled by the department of Forensic Science, Nehru Arts and Science College Coimbatore  1. Minahan, T. P. (Year of publication). Anti-Money Laundering: What You Need to Know. Publisher.  2. Minahan, T. P. (Year of publication). Anti-Money Laundering Compliance Handbook: A Practical Hands-On Guide for Compliance Professionals. Publisher.  3. Morini, M., & Cherubini, U. (Year of publication). Understand and Managing Model Risk: A Practical Guide for Quants, Tradiand Validators. Publisher.  4. Barnes, P. (Year of publication). Anti Money Laundering and Know Your Customer. Publisher.  Tools for Assessment (25 Marks)  CIA I CIA II CIA III Assignment Seminar Quiz Tota 5 5 5 6 3 3 3 3 3 255									
Instructional Hours   18   Suggested Learning Methods: Case studies   Total Hours   90   Text Books   1. Notes Compiled by the department of Forensic Science, Nehru Arts and Science College Coimbatore   1. Minahan, T. P. (Year of publication). Anti-Money Laundering: What You Need to Know. Publisher.   2. Minahan, T. P. (Year of publication). Anti-Money Laundering Compliance Handbook: A Practical Hands-On Guide for Compliance Professionals. Publisher.   3. Morini, M., & Cherubini, U. (Year of publication). Understand and Managing Model Risk: A Practical Guide for Quants, Tradand Validators. Publisher.   4. Barnes, P. (Year of publication). Anti Money Laundering and Know Your Customer. Publisher.   Tools for Assessment (25 Marks)   Tools for Assessment (25 Marks)   CIA II   CIA III   Assignment   Seminar   Quiz   Tota   5   5   6   3   3   3   3   25   5   6   5   6   5   5   6   3   3   3   3   25   5   6   5   6   5   5   6   5   5									
Text Books  1. Notes Compiled by the department of Forensic Science, Nehru Arts and Science College Coimbatore  1. Minahan, T. P. (Year of publication). Anti-Money Laundering: What You Need to Know. Publisher.  2. Minahan, T. P. (Year of publication). Anti-Money Laundering Compliance Handbook: A Practical Hands-On Guide for Compliance Professionals. Publisher.  3. Morini, M., & Cherubini, U. (Year of publication). Understand and Managing Model Risk: A Practical Guide for Quants, Tradand Validators. Publisher.  4. Barnes, P. (Year of publication). Anti Money Laundering and Know Your Customer. Publisher.  Tools for Assessment (25 Marks)  CIA I CIA II CIA III Assignment Seminar Quiz Tota 5 5 6 3 3 3 3 255									
Text Books  1. Notes Compiled by the department of Forensic Science, Nehru Arts and Science College Coimbatore  1. Minahan, T. P. (Year of publication). Anti-Money Laundering: What You Need to Know. Publisher.  2. Minahan, T. P. (Year of publication). Anti-Money Laundering Compliance Handbook: A Practical Hands-On Guide for Compliance Professionals. Publisher.  3. Morini, M., & Cherubini, U. (Year of publication). Understand and Managing Model Risk: A Practical Guide for Quants, Tradiand Validators. Publisher.  4. Barnes, P. (Year of publication). Anti Money Laundering and Know Your Customer. Publisher.  Tools for Assessment (25 Marks)  CIA II CIA III Assignment Seminar Quiz Tota 5 5 6 3 3 3 3 25									
1. Notes Compiled by the department of Forensic Science, Nehru Arts and Science College Coimbatore  1. Minahan, T. P. (Year of publication). Anti-Money Laundering: What You Need to Know. Publisher.  2. Minahan, T. P. (Year of publication). Anti-Money Laundering Compliance Handbook: A Practical Hands-On Guide for Compliance Professionals. Publisher.  3. Morini, M., & Cherubini, U. (Year of publication). Understand and Managing Model Risk: A Practical Guide for Quants, Tradand Validators. Publisher.  4. Barnes, P. (Year of publication). Anti Money Laundering and Know Your Customer. Publisher.  Tools for Assessment (25 Marks)  CIA II CIA III Assignment Seminar Quiz Tota 5 5 6 3 3 3 3 25									
Arts and Science College Coimbatore  1. Minahan, T. P. (Year of publication). Anti-Money Laundering: What You Need to Know. Publisher.  2. Minahan, T. P. (Year of publication). Anti-Money Laundering Compliance Handbook: A Practical Hands-On Guide for Compliance Professionals. Publisher.  3. Morini, M., & Cherubini, U. (Year of publication). Understand and Managing Model Risk: A Practical Guide for Quants, Tradand Validators. Publisher.  4. Barnes, P. (Year of publication). Anti Money Laundering and Know Your Customer. Publisher.  Tools for Assessment (25 Marks)  CIA I CIA II CIA III Assignment Seminar Quiz Tota 5 5 6 3 3 3 3 25									
Arts and Science College Coimbatore  1. Minahan, T. P. (Year of publication). Anti-Money Laundering: What You Need to Know. Publisher.  2. Minahan, T. P. (Year of publication). Anti-Money Laundering Compliance Handbook: A Practical Hands-On Guide for Compliance Professionals. Publisher.  3. Morini, M., & Cherubini, U. (Year of publication). Understand and Managing Model Risk: A Practical Guide for Quants, Tradand Validators. Publisher.  4. Barnes, P. (Year of publication). Anti Money Laundering and Know Your Customer. Publisher.  Tools for Assessment (25 Marks)  CIA I CIA II CIA III Assignment Seminar Quiz Tota 5 5 6 3 3 3 3 25									
1. Minahan, T. P. (Year of publication). Anti-Money Laundering: What You Need to Know. Publisher. 2. Minahan, T. P. (Year of publication). Anti-Money Laundering Compliance Handbook: A Practical Hands-On Guide for Compliance Professionals. Publisher. 3. Morini, M., & Cherubini, U. (Year of publication). Understand and Managing Model Risk: A Practical Guide for Quants, Trad- and Validators. Publisher. 4. Barnes, P. (Year of publication). Anti Money Laundering and Know Your Customer. Publisher.  Tools for Assessment (25 Marks)  CIA II CIA III Assignment Seminar Quiz Tota 5 5 6 3 3 3 3 255									
What You Need to Know. Publisher.  2. Minahan, T. P. (Year of publication). Anti-Money Laundering Compliance Handbook: A Practical Hands-On Guide for Compliance Professionals. Publisher.  3. Morini, M., & Cherubini, U. (Year of publication). Understand and Managing Model Risk: A Practical Guide for Quants, Tradand Validators. Publisher.  4. Barnes, P. (Year of publication). Anti Money Laundering and Know Your Customer. Publisher.  Tools for Assessment (25 Marks)  CIA I CIA III Assignment Seminar Quiz Total 5 5 6 3 3 3 3 25									
2. Minahan, T. P. (Year of publication). Anti-Money Laundering Compliance Handbook: A Practical Hands-On Guide for Compliance Professionals. Publisher.  3. Morini, M., & Cherubini, U. (Year of publication). Understand and Managing Model Risk: A Practical Guide for Quants, Tradand Validators. Publisher.  4. Barnes, P. (Year of publication). Anti Money Laundering and Know Your Customer. Publisher.  Tools for Assessment (25 Marks)  CIA II CIA III Assignment Seminar Quiz Total 5 5 5 6 3 3 3 3 255									
Compliance Handbook: A Practical Hands-On Guide for Compliance Professionals. Publisher.  3. Morini, M., & Cherubini, U. (Year of publication). Understand and Managing Model Risk: A Practical Guide for Quants, Tradiand Validators. Publisher.  4. Barnes, P. (Year of publication). Anti Money Laundering and Know Your Customer. Publisher.  Tools for Assessment (25 Marks)  CIA I CIA III Assignment Seminar Quiz Total 5 5 6 3 3 3 3 25									
Compliance Professionals. Publisher. 3. Morini, M., & Cherubini, U. (Year of publication). Understand and Managing Model Risk: A Practical Guide for Quants, Tradiand Validators. Publisher. 4. Barnes, P. (Year of publication). Anti Money Laundering and Know Your Customer. Publisher.  Tools for Assessment (25 Marks)  CIA I CIA III Assignment Seminar Quiz Total 5 5 6 3 3 3 3 25									
3. Morini, M., & Cherubini, U. (Year of publication). Understand and Managing Model Risk: A Practical Guide for Quants, Tradand Validators. Publisher.  4. Barnes, P. (Year of publication). Anti Money Laundering and Know Your Customer. Publisher.  Tools for Assessment (25 Marks)  CIA I CIA III Assignment Seminar Quiz Total 5 5 6 3 3 3 3 25									
and Managing Model Risk: A Practical Guide for Quants, Tradand Validators. Publisher.  4. Barnes, P. (Year of publication). Anti Money Laundering and Know Your Customer. Publisher.  Tools for Assessment (25 Marks)  CIA I CIA III Assignment Seminar Quiz Tota 5 6 3 3 3 25									
and Validators. Publisher.  4. Barnes, P. (Year of publication). Anti Money Laundering and Know Your Customer. Publisher.  Tools for Assessment (25 Marks)  CIA I CIA III Assignment Seminar Quiz Tota 5 5 6 3 3 3 25									
4. Barnes, P. (Year of publication). Anti Money Laundering and Know Your Customer. Publisher.  Tools for Assessment (25 Marks)  CIA I CIA II CIA III Assignment Seminar Quiz Tota 5 5 6 3 3 3 25									
Know Your Customer. Publisher.  Tools for Assessment (25 Marks)  CIA I CIA II CIA III Assignment Seminar Quiz Tota 5 5 6 3 3 3 25									
Tools for Assessment (25 Marks)  CIA I CIA II CIA III Assignment Seminar Quiz Tota 5 5 6 3 3 3 25									
CIA ICIA IICIA IIIAssignmentSeminarQuizTotal55633325									
5 5 6 3 3 3 25									
Mapping									
CO\PO PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PSO1 PSO2 PSO3 PSO4 PS									
CO1 H M L L H H H L									
CO2									
CO3 H H M H L - M H H M									
CO4 H H H H L H H M									
CO5   H   M   L   L   M   -   -   -   M   H   M									
H-High; M-Medium; L-Low									
-									
Course designed by Verified by Chairman									
•									

Course	e Code			Title					
23U3F	RE605	Dis	cipline Specific Elective Pa	per : II (B) – Audio and	Video Iden	tification			
Semest	er : VI		Credits : 4	CIA: 25 Marks	ESE: 75 N	Marks			
Course	Objecti	ve	To learn the acquisition, recordings and speaker is ultimately be presented as a	dentification by compar	ring voices				
Course	Categor	ry	Skill development						
Develop	oment N	leeds	Global						
Course	Descrip	tion	Audio-Video forensics invideo recordings which are legal proceedings, speaker and spectrographic analysis speech.	obtained from a civil in dentification usually con	vestigation on sists of the	or criminal both aural			
Course	Outcom	ies		<b>Teaching Methods</b>	Assessme	ent Methods			
CO 1	Extrac source		audio or video clip from the	Lecture/Demonstration	Assig	gnment			
CO 2	Check the authenticity of an audio or								
CO 3	video file								
CO 4	Identification of the voice (speaker). Lecture/Video lecture Quiz								
CO 5	5 Have a strong foundation on visual examination of audio spectra. Lecture/Demonstration Assignment								
Offered	l by   Fo	orensi	ic Science						
Course	Content	t		Instruction	onal Hours	/ Week : 6			
Unit			Description		Text Book	Chapter s			
I	Basic Circuits  Basic Electric Circuits - LR, CR, LCR circuits, Conventional Filters and Digital Filters (high pass filters, low pass filters).  Noise Characteristics: Properties of Noise, Acoustic Characteristics of Environments-Diffraction, Reverberation and Diffusion. Recording Formats - Analog and Digital, Audio and Video file formats. Linear and Non –linear Editing.								
Suggest	tod Loor	nina	Mathada: Library aytra ras		onal Hours	18			
Suggest			Methods: Library extra rea	aung					
п	Introduction to video technology Concept of Video film production - Introduction to video technology component of Digital Image Processing. Concept of Digital Water Marking. Visual examination technique on video frame image - Facial Image Recognition from video frame image.								
-					onal Hours	18			
Suggest	ted Lear	ning	<b>Methods: Power point pres</b>	entation					

Ш	Introduction understanding Video Evider audio and vidential analysis. Reco Files recovery Software used	to Forensic Audio & Video Analysis: A basic g of forensic audio and video technology - Audio and ace handling procedures. Authentication of recorded deo. Scientific methodology of forensic audio-video overy of digital audio-video / Deleted Video & Audio y - Exporting evidence as video or still image filesd for audio and video analysis. Admissibility of audio dence in court.	1	3
	I	Instruction	al Hours	18
Sugges	sted Learning	Methods: Online training		
IV	Introduction: Forensic cha Parameters: Linguistic Parameters Requirements tract and the Vocal tract st Nasals and N  - Active/Pas Prosodic fee	Forensic Speaker Identification, Forensic Phonetics- allenges in Voice recognition. Forensic Phonetic Acoustic vs. Auditory Parameters, Linguistic vs. Non- rameters. Forensic Significance: Linguistic Analysis- con forensic-phonetic parameters. The human vocal production and description of speech parameters: ructures. Forensic Significance – Vocal cord activity, asalization. Phonetic Aspects of Speech: Articulators sive, Phonemes –Segmental and Supra segmental, atures- Stress, Intonation, Duration, Syllables, Accent features.	1	4
	I	Instruction	al Hours	18
Sugges	sted Learning	Methods: Video lectures		
V	Characterizin Recognition Significance. Speaker Reco approach or Gaussian M Quantization, Networks. E Likelihood R	- Speaker Identification and Verification, Forensic Components of Speaker Recognition. Approaches to egnition System of Auditory Analysis, Spectrographic Voice Print Identification. Automatic Approach: ixture Models, Long Term Averaging, Vector Hidden Markov Models, Neural expressing Results in Forensic Speaker Recognition—atio, Objective/Subjective Methods. Concept of Test peaker Identification. Admissibility of Voice evidence	1	5
		Instruction	al Hours	18
Sugges	sted Learning	Methods: Power point presentation	-	
			al Hours	90
Text B	Books	<ol> <li>Notes compiled by the department of Forensi Arts and Science College, Coimbatore.</li> <li>Philip Rose; Forensic Speaker Identification, 7</li> </ol>		
Refere	ence Books	<ul> <li>Forensic Science Series, London (2002)</li> <li>6. Bengold &amp; Nelson Moryson; Speech and Aud John Wiley &amp; Sons, USA (1999)</li> <li>7. Oscar Tosi; Voice Identification-Theory of Le University Park Press, Baltimore (1979)</li> </ul>	io signal pr	rocessing,

				Too	ols for	Assess	smen	t (2	25 Ma	arks)				
CIA	Ι	CL	ΑП	Cl	A III	A	ssign	gnment Seminar		nar	Quiz	Total		
5 5		6		3	3		3		3	25				
Mapping														
CO\PO PO1 PO2 PO3 PO4 PO5 PO6 PO									PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1 H H H H M L									1	-	Н	Н	M	-
CO2	Н	Н	Н	H M L M					1	-	Н	Н	M	-
CO3	Н	Н	H H H M L				M		1	-	Н	Н	M	-
CO4	Н	Н	Н	Н	M	L	M		1	-	Н	Н	M	-
CO5	Н	L	L	Н	M	L	L		-	-	Н	Н	M	-
H-High;	M-Me	dium; l	L-Low											
Course designed by								Verified by Chairman						
Mr. Akhi	il Benn	у						Mr	. Akhi	il Benny	y			

Cou	rse Code		Title					
23U3I	FRE606	Discipline Specific Ele	ective Paper : II (A) – C Jurisprudence	riminology	and			
Semes	ter : VI	Credits: 4	CIA: 25 Marks	ESE: 75 N	Marks			
Course	Objective	Gain a deep understanding causes of criminal behavio strategies for crime preven	r, evaluate legal systems,					
Course	Category	Skill Development	·					
Develop	ment Needs	Global						
Course	Description	Explores the science of c Examine the causes of crim their societal implications. and legal studies.	ninal behavior, the legal s	ystem's oper	ations, and			
Course	Outcomes		<b>Teaching Methods</b>		essment ethods			
CO 1	Know the Jurispruden	basics of Criminology and ce	Lecture/Demonstration	Assi	gnment			
CO 2	Understand	the theories of crime.	Lecture/Demonstration	Se	minar			
CO 3	Acquire kn and Justice	(	Quiz					
CO 4	Understand Jurisprudence and Legal							
CO 5	Understand Jurisprudence and Legal Philosophy  Lecture/ Case studies  Case study							
Offered	by Forens	ic Science						
Course	Content		Instructi	onal Hours	/ Week : 6			
Unit		Description		Text Book	Chapter s			
т	Introduction to Criminology and Jurisprudence Overview of Criminology and Jurisprudence as fields of study. Historical development of criminology and jurisprudence. Theories of crime causation. Legal systems and types of law.							
<b>Q</b>	. 1 T	Mal I D		onal Hours	18			
Suggest		Methods: Powerpoint pres	sentation					
II	Theories of Crime Classical, Positivist, and Contemporary theories of crime. Understanding criminal behaviour. Social, psychological, and biological factors in crime							
				onal Hours	18			
Suggest		Methods: Library extra re	ading					
Ш	Introduction	w and Justice to criminal law principles fenses and culpability. Crim n.		1	3			
	<i>j</i>		Instructi	onal Hours	18			
Suggest	ed Learning	<b>Methods: Online training</b>						

	Crimi	กดใกฐเ	ral Cor	ncents									
						viole	nt crim	e, whit	ecollar	crime.			
IV									shment		1		4
	sentenc			_									
Suggested Learning Methods: Video lectures									Inst	tructio	nal Hour	'S	18
Suggest	ted Lea	rning	Metho	ds: Vi	deo le	ctures							
				e and Legal Philosophy sprudence: Natural law, Legal positivism, etc. Human									
$\mathbf{v}$	School	s of jui	risprude	ence: N	<b>Natural</b>	law, I	Legal po	ositivis	m, etc. I	Human	1		5
V	rights	and 1	legal e	thics.	Critic	al leg	gal stu	idies a	nd fen	ninist	1		3
	jurispri	udence	. The r	elatior	iship b	etwee	n law a	nd moi					
									Inst	tructio	nal Hour	S	18
Suggest	ted Lea	rning	Metho	ds: Ca	ise stu	dies							
										To	tal Hour	'S	90
T4 D	1		2.	Note	es Com	piled l	by the	departn	nent of	Forensi	ic Science	e, Nehr	u
Text Bo	OOKS			Arts	and S	cience	Colleg	ge Coin	nbatore				
			5.							. Crimi	nology. (	Cengag	e
				_	ning.	,		. , -	,			- 6.6	
			6			or E (	2021)	Crimir	ol Incti	00: A E	Priof Intro	ductio	2
			0.	Pear		ег, г. (	2021).	CHIIIII	iai Justi	ce. A I	Brief Intro	ductio	1.
			7.					•			inology o		
Reference Books					_				rstandır	ng of th	e Crime I	Problem	n.
				OXI	ora Un	nversit	y Pres	S.					
			8.	Vag	o, S. (2	2018).	Law a	nd Soci	ety: An	Introd	uction. R	outledg	ge.
			9	Bart	ol C	R & 1	Rartol	АМ (	(2021)	Crimin	al Behavi	ior A	
								n. Pears		Crimini	ar Benavi	101.71	
			1/	10. Liebling, A., Maruna, S., & McAra, L. (2011). The Oxford									
			10		_						y Press.	.1014	
											-		
			1.	I. Bix,	B. (20	)18). J	urispru	dence:	Theory	and Co	ontext. Ro	outledg	e.
				Too	ols for	Asses	sment	(25 Ma	arks)				
CIA	I	CI	A II		A III		ssignr		Semin	nar	Quiz	To	tal
5			5		6		3		3		3		5
		I		I		Ma	pping		I.	I		I	
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	H	M	L	L	Н	-	-	-	-	Н	Н	L	-
CO2	Н	Н	M	Н	L	-	M	-	-	Н	Н	M	-
CO3	Н	Н	M	Н	L	-	M	-	-	Н	Н	M	-
CO4	Н	Н	Н	Н	L	-	_	-	-	Н	Н	M	_
CO5	Н	M	L	L	M	-	-	-	-	M	Н	M	-
H-High	; M-Me	dium;	L-Low										
		Course	e desig	ned by	V				Verif	ied hv	Chairma	an	
M. A11					)						J		
Mr. Akh	ıı Benn	У					$ \mathbf{M} $	lr. Akh	il Benny	y			

Cou	rse Code		Title					
23U3F	RE607	Discipline Specific Ele	ctive Paper : III (A) - F	orensic Fina	ance			
Semes	ter : VI	Credits: 4	CIA: 25 Marks	ESE: 75 N	Marks			
Course	Objective	Learn to identify analyse of taken place	and provide evidence th	at financial	fraud has			
Course	Category	Employability						
Develop	ment Needs	Global						
Course	Description	Financial forensics is a fie with financial auditing skill from within or outside of a	ls to identify criminal fin	inancial activity con				
Course	Outcomes		<b>Teaching Methods</b>		essment ethods			
CO 1	Acquire kn Forensic F	owledge about the concept of inance	Lecture/Demonstration	Assi	gnment			
CO 2	To learn Techniques	various Financial Analysis	Lecture/Demonstration	Se	minar			
CO 3	Acquire s	kills to detect and prevent	(	Quiz				
CO 4	Know at techniques	Assi	gnment					
CO 5	Learn the legal frame	Cas	e study					
Offered	by Forens	sic Science						
Course	Content		Instruction	onal Hours	/ Week : 6			
Unit		Description		Text Book	Chapter s			
I	Definition o Finance, Ro Business M Customer B	n and operation analysis  f Forensic Finance, History an  le of Forensic Finance in Invest  odel and Strategy, Industry  ase and Revenue Streams, Can Resources and Managemer	stigations and Litigation and Market Analysis, Operations and Supply at	1	1			
<b>G</b>		35 (1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		onal Hours	18			
		Methods: Powerpoint pres	entation					
п	Financial Analysis Techniques Financial Statement Analysis, Ratio Analysis, Cash Flow Analysis, Projections and Forecasts, Valuation Methods, key performance indicators							
1			Instruction	onal Hours	18			
		Methods: Library extra rea	ading					
Ш	Types of Fi	<b>ction and Prevention</b> nancial Fraud, Red Flags and echniques, Fraud Prevention S	0 0	1	3			
-		•		onal Hours	18			
Suggest	ed Learning	Methods: Online training						

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137	Investi	_		-			1	a Diaita	l Eogani	ai.aa	1		1
IV		_		chniques, Document Analysis, Digital Forensics 1 d Analysis, Case Management Software  Instructional Hours 1									4
	Data IV	mining i	anu An	iarysis,	, Case	Manag	gemei	ii Soitwa		a4 <b>:</b> a -	al II		10
Suggest	od I oo	mina	Motho	da. Vi	doo lo	otumos			Ins	rucuoi	iai Hour	8	19
Suggest								_			1	T	
	Profes								. 1 1	. 1			
								ds, Conf		•			
$\mathbf{V}$	Data		,			f Int			Indeper		1		5
	Comm					rency.		ws and tigation		lations			
								and Repo					
	TTOCCS	5 111 1110	na, En	JCIL VV	itiicss	1 CStill	iony a	and Rep			ıal Hour	<b>PC</b>	18
Suggest	ed Lea	rning	Metho	ds: Ca	se stu	dies			1113	ii uctioi	iai iivui		10
24-55-22	<u></u>	8		<u> </u>						To	tal Hour	) c	90
Text Bo	oks		3.			-	•	-		Forensi	c Science	e, Nehr	u
								ege Coin					
			12				_				by Willia	ım S.	
				-		•		er, and G	_		_		
			13								ing, Thir	d Editio	n by
				Geo	rge A.	Manni	ing ar	nd Richa	rd A. S	impson			
TD 6			14	1. Fore	ensic A	nalytic	es: M	ethods a	nd Tech	niques	for Forer	nsic	
Referen	ce Boo	KS		Acc	ounting	g Inves	stigat	ions by I	Mark N	igrini			
			15	5. Frau	d Exa	minatio	on, Fi	fth Editi	on by V	V. Steve	Albrech	t, Chac	lO.
				Albr	echt, (	Conan	C. Al	brecht, a	ınd Mar	k F. Zii	nbelman	l	
			16	5. Prin	ciples	of Frau	ıd Ex	aminatio	n, Four	th Editi	on by Jo	seph T.	
				Wel	ls								
				Too	ols for	Assess	smen	t (25 Ma	rks)				
CIA	Ι	CL	A II		A III			ment	Semi	nar	Quiz	To	tal
5			5		6		3		3		3	2	
		1		1		Ma	pping			<u> </u>			
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7		PSO1	PSO2	PSO3	PSO4	PSO5
CO1	Н	M	L	L	Н	-	-	-	-	Н	Н	L	-
CO2	Н	Н	M	Н	L	-	M	-	-	Н	Н	M	-
CO3	Н	Н	M	Н	L	ı	M	-	-	Н	Н	M	-
CO4	Н	Н	Н	Н					Н	M	-		
CO5	Н	M	L									-	
H-High;	M-Me	dium; l	L-Low										
		Course	e design	ned by	<b>y</b>				Ver	ified by	y Chairn	nan	
Mr. Akh							]	Mr. Akh		•			

Cou	ırse Code			Title		
	FRE608	D	Discipline Specific Elective I	• '	e and Wirele	ess Device
				Forensics		
Seme	ster : VI	ı	Credits: 4	CIA: 25 Marks	ESE: 75 N	
Course	Objective		Master the techniques and analyze digital evidence fro for roles in law enforcemen	om mobile and wireless	devices, pre	paring you
Course	Category		Skill Development			
Develo	pment Need	S	Global			
Course	Description	1	This course covers the fund devices, such as smartphone analyze, and report digital e	es and tablets. Students	will learn to	acquire,
Course	Outcomes			Teaching Methods		essment ethods
CO 1	Learn the Technolog			Lecture/Demonstratio	n Assi	gnment
CO 2	Understan Devices S		Mobile and Wireless urity	Lecture/Demonstratio	n Se	minar
CO 3			rview of Mobile Forensics	Lecture/ tutorial		Quiz
CO 4			Android Forensics	Lecture/Video lecture		gnment
CO 5	Know iOS			Lecture/ Case studies	Cas	e study
Offered	<u> </u>	si	c Science			
Course	Content			Instruct	ional Hours	/ Week : 6
Unit			Description		Text Book	Chapters
I	Asynchrone Protocol (V Mobile Pho Access (TE Global Sys features and Module (SI Bluetooth a	ous Who ne OM ten d re M no	to Mobile and Wireless Te s Transfer Mode (ATM), AP). Cellular technologies e System (AMPS), Imode, Ti IA), Code Division Multiple m for Mobile Communication elative strengths. Functions of ), International Mobile Equip I Mobile Payment Gateways operating systems – Androice	Wireless Application including Advanced me Division Multiple Access (CDMA) and ons (GSM) including of Subscriber Identity oment Identity (IMEI), . Understanding of the d, iOS, Windows.		1
G	. 17	7			ional Hours	18
Sugges		_	Methods: Power point pres Vireless Devices Security	sentation		
п	Security is cloning and Service Eavesdropp frauds, Ph Walkthroug attack. Atta hotspots. WEP Decr Voice, SMS	su l c (D oin on gh acl Vir yp	es in Bluetooth, Mobile pother Bluetooth vulnerabilities (OS), Packet Spoofing g, VOIP Spam and Vishing the Phreaking, Call tamperand Manin-the-Middle-attacks on WEP, WPA and Wireless Public Key Infrastruction script, Understanding and Identification Data Interest—Availability, Confidential	es. Attacks - Denial of & Masquerading. (VOIP Phishing), Tolloring, Wireless Hack ecks. Overview of WEF PA-2 Encryption, fake ture. Securing WLAN of SQLite Databases. reception in GSM. SMS		2

					Instruction	onal Hours	18				
Sugges	sted Learni	ing Method	ls: Library ex	tra reading							
III	Overview of Mobile Forensics  Mobile Forensic, Types of Evidence present in mobile phones - Files present in SIM card, external memory dump, and evidences in memory card. Seizure and Preservation of mobile phones and PDA. Mobile phone evidence extraction process, Data Acquisition Methods – Physical, File System, Logical and Manual Acquisition. Good Forensic Practices, Mobile Forensic Investigation Toolkit. Tracking of mobile phone location. Challenges to Mobile forensics.  Instructional Hours sted Learning Methods: Online training										
Sugge			ds: Online trai	ning		<u> </u>	T				
Android Forensics  Android Forensics — Procedures for handling android device, imaging android USB mass storage devices, Logical and physical data extraction techniques. Data recovery techniques. Forensic tools used. CDR and IPDR analysis.											
					Instruction	onal Hour	18				
Sugge	sted Learni	ing Method	ds: Video lectu	ires			•				
iOS Forensics iOS Forensics – File Systems, iOS architecture, Data stored in iPhones, Crosscontamination and Syncing, Data extraction - Extracting Image Geo-Tags, Data Analysis and Recovery - SQLite											
		, 1 01011010	databases, Forensic Tools used.								
Instructional Hours											
Sugges	sted Learni	ing Method	ds: Case studio	es	Instruction	onal Hour	s   18				
Sugge	sted Learni	ing Method	ls: Case studio	es		onal Hours otal Hours					
Sugges Text B		4.	Notes Compil	led by the departnence College Coin	Tnent of Forenshatore	otal Hours	90 , Nehru				
Text B		4. 17 18 19 20 21	Notes Compil Arts and Scie Reiber, Lee. Evidence Co. Hoog, Andre Mobile Secur Morrissey, Se iPod touch." Davidoff, Sho Tracking Had Bergman, Ne Exposed Mol Johansen, Ge Practical Gui Response."	led by the departmence College Coing "Mobile Forensic llection, Analysis, w. "Android Forentity for Google Argan. "iOS Forensic erri, and Jonathan ekers through Cybril, Mike Stanfield bile: Security Securard. "Digital Forential College Control of the College Col	nent of Forens abatore Investigations and Presenta asics: Investigations and Presenta asics: Investigations and Presenta asics: Investigations and Incomplete & Solution and Jason Roberts & Solution and Presenta	otal Hours sic Science s: A Guide tion." gation, Ana r iPhone, il ork Forensi ouse. "Hac ns."	yonse: A				
Text B	Books ence Books	4. 17 18 19 20 21 22	Notes Compil Arts and Scie C. Reiber, Lee. Evidence Co. J. Hoog, Andre Mobile Secur J. Morrissey, Science iPod touch." Davidoff, Sho Tracking Had Designan, Ne Exposed Mol Johansen, Ge Practical Gui Response."	led by the departmence College Coimence College Coimence College Coimence Collection, Analysis, w. "Android Foresty for Google Arean. "iOS Forensiderri, and Jonathan Ekers through Cybil, Mike Stanfield bile: Security Securard. "Digital Foreste to Deploying Inserts of the College Colleg	nent of Forens abatore Investigations and Presenta asics: Investigations ardroid."  Analysis: for Ham. "Netwo erspace."  and Jason Ro ets & Solutio ensics and Inc Digital Forens	otal Hours sic Science s: A Guide tion." gation, Ana r iPhone, il ork Forensi ouse. "Hac ns." ident Resp ics and Inc	ysis, and Pad, and cs: king onse: A ident				
Refere	Books	4. 17 18 19 20 21	Notes Compil Arts and Scie Reiber, Lee. Evidence Co. Hoog, Andre Mobile Secur Morrissey, Se iPod touch." Davidoff, Sho Tracking Had Bergman, Ne Exposed Mol Johansen, Ge Practical Gui Response."	led by the departmence College Coince College Coince College Coince College Coince Collection, Analysis, w. "Android Forestity for Google Argean. "iOS Forensider, and Jonathan Exers through Cybril, Mike Stanfield bile: Security Securard. "Digital Forested to Deploying I	nent of Forens abatore Investigations and Presenta asics: Investigations and Presenta asics: Investigations and Presenta asics: Investigations and Incomplete & Solution and Jason Roberts & Solution and Presenta	otal Hours sic Science s: A Guide tion." gation, Ana r iPhone, il ork Forensi ouse. "Hac ns."	yonse: A				

	Mapping												
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	Н	M	L	L	Н	-	-	-	-	Н	Н	L	-
CO2	Н	Н	M	Н	L	-	M	-	-	Н	Н	M	-
CO3	Н	Н	M	Н	L	-	M	-	-	Н	Н	M	-
CO4	Н	Н	Н	Н	L	-	-	-	-	Н	Н	M	-
CO5	Н	M	L	L	M	-	-	-	-	M	Н	M	-

Course designed by	Verified by Chairman				
Mr. Akhil Benny	Mr. Akhil Benny				

Cou	rse Code		Title								
23U3	FRE609	Discipline Specific Elective	Paper : III (C) – Intern	ogation Te	chniques						
Seme	ster : VI	Credits: 4	CIA: 25 Marks	ESE: 75 N	<b>A</b> arks						
Course	Objective	Master effective and ethical information, enhance invest and ethical standards	-								
Course	Category	Skill Development									
Develop	pment Needs	Global									
Course	Description	Learn the skills and stra interrogations. This course legal aspects, benefiting lav	covers communication,	rapport-buil ty professio	ding, and nals.						
Course	Outcomes		ssment thods								
CO 1	Understand Basis of th	d the Psychophysiological e Forensic Assessment	Lecture/Demonstration	Assi	gnment						
CO 2		sight into the preparation for ew/Interrogation	Lecture/Demonstration	Ser	minar						
CO 3	Learn the Interrogati	e methods of advanced on Techniques uestion formulation and	Lecture/ tutorial		)uiz						
CO 4	Know q Cognitive	Assi	gnment								
CO 5	O 5 Acquire knowledge on Specialized Lecture/ Case studies Case study										
	l by   Foren	sic Science									
Course	Content		Instruction	onal Hours	/ Week : 6						
Unit		Description		Text Book	Chapter s						
I	Introduction Understandi Polygraph E	iological Basis of the Forensic to Psychophysiology in Intering the Physiology of Stress Ro examination and its Application siderations in Psychophysiolog	rogation esponses n in Interrogations	1	1						
				nal Hours	18						
Sugges		g Methods: Powerpoint pres									
П	Preparation for the Interview/Interrogation The Importance of PreInterview Preparation Developing an Interview Strategy Gathering Background Information and 1 2 Intelligence Legal and Ethical Considerations in PreInterview Preparation										
	<u> </u>		Instruction	nal Hours	18						
Sugges	`	g Methods: Library extra rea	nding								
Advanced Interrogation Techniques Morgan Interview Theme Technique (MITT) Forensic Statement Analysis Projective Analysis of Unwitting Verbal Cues Traditional Scoring of the Forensic Assessment Interview (FAINT) The Validation of the Forensic Assessment Interview (FAINT)											
i			Instruction	nal Hours	18						
		Methods: Online training	Instruction	mai Hours	10						

		Course	e desig	ned by	y				Verifi	ed by C	Chairmai	1		
	Course designed by Verified by Chairman													
H-High	n; M-Me	edium;	L-Low											
CO5	Н	M	L	L	M	-	-	-	-	M	Н	M	-	
CO4	Н	Н	Н										-	
CO3	Н	Н	M H L - M H						Н	Н	M	-		
CO2	Н	Н	M	Н	L	-	M		-	Н	Н	M	_	
CO1	Н	M	L	L	Н	-	-	-	-	Н	Н	L	-	
CO\PO	) PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO:	
		1		1	-	Ma	pping		<u>.                                    </u>				·	
	<u> </u>		5		6	П	3	10111	3	141	3		5	
CI	AI	CI	A II		IA III		ssignn	`	Semi	nar	Quiz	To	tal	
							sment (							
			2						r, D. E. RC Pres	, ,	Practica	Aspec	cts of	
			2				_			(2002)	Ducat	I A		
			20	26. Bull, R., Bilby, C., & Cooke, C. (2009). The Investigator's Guide to Behavioral Profiling. Springer.										
				The Discovery of Truth. CRC Press.										
Kefere	nce Boo	OKS	2:	25. Rabon, D., & Rabon, R. (2013). Interviewing and Interrogation:										
D 4	-			Learning.										
			24. Inbau, F. E., Reid, J. E., Buckley, J. P., & Jayne, B. C. (2011). Criminal Interrogation and Confessions. Jones & Bartlett											
			2.						Learnin	_	na P C	(2011)		
											terrogati	on and		
			2.						•	•	ne, B. C.			
Text Books  5. Notes Compiled by the department of Forer Arts and Science College Coimbatore														
Toyt D	ooks		5.	Note	es Con	npiled b	y the c	lepartn	nent of	Forensi	c Science	e, Nehr	u	
	$\overline{\mathbf{T}}$										tal Hour	S	90	
Sugges	sted Lea	arning	Metho	ds: Ca	ase stu	dies						1		
Instructional Hours												S	18	
	People													
	Understanding Aggressive Behavior and Dealing with Ange													
$\mathbf{V}$		rbal		The	_	ssenge. grated		ogatio	ith Ver	hnique	1		5	
									Interro					
		lized I												
Sugges	sted Lea	arning	Metho	ds: Vi	deo le	ctures						l		
	Quest			<u> </u>		, 10 11 1112	<u> </u>		Inst	truction	nal Hour	S	18	
		ioning a				-		Con	Siucian	J118 111				
IV			-			_	_		ncing M sideration	-	1		4	
<b>TT</b> 7	_					,				parison	1		4	
	( )nest	ion Lo	rmulat			~-~4								

Course	Code		Title								
23U4F	RZ604		Skill Based Paper IV - Outdoor Training								
Semest	er : VI		Credits: 3	A: 30 Marks	ESE : 45 Marks						
Course	Objectiv	ve	To make the students compete	nt for physical tes	sts						
Course	Categor	y	Skill Development								
Develop	ment No	eeds	National								
Course	Descript	tion	Police jobs in India demands specific fitness benchmarks. This course id designed to train the learner to develop physical strength in this regard.								
Course	Outcom	es		Teaching Meth	ods	Assessment Methods					
CO 1	Do phy	•	exercises which keep them	Outdoor Activ	ities	Physical test					
CO 2	Do basi	ic dril	l movements	Outdoor Activ	Outdoor Activities Physical						
CO 3	Play va		games which require physical	Outdoor Activ	Physical test						
CO 4	Follow with tea		mands properly and coordinate ates.	e Outdoor Activities		Physical test					
CO 5	Showca tactics.	ase lif	esaving skills and self defense	Outdoor Activ	ities	Physical test					
Offered	by Fo	rensi	Science								

# List of activities student must indulge in

**Instructional Hours / Week: 3** 

- 1. Drill- Parade, march past, turnings, salute
- 2. Physical Training
- Running
- Stretching Exercises
- Cardio Training
- Endurance Training
- Muscle Building Exercises (Push-ups, Sit-ups, Chin-ups, etc.)
- 3. Yoga
- 4. Self Defense Training
- 5. Games: Kabadi, Football,

### **Internal evaluation**

The students need to perform the Parade individually and, in the contingent, to make sure the effective assessment of Drill movements and synchronization within the contingent.

# **External Evaluation**

Students' progress in learning drill movements and march past will be assessed both individually and as part of contingent.

Apart from the Parade students' performance will also be measured in terms of physical activity tests such as Running700 meters, push-ups, sit-ups and Chin-ups.

2023

A person with substantial experience in outdoor training and Parade will be invited as the External Examiner. Both internal and external examiner will assess the performance of the student in the evaluation.

Tools for Assessment CIA (30 Marks)									
Activity I	Activity Activity Activity Activity Activity V VII Total								
4	4	4	7	7	4	30			

ESE (45Marks)										
Activity - I	Activity - I									
15 10 5										

	Mapping												
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	Н	Н	Н	L	M	M	L	M	M	Н	Н	M	M
CO2	M	M	M	M	Н	M	M	M	Н	Н	Н	M	Н
CO3	Н	L	M	Н	M	M	L	Н	M	Н	Н	M	M
CO4	M	Н	L	M	L	L	Н	M	Н	M	Н	Н	M
CO5	M	M	Н	Н	M	Н	M	Н	Н	Н	M	Н	Н

Course designed by	Verified by Chairman
Mr. Akhil Benny	Mr. Akhil Benny

	Course	e Code						Titl	le					
	23UF1	RSS02				Self	f-Study I	Paper- O	ccupati	onal Sa	fety			
Se	emeste	er : II-V					edits:1					) Mark	S	
Cours	o Ωhi	octivo		Explain the concept of health and safety culture and its significance in the										
				management of health and safety in industry and organisations.										
Cours		<u> </u>		Employability										
Develo	opmei	nt Needs		Global										
Cours	se Des	cription		Develop the ability to apply knowledge of health and safety inspection at a workplace.										
		comes												
CO 1							pational							
CO 2		-					nomic re workplac		r mainta	aining a	ınd pro	moting	good	
00.3	F.						rnments		rnationa	al bodie	es in fo	ormulat	ing a	
framework for the regulation of healt								fety.					_	
CO 4	V 11 1													
CO 5	Outline the control measures that should be taken when working with electrical systems or using electrical equipment in all normal workplace conditions.									stems				
Offere	-		ensic S				OIIIIII W	эткрисс ч	CONCINC	110.				
Cours														
Un							Desc	Description						
I		Introd	uction	to Occ	cupation	onal H	lealth an	d Safety:	}					
1		Founda	ations in	n healtl	h and s	safety								
			Health and Safety Management Systems:											
II			and saf	safety management systems – Plan, Health and safety management systems										
		- Do	alaaa II	Hazards and Risk Control:										
III	I	_		hazards and risk control										
		-		rkplace Hazards and Risks										
IV	7		cal safe											
#7	,			-			plication							
V			and saf											
Text B	ooks						General C						afety	
Refere							Book Fo		EBOSH	Nation	al Gene	ral		
Boo	ks	Certific	cate: Es	sential	Healt		afety Gui	de.						
CO\PO	<b>D</b> ∩1	PO2	PO3	PO4	PO5	PO6	Mapping PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	
CO/PO	Н	H H	H	H	M	100	M	L L	-	H H	H	L PSU4	1 202	
CO2	Н	Н	H	Н	M	-	M	L	-	Н	Н	L	_	
CO3	Н	Н	Н	Н	M	-	M	L	-	Н	Н	L	-	
CO4	Н	Н	H H H M - M L - H H L -									_		
CO5	Н	Н	Н	Н	M	-	M	L	-	Н	Н	L	-	
H-High	n; M-N	Iedium; l	L-Low											
		Cours	se desig	ned by					Ve	erified b	y			
Mr. Ak	khil Be	nny					Mr. A	Akhil Beni	ny					

Cou	urse Code	Title							
231	UFRSS01	Self Study Paper – Ma	Self Study Paper – Martial Arts						
Semeste	er : II - VI	Credits: 1	ESE: 50 Marks						
Course	Objective	To make the students competent for physical	tests						
Course	Category	Skill Development							
Develop	ment Needs	National	Vational						
Course	Description	Police jobs in India demands specific fitness benchmarks. This course id designed to train the learner to develop physical strength in this regard.							
		Course Outcomes							
CO 1	Do physical	exercises which keep them healthy.							
CO 2	Do basic dri	ll movements							
CO 3 Play various games which require physical strength.									
<b>CO 4</b> Follow commands properly and coordinate with team mates.									
CO 5	Showcase li								
Offered	by Forensic	Science							

# List of activities student must indulge in

- 1. Physical Training
  - Running
  - **Stretching Exercises**
  - Cardio Training
  - **Endurance Training**
  - Muscle Building Exercises (Push-ups, Sit-ups, Chin-ups, etc.)
- 2. Self-Défense Training
  - Any form of martial art with its all-preliminary steps/sets and training.

### **Internal evaluation**

The students need to perform both activities individually to make sure the effective assessment.

### **External Evaluation**

Students' progress in both activities individually will be assessed both individually and as part of contingent.

Apart from the Parade students' performance will also be measured in terms of physical activity tests such as Running700 meters, push-ups, sit-ups and Chin-ups.

A person with substantial experience in outdoor training and Parade will be invited as the External Examiner. Both internal and external examiner will assess the performance of the student in the evaluation.

Mapping													
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	Н	Н	Н	L	M	M	L	M	M	Н	Н	M	M
CO2	M	M	M	M	Н	M	M	M	Н	Н	Н	M	Н
CO3	Н	L	M	Н	M	M	L	Н	M	Н	Н	M	M
CO4	M	Н	L	M	L	L	Н	M	Н	M	Н	Н	M
CO5	M	M	Н	Н	M	Н	M	Н	Н	Н	M	Н	Н

Course designed by	Verified by				
Mr. Akhil Benny	Mr. Akhil Benny				