

## 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 Examplem *	
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)

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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.

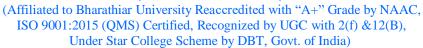
PSO4: Architect skill sets in assisting investigations, trials and correctional administration.

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



## NEHRU ARTS AND SCIENCE COLLEGE

(AUTONOMOUS)







#### **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
	Ι	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
	III	23U3FRC102	Core Paper II- Law for Forensic Science	5	3	20	55	75	3
I		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	22U4ENV101	@Ability Enhancement Compulsory Course : Environmental Studies	2	3	50		50	2
		22U4HVY201	Value Education : Human Values and Yoga Practice	1	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
TT	III	23U3FRC204	Core Paper IV - Forensic Ballistics	4	3	25	75	100	4
II		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	22U4HRC202	<ul><li>@Ability Enhancement Compulsory</li><li>Course: Human Rights and</li><li>Constitution of India</li></ul>	2	3	50	-	50	2
		22U4HVY201	@Value Education : Human Values and Yoga Practice	1	2	50	-	50	2

1					30				675	27
1   23UIHN303/   23UIFRN303   Le Francais General - III   11   23U3FRC512   Core Paper VII - Inpression Analysis   4   3   20   55   75   3   3   23U3FRC508   Core Paper VII - Inpression Analysis   4   3   20   55   75   3   3   23U3FRC508   Core Paper VII - Inpression Analysis   4   3   20   55   75   3   3   3   3   20   55   75   3   3   3   3   3   3   4   5   75   3   3   3   3   3   3   4   5   75   3   3   3   3   3   3   3   3   3			23U1TAM303/	Arunthamizh					0.0	
1   23UJFRN303   Le Francis General - III										_
11   23U2FNG303   Le Francais General - III   23U2FNG303   Communicative English - I   4   3   20   55   75   3   23U3FNC308   Core Paper VII - Impression Analysis   4   3   20   55   75   3   23U3FNC308   Core Paper IVI - Forensic Statistics   4   3   20   55   75   3   3   23U3FNC308   Core Paper IV - Impression Analysis   4   3   30   45   75   3   3   30   30   45   75   3   3   30   30   45   75   3   3   30   30   45   75   3   3   30   30   45   75   3   3   30   30   45   75   3   3   30   30   45   75   3   3   30   30   45   75   3   3   30   30   45   75   3   3   30   30   30   30   30   30		I			4	3	20	55	75	3
II   23U2ENG303   Communicative English - I   23U3FRC307   Core Paper VII - Impression Analysis   4   3   20   55   75   3   3   23U3FRC307   Core Paper VIII - Forensic Statistics   4   3   20   55   75   3   3   3   20   55   75   3   3   3   20   55   75   3   3   3   20   35   75   3   3   3   3   20   55   75   3   3   3   3   3   3   3   3   3										
11		TT			1	3	20	55	75	3
III   23U3FRC308   Core Paper VIII - Forensic Statistics   4   3   20   55   75   3   3   23U3FRC308   Core Paper IX - Impression Analysis   4   3   30   45   75   3   3   3   20   55   75   3   3   3   20   55   75   3   3   3   20   55   75   3   3   3   20   55   75   3   3   3   20   55   75   3   3   3   20   55   75   3   3   3   20   55   75   3   3   3   20   55   75   3   3   3   20   55   75   3   3   3   20   55   75   3   3   3   2   20   55   75   3   3   3   2   20   55   75   3   3   3   2   20   55   75   3   3   3   2   20   55   75   3   3   3   2   2   2   3   5   5   5   5   3   3   3   2   2   3   5   5   5   5   5   3   3   3   3		11								
III   23U3FRP309   Core Paper IX - Impression Analysis   4   3   30   45   75   3   2   23U3FRA304   Allied Paper IV - Forensic Biology   3   3   20   55   75   3   3   3   20   55   75   3   3   3   20   35   75   3   3   3   2   2   3   5   5   75   3   3   3   2   2   3   5   5   75   3   3   3   2   2   3   5   5   75   3   3   3   2   2   3   5   5   75   3   3   3   2   2   3   5   5   75   3   3   3   2   2   3   5   5   75   3   3   3   3   2   2   3   5   5   75   3   3   3   3   3   3   3   3   3				- · · · · · · · · · · · · · · · · · · ·						
11			23U3FRC308		4	3	20	55	75	3
Practical   Prac		III			4	3	30	45	75	3
11										
23U4FRN301   Practices   5   2   20   55   75   3   2   20   35   75   3   3   3   2   2   3   5   5   5   2   2   3   5   5   5   2   2   3   5   5   5   5   2   2   3   5   5   5   5   2   2   3   5   5   5   5   5   2   2   3   5   5   5   5   5   2   5   5   5   5			23U3FRA304		3	3	20	55	75	3
Paractices   Par	III		22114ED C201	Skill Based Paper I - Good Laboratory	2	2	20	55	75	2
22U4NM3AT1/   22U4NM3GAF/   1V   22U4NM3GAF/   22U4NM3WRT   30   50   50   2   2   3   50   50   2   3   50   50   2   2   3   50   50   2   2   3   50   50   2   2   3   50   50   2   2   3   50   50   2   2   3   50   50   2   2   3   50   50   2   2   3   50   50   2   2   3   50   50   2   2   3   50   50   2   2   3   50   50   2   2   3   50   50   2   2   3   50   50   2   2   3   50   50   2   2   3   50   50   2   2   3   50   50   2   2   3   50   50   2   2   3   50   50   2   2   3   50   50   50   2   2   3   50   50   50   2   2   3   50   50   50   2   2   3   50   50   50   2   2   3   50   50   50   2   2   3   50   50   50   2   2   3   50   50   50   2   2   3   50   50   50   50   50   50   50			23U4FRS3U1	Practices	3	2	20	33	73	3
1			22U4NM3BT1/	# @ Basic Tamil - I						
V   22U4NM3CAF/   * NME: Consumer Affairs /			22U4NM3AT1/			3	50			
IV   22U4NM3GST/   22U4NM3WRT   Women's Rights   SBOEC   Skill Based Open Elective Course -			22U4NM3CAF/		2				50	2
SBOEC   Skill Based Open Elective Course -   2   3   -   50   50   2		IV								
SBOEC		1 4								
SBOEC   Extra Departmental Course   2   3   - 30   30   2   2   3   - 30   30   2   2   3   - 30   30   2   2   3   - 30   30   2   2   3   - 30   30   2   2   3   - 30   30   2   2   3   - 30   30   2   3   2   3   - 30   3   2   3   2   3   - 3   3   2   3   3   3   3   3   3   3			22U4NM3WR1							
Extra Departmental Course			SBOEC		2	3	_	50	50	2
1			22020							
Institute Industry Linkage   30   650   26			23U4FRVALC		_	_	_	_	_	_
1				Institute Industry Linkage						
I					30				650	26
1		I								
10   2301MAL404   Le Francias General - IV   2301FRN404   Le Francias General - IV   2302ENG404   Communicative English - II   4   3   20   55   75   3   3   25   75   100   4   4   3   25   75   100   4   4   3   25   75   100   4   4   3   25   75   100   4   4   3   25   75   100   4   4   3   25   75   100   4   4   3   25   75   100   4   4   4   3   30   45   75   3   3   30   45   75   3   3   30   30   45   75   3   3   30   30   45   75   3   3   30   30   30   45   75   3   3   30   30   30   30   30   30			23U1HIN404/		1	3	20	55	75	3
II   23U2ENG404   Communicative English - II   4   3   20   55   75   3					_	3	20	33	7.5	3
III   23U3FRC410   Core Paper X - Questioned Document Examination   4   3   25   75   100   4			23U1FRN404	Le Francias General - IV						
III   23U3FRC410   Examination   4   5   25   75   100   4   4   3   23U3FRP411   Core Paper XI - Questioned Document Examination Practical   23U3FRA405   Allied Paper V - DNA Fingerprinting   3   3   20   55   75   3   3   3   40   60   100   4   4   3   40   60   100   4   4   3   40   60   100   4   4   3   40   60   100   4   4   3   40   60   100   4   4   4   3   40   60   100   4   4   4   3   40   60   100   4   4   4   3   40   60   100   4   4   4   3   40   60   100   4   4   4   3   40   60   100   4   4   4   3   40   60   100   4   4   4   3   40   60   100   4   4   4   3   40   60   100   4   4   4   4   3   40   60   100   4   4   4   4   4   4   5   5   5   75   3   4   5   5   5   5   5   5   5   5   5		II	23U2ENG404	Communicative English - II	4	3	20	55	75	3
III		III	23U3FRC410	Core Paper X - Questioned Document	4	2	25	75	100	4
III   23U3FRA405   Examination Practical   23U3FRA405   Allied Paper V - DNA Fingerprinting   3   3   20   55   75   3   3   20   3   3   40   60   100   4   4   3   40   60   100   4   4   4   3   40   60   100   4   4   4   3   40   60   100   4   4   4   3   40   60   100   4   4   4   3   40   60   100   4   4   4   3   40   60   100   4   4   4   3   40   60   100   4   4   4   3   40   60   100   4   4   4   3   40   60   100   4   4   4   3   40   60   100   4   4   4   3   40   60   100   4   4   4   3   40   60   100   4   4   4   4   3   40   60   100   4   4   4   4   3   40   60   100   4   4   4   4   3   40   60   100   4   4   4   4   3   40   60   100   4   4   4   4   5   5   75   3   4   5   5   5   75   3   4   5   5   5   75   3   5   5   75   3   5   5   75   3   5   5   75   3   5   5   75   3   5   5   75   3   5   5   75   3   5   5   75   3   5   5   75   5   75   3   5   5   75   3   5   5   75   3   5   5   75   3   5   5   75   3   5   5   75   3   5   5   75   3   5   5   75   5   75   7				Examination	4	3	23	13	100	4
III			23U3FRP411	Core Paper XI - Questioned Document	4	2	20	4.5	7.5	2
1V   23U3FRR406   Allied Paper VI -Forensic Biology   4   3   40   60   100   4				Examination Practical	4	3	30	45	/5	3
1V   23U3FRR406   Allied Paper VI -Forensic Biology   4   3   40   60   100   4			23U3FRA405	Allied Paper V - DNA Fingerprinting	3	3	20	55	75	3
V   23U3FRK406   Practical   4   5   40   60   100   4				<u> </u>						
23U4FRS402   Skill Based Paper II - Research methodology and Statistics   3   3   20   55   75   3	IV		23U3FRR406		4	3	40	60	100	4
1V									†	
IV   22U4NM4BT2/		IV	23U4FRS402		3	3	20	55	75	3
IV   22U4NM4GEN   ##Advanced Tamil - II   2   3   50   50   2			22HANMART2/							
IV					2	3	50		50	2
VBOEC					2		3	U	30	
VBOEC										
23U4FRVALC				<u> </u>	2	3	-	50	50	2
23U4FRVALC   Add on course- Institute Industry   -   -   -   -   -   Grade			23U4FRVALC			<u> </u>				
Linkage   30   675   27					-	-	-	-	-	C 1.
23U3FRC512   Core Paper XII - Serology and DNA   Typing   5   3   25   75   100   4				<u> </u>						Grade
23U3FRC512   Core Paper XII - Serology and DNA   5   3   25   75   100   4				Linkage	20				<b>(==</b>	<b>2</b>
III   23U3FRC512   Typing   5   3   25   75   100   4				Q D YYY 2 1	30				675	27
III 23U3FRC513   Core Paper XIII - Forensic Medicine and Anthropology			23U3FRC512		5	3	25	75	100	4
V 23U3FRC513 and Anthropology 3 3 20 55 75 3		III						, 5	100	
V and Anthropology V 23LI3FP C514 Core Paper XIV - Introduction to 5 3 20 55 75 3			23U3FRC513	_	5	3	20	55	75	3
				1 0,	3	3	20	33	13	5
Digital Forensic Science	V		23U3FRC514		5	3	20	55	75	3
· · · · · · · · · · · · · · · · · · ·				Digital Forensic Science	3	3	20	33	13	3

		23U3FRP515	Core Paper XV - Forensic Serology Practical	4	3	30	45	75	3
		23U3FRE501/ 23U3FRE502/ 23U3FRE503	Discipline Specific Elective Paper - I	5	3	25	75	100	4
		23U3FRV618	Core Paper XX - Project Viva Voce	3	-	_	-	_	-
	IV	23U4FRS503	Skill Based Paper III - Internship	3	3	30	45	75	3
				30				500	20
		23U3FRC616	Core Paper XVI - Forensic Toxicology	5	3	25	75	100	4
		23U3FRP617	Core Paper XVII- Toxicology Practical	4	3	30	45	75	3
		23U3FRV618	Core Paper XVIII - Project Viva Voce	6	3	30	45	75	3
VI	III	23U3FRE604/ 23U3FRE605/ 23U3FRE606	Discipline Specific Elective Paper - II	6	3	25	75	100	4
		23U3FRE607/ 23U3FRE608/ 23U3FRE609	Discipline Specific Elective Paper - III	6	3	25	75	100	4
	IV	23U4FRS604	Skill Based Paper IV - Outdoor Training	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 Cossifis	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	С	Criminology and jurisprudence
Dissipling Considia	23U3FRE607	Α	Forensic Finance
Discipline Specific Elective – III	23U3FRE608	В	Mobile and Wireless Device Forensics
Elective – III	23U3FRE609	С	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	111	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	<b>Course Code</b>	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	Competer 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

Bos Chairman
Department of Forensic Science
Nehru Arts and Science College (Autonomous)
Coimbatore, Tamil Nadu-641105.

Cou	ırse Code		Title		
23U	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		ர / குழு விவாதம்	ஒப்படைவு
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 പെൻനുബ	யாண் வெயி எஸ் <u>த</u> மரப்ப	நிறைய அறைகள் உள்ள வீடு யானை டாக்டர் வெயிலோடு போய் எஸ்தர் மரப்பாச்சி 12 Hours			
V	V தமிழ் இலக்கிய வரலாறு				ods: சிறுகதை படைக்கும் திறன் பெற்றமை  1. புதுக்கவிதையின் தோற்றமும் வளர்ச்சியும்  2. சிறுகதையின் தோற்றமும் வளர்ச்சியும்  3. படிமம், குறியீடு பற்றிய — விளக்கம்					ā	5மிழ் இலக்கி 12 Ho	,	று	
Suggeste	ad I parr	ning N	lethods	• /Œ/IC	விவா	·Æiņ	IIISt	uctio	nal Hour	3	12 110	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.இ6 நிறைய	ாங்கும அறை	லக்கியம் - உரையாசிரியர் ஒளவை. துரைசா ரங்குமரனார், முனைவர்.பி.தமிழ்மகன், தமிழ்மன அறைகள் உள்ள வீடு - குட்டிரேவதி எழுத்த து வீதி, சென்னை.				ழம <b>ண்</b> அ	முக்கட்டளை,	சென்னை			
Web	. URLs		https://	youtu.l	oe/2SM	1M5Lv	ZYo0							
				Tools	for As	sessme	ent (20 N	Marks)	)					
CIA	ΑI	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	(പകൃത 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	പുലനം	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	
Sugges	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	കരളത ൂ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						Semin:	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   Unit   Description   Text Book   Chapte Book    CO 9   Instructional Hours    CO 1   Instructional Hours    CO 2   Learn Futur proche, Pronominal verb,    CO 3   Learn Futur proche, Pronominal verb,    CO 4   Learn Futur proche, Pronominal verb,    CO 5   Know to self-introduce and translate simple sentences    CO 6   Tutorial / Case Studies    CO 7   Group project    Course Content   Instructional Hours    CO 8   Text Book    Chapte Book   Chapte    CO 9   Instructional Hours    CO	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				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								
		TOTAL STREET											
	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, I	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 inications.	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	Introductive 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, 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	"   Interence   Test   Test   This ervation   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	-	-	-	-	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
~			35.3				NO 3.5			uctio	nal Hour	S	<u> 15</u>
Suggest				ds: R	eferen	ce to I	DFS Ma	anual	<u>S</u>			<u> </u>	
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	Alcohol and Intoxication  Beverages-Introduction and Classification, Fate of Alcohol in Body, Alcohol Intoxication, Breath Alcohol Estimation, Blood Alcohol Estimation, Legal Provisions Regarding Intoxication, Common Alcoholic Beverages, Country Made Liquor and Illicit Liquor, Chemical and instrumental analysis of ethanol and methanol.									4		5	
,									Insti	uctio	nal Hour	s	<del>15</del>
	Instructional Hours  ggested Learning Methods: Reference to DFS Manuals												
Suggest	leu Lea	rning	Metno	as: K	eteren	ce to I	DFS Ma	anual	S				
Suggest	led Lea	rning									tal Hour		Hrs
Suggest Text Bo		rning	2 3	Science Scienc	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
		rning	1 2 3 4	DFS Scie Scie DFS Scie Fore Neh	Manuence, G Manuence, G Manuence, G Manuence, G ensic C ru Art	ual- Pe fovt. o ual- Ex fovt. o ual- N fovt. o Chemis s and S metho	etroleun f India cplosive f India arcotics f India stry: Co Science ds of	n: Pub es: Pub compile Colle	olished bed by Dege Coim	y Dire by Dire y Dire ept. o	ectorate of ectorate of Forensia	f Foren  f Foren  f Foren  c Scien	sic sic sic ce,
	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,
Text Bo	ooks		1 2 3 4	DFS Scie DFS Scie Fore Neh Star Nos Fire	Manuer, G Manuer, G Manuer	ual- Person of the control of the co	etroleun f India splosive f India arcotics f India stry: Co Science ds of old; 6 <sup>th</sup> ence; Ali	n: Pub es: Pub ompile Colle chemedition nirall	olished bed by Deed by Deed by Deed by Deed ana	by Directly Directly Directly Object of the	ectorate of ectorate of Forensie.	f Foren f Foren f Scien Frank	sic sic sic ce,
Text Bo	ooks nce Boo	ks	1 2 3 4 1 2	DFS Scie DFS Scie Fore Neh Star Nos Fire	Manuence, Go Manue	ual- Person of the control of the co	etroleun f India cplosive f India arcotics f India stry: Co Science ds of old; 6 <sup>th</sup> co nce; Ali	n: Pub es: Pub compile Colle chemicalition mirall	olished be blished by D ge Coim loal ana h. JR&F Marks)	by Directly	ectorate of ectorate of Forensies. Welcher	f Foren f Foren f Scien Frank C Press	sic sic sic ce, ; Van
Text Bo	ooks ace Boo	ks	1 2 3 4 1 1 2 A II	DFS Scie DFS Scie Fore Neh Star Nos Fire	Manuence, Go Manuence, Go Manuence, Go Manuence, Go Maruence, Go Marue	ual- Person of the control of the co	etroleun f India f Ind	n: Pub es: Pub compile Colle chemicalition mirall	olished bed by Dege Coimical ananan. JR&Fi Marks) Semina	by Directly	ectorate of ectorate of Forensies.  Welcher  K G; CRO	f Foren f Foren f Scien Frank C Press	sic sic sic ce, ; Van (2004)
Text Bo	ooks nce Boo	ks	1 2 3 4 1 2	DFS Scie DFS Scie Fore Neh Star Nos Fire	Manuence, Go Manue	Jal- Person of the state of the	etroleun f India splosive f India arcotics f India stry: Co Science ds of old; 6 <sup>th</sup> c essment essignme	n: Pub es: Pub compile Colle chemicalition mirall	olished be blished by D ge Coim loal ana h. JR&F Marks)	by Directly	ectorate of ectorate of Forensies. Welcher	f Foren f Foren f Scien Frank C Press	sic sic sic ce, ; Van
Text Bo	ooks nce Boo	ks	1 2 3 4 1 2 A II 4	DFS Scie DFS Scie Scie Fore Neh Star Nos Fire	Manuence, Go Manue	Jual- Person of the control of the c	etroleun f India aplosive f India arcotics f India arcotics f India atry: Co Science ds of old; 6 <sup>th</sup> once; Aln essment ssignmo 2 apping	n: Pub es: Pub compile Colle chemicalition ir (20 I)	olished be blished by D ge Coim local analon. JR & Formula Brown Marks) Semina 2	by Directory Directory Directory Directory Obstatory Ilysis;	ectorate of ectorate of Forensies.  Welcher  K G; CRO	f Foren f Foren f Foren c Scien Frank Press	sic sic sic ce, ; Van (2004)
Referen	ooks ace Boo	ks CI	1 2 3 4 11 4 PO3	DFS Scie Scie DFS Scie Fore Neh Star Nos Fire	Manuelle Man	Jal- Person of Sovt. o cual- No cual- N	etroleun f India splosive f India arcotics f India stry: Co Science ds of old; 6 <sup>th</sup> e nce; Aln essment ssignme 2 pping PO7	es: Pub compile Colle chemicalition irall c (20 I	olished bolished bed by Doge Coimical ananan. J R & Foundaries  Seminaries  2	by Directory Dir	ectorate of ectorate of Forensie.  Welcher  K G; CRC  Quiz  3	f Foren of Foren f Foren c Scien Frank Press	sic sic sic ce, ; Van (2004) ctal 20
Referen	ooks  A I  4	CI PO2	1 2 3 4 II 2 PO3 H	DFS Scie Scie Fore Neh Star Nos Fire C PO4	Manuence, Go Manue	Jal- Person of Jal- Export. O pall- November of Sovember of Sovemb	etroleun f India splosive f India arcotics f India arcoti	es: Pub compile collected chemical c (20 I) ent PO8	olished bolished bed by Dege Coimical analon. JR & Formula (Marks) Semina 2  PSO1 L	by Directory Dir	ectorate of ectorate of Forenside.  Welcher  K G; CRO  Quiz  3	f Foren of Foren of Foren of Scien Frank C Press (  PSO4 L	sic
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Reference CIA  CO\PO CO1 CO2 CO3	PO1 H H H	RS CI	1 2 3 4 11 4 PO3 H H H M	DFS Scie Scie Fore Neh Star Nos Fire CI PO4 L L H	S Manuschee, G Man	Jal- Person all Person	etroleun f India splosive f India arcotics f India arcotics f India stry: Co Science ds of old; 6 <sup>th</sup> e nce; Aln essment ssignme 2 pping PO7 H H H	es: Pub compile Colle chemicall c (20 f ent  PO8 L L L	olished bed by Dege Coimical analon.  J R & France Marks)  Seminary  PSO1  L  L  L	py Directory Dir	ectorate of ectorate of Forenside.  Welcher  K G; CRC  Quiz  3  PSO3  H  H  H	Frank  Press  Provided L  L  L	sic
CO   PO   CO1   CO2   CO3   CO4	PO1 H H H	PO2 M M M M	1 2 3 4 II 4 PO3 H H M M	DFS Scie Scie Fore Neh Star Nos Fire  P04 L H L	S Manuschee, G Man	ual- Person of the second of t	etroleun f India splosive f India arcotics f India arcoti	es: Pub compile chemicalitical c (20 I) possible	blished blished blished blished by Dige Coimical analon. JR & Final Marks) Semina 2 PSO1 L L L H	py Directory Dir	ectorate of ectorate of ectorate of Forenside.  Welcher  K G; CRO  Quiz  3  PSO3  H  H  H  L	Frank  PSO4  L  L  L  M	sic
Text Bo	PO1 H H H	Residence of the second	1 2 3 4 11 4 PO3 H H M M H	DFS Scie Scie Fore Neh Star Nos Fire  PO4 L L H L L	S Manuschee, G Man	Jal- Person all Person	etroleun f India splosive f India arcotics f India arcotics f India stry: Co Science ds of old; 6 <sup>th</sup> e nce; Aln essment ssignme 2 pping PO7 H H H	es: Pub compile Colle chemicall c (20 f ent  PO8 L L L	olished bolished bolished by Doge Coimical analon.  J R & Formalis Seminary  PSO1  L  L  L	py Directory Dir	ectorate of ectorate of Forenside.  Welcher  K G; CRC  Quiz  3  PSO3  H  H  H	Frank  Press  Provided L  L  L	sic

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

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Course	Code		Title				
22U4E	NV101		<b>Ability Enhancement Compulsory Cou</b>	rse - Envir	onmental	Studies	
Semes	ter : I		Credits : 2	C	ZIA: 50 M	arks	
			(Common to all UG Programmes)				
Course	Objectiv	e	This course enables the students to recomultiple factors in environmental challeng competently matters of environment conc	ges and con			
Course	Category	7	Employability				
Develop	ment Ne	eds	National & Global				
			Course Outcomes	Teach Meth		Assessment Methods	
CO 1	Underst and soc evaluati	Lect Video L		Album Preparation			
CO 2	Underst physica environ	1 s	Lect Peer Te		Album Preparation		
CO 3		onme	cical, cross-cultural, and historical context ental issues and the links between human systems.	AB Gro Discus	up	Group Discussions	
CO 4	citizens	, con	cally about their roles and identities as sumers and environmental actors in a erconnected world.	Video L Gro discus	oup	Group Discussions	
CO 5	and ur	nderst	and interactions between social and al processes.	Field	visits	Field visit Report	
Course	Content			Instruct	ional Hou	rs / Week: 2	
Unit			Description		Text Book	Chapters	
I			urces: Forest resources, Water resources, Ind resources, Energy resources and Land re		1	2	
				Instruction	nal Hours	6	
Suggest	ed Learn	ing N					
II	III Ecosystems: Concept of an ecosystem, Structure and function; Introduction, types, characteristic features, structure and function of ecosystem - Forest ecosystem, Grassland ecosystem, Desert ecosystem, Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries).  Activity: Prepare an album on types of Ecosystem.						
				Instructio	nal Hours	6	
Suggest	ed Learn	ing N	<b>Iethods: Peer Teaching</b>				
III	control pollution managen	meas n, Ma nent.	al Pollution: Definition Causes, effeures of Air pollution, Water pollution and Noise pollution, Solutions the solutions for water pollution	on, Soil id waste	1	5	
				Instruction	nal Hours	6	
Suggest	ed Learn	ing N	<b>Iethods : Group Discussion</b>				

<u>.</u>	ssue in your local		Social	Issu	eness. e and	an	1		6		
	•	Ť			Instr	uctiona	l Hour	s	6		
<b>Suggested Learning Met</b>	ethods: Role Pla	y									
V Landslides: From main elements o	nagement: Floor om management of of a mitigation an yelones and Lands	to miti		of dis		The	2		16		
	-				Instr	uctiona	l Hour	S	6		
<b>Suggested Learning Met</b>	ethods : Group D	<u>iscuss</u> i	on								
<b>Field Work:</b> Visit to local Mountain), Visit to local plants, insects, birds, Stud	al polluted site (Ur	ban / l	Rural /i	ndustr	ial / Ag	ricultura es.		y of co			
1 0	Shashi Chawla. A	Toyt R	ook of	Enviro	nmanta						
$\frac{1}{\text{Rook}(s)}$	Shashi Chawia. A 2012. From UGC website										
Reference       3. M         Book(s):       Section         4. O       5. R	Himalaya Pub.Hou Mckinney, M.L. & Solutions Odum, E.P. 1971 F Rao MN &Datta, A Publication Co. Pv <b>Tools for</b>	School Fundan A.K. 19 t. Ltd.,	h R.M. nentals ( 987 Was , 345 p.	1996. l of Eco	logy. W ter treat	.B. Saur	nders Co	o. USA			
	1 0018 101					4 •					
•	Field visit and port submission		ated to	their l	is abou ocality / nageme		CI Te		Total		
10	10			5	_		25	5	50		
		Ma	pping				<b>.</b>	· ·			
CO \ PO PO1 PO2 PO	PO3 PO4 PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5		
	L H H	Н	Н	L	L	-	-	-	-		
CO2 L - 1	L H H	Н	Н	L	L	_	_	_	_		
	L H H	Н	Н	L	L	_	_		_		
	L H H	Н	<u>н</u>	L	L	_	_		_		
		11	11	L	L	-	-	-	-		
H-High; M-Medium; L-L											
	designed by				Vor	fied by	Chairr	ากา			

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 அற்றத்துற்றுக்குறியத்தி படும்குற்றுக்குற்றுக்குற்றுக்குறிக்குற்றுக்குறிக்குற்றுக்குறியத்தி படும்குற்றுக்குற்றுக்குற்றுக்குற்றுக்குறியத்தி படும்குற்றுக்குற்றுக்குறியத்தி படும்குற்றுக்குறியத்தி படும்குறியத்தி படும்குற்றுக்குறியத்தி படும்குற்றுக்குறியத்தி படும்குற்றுக்குறியத்தி படும்குறியத்தி படும்குறியத்தி படும்குறியத்தி படும்குறியத்தில் படும்குறியத்தில் படும்குறியத்தில் படும்கி படும்கள் படும்குறியத்தில் படும்குறியத்தில் படும்குறியத்தில் படும்கியத்தில் படி	Sen	nester: II	Credits: 3	CIA:	20 Marks	ESE: 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 விறிவுறை குமுத்திட்டம் விறிவுறை/காணெளிப்பட விறிவுறை அப்படைவு தமிழ்க்கும் விறிவுறை/காணெளிப்பட விறிவுறை/காணெளிவுற் அப்படைவு தமிழ்த்துறை  CO 4  இலக்கண அறுவை வளர்த்தல் விறிவுறை/காணெளிவுற் அப்படைவு தமிழிக்கும் விறிவுறை/கமும் கருத்துரங்கு பிறிவுறை/கரும் இலிக்கிய வரலாற்றுத்திற்கை மேப்பாடு விறிவுறை/கழும் கருத்துரங்கு பிறிவுறை/கரும் இவிவியற்றியில்கும் விறிவுறை/கரும் கருத்துரங்கு கரும் திறிவுறை  Offered by தமிழ்த்துறை  Course Content: Pynthamizh (பைந்தமிழ்)  Instructional Hours / Week : 4  Unit Description Text Book & Chapters  1. திருநாவுக்கரச் திறுவரங்கமாகலை  Instructional Hours  Suggested Learning Methods: ஆன்மிக் சிந்தனைத்திறன் பெற்றமை  1. கலம்பகம் - நந்திக்கலம்பகம் தறவஞ்சி சிற்றுமைக்குறவஞ்சி 4. பிள்ளைத்தமிழ் - மீனட்சியம்கை 1-10 செய்யுள்கள் 1-10 செய்யுக்கி 1	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 கிரிவ்றை அப்படைவு கிரிவரை குழுத்திற்கு மேப்பாடு விரிவரை குழுத்திற்கு மேப்பாடு விரிவரை குழுத்திற்கு குறுத்திற்கு குறுத்திற்கு மேப்பாடு விரிவரை குழுத்திற்கு கிரிவரை குழுத்திற்கு கிரிவரை குழுத்திற்கு கிரிவரை குழுத்திற்கு கிரிவரை குழுத்திற்கு மேற்கும் மூற்கு திரும் மூன்றாம் தந்திரம் (அத்காரம் 2) உரும்பாடு விரிவரை குழுக்கிகள் கிருந்பத்திக்கிய கிருந்பத்தியில் கிருந்பத்தியில் கிருந்பத்தியில் கிருந்பத்தியில் கிருந்பத்தியில் கிருந்பில் கிறுந்பில் க	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. திருநிவுக்குருர் பெற்றுமை கருமுறை 4. திருநிவுக்குருர் பெற்றுமை கருமுறை 1. கலம்பகம் துறுக்கலம்பகம் 2. பள்ளு – முக்கடற்பள்ளு 350 - 360 செய்யுள்கள் 4. பிள்ளைத்துமிழ் - மீனாட்சியம்மை பின்கைத்திரன் பெற்றமை பின்கைத்துரிர் பிருக்குற்றாலக்குறுவஞ்சி 1-10 செய்யுள்கள் 4. பிள்ளைத்துமிழ் - மீனாட்சியம்மை பின்கைந்துமிழ் 5. பட்டினத்துளிர் பாடல்கள் 358 - 367 பாடல்கள் 1 - 10 செய்யுள்கள் 1 - 10 செல்லாத பணம் 10 சிருத்துரின் மூறுக்குற்கு கிறுக்குற்கு கிறுக்குற்கு கிறுக்குக்குற்கு கிறுக்குற்கு கிறுக்குற்குற்கு கிறுக்குற்கு கிறுக்குற்கு கிறுக்குற்கு கிறிவுன் கிறிவுக்குற்கு கிறுக்குற்குற்கு கிறிவுக்குற்குற்கு கிறுக்குற்கு கிறுக்குற்கு கிறுக்குற்கு கிறுக்குற்கு கிறிவுன் கிறி	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  12 Hours	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	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	2. பள்ளு — முக்கூடற்பள்ஞ 3. குறவஞ்சி — திருக்குற்றா 4. பிள்ளைத்தமிழ் - மீனாட் பிள்ளைத்தமிழ்				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						
1. சிற்றிலக்கியத்தின் தோற்றமும் வளர்ச்சியும் V தமிழ் இலக்கிய 2. புதினத்தின் 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	''வை கல்		ழ்" தெ கோயம்		լ: தமிi ர்.	<u>ழ்த்து</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			
	Г	or. S. S	athees	ı kuma	nr					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	urse Outcomes Teaching Methods Assessme									
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	छात्र वि में प्रदिष् व्याख्या में सक्षग	र्रीत क करने 1 होंगे	Case Studies	Grou	p Project					
CO 3	छात्र औ सक्षम ह	Se	minar							
CO 4	अनुवाद बनाता	Assi	Assignment							
CO 5			प्रा के वक्ता के साथ किसी भी सामान्य भन्न स्तरों पर बातचीत करने में सक्षम	Lecture / Dumb Charades	Seminar					
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									
				Instruction	al 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 l	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					<b>क्षिक -</b> 5 5 दो <sup>र</sup>				गनदार	3.	5		1,2
									Insti	ruction	al Hou	rs	12
Suggest	ed Lear	rning l	Metho	ds: C	omprehen	sive writ	ing					02	2 Hrs
										To	tal Hou	rs	60
Reference Books       1. रिश्मरथी / रामधारी सिंह "दिनकर" - किवता कोश         2. सरस एकांकी नाटक : डॉ. रामकुमार वर्मा         3. अनुवाद अभ्यास - 3 दिक्षण भारत हिंदी प्रचार सभा , चेन्नई -1         1. श्रेष्ठ हिन्दी एकांकी -डॉ विजयपाल सिंह         2. बोलचाल : पं० अयोध्या सिंह उपाध्याय         3. हिंदी व्याकरण निबंध और पत्र लेखन -डॉ. एन. एल. माथुर													
Web. U	RLs		www	.webd	unia.con	n							
				T	ools for A	Assessn	nent (2	20 Mai	rks)				
CIA	I	CI	A II	CIA III Assign ment				S	eminar		Group project	Total	
4			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	bv					Verif	ied by		
Course designed by  Dr. S.Swarnalatha								Dr.S.Swarnalatha					

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Course	e Code						
23U1M	[AL202	Part	t – I: Novalum Bhashaapadanavu	ım (നോവലും ഭാഷാഹ	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	ment 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	Seminar	
CO 4	സമ തിര	ൂഹത റിച്ചറി	തിലെ ഭാഷാസങ്കല്പം  യുന്നു	Lecture / Video Methods	Assi	ignment	
CO 5			് എങ്ങനെ സൃഷ്ടിക്കാമെന്ന് ക്കുന്നു	Lecture / Dumb Charades	Se	eminar	
Offered	by Ma	alaya	lam				
Course	Content			Instructional Hours /	Week: 4		
Unit			Description		Text Book	Chapters	
I	നോവൽ	- ત(	്വ)ൻമകജെ		1	1 to 16	
a				Instruction	al Hours	12	
Suggest	ted Leari	ning l	Methods: Visual Learning			02 Hrs	
II	നോവൽ	ં - ત(	്വ)ൻമകജെ		1	17 to 34	
a				Instruction	al Hours	12	
Suggest	ted Leari	ning I	Methods: Auditory Method			02 Hrs	
III	നോവൽ	ં - ત(	്വിൻമകജെ		1	35 to 51	
C .	17	•		Instruction	al Hours	12	
			Methods: Comprehensive Writing			02 Hrs	
IV	ഭാഷാപ	OMo	- തെളിമലയാളം		1	1,2,3	
C .	1.7			Instruction	al Hours	12	
Suggest	ted Leari	nıng 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	2. പ	ിം.എൻ	.കാരഗേ	രറി, രെ	രിമല	യാദം	ജെ - ഡി. - ഡി	ി.സി.ബ	ചുക്സ് ശ	കാടയ	<b>)</b>
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	ിയുടെ 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		nment	Group		Total			
4			4		5		2		2 3		2	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. RAJA	ANI			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 course, to create cultural awareness.	-						
Course	Outcomes		Teaching Assessment Methods 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		Grou	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
										Instr	ructio	nal	Hours	S	12
Suggest	ed Lear	rning I	Metho	ds : Tr	anslat	ing s	imple	sente	nce	es and s	hort	pas	sages		
											T	otal	Hours	5	60
Tex	kt Book	S			éthode orothée		3			-Noëlle 9)	Coct	on,	Anouch	nka De	
Reference Books A1 Echo Méthode de Français															
We	b. URL	ıS	Lingu	ıa.com	, TV 5	app,	Lear	n Fren	ch	by podc	ast (s	spot	ify)		
				T	ools fo	or As	sessm	ent (2	0 N	(Iarks)					
CIA	I	CL	A II	C	IA III	A	ssign	ment		Semina	ar	(	Quiz	To	otal
	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. M	Ialathi							Dr. R	. N	Ialathi					

Cou	rse Code		Title							
23U	2ENG202	Part – II : Pr	ofessional English -	- II						
Sem	nester : II	Credits: 3	CIA: 20 Marks	ESE:	55 Marks					
		(Common to all UG P	rogrammes)	1						
Course	Objective	To equip the students with the language skills and its functional usage. Facilitate the insight and taste of Literature.								
Course	Category	Skill Development								
Develop	pment Needs	Global								
Course	Course Description   SD: Helps to develop LSRW skill									
Course Outcomes Teaching Methods Assessment										
CO 1	Mastering li	fe skills through prose discourse.	Lecture/Tutorial	Assignment						
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	Re	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			ng							
ш	Short Stories Mark Twain - The Cat and the Painkiller Japanese Folk Tale - The Envious Neighbour Hector Hugh Munro (Saki) – The Open Window Reading Activity – Pronunciation practice and enhancement from Short-stories									
			Instruction	al Hours	12					
Suggest	ted Learning I	Methods : Classroom Activity								

IV	Grami Article Concor Active Direct Writin	s d and Pa and Ind	direct S	Speech		riting v	ısing gı	amma	r Compo	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									1		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	
Referen	ce Boo	ks	CLII TAN	Co SCHE	ntent NOTI	& La E: (Tex	nguage kt: Pres	Integ cribed	sh NASegrated I chapter e college	Learning s or pag				
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	tal	
1	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	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		
	radeek							: R. M						

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 of firearms and tool marks. The and analysis of ballistics expressions are supported by the support of the support	The course includes featu				
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		
	Introduction to Ballistics Scope of forensic ballistics- History of firearms: lock mechanism of various firearms- Firearms: Classification: Based on riffling, action mechanism and loading- Parts of firearms: Butt. chamber							
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 forcer carbine,  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 forcer carbine, 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	External Ball motion of protrajectory- can nature of air-r Physics of shot temporary and	istics and Terminal Ballistics: istics: Definition, vacuum trajectory, Equations of ojectile, gyroscopic equilibrium of bullets, vacuum leulation, effect of air resistance on trajectory and esistance phenomena. Terminal Ballistics: Definition. ock waves, shock waves within the body; Cavitations, I permanent cavities. Behaviour of various types of ing the target, Ricochet and its forensic aspects.	1	4		
	ounces on mee	Instruction	al Hours	12		
Sugges	sted Learning N	Methods: Hands on training	ar Hours	12		
	<b>Evidentiary</b>					
IV	Calculation of shotguns: B Characteristic Types, occurred Bullets and case of bullets and striations. Gurpositioning of	f trigger pull Determination of range of firing for urning, scorching, blackening and Tattooing. s of contact shots, Walker's test. Evidentiary clues: ence, collection and packing. Matching of crime & test artridge cases. Comparison microscope, Identification their comparison. Factors affecting the formation of a Shot Residues (GSR): formation, composition and GSR. Collection, chemical methods of analysis and methods of analysis.	1	5,6		
		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				
- 66	<u> </u>		al Hours	60		
Text B	Books	1. Sharma, B.R. (2017) Firearms in criminal trials: An integrative approach. Gurgaon, Har Nexis.	investigati	on and		
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 Ba England, 1997.</li> <li>TA. Warlow; Firearms- The Law and Forensic and Francis London, 1996.</li> </ol>	ion, Identification and 1977. ess, Washington, DC, Ballistics, John Willey			

	Tools for Assessment (25 Marks)												
CIA	I	CL	A II	C	IA III	As	signn	nent	Semin	ar	Quiz Total		tal
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	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				Verifi	ed by C	hairma	an	
Mr. Akh	il Benn	ny					N	⁄Ir. Ak	hil Benn	y			

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	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	
	Content			Instruct	onal Hours	s / 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	Microscopy Lens systems, Principle of microscopy, Abbe equation, ray diagrams, working, sample preparation and applications of following in Forensic Science: Simple and Compound microscope, Stereo microscope, Comparison microscope, Phase contrast and Polarized light microscope, Fluorescent microscope, and Scanning electron microscope.					
					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	tograp rces- alyzer cup, el Mass	hic in EI, E s- Qua ectron spectr	lets, Id SI, Cl adrupol multip ograph	onization I, FAI le, Tim plier, S	on- io 3; va ie of F Scintil	nization cuum sy light, Ion lation co	types ystem. n trap. ounter.	1		16
~F								Instr	uctiona	l Hour	s	12
ted Lea	rning l	Metho	ds: Oı	nline t	rainin	g						
						<u> </u>			Tota	l Hour	s	60
		1	MI	A Sko	nog De	ามฮโลร	Δ Pr	incinles				
oks		1			_	_		-		umema	1 mary	313.
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
					Mai							
PO1	PO2	PO3	PO4	PO5			POS	PSO1	PSO2	PSO3	PSO4	PSO5
L	M	-	Н	-	Н		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	V				Verifi	ed by (	Chairma	an	
Mr. Akhil Benny						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  Course	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  The spectrometry in fore  Tooks  The spectrometry in fore  The spect	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: Saurant Sau	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 Assignmatic Application of Mass Spectrograph in the Hole Hole Hole Hole Hole Hole Hole Hol	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	Categoi	ry	Employability					
Develop	ment N	eeds	Global/National					
Course	Descrip	tion	firearms and tool marks	Forensic Ballistics deals with Forensic Analysis of evidences related to irearms and tool marks. The course includes features, collection nethods and analysis of ballistics 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 Forensic 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	"   Interence   Lest   Lest   Libervation   Lotal											
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	ourse Code Title									
23U3F	RA202		Allied Pap	er 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	lass and deduce glass  Lecture/Demonstration						
CO 2	Ability	to in	dividualise soil samples	dualise soil samples Lecture/ Case studies						
CO 3	Compa the sou		rious paint samples to find put	Lecture/Demoi	nstration		Seminar			
CO 4	Restore erased identification marks  Lecture/Video lecture/reform quality test for building materials  Lecture/Demonstr				lecture		Quiz			
CO 5	Perform	Perform quality test for building materials Lecture/Demonstration				A	ssignment			
Offered	Offered by Forensic 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 ographic	1	Sec 5			
			1		ructiona	l Hours	9			
Suggest	ed Learı	ning I	Methods: Online training							

	Rocto	ration o	of Frac	ad or	Ohlite	ratad	mark	3				<u> </u>					
		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						
	Брссс	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. 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;			
			Forensic Interpretation of Glass Evidence, CRC Press, 2000.  10. David A. Crown; the Forensic Examination of Paints and Pigments,														
			10						isic	Exami	nation o	f Paints	and Pigments,				
				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/			
*** 1 ***	D.T.																
Web. U	KLS		2.	P000694/M014098/ET/1516190217FSC_P7_M6_e-text.pdf  2. https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/S000016FS/													
					10			ET/1456988181FSC_P7_M24_e-text.pdf									
				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	Н	M	-	Н	L		-	Н	Н	M	L			
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			Code 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 features of Demonstration Video Lessons				P	ractical					
CO 2 Ide							P	ractical				
CO 3 Ge	t familiaris	sed wit	h DFS manu	ıal		Demonstrat Video Lesso	ons	P	ractical			
CO 4 Ch	emical test	s for a	nions and ca	tions		Demonstrat Video Lesso		Practical				
(1)5	entification terial evid		forensic rel	evance (	of	Demonstrat Video Lesso		P	ractical			
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	one and catio	1	of different compounds in ppm and ppb levels.							
		rsis of anions and cations by methods/tests prescribed by DFS.  ty gradient analysis of soil samples.										
6	-			-			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	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	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 - Funda					
	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 Constitutional Safeguards – Female foeticide and infanticide-Physical assault and Harassment- Domestic violence-					
III	Conditions of Working Women					
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 measures – 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	Tit	le
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,
III	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.
14	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	<b>யு</b> றம் சார்ந்த சிந்த6ை	ரகளை <u>உரு</u> வாக்குதல்				
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 குழுத்திட்ட				
CO 3		வர்களி மாக்குத		நாலத்திற்கேற்ப மொழிவ	ார்ச்சியை	விரிவுரை/ காணொளிப்பட ஒப்ட விளக்கம்				
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	கருத்தரங்கு			
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	1.1அடைக்கலக்காதை (மதுரைக்காண்டம்-பகுதி- 15) 1.2.பீடிகைக் கண்டுபிறப்புணர்ந்தக் காதை-பகுதி-9) 1.3.பூமகள் இலம்பகம் (பகுதி- 11-2347-2377 பாடல்கள்) 1.4சுந்தரகாண்டம்(கடல் தாவுப்படலம் 1- <b>1</b> 0பாடல்கள்)				
				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	2.1.திருநல்லூர்ப் பெருமணம் (பாடல் எண்-4137-4146) 2.2.ஆண்டாள் திருப்பாவை - (பாடல் எண்- 474-483) 2.3.சுவடியியல் - அறிமுகம் 2.4 சைவம் தமிழுக்குச் செய்த தொண்டு 2.5 வைணவம் தமிழுக்குச் செய்த தொண்டு					
				Instructional Hour			12 Hours			
Suggest	ed Learni	ing Me	thods:	பக்தி பாசுரங்கள் கலந்த	துரையாடல்					

CO5 H L M L H L M H H-High; M-Medium; L-Low									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	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	வளாச்சயும்					
ted Learn	ning Me	ethods	நாட்டுப்ப	புறவியல்	് ഖழി		•			<u> </u>	·	
					Ins			1		(3.19.0211,011g) IDI	12 Ho	
வழக்கா	<b>ாறுகள்</b>										பர் பல் /	து <u>ம்)</u>
நாட்டுப்	ப்புற		நாட்டுப்ப	நாட்டுப்புறவியல் 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	போழித்திறன் (இலக்கணம்)  ted Learning Methods : பொழித் நாட்டுப்புற வழக்காறுகள்  general Methods : நாட்டுப்ப இலக்கிய வரலாற்றுத் திறன் தமிழ்  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 CIA	(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 நோக்கிய நோக்கிய நாக்கிய நோக்கிய நோக்கிய நோக்கிய நோக்கிய நோக்கிய நோக்கிய நாக்கிய நோக்கிய நோக்கிய நோக்கிய நோக்கிய நோக்கிய நாக்கிய நோக்கிய நாக்கிய நாக்கிய நோக்கிய நோக்கிய நோக்கிய நோக்கிய நோக்கிய நோக்கிய நோக்கிய நாக்கிய நோக்கிய நாக்கிய நோக்கிய நோக்கிய நோக்கிய நோக்கிய நோக்கிய நாக்கிய நாக்கிய நோக்கிய நோக்கிய நோக்கிய நோக்கிய நோக்கிய நோக்கிய நாக்கிய நாக்கிய நாக்கிய 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 இன் ஆய்வு: டாக்டர் சு. சக்கிவேல் விஜயா புத்தன் கூறுவியல் கல் விஜயா புத்தன் கூறுவியல் கல் விஜயா புத்தன் கூறிய மாணவர்களுக்குரிய பாடி நாக்கில் விழுயாக்கில் கியாம் புத்தன் கூறிய பாடி கூறுவியல் கல் விழுயாக்கில் கியாம் பூதியியர்களுக்கில் விறுவர்களுக்கில் விறுவர்களுக்கிய வரலாறும் பூதிய கோக்கிய வரலாறும் கூறிய மாணவர்களுக்கிய வரலாறும் கூறியியர்களுக்கிய வரலாறும் பூதியர்களை இருவியர்களுக்கிய வரலாறும் பூதியர்களை இருவர்களுக்கிய வரலாறும் பூதியர்களை இருவர்களுக்கிய வரலாறும் பூறியர்களுக்கிய வரலாறும் பூறியர்களை இருவர்களுக்கில் விறுவர்களை இருவர்களுக்கியர்களுக்கியர்கள் பூறியர்கள் இருவர்களுக்கிய வரலாறும் பூறியர்களை இருவர்களுக்கியர்கள	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			ĢQI)		
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।	ng	Se	minar		
CO 3	समझें।	٠.	ा शब्दावली और व्यावहारिक त	on	Assi	gnment		
CO 4	छात्रों को	रचना	त्मक लेखन में अच्छा अभ्यास मि	ng ets	Group	Project		
CO 5	पाठ्यक्रम करता है		ादी हिंदी में पारंगत होने में	मदद	Worksheets a Exercises	nd	Se	minar
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

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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
Text Boo	oks		2	. কাৰ্	य सुम	न - र	राजपाल	एंड र	प्तन्स		ग मूर्ति )		
1. हिंदी नाटक और रंगमंच – डॉ राम कुमार वर्मा 2. ओंकार नाथ वर्मा , सामान्य हिंदी अरिहंत प्रकाशन इंडिया लिमिटेड													ड
Web. URLs  1. www.webdunia.com 2. https://www.hindikunj.com 3. www.bhashaindia 4. www.hindisamay.com													
Tools for Assessment (20 Marks)													
CIA I CIA II CIA III Assign								4	~ .		Group	_	
CIA	1	CL	A II	C.	IA III	AS	signme	ent	Semina	ar	Project	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	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	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	Development Needs 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	gnment				
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				
				Instruction	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 100 124) (1000 124) (1000 124) (1000 124)							
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.	2. കവിതാ സാഹിത്യ ചരിത്രം - ഡോ.എം.ലീലാവതി കേരള സാഹിത്യ അക്കാദമി, തൃശൂർ										
Reference Boo	oks		3.	സാഹിത്യ അക്കാദല്, തൃശൂര 3. ആധുനികത മലയാള കവിതയിൽ എൻ. അജയകുമാർ , 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	eminar Quiz			tal	
4			4		5		2	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	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 M L L M H L H M														
CO5			T											
CO5 M H-High; M-1	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	Peer Teaching	Se	minar		
CO 4	Le di	iscours o	urs direct et indirect Video Lecture / Lectures Group						
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 CIA III Assignment Seminar Quiz Total													
4 4 5 2 2 3											3	20	
Mapping													
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	dium; I	L-Low										
		Course	e desig	med by	V				Veri	fied by	Chairm	an	
	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 photostatic interest in the skills are supported by the skills are skills and human the skills are s	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	Reading				
CO 5	Interpret works in		ir understanding of English RW mode	Lecture/Tutorial	orial 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 Groupe Voce and Peferent c odals, and Ho	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	- IIISU	uctioni	11041	<u> </u>				
					<u>J</u>					Tota	l Hour	s	60			
Text Bo	Text Books Unit I–V: Compiled by the Department of English															
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	O	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	н м н м					
CO2	M	-	Н	-	Н	M	Н	M	Н	Н	М	Н	М			
CO3	M	-	Н	-	Н	Н	Н	Н	Н	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				Dr. R. 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	tion	Biometric impressions are techniques to develop and the potential culprit behind	compare them, stude		•	0 1
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.	Lecture/Demonstrat	ion	Se	eminar
CO 4	Locate, compar	re	Quiz				
CO 5 To analyse bite marks for its forensic significance. Lecture/Demonstration						Ass	ignment
			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  (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		l	Instruction	al 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, Preservation evidence in co	and lifting of various prints. Present of expert ourt. Judicial acceptance of miscellaneous prints.	1	5
			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	ooks	<u>.</u> ,	ment of	Forensic
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	nce Books	<ul> <li>examination of Fingerprints</li> <li>2. Chatterjee, S.K; Speculation in Fingerprint Identification and Jantralekha printing Works, Kolkata, 1981.</li> <li>3. Cowger James F; Friction Ridge Skin- Company of the Company of t</li></ul>	dentificatio	
Web. URLs 1. https://www.ojp.gov/pdffiles1/nij/225320.pdf	XX7 1 X	IDI c	1. https://www.oip.gov/pdffiles1/nii/225320.pd	f	

				T	ools fo	r Asse	essme	nt (25	Marks)					
CIA	I	CIA	4 II	C	IA III	A	ssignr	nent	Semin	ar	ar Quiz		Total	
,	5		5		6		3	3	3		3		25	
						Ma	pping	5						
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	-	-	
СО2 Н Н Н Н								L	-	Н	Н	-	-	
CO3 H H H H 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	e 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 be better 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			1	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	Deve	lop foot	prints 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	n Total	
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	M	-
CO2	CO2 H H L H L -						M	-	ì	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	cases.					
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.			
II	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	То	tal
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											
	Course designed by									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

											T			
	Reporting													
IV	Reporting of study results, archiving of records and materials,									1		4		
	enforcement of GLP-audits, noncompliance and consequences,											4		
	facility disqualification and reinstatement.													
Instruction											al Hour	S	9	
Suggested Learning Methods: Laboratory practice														
	NABL										1			
V	National accreditation board for testing and calibration												5	
	laboratories (NABL): requirement for accreditation, benefits,													
	scope and proficiency testing.													
										4.	1 77			
Instructional Hours 9														
Suggested Learning Methods: Online training  Total Hours												·c	45	
			1. Notes compiled by the department of Forensic Science, Nehru											
Text Books  Arts and Science College Coimbatore										20101	,			
1. Smith, J. (2021). Good Laboratory Practices Assessment														
			Test.											
Referer	ce Boo	ks	2. Jerry R. Mohrig; Laboratory Techniques in Organic											
11010101	200		Chemistry 2017											
3. Lynne S. Garcia; Clinical Laboratory Management 2019														
Tools for Assessment (20 Marks)														
CI		CI	A TT	1							O	Т-	4-1	
CIA I CI		<u>4 II </u>	II CIA III 5		Assignme 2		nent	Semina	аг	• Quiz 3		Total 20		
4   4   5   2   2   3   20														
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7		PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	H	M	M	M	H	Н	M	M	H	M	H	H	M	
CO2	Н	M	L	H	Н	M	M	M	M	Н	L	L	M	
CO3	Н	M	M	L	L	M	L	M	Н	Н	M	M	Н	
CO4	Н	M	L	M	Н	M	L	M	L	Н	Н	L	M	
CO5	Н	M	M	Н	M	L	L	M	Н	M	L	L	Н	
H-High	; M-Me	dium; l	L-Low											
Course designed by								Verified by Chairman						
Mr. Akhil Benny								Mr. Akhil Benny						
IVII. Akiin Deilily														

Course	e Code				T	itle				
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 Development ( மாணவர்களின் மொழித்திறனை ஊக்குவித்தல்)							
Develop	ment Neo	eds	Regional (தமிழ் மொழியின் அவசியத்தை 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 குழுத்திட்டம் விவாதம்					
CO 5	கையெர	ழத்துத்	திறன் பெறச்	)சய்தல்.		குழு விவாதம்	குழுத்திட்டம்			
Offered	by தமி	ி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	1.உயிர்எழுத்துக்கள் 2.மெய் எழுத்துக்கள் 3.உயிர்மெய் 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>			
П	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			

v	பிழைநீக்குதல்		இலக்கணம்		1.ஒந்றுப்பிழை 2.வாக்கியப் பிழை
			Instructi	onal Hours	6 Hours
Suggest	ed Learning M	ethods :	இலக்கணப்	பிழை இன்றி	எழுதும் திறன் பெற்றமை
			Т	otal Hours	30 Hours
Text Bo	oks	1.			வர்களுக்குரிய பாடநூல்"அரிச்சுவடி" தொகுப்பு: மற்றும் அறிவியல் கல்லூரி,கோயம்புத்தூர்.
Referen	ce Books	1. 2.	சென்னை-40	). யம், கணேலை	ால் பூலியூர்க்கேசிகன் உரை,சாரதா பதிப்பகம், சயர் பதிப்பு,உலகத் தமிழாராய்ச்சி நிறுவனம்,
Web. U	RLs	https://	/youtu.be/P7v	vUnjI6vY, ht	ttps://youtu.be/Zx4R3yZseuQ.

## **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 உருவாக்கும் திறன் வளர்த்தல் - மொழித்திறனை மேம்படுத்துதல்						
Course Cate	egory	Skill Development (மாணவர்களின் மொழித்திறனை ஊக்குவித்தல்)						
Developmen	nt Needs	Regional (தமிழ் மொழியின் அவசியத்தை உணர்த்துதல்)						
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		விரிவுரை / ஈணொளிப்பட விளக்கம்	குழுத்திட்டம்			
Offered by	தமிழ்	<b>ழ்த்து</b> றை						
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		ல் இலக்கணம்			ழை நீக்கம் 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>в</u> ⊩ 61(Ц	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	தன் பெந்நமை				
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 மாணவர்களுக்குரிய பாட நூல்"திரட்டு"தமிழ்த்துறை. தொகுப்பு: தமிழ்த்துறை,நேரு கலை மற்றும் அறிவியல் கல்லூரி, கோயம்புத்தூர்.</li> </ol>					
Reference F	Books	<ol> <li>பாரதியார்- பாரதியார் கவிதைகள், அபிராமி பதிப்பகம், 7- பி, கொடிமரத் தெரு, சென்னை— 013.</li> <li>பவணந்தி முனிவர் — நன்னூல் புலியூர்க்கேசிகன் உரை, சாரதா பதிப்பகம், சென்னை -040.</li> </ol>					
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	in India Peer Teaching							
CO 3	Understand the procedure about redressed of consumer complaints  Lecture/ Group Discussion							
CO 4		Learn about Consumer related regulatory agencies and Norms  Lecture/ Role Play						
CO 5	Comprehend Business Firms, Interface with Consumers.  Lecture/ Group Discussion							
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	The Consumer Protection Law in India Objectives and Basic Concepts: Consumer rights and UN Guidelines on consumer protection, Consumer goods, defect in goods, spurious goods and services, service, deficiency in service, unfair trade practice.							
		-	Instruction	al Hours	6			
Suggest	ed Learning	Methods : Peer Teaching			1			

III	Grieva Protect Who c Limitat Disposa Offence	aw e a c riod; Pr ses, Re	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	Role of Industry Regulators in Consumer Protection - Industry self-regulation (ISR) Protection Policies, Consumer Protection Agencies  i. Telecommunication: TRAI  ii. Food Products: FSSAI  Insurance: IRDA and Insurance Ombudsman										2		4
									Instr	uctiona	l Hours	8	6
Suggest	ed Lear	ning N	<b>1</b> ethod	ls : Ro	ole Pla	y							
V	Contemporary Issues in Consumer Affairs Consumer Movement in India: Formation of consumer organizations and their role in consumer protection, Misleading Advertisements and sustainable consumption. National											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 H H 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	
Course designed byVerifiedDr. R A AyyapparajanDr. R A Ayyapparaja										•			

Cours	e Code	,	<b>Fitle</b>								
22U4N	M3GST	Non Major Elective : Gender Sensitization									
Semes	ter : III	Credits: 2	ESI	E : 50 Mar	ks						
	•	(Common to all UG Programmes)									
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 Need	Local, National and Global									
Course	Description	n of overview of llenges in India, and nder sensitization to	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	ify the gender identity formation, types, ies, and socialization in India.  Video Lessons									
CO 4	enrollment	Understand the gender concerns in access, enrollment, retention, participation, and achievement.  Direct Instruction Assignment.									
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		Instructi		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									
II	Gender Discrimination: Gender Discrimination - Meaning and Causes of Gender Discrimination, Areas of Gender Discrimination, Gender Discrimination at Different Levels of Institutions										
			Instruction	nal Hours	6						
Suggest		Methods: Video documentaries and	d films								
III Gender Identity: Gender Identity - Meaning, Formation and Factors of Gender Identity, Types of Gender Identity, Types of Families in India, Gender Socialisation within Indian Families											
			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 Rape, Laws Related to Dowry - Dowry Prohibition 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>		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	g Matei	'otal Ho		30 LORE			
Text Bo	oks	1.					•						LORL			
	UNIVERSITY, Printed at Datacon Technologies, Bar											alore, 2018				
Referen	ce	1.	Unite	ed Nat	ions [	<b>D</b> evelop	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. Nandhini								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	E : 50 Marks					
		I	(Common to all UG Pro	grammes)					
Course	Objectiv	ve		o facilitate the awareness about the social, economical, political, atellectual or cultural contributions of Women in India.					
Course	Categor	ry	Skill Development	Skill Development					
Develop	oment N	leeds	National						
Course	Descrip	tion	Apply the knowledge of Rights	their bette	rment.				
Course	Outcom	Teaching Methods	Assessm	ent Methods					
CO 1	Aware	e of ba	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	Lecture/ Case Study/ Role Play	Rol	le Play			
CO 4	Grasp in Indi		ovisions for Women's Rights	Lecture/ Case Study/ Role Play	Role Play				
			understanding of the Iechanisms for women	Lecture/ Case Study/ Role Play	Assi	gnment			
Offered	by D	epart	ment of Social Work						
Course	Content	t		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 - Electric leader - presentation Rural and urb			ectoral process – women as vote essure group, 73rd and 74 <sup>th</sup> n of women in local self –gover	ets of Women in India: Political Rights of Women ctoral process – women as voters - candidates and essure group, 73rd and 74 <sup>th</sup> amendment and of women in local self –government – women in ban local bodies - Reservation of women - party lyomen's issues					
				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	iolenostation	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	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			Iethods: Library extra re 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					
										Tota	al Hour	s 30	Hrs
Text Bo	1 Notes compiled by the department of Forencia Science Nahry												
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	khil 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	0 Marks		
Course	Objective		Jurisprudence gives an ov or skill in law and the role		in depth kno	owledge of	
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	Assignment		
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				
	Legal Rights, Obligations, and Concepts  Concept of legal rights and obligations, Types of legal right fundamental rights, legal rights, and human rights, Relations between rights and duties. Legal concepts: justice, equal liberty, and rights. Theories of punishment: retributing deterrence, and rehabilitation Theories of law: analytic sociological, and natural law.					2	
11	liberty, a deterrence	and e, a	rights. Theories of pand rehabilitation Theorie	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	al Hour	rs	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>I</u>		1					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> ംഗതന്മ്വച്ചതം		<sub>ந</sub> ாந்பது நூரக்கோவை			முள்ளியார் (1-5 பாடல்க	·	
				1	•	Instructional Hours	12 Hours	
Sugges	ted Learning N	Methods	: அற இலக்கியா	ங்களி	ள் மாண்புககை	ா அறிய பெற்றமை		
IV	தமிழ்ச் செய	லிகள்	0. 0.		4.1 செயவ	ிகள் அறிமுகம்		
1 4			தனித்தமிழ்	4.2 வகைகள்				
	II.		ı		1			

									4.3 6	மாழி	பெய	тіца	ச் செயலி	கள்	
									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	₽IOIL	யர்த்த	<u>ை</u>	1	2 Hours	
Sugge	sted Le	arni	inσ N	Method	lc · @				ചനിവാ	் கிர	கன் பெ	സ്നൂത		2 110u15	
Dugge	stea Be	<u> </u>	<u>S</u> -	, i cui cui	<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	Γ		
		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	uction	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		2.	. कहाव . हर ह	नी कुंज ाल बेगा	, गोविंट ने - मृद्	,	न , म , राज	थुर पार			ल्ली		
Referen	1. संजय चौहान , समकालीन हिंदी साहित्य विचार और विवाद , 3 2. श्री रामदेव, व्याकरण प्रदीप, लोकभारती प्रकाशन, अलाहाबाद 3. डॉ वासुदेव नंदन प्रसाद, आधुनिक हिंदी व्याकरण और रचना, श्रे प्रकाशक 4. ओंकार नाथ वर्मा , सामान्य हिंदी , अरिहंत प्रकाशन भारत लि												भारती भव	
Web. Ul	RLs		1. 2. 3. 4. 5. 6.	hind www www https	w.hindi i-natak w.bhash w.hindi s://eboo	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.Swarnalatha									Dr.S	.Swa	rnalatha		

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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	രറ്  വ	് ലഭിക്കുന	നു.
Course	Category	Skill Development				
Develop	ment Needs	_				
Course	Description	Guide and encourage them to a	chieve their amb	itions		
	Co	ourse Outcomes	Teaching Meth	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	I	CI	A II	C	IA III	A	ssignm	ent	Semina	ar		oup oject	To	tal
4			5		2		2			3	2	0		
						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	e desig	ned by	y				Veri	fied l	by (	Chairm	an	
		Ms.I	RAJAN	NI N.					Dr	:SMI	TH	A 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	French : & futur	Group Learning	Assi	gnment			
CO 3	Business la conse	Peer Teaching	Seminar				
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	Assi	gnment	
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 Consommer autrement						3	
Instruction						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. U	Web. URLs 1. www.academia.edu													
				T	ools fo	r Ass	essmei	nt (20	N	Iarks)				
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 - H														
H-High;	M-Me	dium; l	L-Low				•			•		1		•
		Cours	e desig	ned by	y					Veri	fied b	y Chairm	an	
Dr. R. M	[alathi						I	Or. R.	M	alathi				

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	
G				•	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	You L	ike It					1		4
1									Instru	ctional	Hours	1	2
9	Suggest	ed Lea	rning	Metho	ods : F	lipped	Learn	ing					
V	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.												
	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	CO3 M - H - H H H H H M H M												
CO4	M	L	Н	-	Н	-	Н	Н	Н	Н	M	Н	Н
CO5	CO5 H M H - H H H H H H M												
H-High;	M-Med	dium; I	L-Low					•	•			•	
		Course	e desig	ned by	<b>y</b>				Ver	ified by	Chairn	nan	
Dr. Adap	Dr. Adappatu Ancy Antony  Dr. R. Malathi												

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 recorded information. This course is design							
Course	<b>Course Description</b> provide in depth knowledge in analysis of documents for							
	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 Content   Instructional Hours / Week							
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, C	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 ted Lear	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 exercition eristic and eation eteration	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 exercition eristic and eation eteration	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	Methods: Library extra reading	177	<b>70</b>			
			al Hours	60			
	1. Ramachandran, Questioned Documents, Lawmann's 2020  1. Ordway Hilton, Elsevier; Scientific Examination of Quest Documents, Rev. ED: New York, (1928).  2. Albert S. Osborn, Second; Questioned Documents, Ed. Unit Law, Publishing, Delhi, (1928).  3. Albert S. Osborn; The problem of Proof, Second Ed. Unit Law, Publishing, Delhi (1998).  4. Charles C. Thomas, Billy Prior Bates; Typewriting Identification. S.Q.D., Springfield, Illinois (1971).						
1. https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/S000 16FS/P000695/M006281/ET/1516191959FSC_P8_M1_e-text.p 2. https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/S000 16FS/P000695/M011511/ET/1516250867FSC_P8_M32_e-text.pdf							

	Tools for Assessment (25 Marks)													
CIA	I	CL	A II	C	IA III	As	ssignn	nent	Semin	ar	Quiz	To	tal	
5		,	5		6		3		3		3	2	25	
						Ma	pping							
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	e desig	ned b	y				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	bal					
Course	Course Description  In forensic science, questioned document may be examined to deter its origin, authenticity, and many other facets in order to solve a pote crime.								
Course	Outco	mes				Teaching Me	thods	Assessm	ent Methods
CO 1		rstand tl		tion in handv	vriting and	Demonstrati Video Lesso		P	ractical
CO 2				documents		Demonstrati		P	ractical
CO 3			<u>*</u>			Demonstrati	ion /		ractical
	1	Video Lessons							
CO 4	Anal	ysis of i	nk			Demonstrati Video Lesso		P	ractical
CO 5	Learr	n to writ	e report	in forgery ca	ise	Demonstrati Video Lesso		P	ractical
Offered	by	Foren	sic Scie	ence		1			
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

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

Course	Code	e 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,	-	0 1 0	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	Understa		Cas	e studies							
CO 3			DNA typing Systems	Lecture/Demonstration	n Se	eminar					
CO 4	Profiling		the application of DNA	Lecture/Video lecture		Quiz					
CO 5		ive (	nowledge about Legal of DNA Profiling	Lecture/Demonstration	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 typ DNA typ amplification of SNP at calculation results. Mand accre-	ng te 1 of	3								
				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	profilir duties Status	perspending, proof a soft development technique.	ectives- ocedura medica elopme	legal al and l prac ent of I	stance ethica titione DNA p	lards in the lards of the lards on the lards of the lards on the lards	erns- condu g in I	Mediacting	ca D nd	lity of l perspe NA pro abroad ations of	ective: ofiling - New	1		5
										Instr	uction	al Hour	s	9
Suggest	ed Lea	rning 1	Metho	ds: Or	nline t	rainin	g							
											Tot	al Hour	S	45
Text Bo	oks		1.	Jeffr	ey R. J	enkins;	DNA	Finge	rpı	rinting: 1	An Intro	duction 2	2009	
Referen		ks	1. 2. 1. 2.	Inter Tehr Fing https	rpretat mina A gerprin ://www	ion Anjum ting: A v.vedan obenote	and A	nis A aches a	hn an	nad Cha d Appli y/dna-fir	udhary cations	, 2013		
				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					Ver	itied by	Chairr	nan	
Ms. Archana Sunil Mr. Akhil Benny														

Course	Code				Title							
23U3F1	RR40	5	Allied Paper Vl	I - F	orensic Biology Prac	ctical						
Semeste	er : IV	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	Focuses on the hands-on skills needed for forensic science. practice gathering, handling, and studying biological evidence, lik and blood.											
Course	Outco	omes			<b>Teaching Methods</b>	<b>Assessment Methods</b>						
CO 1		erstand th oscope	e parts and working of		Demonstration / Video Lessons	Practical						
CO 2	Exar	nination o	of hair, pollen grains.		Demonstration	Practical						
CO 3	Anal	ysis of fil	ore, diatoms		Demonstration / Video Lessons	Practical						
CO 4	Extra	act DNA			Demonstration / Video Lessons	Practical						
CO 5	DNA	separati	on and working of PCR		Demonstration / Video Lessons	Practical						
Offered	by :	Forensic	Science									
Course	Conte	ent			Instructio	nal Hours / Week : 4						
S. No	).		F	Expe	riment							
1		Introduct	ion to microscope.									
2		Microsco	pic examination of human l	hair								
3		Analysis	of pollen grains									
4		Comparis	son of human and non-huma	an ha	air							
5		Analysis	of fibre.									
6		Analysis	of diatoms.									
7		Analysis	of animal hair.									
8		Extraction	n to DNA from cheek cells									
9		Working	with PCR									
10		DNA sep	aration using gel electropho	oresis	s							
						TOTAL 60 Hours						

Tools for Assessment (40 Marks)								
Analytical Skill	Lab   Inference   Test I   Test II   Observation   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	1	M	-	ı	Н	Н	M	Н
CO5	Н	Н	-	Н	M	-	M	-	-	Н	Н	M	Н

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

Course	e Code			Title					
23U4F	RS402		Skill Based Paper II - F	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						
<b>Development Needs</b>			Global/ International	Global/ International					
Course Description  Research methodology is the logical, systematic plan to resolution problem and Statistics is a branch of science that deals with organization and analysis of data from the sample to the whole									
Course	Outcom	Assessme	ent Methods						
CO 1	Familia researc		with basic of research and the cess.	Lecture	Ass	ignment			
CO 2	and	devel	appropriate research design op appropriate research or a research project		n Seminar				
CO 3									
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	/ Week: 3			
Unit	Unit Description					Chapters			
I	Introduction to Research Research: Definitions, Characteristics and Objective of research- Epistemology and ontology of research, Types of research: Descriptive vs. Analytical, Applied vs. Fundamental, Qualitative vs. Quantitative, Conceptual vs. Empirical, and other kinds of research. Research methods vs Research Methodology, Inductive and deductive research, Ethics in Criminal Justice Research.								
~	Instructional Hours 9								
Suggest			Methods: Library extra rea	ding					
II	Research Problem Formulation of the research problem, Research process, Overview of the stages in research (hypothesis formation to analysis and report writing), Research design: Meaning of research design, Need for research design, Hypothesis: Definition, Types of hypothesis.								
				Instruction	al Hours	9			
Suggest	ed Lear	ning	Methods: Library extra rea	ding					

	Т					T					
Ш	Data collection Types of Data's, Modes of collection of primary data: Observation, Interviews, interview schedules, Questionnaires, Modes of collection of secondary data. Population and unit of analysis, Sampling Techniques: Definition, Criteria for selecting a sampling design, Types of sampling: Probability sampling and non- probability sampling, Types of probability sampling: simple random sampling, systematic sampling, stratified sampling, cluster sampling, area sampling and multi-stage sampling, Types of nonprobability sampling: purposive sampling, convenience sampling, judgment sampling and snowball sampling. Advantages of sampling, Requirements of a good sample.										
a	4 1T 9	. N. (1	1 0 4	• • 4	Instruction	onal Hour	s 9				
Sugges			ls: Group acti	vity							
IV	Introduction to Statistics  Variables; Discrete and Continuous, Independent and Dependent.  Scales of measurement -Nominal, ordinal, Interval and ratio.  Frequency for grouped and ungrouped data, Class Interval and Class width, Continuous and discontinuous data, Graphical representation of data, bar chart, pie-chart and histogram, Significance of statistics in forensic science.										
	Instructional Hours 9										
Sugges	Suggested Learning Methods: Problem solving										
24550				/1 · 1118							
V	Measures of Central Tendency Measures of Central Tendency: Mean, Median and Mode- Measures of Dispersion: Range, quartile deviation, mean deviation and standard deviation and coefficient of variations. Measure of symmetry: Kurtosis and skewness- Introduction to Statistical Package for Social Science Research (SPSS).										
					Instruction	onal Hour	s 9				
Sugges	ted Learni	ing Method	ds: Problem so	olving							
					T	otal Hour	s 45				
Text B	Text Books  1. Kothari, C. R. (1996). Research methodology: Methods & techniques (2nd ed.). New Delhi: Wiley Eastern.										
Refere	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										
OT.	A T	CTA II		ssessment (20 M	-	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	-

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

Course	e Code				Title	
22U4NI	M4BT2		Part IV : Ba	asic Tamil	– II (அடிப்படைத்தமிழ்	- II)
Semest	ter: IV		Credits: 2		CIA: 50 Ma	arks
			(Common to a	all UG Pro	grammes)	
Course (	Objective	ઔ	ற இலக்கியங்களை <i>அ</i>	<b>டி</b> றிமுகப்படுத்	ந்தல்.	
Course (	Category	Sk	ill Development (மாண	<b>ா</b> வர்களின்		வித்தல்)
Develop	ment Nee	ds Re	gional ( தமிழ் மொழி	பின் அவசி	பத்தை உணர்த்துதல்)	
Course I	Descriptio	on Lot	ணவர்களின் மொழித்தி	ிறனை ஊச்	<b>்</b> குவித்தல்	
Course (	Outcomes	3			<b>Teaching Methods</b>	<b>Assessment Methods</b>
CO 1		லக்கிய அற pக அறிவு	நிவு பெறுதல் - சிறுக பெறுதல்.	தைகள்	விரிவுரை / காணொளி வகுப்பு	ஒப்படைவு
CO 2			ர அறிமுகம் செய்தல் வற்றின் 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	த அமைக்	கும் திறன் பெறச்செய்	தல்.	விரிவுரை / குழுத்திட்டம்	குழுத்திட்டம்
Offered	by தமி	ிழ்த்துறை				
Course (	Content :	Basic Tar	nil – II(அடிப்படைத்த	நமிழ் II) I	nstructional Hours / <b>V</b>	Week: 2 Hours
Unit	Descr	ription	Text Book		Chapter	S
I	நீதி ந	ரல்கள்	1.பாரதியார் ஆத்திச்சூடி 2.கொன்றைவேந்தன்	<b>.</b>	5ல் 12 வரிகள் 5ல் 7 வரிகள்	
			nstructional Hours			6 Hours
Suggeste	ed Learni	ng Metho	ds : நீதிநூல்களின் சி	றப்பினை உ	அறியும் பயன் பெற்றடை	D
II	கீழ்க்கண	ினண் சக்கு நூல் சூறள்)	திருக்குறள்	அதி 1 கு 2.2. வான் அதி 2.3. அன்ட அதி 2.4. கல்வி	சிறப்பு- நீரின்றி அமை -2.குறள் - 10 புடைமை - அன்பின் வழ - 8.குறள் - 10 பி - கண்ணுடையார் எல் பவை கூறல் - இனிய :	யாது உலகு. ழியது உயிாநிலை. எபா் . அதி-40 குறள்-393
			nstructional Hours			6 Hours
Suggeste	ed Learni	ng Metho	ds : திருக்குறளின் சிற		• •	
TTT	கிராமி	பக் கதை	கள் கிராமியக் கனதகள்		.1.பரமார்த்தக்குரு கதை	
III				3.	.2.நாட்டுப்புறக் கதைகள்	ா அறுமுகம
		ıctional H	Iours		.2.நாட்டுப்புறக் கதைகள் அமைப்பினை அநியும்	6 Hours

IV	மெ	ரழிப்பயிற்	ந்சி		மொழிப்ப	பயிற்சி				•	மொழிச் சொல் எடு	சொற்க முதுதல்	ளுக்கு
	Iı	structi	onal H	ours					l			6 H	lours
Suggest	ed Lea	rning M	<b>Iethods</b>	:	தமிழ்ச்6	)சால் எ	ாழுதும்	திறன்	பெற்றன	oпo			
V	எழு	த்துப்பயி	ிற்சி		எழுத்துட	ப்பயிற்க	f			•	பர், கல்	ாழுதுதல் லூரி வி	<b>யரம்</b>
	Tı	structi	onal H	ours								6 F	lours
Suggest					மாழி க	லப்பு <u>இ</u>	)ன்றி த	மிழ்ச்செ	ால் எடு	<u>ஓத</u> ும் தி	றன் பெர		iours .
				Т	otal Ho	ours						30	Hours
Text Bo	oks		2.	இளங்கல	லை தமி பு: தமிழ்	ழ் மான	_		_	ரல்"அரி அறிவிட	ச்சுவடி'' பல் கல்		
Referen	Rafaranca Rooks					•	ணிவாசகர் பதிப்பகம், கோயம்புத்தூர் இராஜவீதி,01 உரை, மணிவாசகர் பதிப்பகம், சென்னை - 600018						
Web. U	RLs		https	://yout	u.be/d5b	e921u	xhE, ht	tps://yo	utu.be/	Wtg-GJI	PfXTM.		
			•		Tool	s for A	ssessm	nent (50	0 Mark	ks)			
CIA	Ι	CIA	\ II	CL	A III	Sei	ninar	Ass	ignmer	nt (	Froup	7	Total
											roject		
8	}	8	}	1	10		8		8		8		50
						M	apping	 T					
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	Н	L	M	M	L	Н					
CO3	Н	L	H	L	L	M	M	H					
CO4	Н	L	M	L	L	M	H	M					
CO5	Н	L	H	L	M	M	H	H					
H-High;	M-Med									-			
		Cour	se desi	gned by	y					Veri	ified by		
		Dr. S. S	athees	h Kum	ar					Dr. A	. Sridev	r <b>i</b>	

Course	e Code				Title		
22U4N	M4AT2		Par	t IV : Advanced T	amil – II	(சிறப்புத்தமிழ் - <b>II</b> )	
Semes	ter: 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	<b>ண</b> ர்த்துதல் <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	மொழின பெறச்செ		ழையின்றிப் பேச,	எழுதும் திறன்	ഖിரിഖുത	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. செய்நன்றியறித 1.3. கல்வி (131,132	• ,
				Instruction			6
Suggest			ethods : திருக்குற	ങ്നിன் சுவை அறியு	•	பெற்றமை 	
II	சிறுகளை	5		1.வெ.இறையன்பு பூனாத்தி சிறுகதை		2.1 சேவியர் வாத்தி 2.2 தூரிகை	Munit
				T 4 4.	al Hours		6
Sugges	ted Learı	ning M	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 திரு களைச் சியியில் முறை கடிக்கு கடிக்கத் 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	படைப்பாற்ற	ல் பயிற்சி	இலக்கிய வரலாறு	ı	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
Text Bo	ooks ace Books	தொகுப்பு கோயம்பு 1. திருக்குறவ	த்தூர். ர் —பரிமேலழகர் உ	ந கலை மற்று டரை, மணிவாக	_நூல்''திரட்டு'' ம் அறிவியல் கல்லூரி, சகர் பதிப்பகம், சென்னை - 018 ஜயா பதிப்பகம், கோவை.
Web. U	RLs	https://youtu	.be/_vB59q6At8s, l	nttps://youtu.be	e/aSvxO_rV9eQ.
	Cours	e designed by			Verified by
	Dr. S. S	atheesh Kum	ar		Dr. A. Sridevi

Course Code	Title	
22U4NM4GEN	Non Major Elective : Gen	eral 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 Elect	tive Cou	rse : Desi	ign Ecosyst	em
Sem	ester: IV	Credits: 2		ESE: 50	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		Са	ase study / N	Model
CO 4	control	ut process and mechanism of eco		Tutoria	al / Group I	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		<u>Methods: Video Lectures</u> cosystem services & Biomes: D	esign ch	nallenges		
П		ne design process, biomes, ecoreg	_	_	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		Methods: Group Discussion	
V	sustainable cir surrounding	structure design: Green infrastructure network, ties initiatives, agricultural sustainability indicators, environmental, ecological and social justice; lethics, issues and possible solutions	4
		Instructional Hours	6
Sugges	ted Learning N	Methods : Online Tutorial	
		Total Hours	30
Text Bo	ooks	<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	nce Books	Sim Van Der Ryn and S. Cowan. Ecological Design. Island Property of the State	, 3 <sup>rd</sup> Edition.
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	se 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		business uses of design thinking	7	7ideo Lesson	S
CO 4		d the variety of approaches within the aking discipline	Di	rect Instructi	on
CO 5	Impart kn	owledge in design thinking mindset	Di	rect Instructi	on
Course	Content		Instruction	nal Hours / V	Week: 2
Unit		Description		Text Book	Chapter s
<u> </u>		<b>r</b>			
I	Definition	nking Background of Design Thinking, Variety within the iscipline, Design Thinking Mindset	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 Incompared to the process, 5-Stage, School Process, Designation	ivergent umption Instructi material,	onal Hours  onal Hours	5,1,3 06

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	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	6
	Tools and A	dignment with Process, Visu	alization, Journey		
	Mapping				
			Instruction	nal Hours	06
Sugges	U	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 B	ooks	15838-1 2. "The design thinking of teams, products, s Michael Lewrick, Patr 1-119-46747-2	services, businesses and rick Link, Larry Leifer.	ital transford l ecosystem , 2018, ISBN	mation s", by N 978-
Reference Books  2. "Syst for d Think		803086-8 2. "Systems thinking: Ma for designing busines	harles Lambdin., 2016,	ISBN: 978 plexity: A plater Seven: I	atform Design
Web. URLs  1. https://www.designcouncil.org.uk/news-opinion/design-process-what-double-diamond					ocess-
	Course	e 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	Understand the concepts of risk and vulnerability in disaster				
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>M C Gupta, "Manual on Na Delhi, 2013</li> <li>R K Bhandani, "An Over Reduction", CSIR, New D</li> <li>Dr. Mrinalini Pandey, "Dis</li> </ol>	"Disaster Management", Wiley India Pvt. Ltd, 2014 Ianagement Authority Publications-Guidelines		NIDM, New ers and their Ltd, 2014.
	Course	e designed by	Verified by	Chairman	n
Dr. Reneesh K Rajan			Dr. Reneesh K Rajan		

Course	e Code			Title			
22U4V	BOE04		Value Ba Environmental	sed Open Electiv Pollution and W			
Semes	ter: IV		Credits: 2		ESE: 50 N	Marks	
Course	Course Objective To acquire deeper knowledge about Environmental I					Ianagemen	t Systems
Course	Category	y	Crosscutting Issue : Envir	onment And Sust	tainability		
Develop	pment Ne	eds	Global				
Course	Descript	ion	Environmental Pollution management of any unne the water, land or air that	cessary resource	use or rele	ease of sub	stances into
Course	Outcome	es				Teaching	Methods
CO 1 CO 2 CO 3	Describ Manage Critical	e, de ement ly	he types of environmental pyelop and interpret methods.  Systems.  evaluate methods and	ds of the Enviro	within	Group Le Online	cture / Learning cture/ e Tutorial cture/
			al Management Systems fro				Tutorial
CO 4	Underst pollutar		the effective managen	nent of enviro	onmental		cture/ e Tutorial
CO 5	Learn E	nviro	nmental Auditing for vario	us Industries/Pro	jects.	Lecture/ Online Tutorial	
Course	Content				Instruction	onal Hours	s / Week: 2
Unit			Description			Text Book	Chapters
I	Biodegra	ıdable	to Environmental pollutar e pollutants, Non-biodeg ter Pollution, Soil Pollution	radable pollutan		1	1,2
C .	1.		# Al	Iı	nstruction	al Hours	6
II	Introduct definition	tion ns an	Methods: Industrial Visit to Environmental Mand terms, Framework for Enroach for developing an En	vironmental Mar vironmental Mar	nagement nagement	2	2, 4
Suggest	ted Learn	ing N	Methods :Web search	1)	nstruction	ai 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 treatment of effluents from following industries – sugar, pulp and paper, electroplating, dairy, oil refineries, etc.					5	
Suggest	ed I parn	ing N	Methods : Online tutorial	<u>I</u> 1	nstruction	al Hours	6
IV	Introduct	tion 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 (Parish Personal Parish Personal Per	onmental Manage 1995  defined and IBH  numental Entalling Entalling Entalling	Management by W. Lee publishing ngineering", vironmental	
	Ltd, London, 1999.					
wen.	Web. URLs  1. https://www.anits.edu.in/online_tutorials/es/Unit%203.pdf  Course designed by  Verified by Chairman					
Dr. O	S Nimmi		Dr. N. Saranya			

Course	rrse Code Title					
22U4V	B0E05		Value Based Open Elective Course : History of	Ancient In	dia	
Semest	er: IV		Credits: 02	ESE: 5	0 Marks	
Course	Objectiv	ve	To explore the rich and diverse history of ancient Ind civilizations, political systems and cultural achievem		ng its	
Course	se Category Employability					
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 Univers	Lecture				
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.					
		Instructiona	l Hours	6		
Sugges	ted Learning I	Methods : Lecture/Tutorial				
		1000	ii iiouis	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 New Delhi, 1995.</li> <li>Romila Thapar, Early India (From the earliest to the International Control of the In</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:	SE: 50 Marks		
Course	Objective	To make the students underst it to their day to day life	and the knowledge syste	em in India	and apply	
Course	Category	Value Education				
Develop	ment Needs	National				
	Description	This course will actively encountry and traditional known Agriculture, Basic Sciences Management, Economics, etc.	owledge in the field of s, Engineering & Tecl	of Arts and	l literature,	
Course	Outcomes		Teaching	g Methods		
CO 1	Understand overview of I	the History and an ndian knowledge System.	Flipped (	Classroom		
CO 2	_	e Importance of Vedic hilosophical System	Student 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.			1	2 & 3	
			Instruction	nal Hours	06	
Suggest	ed Learning M	<b>Iethods : Peer Learning</b>				

	T				
III	Linguistics: Natural Langu Mathematics Mathematician	1	5 & 8		
			Instructional	Hours	06
Suggest	ted Learning M	Iethods : Group Learning			
IV	Astronomy: Unique aspects of Indian Astronomy-Historical Development of Astronomy in India-Elements of the Indian Calendar  Town Planning Architecture: Indian Architecture- A Historical Perspective —Town Planning-Unitary Building —Temple Architecture				
			Instructional	Hours	06
Suggest	ted Learning V	Iethods: Mind Mapping			
V	Health-Tridos Management- Governance	ness and Psychology: Ayu as-Relationships to Ho Yoga way of Life-Indian Appr and Public Administration.	ealth-Disease-Disease roach to Psychology.	1	13 & 14
			Instructional	Hours	06
Suggest	ted Learning M	Iethods : Case Studies			
			Total	Hours	30
Text Bo	ooks	Introduction to Indian Applications, PHI Lear	Rajat Bhat, Nagendra Pa Knowledge System: Co ning Private Limited, Delhi System in India by Amit	oncepts a i, 2022.	and
Referen	ice Books	<ul><li>publishers, 2002.</li><li>2. Traditional Knowledge</li></ul>	System in India, by Amit	Jha, 2009	
Web. U	RLs	<ol> <li>https://www.youtube.co</li> <li>http://nptel.ac.in/course</li> </ol>	om/watch?v=LZP1StpYEF s/121106003/	PM	
	Course	designed by	Verified by C	hairman	
Dr. N. Saranya Dr. K. Rajarajeswari					

Cou	rse Code	Title				
<b>22U</b> 4	VBOE07	Value Based Open Elective Course : Principles of Intellectual Property Rights				
Sem	ester: IV	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.	the knowledge to navigate the patent filing	g process	Tut	orial	
CO 3	Comprehend registration p	eir types,	Lecture			
CO 4	process, and the trademark landscape in India				orial	
CO 5		significance of geographical indications (G r protection, the relevant laws and regulation		Lecture		
		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	Patent: Introduction to Patent, Patent Act 1970 and its amendments, Patentable and non-Patentable inventions, legal requirements for obtaining Patent, Registration Procedure of Patent, The role of Patentees and Different layers of the international patent system: National and International Patent filing procedures.					
			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>Iethods</b> : Lecture/Tutorial				

		_		0	
* 1	* *		1	9	
protection, a					
-		Instruction	al Hours	6	
ed Learning M	<b>Tethods: Lecture/Tutorial</b>				
Design: Intro	oduction to Design, Registration	n of Design, Cancellation			
of Registrati					
Design, Geo	Graphical Indication: Introd	luction to Geo Graphical	1	7,10	
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, copyriguence Book  Geographical Judications.  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	er: IV Credits: 2 ESE: 50 Marks					
Course Objective To create awareness on Science, Indian Society and cultural her Country					ltural herit	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	O 5 Comparison of ancient heritage and civilization of our country and follow them in our life					Lecture / T	`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	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, Space, Computery.  cientists of Medie icy in the Field of	and ers, val the	1	1
		<i>- - - - - - - - - -</i>		Instruc	ctiona	l Hours	6
Suggest			Methods: Video Lectures		·, I		
П	Social Behaviour - Salient features of our Society-Social diversity of India-Impact of globalization on Indian society. Social empowerment, Democracy and Freedom-Role of women and women's organization in the development of healthy society.			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	cultures-Indian marriage-Wed Traditional clo architecture	Cultures-Indian culture-combination of several philosophy-Religious culture-Family structure and ding rituals-Indian greetings-Indian foods- Festivals-othing. Epics of India-Indian Arts and Music-Indian and Sculptures-Indian Languages and Literature-Indian culture.	1		
		Instructional Hours	6		
Sugges		Iethods: Video Tutorials			
v	Mohenjo-Daro Architecture-A Gupta's period	ilization-Indus Valley Civilization-Harappa and civilization-Evolutions of early Buddhist dvent in China-Ellora caves civilization-King 4 of civilization-Vijayanagara inscriptions-Mohall's zation-British culture.	2		
	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		
Web. URLs  1. https://www.amazon.in/Science-Culture-Society-Understanding-Century dp-0745662250/dp/0745662250/ref=dp_ob_title_bk.  2. https://iasscore.in/upsc-syllabus/indian-society/indian-society-main https://www.worldhistory.org/india/					
	Course	designed by Verified by Chairman	1		
Dr. K.		Mr. Akhil Benny			

Cou	rse Code		Title				
22U4	VBOE09	Value Based Open Electi	Value Based Open Elective Course : Community Engagement				
Sem	ester: IV	Credits: 2	ESE: 50 Marks				
	Objective	This course serves as an learners to explore methor process, and professionalis	ods of community involv	ement, chan			
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>1ethods</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/ 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/ (	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		
	Instructional Hours 6						
Suggest	gested Learning Methods : Role Play						
III	Utility of pu	onents and Principles of c blic resources. Social con Various government scheme	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				
			Instruction	al Hours	6
Sugges	ted Learning N	<b>Methods: Creative Art Assi</b>	gnments		
<b>T</b> 7	Rural Distress	s, Rural Poverty, Impact of	Disasters on Migrant	2	1
$\mathbf{V}$	Laborers, Mit	gation of Disaster.			
			Instruction	al Hours	6
Sugges	ted Learning N	<b>Methods: Community Partic</b>	ipation Program		
Tota			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
Refere	1. Community-based participatory research: a capacity-buildir approach for policy advocacy aimed at eliminating healt disparities. Am J Public Health. 2010  2. Achieving successful community engagement: A rapid reality review, BMC Health Services Research.				health
Web. URLs  1. https://unnatbharatabhiyan.gov.in > presentations 2. https://www.wellawareworld.org/					
Course designed by Verified by Cl				Chairman	
Ms. T D Lidya Dr. P. Nathiya					

Semester: IV	Course	Code			Title				
Course Objective	22U4V	BOE10		Value Based Open E	lective Cou	rse : Emotic	onal Int	telligen	ice
Intelligence, its models and components	Semest	er: IV	r: IV Credits: 2 ESE: 50 Marks						
Intelligence, its models and components					l				
Development Needs	Course	Objectiv	ve				concepts	s of E	Emotional
Course Outcomes	Course	Category	y	Employability & Skill D	evelopment				
Course Outcomes	Develop	ment Ne	eeds	National & Global					
CO 1   Understand the Self-Awareness, Self-Management, Social Awareness and Relationship Management   Video Lectures	Course	Descript	ion		ortance of	Emotional	Intellig	ence a	and build
CO 1	Course	Outcome	es				Te	eaching	Methods
cO 2 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 6 Summarize the Self-Management Techniques  CO 7 Summarize the Self-Management Techniques  CO 8 Summarize the Self-Management Techniques  CO 9 Summarize the Self-Management Techniques  CO 1 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 Development - 2  4.85	CO 1				•	Social	7		
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.  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  W Emotional Intelligence: Measurement and Development - 2 4&5	CO 2		_	<u> </u>	niques of bu	ilding	Le	cture/ ]	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: 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  Instructional Intelligence: Measurement and Development - 2 4&5	CO 3	Narrate	e the i	nsights into establishing po	sitive relation	onships	Lecti	ıre/ Pe	er Teaching
Course Content    Instructional Hours / Week : 2	CO 4	Unders	stand t	the emotional intelligence a	and its impor	rtance	Le	cture/ ]	Role Play
Unit Description Text Book Chapters  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.  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  IV Emotional Intelligence: Measurement and Development - 2 485	CO 5	Summa	arize t	he Self-Management Tech	niques		I		-
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   1	Course	Content				Instruction	nal Hou	ırs / 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  IV Emotional Intelligence: Measurement and Development - 2 48-5	Unit			Description					Chapters
Instructional Hours   6	I	Definit Models Buildir Self-M	tion N s of E ng ble lanage	ature and Significance motional Intelligence-: Abi ocks of emotional intelli- ement, Social Awarene	lity, 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.   1   5&6		Truinag		•		Instruct	ional F	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  W Emotional Intelligence: Measurement and Development - 2  4&5	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 -   2   4&5	II	Observ strengtl	ing a	nd recognizing one's own lareas of development.	feelings, Ki	nowing one'	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 - 2 4&5	I							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 - 2 4&5	Suggest			<u> </u>					
Suggested Learning Methods: Peer Teaching  Liv Emotional Intelligence: Measurement and Development - 2 4&5	III	III Empathy and Compassion Relationship Management: Effective communication,							
IV Emotional Intelligence: Measurement and Development - 2	C-	. 1 7		1-41-1- D. T. 1.		Instruct	ional H	Iours	6
Wicaming Deminuon, importance		Emotio	onal	Intelligence: Measureme	ent and De	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				
	to regulate en	notions such as Mindfulness, Conditioned relaxation				
V	response and	Boundary setting	2	6&7		
	Techniques of	of Relationship Management: Display of empathy,				
	Effective Co	mmunication, Teamwork, Conflict resolution				
		al Hours	6			
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, Californi	a: Jossey E	Bros.		
Text B	looks	2. Goleman, D. (2005). Emotional Intelligence. New York: Bantam				
ICAL D	OUNS	Book.				
		3. Sternberg, R. J. (Ed.). (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	Chairmai	1		
		, ormod sy				
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 & Grand Circula	Present status of tourism in India. That Tour.	nomas Coc	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	, ,		
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				

	TD 1 4	D 1 . C	O1 101 1 2			
	3, 13, 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
$\mathbf{V}$						
	Travel Requir	ements, Travel Agency Operat	tions.			
			Instruction	al Hours	6	
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 Co	ncepts 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 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				6			
Instructional Hours								
Sugges	sted Learning M	ethods: Role play			6			
2 288								

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					
	& exerci	1 10 1	1 7			
	Related	Activity -Analyzing the physi	cal activity pattern of			
	students					
			Instructional	Hours	6	
Suggeste		g Methods: Assignment				
V	Definiti change consequ contami	nment and Health on of environmental health, and biodiversity, environmental ences of air, water and mation and consequences Activity-Group discussion on o	al pollution-causes and soil pollution-Food	2	5,8	
Instructional Hours					6	
Suggeste	ed Learnin	g Methods: Group Discussion	n			
				l hours	30	
Text	Books	<ol> <li>Anspaugh (2001), Tea Cataloging, 6<sup>th</sup> Edition,</li> <li>Tyler Miller (2006), En private ltd</li> <li>Srilakshmi (2010), Die New Delhi</li> <li>Srilakshmi (2010), Folimited, New Delhi</li> </ol>	US nvironmental Science, Ce etetics, New age Internation	engage lead	rning India	
1. Howley & Don Franus(B) (2003) Health Fitness Instructor Handbook. Human Kinetics publication. 2. Ramachandran. L. Dharmalingam. T (1993) Health Education Individual Vikas publishing House Private Limited						
Jou	ırnals	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	mean	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>	Suggested Learning Methods : Case study based Learning						
		Tota	al Hours	30			
	1. Lowe, L. (2016). The l	Definitive Guide to Creativ	e Writing a	and Media			
	Productions. United Sta	ntes: Xlibris UK.					
Text Books	2. Marshall, C. (2018). W	riting for Social Media. U	nited Kingo	dom: BCS			
Text Dooks	Learning & Developme	ent Limited.					
	3. Cain, S., Batty, C. (20	016). Media Writing: A P	ractical Int	roduction.			
	United Kingdom: Palgr	ave Macmillan.					
	1. Mencher, Melvin."Bas	sic News Writing" Unive	rsal Books	tall, New			
	Delhi.1993.						
	<ol><li>Sreenivas Rao. Academ</li></ol>	nic Book Centre, Ahmedaba	ad. 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. United States: SAGE Publications.						
Web. URLs	1. https://www.bing.com/	videos/					
Course designed by Verified by Chairman							
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	Instructional / Week: 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	W History of Happiness, Theories, Measures and Positive 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		ar Hours	<u> </u>		
bugges	ca Learning N	remous . Creative Aft A	asignments				

V	Forgiveness and Gratitude: Forgiveness and Gratitude, Personal transformation and Role of suffering, Trust and Compassion  1 3					
			Instruction	al Hours	6	
Sugges	ted Learning N	<b>Methods: Community Parti</b>				
			Tot	tal Hours	30	
Text Books  Reference Books		<ol> <li>Argyle, M. 1987. The psychology of happiness. London: Methuen.</li> <li>Carr, Alan (2007). Positive Psychology: The science of human happiness and human strengths. Routledge, Taylor and Francis Group-</li> </ol>				
		<ul> <li>London.</li> <li>Csikzentmihalyi, Mihaly (1990) Flow: The Psychology of Optimal Experience, Harper Perennial.</li> <li>3. Garcia, Hector., &amp; Mirrales. Francesc. (2017) IKIGAI-The Japanese Secret to a Long and Happy Life, Hutchinson London.</li> </ul>				
		<ol> <li>Frankl, Viktor E. (1988). The Will to Meaning: Foundations and Applications of Logotherapy. Meridian/Plume</li> <li>Frankl, Viktor E. (2000) Man's Search for Ultimate Meaning, Basic Books.</li> <li>Snyder, C. R., &amp; Lopez, S. J., &amp; Pedrotti, J. T (2011) Positive Psychology: The Scientific and Practical Explorations of Human Strengths, Sage Publications India Pvt Ltd.</li> </ol>				
Course designed by		Verified by	y Chairmai	 1		
Ms. K.	Merlin Jenefer		Dr. P. Nathiya			

Course Code			Title					
22U4VBOE15			Value Based Open Elective Course : Professional Ethics					
Semester: IV			Credits: 2	ESE: 50 Marks				
Course Objective		e	Students will understand the importance of Values and Ethics in their personal lives and Professional careers					
Course Category		<b>y</b>	Employability & Skill Development					
<b>Development Needs</b>		eds	National & Global					
Course Description		ion	Understanding the importance of maintaining Professional Ethics and build effective career.					
Course Outcomes				<b>Teaching Methods</b>				
CO 1	Understand the basic purpose of Profession				Lecture			
CO 2	Summa	arize the Professional Rights And Responsibilities Lecture/ Peer Teach				Teaching		
CO 3		y the various Roles in Applying Ethical Principles at ous Professional Levels  Lecture/ Case Study					se Study	
CO 4		sional Ethical Values and Contemporary Issues Lec			Lecture/ Role Play			
CO 5		ling in Competitive and Challenging Environment to ibute to Industrial Growth.  Lecture/ Group Discussion in Competitive and Challenging Environment to Lecture in Competitive and Challenging Environment to Lecture in Competitive and Challenging Environment to ibute to Industrial Growth.					Discussion	
<b>Course Content</b>					Instructional Hours / Week: 2		Hours /	
Unit	Description			Text Book	Chapters			
I	Introduction to Professional Ethics: Meaning Definition Basic Concepts Governing Ethics, Personal & Professional Ethics, Life Skills, Emotional Intelligence 1 Profession and professionalism, Professional Associations, Professional Risks, Professional Accountabilities, Professional Success, Ethics and Profession.				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	
				Instruc	ction	al Hours	6	
			Methods: Mini Case Ana					
III	Profess	sional	<b>Practices:</b> Professions an	d Norms of Profession	nal	2	1&2	

Sugges	ted Learning N	Methods: Group Discussion	tal Hours	30	
V	Development Pollution, Etl Media Ethic Rights	nal Hours	6		
	Global issue Scenario, Te Trade, World Business E	2	6&7		
Sugges	tod Lagrning N	Tethods: Role Play	iai Hours	0	
	editing.	Instruction	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	Instructional House				
	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.			

UG NASC 2022

Course	e Code		Title			
22U4V	BOE16	Value Based Open Elect	tive Course	: The Science	of Happi	ness
Semest	er: IV	Credits: 2		ESE: 50 N	<b>Aarks</b>	
Course	Objective	To explore the key eler cultivate joy, well-be- relationship between hap as efficiency, creativity, difference for others.	ing, and opiness and	productivity various work-	in the v related fac	vorkplace, etors, such
Course	Category	Skill Development				
Develop	ment Need	Global				
Course	Description	To create a positive w themselves and others.	ork enviroi	nment and pro	mote happ	oiness for
Course	Outcomes				Teaching	g Methods
CO 1	Understa	nd the Happiness as a Scientific	e Construct		Lectur	e Method
CO 2	Apply the	Theories and Models of Well-	-being		Flipped	l Teaching
CO 3	Demonst	ate the Individual Factors and	Happiness		Lectur	e Method
CO 4	Analyze	he Social and Environmental F	Factors in H	appiness	Lectur	e Method
CO 5	Apply Ha	ppiness and Work Efficiency			Flipped	l Teaching
Course	Content			Instructional	Hours / V	Veek: 2
Unit		Description			Text Book	Chapters
I	Defining has well-being component	on to Happiness as a Scientifappiness and its importance in , Overview of subjective as — life satisfaction, positive exploration of cultural variation	individual well-bein emotions, a	and societal g and its and negative	1	1
				Instructiona	al Hours	6
Suggest		Methods: Group Discussion	n			
II	Prominent eudemonic autonomy	theories of well-being theories of well-being well-being, PERMA mode meaning, and engagement it ions of different well-being meaning well-being well-being meaning well-being meaning well-being well-being well-being well-being meaning well-being well-b	el. Role o n happines	f factors –	1	2
				Instructiona	al Hours	6
Suggest		Methods: Group Discussion	n			
III	Personalit happiness happiness	Factors and Happiness resilience resilience Role of genetics and biologica levels. Examination of person and their impact on subjective	al factors in onal values,	determining goals, and	1	3
				Instructiona	al Hours	6
Suggest		Methods: Group Discussion				
IV		Environmental Factors in He of social relationships a		support in	1	4

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		nappiness. Influence of social	=		
	· ·	d cultural factors on well			
		al factors – access to natu	re, quality of living		
	conditions of	n happiness.			
			Instructiona	al Hours	6
Sugges		<b>Methods</b> : Group Discussion			
		nd Work Efficiency			
	• •	piness on work efficiency and pro	•		
V		in the workplace, link	1	5	
		piness and creativity in the wo	_		
	fostering a cre	eative and innovative work environ			
			Instructiona	al Hours	6
Sugges	ted Learning <b>N</b>	Methods: Group Discussion			
				al Hours	30
Text B	ooks	1. Susan A. David, Ilor The Oxford Hand boo		nda Conley	Ayers;
Referen	nce Books	<ol> <li>Achor, S. (2010). The of positive psycholog Random House.</li> <li>Lyubomirsky, S. (20</li> </ol>	e happiness advantage: 'y that fuel success and p 008). The how of happine life you want. Penguinnan, M. E. P. (2002). V	performanc iness: A s	e at work.
Web. U	JRLs	1. https://onlinecourses.r	nptel.ac.in/noc23_hs06/p	review	
	Course	e designed by	Verified by	Chairmai	1
Dr. S. F	Balaji		Dr. K. Rajarajeswari		

Course	e Code			Title						
23U3F	RC512		Core Paper X	II - Serology and DN	A T	yping				
Semes	ter : V		Credits : 4	CIA: 25 Marks		ESE: 75	Marks			
Course	Objecti	ve	To impart knowledge and	skill for analysing hu	nan l	biological	samples.			
Course	Catego	ry	Employability							
Develo	pment N	eeds	Global							
Course	Descrip	tion	Forensic Serology involved the methods of identifying the person under							
			question by means of biolo	ogical analysis. This i	nvol	ves a two-	-step process.			
		nd st	ep is the D	NA analysis.						
Course	Outcom	s	Assessme	nt Methods						
CO 1	Collect fluids.	, pres	erve and analyse body	Lecture/Demonstrat	ion	Ass	signment			
CO 2	Extract		from biological sample.	Lecture/ Case studie	es	Cas	e studies			
CO 3	Compa various		NA using markers for ifications.	Lecture/Demonstrat	ion	S	eminar			
CO 4	Perform	n chei	mical tests for body fluids	Lecture/Video lectu	re		Quiz			
CO 5	Identify	y and i	individualise blood samples	Lecture/Demonstrat	ion	Ass	signment			
Offered	l by F	orens	ic Science							
Course Content Instructional Hours / Week: 5										
	Conten	t		Inst	ruct	ional Hou	ırs / Week: 5			
	Conten	t	Description	Inst	ruct	Text	rrs / Week: 5 Chapters			
Course			Description	Inst	ruct					
Course	Biologic	cal Ev				Text Book	Chapters			
Course	<b>Biologic</b> Collecti	cal Ev	ridences	f biological evidence	es.	Text				
Course	<b>Biologic</b> Collecti	cal Evon, po	ridences acking and preservation of	f biological evidences. Bioterrorism and b	es.	Text Book	Chapters			
Course Unit I	Biologic Collecti Preserva war, use	cal Evon, patives	ridences acking and preservation of used in biological evidence cust as a bioweapon, microb	f biological evidences. Bioterrorism and bial forensics.  Instruc	es.	Text Book	Chapters			
Course Unit I	Biologic Collecti Preserva war, use	cal Evon, partition of local controls of local c	ridences acking and preservation of used in biological evidence cust as a bioweapon, microb Methods: Library extra res	f biological evidences. Bioterrorism and bial forensics.  Instruc	es.	Text Book	Chapters 1			
Course Unit I	Biologic Collecti Preserva war, use ted Lear Blood a	cal Evon, partices of local ending land its	ridences acking and preservation of used in biological evidence cust as a bioweapon, microb  Methods: Library extra res	f biological evidence s. Bioterrorism and b ial forensics.  Instruc ading	es.	Text Book	Chapters 1			
Course Unit I	Biologic Collecti Preserva war, use ted Lear Blood a	on, partitions of local triangle of local its	ridences acking and preservation of used in biological evidence cust as a bioweapon, microb  Methods: Library extra reasonation be composition, functions. Composition	f biological evidences. Bioterrorism and bial forensics.  Instructed in the control of the contr	es. pio tiona	Text Book	Chapters 1			
Course Unit I	Biologic Collecti Preserva war, use ted Lear Blood a Human preservi	on, positives e of locaring land its	ridences acking and preservation of used in biological evidence cust as a bioweapon, microb  Methods: Library extra restraction  I: composition, functions. Control chniques. Grouping: General	f biological evidence s. Bioterrorism and b ial forensics.  Instructed ading  ollection, packaging an al Principles, theory	es.  pio  tiona  nd  of	Text Book	Chapters 1			
Course Unit I Sugges	Biologic Collecti Preserva war, use ted Lear Blood a Human preservi their inl	cal Evon, partices e of locaring land its Blood ang technical	ridences acking and preservation of used in biological evidence cust as a bioweapon, microb  Methods: Library extra restraction  d: composition, functions. Cochniques. Grouping: Generate, Blood group determination	f biological evidence s. Bioterrorism and b ial forensics.  Instruct ading  ollection, packaging an al Principles, theory ation from fresh block	es. pio  tiona  nd of od,	Text Book	Chapters  1  15			
Course Unit I	Biologic Collecti Preserva war, use ted Lear Blood a Human preservi their inl titer, Ra	cal Evon, partices e of local its Blood its heritan aulax	ridences acking and preservation of used in biological evidence cust as a bioweapon, microb  Methods: Library extra restraction  l: composition, functions. Composition, functions. Composition, functions are composed formation and Bombay blocks.	f biological evidence s. Bioterrorism and b ial forensics.  Instruct ading  ollection, packaging an al Principles, theory ation from fresh blood od group. Definition	es. pio  tiona  nd of od, of	Text Book	Chapters 1			
Unit  I  Sugges	Biologic Collecti Preserva war, use ted Lear Blood a Human preservi their inl titer, Ra antigen	on, positives e of local transfer its Blooding techniques and	ridences acking and preservation of used in biological evidence cust as a bioweapon, microb  Methods: Library extra restraction  I: composition, functions. Conchniques. Grouping: Generate, Blood group determination and Bombay blood antibody, Various antigence.	f biological evidence s. Bioterrorism and b ial forensics.  Instruct ading  ollection, packaging an al Principles, theory ation from fresh blood od group. Definition en-antibody reaction	es. pio  tiona  nd of od, of ns,	Text Book	Chapters  1  15			
Unit  I  Sugges	Biologic Collecti Preserva war, use ted Lear Blood a Human preservi their inl titer, Ra antigen Differen	cal Evon, partices e of local its Blood eng techeritar and ance be	ridences acking and preservation of used in biological evidence cust as a bioweapon, microb  Methods: Library extra restruction  l: composition, functions. Companies. Grouping: Generate, Blood group determination and Bombay blood antibody, Various antightween precipitation, aggluting	f biological evidence s. Bioterrorism and b ial forensics.  Instruct ading  ollection, packaging and al Principles, theory ation from fresh blood group. Definition en-antibody reaction mation and flocculation	es. pio  tions  nd of od, of ns, on.	Text Book	Chapters  1  15			
Unit  I  Sugges	Biologic Collecti Preserva war, use ted Lear Blood a Human preservi their inl titer, Ra antigen Differer Immuno	cal Evon, partices e of local ming land its Blood and the heritan and ance be ochem	ridences acking and preservation of used in biological evidence cust as a bioweapon, microb  Methods: Library extra restraction  I: composition, functions. Conchniques. Grouping: Generate, Blood group determination and Bombay blood antibody, Various antigence.	f biological evidence s. Bioterrorism and b ial forensics.  Instruct ading  ollection, packaging and al Principles, theory ation from fresh blood group. Definition en-antibody reaction mation and flocculation	es. pio  tions  nd of od, of ns, on.	Text Book	Chapters  1  15			
Course Unit I Sugges	Biologic Collecti Preserva war, use ted Lear Blood a Human preservi their inl titer, Ra antigen Differen	cal Evon, partices e of local ming land its Blood and the heritan and ance be ochem	ridences acking and preservation of used in biological evidence cust as a bioweapon, microb  Methods: Library extra restruction  l: composition, functions. Companies. Grouping: Generate, Blood group determination and Bombay blood antibody, Various antightween precipitation, aggluting	f biological evidence s. Bioterrorism and b ial forensics.  Instruct ading  ollection, packaging and all Principles, theory ation from fresh blood group. Definition en-antibody reaction mation and flocculation function and forens	es. pio  tiona  nd of od, of ns, on. sic	Text Book	Chapters  1  15			

	Forensic Exa	mination of Body fluids		
	Analysis of b	blood: identification, confirmatory for fresh blood		
	stains. Takay	ama and Teichmann test for dried blood stains.		
	Identification	of blood group from stain of blood, Semen, saliva		
	and sweat : a	absorption elution, absorption inhibition and mixed		
III		Semen: location, collection, packing, evaluation and	1	3
		ification and forensic significance. Urine: location,		
		ackaging, preservation, evaluation and tests for		
	_	and forensic significance. Forensic significance of		
		uids like sweat, saliva, milk and its collection and		
	identification.			
	Tacini Tacini	Instruction	al Hours	15
Sugge	sted Learning I	Methods: Hands on training	110015	
bugge		to Human Genetics		
		cs - definition and explanations for Heredity, alleles,		
		l population genetics. Molecular biology of DNA,		
IV		DNA, Biochemical aspects. Genomics and medical	1	4
		ochondrial DNA - definition, structure, biochemical		
		A Profiling: Introduction, definite ion, history and		
	-	the field of forensic science. Paternity and maternity		
	index : equation	on, derivation and calculation.		
~		Instruction	al Hours	15
Sugge		Methods: Video lectures		
	DNA Profilin	g		
	• • • • • • • • • • • • • • • • • • • •	systems - Polymorphism, RFLP analysis, PCR		
	_	s, sequence polymorphism. Analysis and functioning		
		Y- STR, Evaluation of results, frequency estimate		
	calculations,	allele frequency determination, Interpretations of		
$\mathbf{V}$		probability - database, quality control, certification	1	5
		tion. Forensic Significance of DNA profiling:		
		in disputed paternity cases, child swapping. Missing		
	person's iden	tity, civil immigration, job disputes. Case studies		
	related to pat	ernity and maternity disputes and child swapping.		
	Legal standard	ds for admissibility of DNA profiling.		
		Instruction	al Hours	15
Sugge	sted Learning I	Methods: Online training		
			al Hours	75
Text E		1. Forensic Serology notes compiled by the dep		Forensic
1 CXI I	DOOR2	Science, Nehru Arts and Science College, Co	imbatore.	

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Refero	Pres DN and Mo Trip Fras	ss, Inc. A Prof Thom di, J.K pathi P ser, Ro	. 1994. filing a as Lub . (1988 vt. Ltd bberts J	nd DN. ojuhn; E B): Med l. J.A (190	A fing Birkha ical Ju 55): A	by Rich erprintin user Ven urispruden n introd	ng; Editorlag, Swence and	ed by Jo itzerland I Toxico	org T. E <sub>l</sub> d, 1999. ology, N	oplen I.M.			
5. Chatterjee, C. C- (1975): Human Physiology.  1. https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/S0000 FS/P000699/M011528/ET/1516257136FSC_P12_M2_e-text.pdf  2. https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/S0000 FS/P000699/M011539/ET/1516257484FSC_P12_M13_e-text.pdf  3. https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/S0000 FS/P000699/M011530/ET/1516257192FSC_P12_M4_e-text.pdf  Tools for Assessment (25 Marks)												.pdf 000016 xt.pdf 000016	
CIA									Semin	ar	Quiz	To	otal
CIA		CIA 5		C	IA III 6	As	ssignm	ent	Semina 3	ar	Quiz 3		otal 25
		_		C				ent		ar	_		
	;	_		PO4			3	ent PO8		PSO2	_		
CO\ PO CO1	;	<b>РО2</b> Н		<b>PO4</b> H	6 PO5 M	Ma	3 apping		3	PSO2	3 PSO3 H	2	PSO5 M
CO\ PO CO1 CO2	PO1 M M	<b>РО2</b> Н	PO3	PO4 H H	6 PO5	Ma PO6	3 apping PO7	PO8	3	PSO2	3 PSO3 H H	PSO4	PSO5
CO\ PO CO1	PO1 M	<b>РО2</b> Н	<b>PO3</b> H	<b>PO4</b> H	6 PO5 M	Ma PO6	3 apping PO7 L	PO8	3	PSO2	3 PSO3 H	PSO4	PSO5 M
CO\PO CO1 CO2 CO3 CO4	PO1  M  M  M  M	PO2 H H H	PO3 H M	PO4 H H	6 PO5 M L M L	Ma PO6	3 apping PO7 L M	PO8 -	3	PSO2 H H	3 PSO3 H H	PSO4 -	PSO5  M  L  M  L
CO\ PO CO1 CO2 CO3 CO4 CO5	PO1 M M M M M	PO2 H H H H	PO3 H M L M H	PO4 H H H H	6 PO5 M L M	M3 PO6	3 apping PO7 L M L	PO8	3	PSO2 H H H	3 PSO3 H 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	PO3 H M L M H	PO4 H H H H	6 PO5 M L M L	M3 PO6	3 apping PO7 L M L M	PO8	3	PSO2 H H H	3  PSO3  H  H  H  H	PSO4 M	PSO5  M  L  M  L
CO\ PO CO1 CO2 CO3 CO4 CO5	PO1 M M M M M	PO2 H H H H	PO3 H M L H H L-Low	PO4 H H H H	PO5 M L M L M	M3 PO6	3 apping PO7 L M L M	PO8	3 PSO1	PSO2 H H H	3 PSO3 H H H H	PSO4 M -	PSO5  M L M L

Course	e Code	Title										
23U3F	RC513		Core Paper XIII - F	orensic Medicine and A	nthropolog	y						
Semes	ter : V		Credits: 3	CIA: 20 Marks	ESE: 55	Marks						
Course	Objective	e	To impart knowledge and reports and draw conclusion		erstanding m	edico-legal						
Course	Category	,	Employability									
Develor	oment Ne	eds	Global									
Course	Descripti	on	Medico legal reports such the investigation. This cou about the various causes o	rse is designed to provid	e an in-depth	knowledge						
Course	Outcome	S		Teaching Methods	Assessme	ent Methods						
CO 1	To unde death	Lecture/Demonstration	Assi	gnment								
CO 2	Identify post-mo		time since death from neport.	Lecture/ Case studies	Case	studies						
CO 3	Underst	and	various causes of death.	Lecture/Demonstration	Se	minar						
CO 4	_		ious injuries and s associated with it.	Lecture/Video lecture	(	Quiz						
CO 5			nderstand reports on ast body.	Lecture/Demonstration	Assi	ssignment						
Offered	l by For	ensi	c Science									
Course	Content			Instruct	ional Hours	/ Week : 5						
Unit			Description		Text Book	Chapters						
			to Forensic Medicine and edicine: Introduction, H									
I	death, Su asphyxia,	e: Ir spen de	nquest, Summons. Death: aded animation, Modes of determination of time since entify living person for gen	eath: coma, syncope and e death, Identification:	1	3						
	Procedure death, Su asphyxia, methods	e: In spen de to id	nquest, Summons. Death: aded animation, Modes of determination of time since entify living person for gen	Definition, types, brain eath: coma, syncope and e death, Identifications der, race, age.  Instruction	1	3						
	Procedure death, Su asphyxia, methods	e: Ir spen de to id	nquest, Summons. Death: aded animation, Modes of determination of time since entify living person for gen  Methods: Library extra re	Definition, types, brain eath: coma, syncope and e death, Identifications der, race, age.  Instruction	1							
	Procedure death, Su asphyxia, methods methods and methods preparation and methods mortem hand mum and post Mechanic injuries,	e: Ir spen de to id img ling lint on o ods, ree, I mypo more al ir Mecegal	Methods: Library extra reconstruction, legal requirement fautopsy report, Examinat Examination of bones, Exhering and Late. Rigor mostasis, muscle changes, put cation. Injury: definition, claritem injuries; definition, classification legal aspects of injuraspects in cases of burns a	Definition, types, brain eath: coma, syncope and e death, Identification: der, race, age.  Instructive eading  Instructive ead	onal Hours							
Sugges	Procedure death, Su asphyxia, methods the dearn language of the de	e: Ir spen de to id img ling lint on o ods, ree, I mypo more al ir Mecegal	Methods: Library extra reconstruction, legal requirement fautopsy report, Examinat Examination of bones, Exhering and Late. Rigor mostasis, muscle changes, put cation. Injury: definition, claritem injuries; definition, classification legal aspects of injuraspects in cases of burns a	Definition, types, brain eath: coma, syncope and e death, Identification: der, race, age.  Instructive eading  Instructive ead	onal Hours	15						

Text B Refere	JRLs		1. 2. 3. 4. 2. 3.	Text book of edition, Para Fundamental Publishers- E Guharaj Fore Orient Longi Nicholas V. and Practice. https://epgp.in CLa6VYg== https://epgp.in P000701/M01 https://epgp.in P001353/M02	13 <sup>th</sup> edition.  Forensic Medis Medical Publis of Forensic Books and Allie ensic Medicine: man, 2 <sup>nd</sup> Edition Piscataqua: For	cine and Toxoshing, Hydera Medicine and (P) LTD, Kol P V Guharaj, Fa, Hyderabad. The ensic Anthrophe/ViewSubject odata/uploads/ej 1542FSC_P14_odata/uploads/ej 4684FSC_P11_	bcology: V V bad. I Toxicolog kata. Edited by M I cology: Curro c?catid=eCJfy pgp_content/s pgp_content/s	Pillay, 15 <sup>th</sup> y: R. Basu, R Chandran, ent Methods 23Kjy3c0vI S000016FS/ df S000016FS/			
Text B		ks	2. 3. 4. 1. 2.	Text book of edition, Para Fundamental Publishers- E Guharaj Fore Orient Longi Nicholas V. and Practice. https://epgp.in CLa6VYg== https://epgp.in P000701/M01 https://epgp.in P001353/M02	13 <sup>th</sup> edition. Forensic Medis Medical Publis of Forensic Books and Allie ensic Medicine: man, 2 <sup>nd</sup> Edition Piscataqua: For flibnet.ac.in/epgr 5724/ET/146433 flibnet.ac.in/epgr 5793/ET/151625	cine and Toxoshing, Hydera Medicine and (P) LTD, Kol P V Guharaj, Fa, Hyderabad. The ensic Anthrophe/ViewSubject odata/uploads/ej 1542FSC_P14_odata/uploads/ej 4684FSC_P11_	bcology: V V bad. I Toxicolog kata. Edited by M I cology: Curro c?catid=eCJfy pgp_content/s pgp_content/s	Pillay, 15 <sup>th</sup> y: R. Basu, R Chandran, ent Methods 23Kjy3c0vI S000016FS/ df S000016FS/			
Text B		ks	2. 3. 4. 1. 2.	Text book of edition, Para-Fundamental Publishers- Eduharaj Fore Orient Longo Nicholas V. and Practice. https://epgp.in CLa6VYg== https://epgp.in P000701/M01 https://epgp.in	13 <sup>th</sup> edition. Forensic Media Publis Medical Publis of Forensic Books and Allie Ensic Medicine: man, 2 <sup>nd</sup> Edition Piscataqua: For Edibnet.ac.in/Hon Strick Medicine: man, 2 <sup>nd</sup> Edition Piscataqua: For Edibnet.ac.in/epgg 5724/ET/146433 flibnet.ac.in/epgg	cine and Toxoshing, Hydera Medicine and (P) LTD, Kol P V Guharaj, Fa, Hyderabad. Pensic Anthropale/ViewSubject Odata/uploads/ej. 1542FSC_P14_odata/uploads/ej.	bcology: V V bad. I Toxicolog kata. Edited by M I cology: Curro c?catid=eCJfy pgp_content/s pgp_content/s	Pillay, 15 <sup>th</sup> y: R. Basu, R Chandran, ent Methods 23Kjy3c0vI S000016FS/ df S000016FS/			
Text B	nce Boo	ks	2.	Text book of edition, Para Fundamental Publishers- E Guharaj Fore Orient Longi Nicholas V. and Practice.	13 <sup>th</sup> edition.  Forensic Medical Publis of Forensic Books and Allie ensic Medicine: man, 2 <sup>nd</sup> Edition Piscataqua: For	cine and Toxoshing, Hydera Medicine and (P) LTD, Kol P V Guharaj, E n, Hyderabad. ensic Anthrop	ocology: V V bad. I Toxicolog kata. Edited by M I	Pillay, 15 <sup>th</sup> y: R. Basu, R Chandran, ent Methods			
Text B	nce Boo	ks	2.	Text book of edition, Para Fundamental Publishers- E Guharaj Fore	13 <sup>th</sup> edition.  Forensic Medical Publis of Forensic Books and Allie ensic Medicine:	cine and Toxoshing, Hydera Medicine and (P) LTD, Kol P V Guharaj, F	ocology: V V bad. I Toxicolog kata.	Y Pillay, 15 <sup>th</sup> y: R. Basu,			
			1	Toxicology,	13 <sup>th</sup> edition.						
Sugges	ooks		1.	Text Books  1. Narayana Reddy K.S, Introduction to Fore Toxicology, 13 <sup>th</sup> edition.							
Sugges	Lu Lu				J		Total Hours				
	ted Lea	rning l	Method	ls: Hands on t	training	Instructi	onal Hours	15			
V	Ossific in hum of oss ossifications, bones, Humer	ation: lan ske sification pation pation the slaver	Introdu letal sy on: est oints fo kull, cl ius ulna	stem: For estination and or gender ident avicle, scapul	n, Important Os mation of age an comparison w diffication, Anato a and ribs, ve acarpals and ph metatarsals	nd gender- Ra ith non-huma omy of differe rtebral colum nalanges, pelvi	te an 1 nt n, is,	9,10			
Sugges				ls: Laborator	y practice	Aibii ucu	TIVELS	10			
	bones.	Comma	1011 01	age, identificat	non or genuer.	Instructi	onal Hours	15			
IV	skeleta Charac human	nction, I system teristic and ne	definit m: Stru s of bo on hun	ion, history, s acture and func- ones. Anatomy nan skeletal sy	scope and importance and importance could be compared to the compared and compared to the compared and compared to the compare	cation of bone eral aspects for	es, or	21			
Sugges	ted Lea	rning l	Method	ls: Video lectu	ıres	Histi deti		10			
	radioac	ctive su	ibstance	es, action on ar	1 individual.	Instructi	onal Hours	15			
Ш	victim, burns, influen Lightni	offens Therr scalds cing, ing str	ses: Intr mal dea establis effects roke: t	roduction, type aths: types, poshment of iden , properties,	es, examination ost mortem app ntity, Electrical Post morten s, Post morten	earances. Flas injuries: facto n appearance	sh ors 1 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	ı	Н	ı	-	Н	Н	L	-
CO4	M	M	L	Н	Н	-	Н	-	-	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				
23U3FR	RC514		Core Paper XIV - I	ntroduction to Digital 1	Evidences			
Semeste	er : V		Credits: 3	CIA: 20 Marks	ESE : 55 I	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 N	eeds	Global					
Course l	Descrip	tion	Digital Forensics is a science computer, mobile phone, preservation, identification, evidence which can be used	and the p	process of			
Course	Outcom	es		<b>Teaching Methods</b>	Assessme	ent Methods		
CO 1			miliar with the concept of sics and cyber threats	Lecture/Demonstration	Assi	gnment		
CO 2	investi	gatio	the various digital forensic n methods	Lecture/Demonstration	Case	studies		
CO 3			ideas of operating system forensics	Lecture/ Case studies	Se	minar		
CO 4	Under: mobile		the threats associated with ces.	Lecture/Video lecture	(	Quiz		
CO 5	_		owledge in emerging trends rensics	Lecture/Demonstration	Assi	gnment		
Offered	by Fo	rensi	c Science					
Course	Content	ţ		Instruction	onal Hours	/ Week : 5		
Unit			Description		Text Book	Chapters		
	Introdu	ction	to Digital Evidence					
	Overvie	w of	digital evidence and its impor	rtance in investigations				
I '	Types o	f digi	tal evidence : computer, mob	oile devices, cloud, and	1	all		
:	social n	nedia	, Legal and ethical consider	erations in collecting,				
	analyzin	ıg, an	d presenting digital evidence.					
				Instruction	nal Hours	15		
Suggeste	ed Lear	ning	<b>Methods</b> : <b>Library</b> extra rea	ading				
	Fundan	nenta	ls of Digital Forensics					
	Principle	es of	f digital forensics : preser	evation, identification,				
II	extractio	on, de	ocumentation, and analysis,	1	4			
1	used in	digita	al forensics investigations, Cl					
	importa	nce in	digital forensics.					
				Instruction	nal Hours	15		
Suggeste	ed Lear	ning	Methods : Library extra rea	ading				

	0	4 1 Et C 4		
Ш	Introduction systems: FA data carving. Introduction	to operating systems and file systems, Types of file T, NTFS, EXT, and HFS, Analysis of file systems: file headers, and footers. Network Forensics: to network forensics and its importance, Packet its role in network forensics, Tools used in network	1	5,6,7
	Toronsies	Instruction	al Hours	15
Sugges	sted Learning	Methods: Online training	ai iiouis	13
		ces and social media forensics		
IV	smartphones, used in mobil Introduction t	to mobile device forensics, Types of mobile devices: tablets, and wearable devices. Tools and techniques e device forensics. Cloud and Social Media Forensics; o cloud and social media forensics, Types of cloud and platforms, Tools and techniques used in cloud and forensics.	1	9,10
	1	Instruction	al Hours	15
Sugges		Methods : Hands on training		
V	Introduction Things, Artif emerging tren	rends in Digital Evidence to emerging trends in digital evidence: Internet of ficial Intelligence, and Blockchain. The impact of fids on digital forensics investigations. Future of digital digital forensics.	1	12
		Instruction	al Hours	15
Sugges	sted Learning	Methods: Video lectures		
		Tot	al Hours	<b>75</b>
Text B	Sooks	<ol> <li>"Digital Forensics: Principles and Practices" I K. Srinivas, and V. Kamakshi Prasad</li> </ol>	by Niranja	n Reddy,
Refere	ence Books	ternational d Arab Emedited by P tion" edited	nirates, Pavel d by " by S. C.	
Web.	URLs	What Is Digital Forensics: Process, Tools, and Forensics Overview   RecFaces	Types   Co	omputer

	Tools for Assessment (20 Marks)													
CIA	I	CL	A II	Cl	A III	As	signn	ment Seminar		ar	Quiz		tal	
4			4		5		2		2		3	20		
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				Ver	ified b	y Chair	man		
Mr. Akhi	l Benn	y					1	Mr. Ak	thil Benn	ıy				

Course	Code				Title		
23U3F	RP515	5	Core Pa	per XV – Fo	rensic Serol	ogy Practical	
Semest	ter : V	,	Credits: 3	CIA	A: 30 Marks	ESE: 45	5 Marks
Course	Objec	ctive	Serology is the st	•	•	•	uch as blood,
			semen, saliva, pe	erspiration and	d faecal matte	er	
Course Develop		•	Employability Global				
			Course is structu	red to provid	le the basic c	oncepts of analyt	ical methods
Course	Descr	ription	as it applies to h				
Course	Outco	omes			Teaching M	ethods Assessn	nent Methods
CO 1			ze and compare a	nd identify	Demonstrat		Practical
		rent types		. 11 1	Video Lesso	ons	Tucticui
CO 2		fuct test to p and diat	o identify blood st oms.	ains, blood	Demonstrat	ion F	Practical
CO 3	Lear	n the disti	llation of alcoholic	c drinks.	Demonstrat		Practical
	Lear	n the syst	ematic methods or	f collection	Video Lesso Demonstrat	ion /	
CO 4		•	f toxicological san		Video Lesso		Practical
CO 5			LC plate and examination	mination of	Demonstrat		Practical
Offered		s and pest <b>Forensic</b>			Video Lesso	ons	
Course			<u> </u>		In	structional Hou	rs / Week : 4
S. No	) <b>.</b>			Expe	riment		
1		Analysis a	and comparison of	human and a	animal hair.		
2		Blood gro	ouping of fresh blo	od stains.			
3		Presumpti	ive test for blood s	stains.			
4		Microcrys	stal tests for dried	blood stains.			
5		Microsco	pic analysis of dia	tom			
6		Prelimina	ry examination of	saliva			
7		Prelimina	ry examination of	Semen			
8		Identifica	tion of species (pro	ecipitin test)			
9		Confirma	tory examination of	of saliva			
10		Confirma	tory tests for Seme	en			
	•					TOTA	L 60 Hours
			// L. C.	Accocement	(30 Marks)		
			1 ools for	Assessment	(50 Marks)		
Analyti Skill		Lab Performa	Inference	Test I	Test II	Observation	Total

	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

Cours	rse Code Title										
23U3F	RE501		Discipline Specific Electiv	ve Paper : I (A) – Due Prevention	Dilig	ence and	Loss				
Semest	er : V		Credits: 4	CIA: 25 Marks	E	SE : 75 N	<b>Aarks</b>				
Course	Objecti	ve	Due diligence is next level objective of training forens								
Course	Catego	<b>y</b>	Employability								
Develo	pment N	eeds	Global								
Course	Descrip	tion	When it come to crimes, p happening. Due diligence from happening.			-	_				
Course	Outcom	ies		Teaching Method	ls	Assessme	ent Methods				
CO 1	diliger	nce	ne concept of legal due	on	Assi	gnment					
CO 2	Under Due D	iligen	S	Case	studies						
CO 3	operat		on	Se	minar						
CO 4	Assessment						Quiz				
CO 5	5 Acquire basic idea about Investigations in Loss Prevention Lecture/Demonstration Assignment						gnment				
Offered	d by   Fo	rensi	c Science								
Course	Content	t		Instru	ctiona		/ Week: 5				
Unit			Description			Text Book	Chapters				
I	Due Di	ligenc ce Be	te Process and Best Practic te Process, Steps, Team St st Practices and Lessons Le	ructure and Roles, Du		1	1				
				Instruc	ctiona	l Hours	15				
Sugges	ted Lear	ning	Methods: PowerPoint pres	sentation							
II			te Diligence tements Analysis, Cash Flo	w Analysis, Projection	ns	1	2				
	and For	ecasts	, Valuation Methods, Key P	Performance Indicators							
1	Instructional Hours 15										
			Mothoda Library outro re	eading							
Sugges			Methods: Library extra re	8							
Sugges	Operation Business Custom	ional s Mo er Ba	Due Diligence odel and Strategy, Industrates and Revenue Streams, in Resources and Management	ry and Market Analy Operations and Sup		1	3				
	Operation Business Custom	ional s Mo er Ba	Due Diligence odel and Strategy, Industrate and Revenue Streams,	ry and Market Analy Operations and Supent.	oply	1 I Hours	3 <b>15</b>				

	TOO A			D: 1 4							1			
	ESG A	•								_				
			-						munity	•				
IV									Due Di	•	1		4	
	Report	Struc	ture a	nd Co	ntent,	Risk	Assessi	nent a	and Mit	igation				
	Strateg	gies, Du	ue Dili	gence	Check	list and	l Temp	lates.						
									Inst	ruction	al Hou	rs	15	
Suggest	ed Lea	rning	Metho	ds: Li	brary	extra	readin	g						
	Invest	igation	ns in L	oss Pr	eventi	on								
•	Basic	quest	ions (	of in	vestiga	tion,	Types	of	Investig	gations,			_	
$\mathbf{V}$	Inform	ation	source	s, Inv	estigat	tion a	nd Au	diting,	Invest	igative	1		5	
	Leads. Loss Prevention services and speculations.													
I									Inst	ruction	al Hou	rs	15	
Suggest	ed Lea	rning	Metho	ds: Po	werPo	oint pr	esenta	tion						
- 55										Tot	al Hou	rs	75	
			1	Note	og Con	المطانعة	hv. +ha 1	Danam	-mant at	FEamons	ia Caian	naa Mal		
Text Bo	oks		1.			-	•	-	ment of mbatore	Forens	ic Scier	ice, Ner	ıru	
	1. Due Diligence: An M&A Value Creation Approach by William J.													
							Hilger							
Referen	ce Boo	ks	2.				_	•		L. Koen	_	_		
			3.		_				-	Governa				
										y Leo F	. Danoi	<u>l</u>		
							sment (		•					
CIA	I	CL	A II	Cl	IA III	As	signm	ent	Semina	ar (	Quiz	То	tal	
5			5		6		3		3		3	2	5	
						Ma	pping							
CO \ PO		PO2	PO3		PO5	PO6		PO8	PSO1	PSO2		PSO4		
CO1	L	Н	L	L	-	Н	Н	Н	M	M	L	L	L	
CO2	L	Н	Н	-	-	Н	Н	Н	Н	Н	L	L	L	
CO3	H	H M	H L	-	-	H M	M H	H H	H H	H M	L L	L L	L L	
CO5	Н	L	L	_	_	M	M	Н	M	M	L	L	L	
H-High:					1			1 11	1	1	1 2	1 -2		
					<b>5</b> 7				Varif	ied by (	hairm	an		
		Course designed by							Verified by Chairman					
Mr. Akh		ıy					M	lr. Akl	nil Benn	y				

Course	urse Code Title									
23U3FF	RE502	D	Discipline Specific Elective	Paper : I (B) – Advan	ced	Digital F	orensic			
Semeste	r:V		Credits : 4	CIA: 25 Marks	J	ESE : 75 N	Marks			
Course	Objective		Introduce the students to c related to it.	ybercrimes, their type	s, in	vestigation	n and laws			
Course	Category		Skill Development							
Develop	ment Nee	ds	Global							
Course 1	Descriptio	n	Cyber forensic Science is a is designed to introduce the specialize in the cyber forents.	e concepts to any fore						
Course	Outcomes			Teaching Methods	;	Assessme	ent Methods			
CO 1		rs a	terminologies related to nd cyber security.	Lecture/Demonstration	on	Assi	gnment			
CO 2	cybercrin	nes		Lecture/ Case studies		Case	studies			
CO 3	_	es	asic idea about the tools and in the field of cybercrime n.		on	Se	minar			
CO 4	investiga	tioı		Lecture/Video lecture	e	(	Quiz			
CO 5			ole and functions of various investigation tools.	Lecture/Demonstration	on	Assignment				
Offered	by Fore	nsi	c Science							
Course	Content			Instruc	tion		/ 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,					1				
	meneciua	H E	Toporty Nights, E-commerce		tion	al Hours	15			
Suggeste	ed Learnii	ทฐา	Methods: PowerPoint pres		MUII	ui iivuis	15			

	Calcar Calcar		
II	Cyber Crimes 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	sted 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.	1	3
	Instructio	nal Hours	15
Sugges	sted 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	sted 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
	Instructio	nal Hours	15
Sugges	sted Learning Methods: PowerPoint presentation		
		tal Hours	75

Text Boo	oks		2.			-	•	-	ment of mbatore	f Forens	ic Scien	ice, Nel	ıru
Reference	ce Boo	ks	5.	Terr Fadi Cou Eric	orism. ia, A. ( rse Te kson, .	Spring (2005). chnolo J. (200	ger. The U gy.	noffici king: '	ial Guid	Cyber We to Eth	ical Had	cking.	ber
1. 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 2. 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													
Tools for Assessment (25 Marks)													
CIA	T	CL	A II					`		ar l	Oniz	To	ıtal
CIA 5	Ι		<b>A II</b> 5		IA III 6		sment ( ssignme	`	Semina 3	ar (	Quiz 3		otal 25
	I				IA III	As	signm	`	Semina	ar (			
	I PO1				IA III	As	ssignme 3	`	Semina	PSO2			
5			5	Cl	6 6	As Maj	ssignme 3 pping	ent	Semina 3		3	2	25
5 CO\PO CO1 CO2	PO1 L L	PO2 H H	PO3 L H	PO4 L H	6 PO5	May PO6	ssignme 3 pping PO7	ent	Semina 3 PSO1	PSO2 M H	3 PSO3 L L L	PSO4  L  L	PSO5  L L
CO\PO CO1 CO2 CO3	PO1 L L H	PO2 H H	PO3 L	PO4 L H H	A	May PO6 H H H H	3 pping PO7 H	PO8	Semina 3 PSO1 M	PSO2 M H H	3  PS03  L  L  L	PSO4  L  L  L	PSO5  L  L  L
CO\PO CO1 CO2 CO3 CO4	PO1 L L H H	PO2 H H H M	PO3  L  H  H  L	PO4  L  H  H	PO5   L   M   M   H	May PO6 H H H M	3 pping PO7 H H M H	PO8	PSO1   M   H   H   H   H   H	PSO2 M H H M	3   PSO3   L   L   L   L   L   L   L   L   L	PSO4 L L L L	PSO5  L  L  L  L
CO\PO CO1 CO2 CO3 CO4 CO5	PO1 L L H H	PO2 H H H M	PO3 L H L L	PO4 L H H M	A	May PO6 H H H H	3 pping PO7 H H M	PO8	Semina 3  PSO1  M  H  H	PSO2 M H H	3  PS03  L  L  L	PSO4  L  L  L	PSO5  L  L  L
CO\PO CO1 CO2 CO3 CO4	PO1 L L H H	PO2 H H H M	PO3 L H L L	PO4 L H H M	PO5   L   M   M   H	May PO6 H H H M	3 pping PO7 H H M H	PO8	PSO1   M   H   H   H   H   H	PSO2 M H H M	3   PSO3   L   L   L   L   L   L   L   L   L	PSO4 L L L L	PSO5  L  L  L  L
CO\PO CO1 CO2 CO3 CO4 CO5	PO1 L H H H M	PO2 H H H Clium;	PO3 L H L L	PO4 L H H M	PO5   L   M   H   M   H   M	May PO6 H H H M	3 pping PO7 H H M H	PO8	PSO1   M   H   H   H   M	PSO2 M H H M	3 PSO3 L L L L L L L L L	PSO4 L L L L L	PSO5  L  L  L  L

Course	Code			Title				
23U3F	RE503		Discipline Specific Electi	ve Paper : I (C) - Fore	nsic Psychol	logy		
Semest	er : V		Credits: 4	CIA: 25 Marks	ESE: 75 N	Marks		
Course	Objecti	ve	To enhance understanding of behavior, in terms of its biological, cognitive, social, emotional and contextual components and their interaction, and to develop an appreciation for its implications in forensic settings.					
Course	Categor	<b>. y</b>	Skill Development					
Develop	ment N	eeds	Global					
Course Description  Forensic Psychology is the application of psychology in the aid of investigation. Forensic psychology looks into the vast psychology perspectives and applies them to legal investigations including issued as public policies, new laws, competency, and also the mental standefendant.								
Course	Outcom	ies		Teaching Methods	Assessmo	ent Methods		
CO 1		ology	and the basic concepts of suitable for forensic science s	Lecture/Demonstration	n Assi	gnment		
CO 2	Under		the concepts of Normality	Lecture/Demonstration	n Case	studies		
CO 3	Gain psycho		wledge about various al disorders	Lecture/Video lecture	Se	minar		
CO 4	Able Psycho		scriminate Sociopathy and	Lecture/ Case studies	(	Quiz		
CO 5			out Criminal profiling and ninal profiling methods.	Lecture/Demonstration	n Assi	gnment		
Offered	by Fo	rensi	c Science					
Course	Conten	t		Instructi	onal 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.							
			•		onal Hours	15		
Suggest	ed Lear	ning	Methods: Library extra rea	ding				

	1		
	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,		
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.		
	Instruction	nal Hours	15
Sugge	sted Learning Methods: Library extra reading		
	Psychological Disorder		
	Mood disorders: Mania and depression, Unipolar and bipolar		
	disorders, Causal factors in mood disorders: Biological,		
	Psychological, and Socio-cultural factors, Anxiety disorders, Phobic	:	
	disorders, Panic disorder and agoraphobia, Generalised Anxiety		
	Disorder and Obsessive Compulsive Disorder, Personality		
	disorders: Clinical features of personality disorders, Types of		
	Personality disorders, Paranoid, Schizoid, Schizo-typal, Histrionic,		
III	Narcissistic, Antisocial, Borderline, Avoidant, Dependent,		3
1111	Obsessive-compulsive, Passive-aggressive and Depressive		3
	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		
	delusional disorder, Causal factors in delusional disorder.		
Sugge	Instruction sted Learning Methods: Case studies	nal Hours	15
Sugge	Psychopathy and Sociopathy		
	Eyewitness testimony: its importance and significance, Violence	,	
	and aggression: biological factors, psychological factors and social		
	factors, Childhood disorders and criminality, The Criminal		
137	Psychopath-general behavioural characteristics of psychopaths,		4
IV	difference between psychopath and sociopath, Antisocial		4
	Personality Disorder and Psychopath and Offending patterns of		
	criminal psychopaths, Criminal Homicide, Multiple Murder, Serial		
	Killers, Mass Murders.	nol Hours	15
Sugge	Instruction sted Learning Methods: Video lectures	nai mours	15
Sugge	sicu Learning Meinous. Viueo iectures		

V	method and te Brain Proced	ive ards. Polychnique mapp sure, single	nd De ygraph les: re ing, lesuspect isual,	ductive : instru levant- BEOS: : inter	iment irrelev intro view, ing ar	and its  vant te  oduction  design  id its	paramechnique on to analys	eters, es, C BEC of pr is, N	ninal proscientific QT, Can Solve instruction of the color of the colo	ic basis and test rument, dio & nalysis:	1		5
									Inst	ruction	al Hou	rs	<u>15</u>
Suggest	ed Lea	rning	Metho	ds: Vi	deo le	ctures							
										Tot	al Hou	rs	<b>75</b>
Text Bo	oks		1.			-	y the dege Co	-	ment of a	forensic	science	, Nehru	Arts
Referen		ks	3 4	Curi Fore Rese Cars Abn Mod	rent Pe ol, C. ensic P earch a son, R ormal dern Li s://epg	rspecti R & sychol and Ap L.C., I Psycho fe. (11	ives,9 t amp;ar ogy: plicatio Butcher ology a th Ed).	h Edit np; E on.US r, J.N nd New	Ianos, Mion(200: Bartol, A: SAGI A: SAGI Examp York: A	5), Tata A.M. (2 E public o;amp; dleyn &	Mc gra 008).Int ations. Mineka amp;ar	w –Hill troducti , S. (2 mp; Bac	on to 2000).
				Too	ols for	Assess	sment	(25 M	(arks)				
CIA	I	CL	A II	Cl	A III	As	signm	ent	Semina	ar (	Quiz	To	tal
5			5		6		3		3		3	2	5
						Ma	pping						
CO\PO	PO1	PO2	PO3	PO4	PO5		PO7	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	ı	M	-	-	M	Н	Н	-
CO5	Н	Н	L	L	Н	-	1	-	M	Н	Н	Н	-
H-High;	M-Me	dium;	L-Low										
	(	Course	desig	ned by	7				Veri	fied by	Chairm	nan	
Ms. Archana Sunil  Mr. Akhil Benny													

**Instructional Hours: 3 Hrs** 

Cou	rse Code			Title			
23U	4FRS503	Skill	Based	Paper – Inter	nship		
Sem	ester : V	Credits: 3	CIA	: 30 Marks	SE : 45 Marks		
Course	Objective	The objective of this course is to provide undergraduate students with hands-on experience in the working of various organisations in the field of criminal justice administration.					
Course	Category	Skill Development					
Develop	Development Needs Employability						
Course Description  This course provides undergraduate students with an opportunity to with various agencies involved in the criminal justice system and get time experience. This will develop skills in critical thinking, laborate skills, and effective communication.						system and get real	
Course	Outcomes			Teaching Me	thods	Assessment Methods	
CO 1		and the functions of va s involved in criminal ju on.		Hands-on tra	aining	Review	
CO 2	•	administration and activiti agencies in the field of for		Hands-on tra	aining	Review	
CO 3	Understand t	the scope of Forensic Scients.	nce in	Hands-on tra	aining	Review	
CO 4		skillset require for a for over the contract of the contract o	rensic	Hands-on tra	aining	Review	
CO 5	CO 5   Create knowledge and give it to the society.   Hands-on training						
Offered	by Forensie	c Science			1		

## 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	se Code	e Code Title										
23U3	FRC616		Core Paper 2	KVI - Forensic Toxicolo	gy							
Seme	ster : VI		Credits: 4	CIA: 25 Marks	ESE:	75 Marks						
Cours	e Objectiv	ve	Develop knowledge and sk samples	ill for the analysis of for	ensic toxicological							
Cours	e Categor	$\mathbf{y}$	Employability									
Develo	pment No	eeds	Global									
Cours	e Descript	tion	Toxicology deals with the	Toxicology is the study of the action of poisons in the body. Forensic Toxicology deals with the identification of cause of death based on the analysis of body samples for various poisons.								
Cours	e Outcom	es		<b>Teaching Methods</b>	Assessm	nent Methods						
CO 1	Know the inside be		gical action of various toxins	Lecture/Demonstration	As	ssignment						
CO 2	Extract a	and iso	late toxins.	Lecture/ Case studies	Са	ise studies						
CO 3			d in toxicology related cases		;	Seminar						
CO 4	evidences.					Quiz						
CO 5	Study to	As	ssignment									
Offere	Offered by Forensic Science											
Cours	e Content	Instruction	onal Hou	rs / Week: 5								
Unit			Description		Text Book	Chapters						
	Introduc											
I	significant classification chemical and symp	toxico nce of tion on nature, otoms o	Forensic Toxicology  logy: Introduction, Role f toxicological findings- the basis of their origin, p types of poisoning- Modes of poisoning, its effect on ortem findings and report w	Poisons, definition, hysiological action and of administration- Signs vital functions- Medico	1	11						
I	significant classification chemical and symp	toxico nce of tion on nature, otoms o	ology: 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		11 15						
	significan classifica chemical and symp legal and	toxico nce of tion on nature, otoms o post-m	ology: Introduction, Role f toxicological findings- the basis of their origin, p types of poisoning- Modes of poisoning, its effect on ortem findings and report w	Poisons, definition, hysiological action and of administration- Signs vital functions- Medico riting.  Instructiona								
	significant classificate chemical and symplegal and steed Learn Drugs and Drugs: de Common names, minstrumer	toxico nce of tion on nature, otoms o post-m ning M nd its a efinition ly cons nethods ntal. Sp	ology: Introduction, Role f toxicological findings- the basis of their origin, p types of poisoning- Modes of poisoning, its effect on ortem findings and report w	Poisons, definition, hysiological action and of administration- Signs vital functions- Medico riting.  Instructional ling  Ind forensic importance- ctions, symptoms, street of drugs: chemical and nalysis- Importance of								
Sugge	significant classificate chemical and symplegal and symplegal and sted Learn Drugs and Drugs: de Common names, mander instrumer physical a	toxico nce of tion on nature, otoms o post-m ning M nd its a efinition ly cons nethods ntal. Sp and biod	ology: Introduction, Role for toxicological findings- the basis of their origin, putypes of poisoning- Modes of poisoning, its effect on tortem findings and report we dethods: Library extra reactions  n, classification and scope a umed drugs, their mode of a of consumption- Analysis pot tests and qualitative a	Poisons, definition, hysiological action and of administration- Signs vital functions- Medico riting.  Instructional ling  Ind forensic importance- ctions, symptoms, street of drugs: chemical and nalysis- Importance of	l Hours	15						

	5	5	6	3	3	3	25	
C	IA I	CIA II	CIA III	Assignment	Seminar	Quiz	Total	
Tools for Assessment (25 Marks)								
Web.	URLs		-	epgp.inflibnet.ac.	.in/Home/ViewSubj	ect?catid=	eCJfy23	
Refer	<ol> <li>S.N. Tiwari: Analytical Toxicology,         Publications, New Delhi, 1987.     </li> <li>Saferstein, R: Forensic Science Hand Book,         Pretince Hall, NI, 1982. Saferstein, R: Crimin     </li> <li>O Hara &amp;Osterburg: Introduction to Crimina</li> </ol>					inalistics, 2002.		
			Press L	td. Allahabd, 198				
Text	Books			ina Reddy K.S, I	Introduction to Fore	Į.		
Sugge	estea Lea	arning Meth	oas: Hands	on training	Tota	l Hours	75	
C		3.5 (2)	1 77 7		Instructional	I Hours	15	
	toxicological cases.							
V	Wanagement of Toxicological cases in the hospital: Signs and symptoms of common poisons, antidotes and Stomach washing-Collection and preservation of viscera for various types of poisons: Choice of preservatives, containers and storage- Report writing in						25	
				eport Writing	anital Signs and			
Sugge	ested Lea	arning Meth	ods: Video l	lectures				
					Instructional	l Hours	15	
IV	distribu metabo	tion, metab lism and	olism, path drug to		tion- Absorption, metabolism, drug n and clinical	1	17	
~ <del>~ 55</del>		action to Ph		v -				
Sugg	ested Lea	rning Meth	ods: Labora	atory practice	mstructiona.	illouis	13	
III	separati	ion of poison	n and drugs. of poisons a	Spectrophotomend drugs- Exami	tric techniques for ination of metallic	1 Hours	14	
	Extract	tion, Collect ion, isolation techniques		1.4				

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

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

Course	Code	e			Title						
23U3FI	RP617	7	Core	Paper XVI	I - Toxicolog	y Practical					
Semeste	er : V	I	Credits: 3	CL	4 : 30 Marks	ESE	: 45 Marks				
Course	Obje	ctive			ooks for the presence of drugs and/or poisons						
Course			in biological tissues and fluids.  Employability								
Develop		•	Global								
Course			Course is structured to provide the basic concepts of analytical methods as it applies to, drug and body fluid and other toxicologic evidences.								
Course	Outco	omes			Teaching M	ethods Asse	ssment Methods				
CO 1			nup procedures of		Demonstrat Video Lesse	-	Practical				
CO 2	Lear meth		xamination of et	thanol and	Demonstrat		Practical				
CO 3			illation of alcoholi		Demonstrat Video Less	ons	Practical				
CO 4	and 1	packing o	ematic methods of toxicological san	nples.	Demonstrat Video Less	sons Practical					
CO 5		repare a s	ΓLC plate and examination of the examination of the plate and examination of the	mination of	Demonstrat Video Less		Practical				
Offered	by	Forensic	Science								
Course	Conte	ent			In	structional H	ours / Week : 4				
S. No	•			Expe	eriment						
1		Clean up	procedure for visc	eera							
2		Test for e	ethanol and methar	nol							
3		TLC exai	mination of pestici	des							
4		Preparati	on of different mo	bile phases ar	nd spraying re	eagents					
5		Examinat	tion of plant poison	ns							
6		Collectio	n and packing of to	oxicological s	samples.						
7		Extractio	n of drugs and poi	sons from dif	ferent matric	es.					
8		Distillation	on of alcoholic dri	nks.							
9		Preparati	on of TLC plates.								
10		TLC exai	mination of drugs								
						TO	TAL 60 Hours				
			Tools for	Assessment	(30 Marks)						
Analyti Skill	cal	Lab Perform e	anc Inference	ce Test I Test II Observation Tot							
					7 7 4						

	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			Т	itle			
23U3FI	RV618		Core Paper XVI	II (A)	- Project and	l Viva	voce	
Semeste	er : VI		Credits: 3	CIA	: 30 Marks	E	SE : 45 Marks	
Course	Objectiv	ve	The objective of this cour hands-on experience in condeveloping skills in problem effective communication.	onduct	ting research	project	s, with a focus on	
Course	urse Category Skill Development							
Develop Needs	Development Needs  Employability							
Course	Descrip	tion	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	es			<b>Teaching Methods</b>		Assessment Methods	
CO 1	Explair Forensi		basic concepts of research	h in	Classroom		Review	
CO 2	Write e	xtens	ively about a particular topic	·.	Practical Tra	aining	Review	
CO 3	Analys	e liter	ature, collect data and interpr	ret it	Reading rev articles	iew	Review	
CO 4	Choose a problem and conduct a scientific enquiry on it.				Laboratory/ Survey		Review	
CO 5 Create knowledge and give it to the society.					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	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

Com	rse Code		Title								
	FRE604	Discipline Specific Elective		Money 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 effo	(C) regulation	s, enabling						
Course	Category	Employability									
Develop	ment Need	ls Global									
	This course covers Anti Money Laundering (AML) and Know Customer (KYC) basics. Students understand the rules, spot risks protect your business from fraud while following the law.										
Course	Outcomes		Teaching Method	C	essment ethods						
CO 1		ney Laundering Methods	Lecture/Demonstration	on Assi	gnment						
CO 2	Understan Internation	nd AML Legislation and nal Cooperation	Lecture/Demonstration	on Se	minar						
CO 3		out Financial Intelligence	Lecture/ tutorial	(	Quiz						
CO 4		knowledge on Regulatory ad Guidelines	Assi	gnment							
CO 5	Understan Customer Manageme	and Customer Risk	Lecture/ Case studies	Cas	e study						
Offered	by Foren	nsic Science		-							
Course	Content		Instruc	tional Hours	/ Week : 6						
Unit		Description		Text Book	Chapter s						
I	Money La Money Lau	undering Methods nundering: Definition and Si andering on the Global Econon Methods and Techniques Used	ny, Financial Terrorism in Money Laundering	l,   1	1						
				tional Hours	18						
		g Methods: Powerpoint pres			I						
II	AML Legislation and International Cooperation  Money Laundering Legislation in Different Countries International Cooperation Among Countries and International Bodies, Global Efforts and Coordination for AML and CFT Role of Financial Intelligence Units (FIUs)										
<u> </u>				tional Hours	18						
		g Methods: Library extra re									
III	(FATE), M	mittee on AML and KYC, Fina Ioney Laundering and Corresp India - PMLA Objectives, Fin	ondent Banking - AM		3						
				tional Hours	18						
Suggeste	ed Learnin	g Methods: Online training									

	Regula	•											
										, Force			
IV	(FATF	) and	Its R	Recomi	menda	tions,	AML	Struct	ure in	India,	1		4
	Preven	tion o	f Mon	ey Lai	underi	ng Ac	t (PMI	LA) Ol	ojective	s, RBI			
	Guidel	ines, K	ley Age	encies:	: FIU I	ND, E	D, NIA	A, SFIC	)				
•		•	-					·		ruction	al Hour	s	18
Suggested Learning Methods: Video lectures													
	KYC (							r Risk	Manag	ement			
					-				_	•			
	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												
$\mathbf{V}$	Management in KYC, KYC for Different Types of Accounts and												5
	Customers, Monitoring Transactions and Reporting Obligations Under PML Act, Role of KYC in Fraud Control, Interconnectedness												
			L, and	CFI,	Reguia	nory C	oorain	ation i	or AML	., CF1,			
	and KY	i C							T4		-1 TT		10
Cugaaa			N/ o4ls o	Ja. Ca	200 04	d: aa			Inst	ruction	al Hour	S   .	18
Suggest	ea Lea	rning .	wietno	us: Ca	ase stu	ares				Tot	al Hour		00
												- I	90
Text Bo	oks		1.			-	•	-		Forens	ic Scienc	ce, Neh	ru
TOM D	OILD			Arts	and S	cience	Colleg	ge Coin	nbatore				
			1.	Min	ahan, '	Т. Р. (`	Year of	public	ation).	Anti-Mo	ney Lau	ınderin	g:
				Wha	ıt You	Need	to Kno	w. Pub	lisher.		•		_
			2.	Min	ahan, '	Г. Р. (	Year of	public	ation).	Anti-Mo	oney Lau	ınderin	g
								-			Guide :		
	_	_			-			als. Pub					
Referen	ice Boo	ks	3.		-					publicat	ion). Ur	derstar	ding
											for Qua		
							ublish		1400100	ir Gurae	101 Qua	1105, 110	,
			4						) Anti	Money	Launder	ing and	
						•		Publish	*	wioney	Laumaer	mg and	•
								(25 Ma					
CIA	T	CI	A II		A III		ssignr	<u> </u>	Semi	nar	Quiz	To	tal
5			5 5	CI	6	- A	3		3	ııaı	3		<u>5</u>
		,	<u>.                                    </u>	1	U	Mo	pping					4	<u> </u>
CO \ DO	DO1	DO2	DO2	DO4	DO5			DOG	DCO1	DCO2	PSO3	DCO4	DCO5
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2		PSO4	P505
CO1	Н	M	L	L	H	-	- 1\1	<del>  -</del>	-	Н	Н	L	_
CO2	Н	Н	M H L - M H							Н	M	_	
CO3	Н	H H	M H L - M H H H H L H H									M	-
CO4	Н		-				-	-	-			M	-
CO5	H	M	L	L	M	-	-	_	-	M	Н	M	-
H-High:	, IVI-IVIE	uium;	L-LOW										
		<u>Cou</u> rse	e desig	ned by	<b>y</b>			Verified by Chairman					
Mr Abh	il Renn	V					1./	Mr Akhil Benny					
IVII. ANI	Mr. Akhil Benny							Mr. Akhil Benny					

Course	e Code			Title				
23U3F	RE605	Dis	cipline Specific Elective Pa	per : II (B) – Audio and	d Video Ider	ntification		
Semest	er : VI		Credits : 4	CIA: 25 Marks	ESE: 75 N	Aarks		
Course	Objecti	ve	To learn the acquisition, recordings and speaker i ultimately be presented as	dentification by compa	ring voices			
Course	Categor	ry	Skill development					
Develop	oment N	eeds	Global					
Course	Descrip	tion	Audio-Video forensics in video recordings which are legal proceedings, speaker and spectrographic analysis speech.	e obtained from a civil in dentification usually co	nvestigation on 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	n Assig	gnment		
CO 2	Enhan examin		e audio and video signals for n	Lecture/ Case studies	Case	studies		
CO 3	Check video		authenticity of an audio or	Lecture/Demonstratio	n Ser	ninar		
CO 4			on of the voice (speaker).	Lecture/Video lecture	Q	uiz		
CO 5			rong foundation on visual 1 of audio spectra.	Lecture/Demonstration	n Assig	gnment		
Offered	l by   Fo	rensi	ic Science					
Course	Conten	t		Instructi	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 1  Characteristics of Environments-Diffraction, Reverberation and Diffusion. Recording Formats - Analog and Digital, Audio and Video file formats. Linear and Non –linear Editing.							
Suggest	tad Laar	nina	Mathada: Library avtra ra		onal Hours	18		
Bugges			Methods: Library extra reator to video technology	auilig				
II	Concept technolo Digital	t of ogy c Wate	Video film production - omponent of Digital Image r Marking. Visual examinat - Facial Image Recognition f	Processing. Concept of ion technique on video	1	2		
				Instructi	onal Hours	18		
Suggest	ted Lear	ning	Methods: Power point pres	sentation				

		1	1
Ш	Forensic audio and video analysis  Introduction to Forensic Audio & Video Analysis: A basic understanding of forensic audio and video technology - Audio and Video Evidence handling procedures. Authentication of recorded audio and video. Scientific methodology of forensic audio-video analysis. Recovery of digital audio-video / Deleted Video & Audio Files recovery - Exporting evidence as video or still image files-Software used for audio and video analysis. Admissibility of audio and video evidence in court.	1	3
	Instruction	al Hours	18
Sugges	ted Learning Methods: Online training	ur riours	10
Dugge	Basics of speaker identification		
IV	Introduction: Forensic Speaker Identification, Forensic Phonetics-Forensic challenges in Voice recognition. Forensic Phonetic Parameters: Acoustic vs. Auditory Parameters, Linguistic vs. Non-Linguistic Parameters. Forensic Significance: Linguistic Analysis-Requirements on forensic-phonetic parameters. The human vocal tract and the production and description of speech parameters: Vocal tract structures. Forensic Significance – Vocal cord activity, Nasals and Nasalization. Phonetic Aspects of Speech: Articulators – Active/Passive, Phonemes –Segmental and Supra segmental, Prosodic features- Stress, Intonation, Duration, Syllables, Nasalization, Accent features.	1	4
	Instruction	al Hours	18
Sugges	ted Learning Methods: Video lectures		
V	Forensic speaker identification  Characterizing Forensic Speaker Identification: Speaker Recognition – Speaker Identification and Verification, Forensic Significance. Components of Speaker Recognition. Approaches to Speaker Recognition System of Auditory Analysis, Spectrographic approach or Voice Print Identification. Automatic Approach: Gaussian Mixture Models, Long Term Averaging, Vector Quantization, Hidden Markov Models, Neural Networks. Expressing Results in Forensic Speaker Recognition—Likelihood Ratio, Objective/Subjective Methods. Concept of Test and Error in Speaker Identification. Admissibility of Voice evidence in Court.		5
	Instruction	al Hours	18
Sugges	ted Learning Methods: Power point presentation		
		tal Hours	90
Text B	1. Notes compiled by the department of Forens Arts and Science College, Coimbatore.	ic Science,	Nehru
Refere	5. Philip Rose; Forensic Speaker Identification, Forensic Science Series, London (2002) 6. Bengold & Nelson Moryson; Speech and Aug John Wiley & Sons, USA (1999) 7. Oscar Tosi; Voice Identification-Theory of L University Park Press, Baltimore (1979)	lio signal p	rocessing,

	Tools for Assessment (25 Marks)													
CIA I CIA II CIA III						A	ssign	gnment Seminar		nar	Quiz	Total		
5			5		6		3	}		3		3	2	5
Mapping														
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	7 P	<b>PO8</b>	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	Н	Н	Н	Н	M	L	L		-	-	Н	Н	M	-
CO2	Н	Н	Н	Н	M	L	M		-	ı	Н	Н	M	-
CO3	Н	Н	Н	Н	M	L	M		-	ı	Н	Н	M	-
CO4	Н	Н	Н	Н	M	L	M		-	-	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									Veri	fied by	Chairn	nan	
Mr. Akhi	il Benn	y					ľ	Mr. Akhil Benny						

Cou	rse Code		Title					
23U3	FRE606	Discipline Specific Ele	ctive Paper : II (A) - Jurisprudence	- Cri	minology	and		
Seme	ster : VI	Credits: 4	CIA: 25 Marks	I	ESE : 75 N	<b>Iarks</b>		
Course	Objective	Gain a deep understanding causes of criminal behavior strategies for crime prevent	, evaluate legal syste					
Course	Category	Skill Development						
Develop	ment Needs	Global						
Course	Description	Explores the science of cr Examine the causes of crim their societal implications. and legal studies.	inal behavior, the lega	al sys	tem's opera	ations, and		
Course	Outcomes	ds		ssment thods				
CO 1	Jurispruden		Lecture/Demonstrat	ion	Assi	gnment		
CO 2	Understand	the theories of crime.	Lecture/Demonstrat	ion	Sei	minar		
CO 3	Acquire kn and Justice	owledge about criminal law	Lecture/ tutorial		Ç	<b>Q</b> uiz		
CO 4	Learn the C	re	Assi	gnment				
CO 5	Understand Philosophy	Jurisprudence and Legal	Lecture/ Case studie	es	Case	e study		
Offered	by Forens	ic Science						
Course	Content		Instru	ction	al Hours	/ Week : 6		
Unit		Description			Text Book	Chapter s		
I	Overview of Historical	n to Criminology and Jurisp Criminology and Jurisprude development of criminolog crime causation. Legal system	ence as fields of stud y and jurisprudence as and types of law.	e.	1	1		
- C	17 .	7.6.1.1.D		ction	al Hours	18		
Suggest		Methods: Powerpoint pres	entation					
II	Theories of Crime Classical, Positivist, and Contemporary theories of crime. Understanding criminal behaviour. Social, psychological, and biological factors in crime							
				ction	al Hours	18		
Suggest		Methods: Library extra real wand Justice	ading					
III	Introduction	to criminal law principles fenses and culpability. Crim			1	3		
	<u>,</u>		Instru	ction	al Hours	18		
Suggest	ed Learning	<b>Methods: Online training</b>						

	Crimii	กดใกฐเ	ral Cor	ncents									
						viole	nt crir	ne, whi	tecollar	crime.			
IV								oles. Pu					4
	sentenc			_									
L									Inst	ruction	nal Hour	rs	18
Suggest	ted Lea	rning	Metho	ds: Vi	deo le	ctures							
	Jurisp	ruden	ce and	Legal	Philo	sophy							
$\mathbf{v}$	School	s of jui	risprud	ence: Ì	Natura!	l law, I	_egal p	ositivis	m, etc.	Human	1		5
V	rights	and	legal	ethics.	Criti	ical le	egal	studies	and fo	eminist	1		3
	jurisprı	udence	. The r	elatior	iship b	etweei	n law	and mor	ality				
									Inst	ruction	nal Hour	S	18
Suggest	ted Lea	rning	Metho	ds: Ca	ase stu	dies							
										To	tal Hour	'S	90
Text Bo	s a lea		2.	Note	es Con	npiled	by the	e depart	ment of	Forens	sic Scienc	ce, Neb	ıru
Text Do	JOKS			Arts	and S	cience	Colle	ge Coin	nbatore				
			5.	Sieg	el, L.	J., & N	<b>1cCor</b>	mick, C	. (2021)	). Crim	inology.	Cengag	e
				_	rning.				` ′			0 0	
			6	Sch	malleg	er F (	2021	Crimir	al Incti	ice. A F	Rrief Intro	aductio	n
	6. Schmalleger, F. (2021). Criminal Justice: A Brief Introduction. Pearson.												
			_			<b>D</b> 0	- 1		0.5			6.51	
			7.					•	,		inology o		
					_				rstandı	ng of th	e Crime	Problei	n.
Referer	ice Boo	ks		OXI	ora Un	iversit	y Pres	SS.					
			8.	Vag	o, S. (2	2018).	Law a	and Soci	ety: An	Introd	uction. R	outledg	ge.
			9.	9. Bartol, C. R., & Bartol, A. M. (2021). Criminal Behavior: A									
			,					ch. Pears		0111111		101111	
			1/	•	_	-	-			(2011	). The Ox	rford	
			11		_			ogy. Ox				Moru	
										•			
			1	I. Bix,	B. (20	)18). Ji	urispr	udence:	Theory	and Co	ontext. R	outledg	e.
			•	Too	ols for	Assess	sment	t (25 Ma	arks)				
CIA	I	CI	A II	C	A III	A	ssign	ment	Semi	nar	Quiz	To	tal
5		,	5		6		3		3		3	2	5
				•		Ma	pping			•		•	
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 H L - M					-	-	Н	Н	M	-
CO4	Н	Н	Н	H H L H H M -									
CO5	Н	M	L	L	M	-	-	-	-	M	Н	M	-
H-High	; M-Me	dium;	L-Low										
		Course	e desig	ned b	V				Verif	ied hv	Chairm	an	
Mn A1-1-			8					A 111					
Mr. Akh	ıı benn	У					l N	Mr. Akh	ıı Benn	y			

Cou	rse Code			Title						
23U3	FRE607		Discipline Specific Elec	ctive Paper : III (A) - I	Forensic Fin	ance				
Semes	ster : VI		Credits: 4	CIA: 25 Marks	ESE: 75 l					
Course	Objective		Learn to identify analyse of taken place	and provide evidence th	hat financial	fraud has				
Course	Category		Employability							
Develop	ment Need	S	Global							
Course	Description	ı	Financial forensics is a fie with financial auditing skill from within or outside of an	ls to identify criminal fi	nancial activ	ity coming				
Course	Outcomes			<b>Teaching Methods</b>		essment ethods				
CO 1	Acquire k		wledge about the concept of ance	Lecture/Demonstration	Ass	ignment				
CO 2	To learn Technique		arious Financial Analysis	Lecture/Demonstration	Se	minar				
CO 3	Acquire s Fraud	ski	(	Quiz						
CO 4	Know a techniques		ut various investigative nd tools	Assi	gnment					
CO 5	Learn the legal fram	Lecture/ Case studies	Cas	se study						
Offered	by Foren	si	c Science		•					
Course	Content			Instructi	onal Hours	/ Week : 6				
Unit			Description		Text Book	Chapter s				
I	Definition of Finance, Robusiness M Customer 1	of lole Io Ba	and operation analysis Forensic Finance, History an of Forensic Finance in Inves del and Strategy, Industry se and Revenue Streams, G n Resources and Managemen	tigations and Litigation and Market Analysis, Operations and Supply at	1	1				
G.		_			onal Hours	18				
Suggest		_	Methods: Powerpoint pres	entation						
II	Financial Analysis Techniques Financial Statement Analysis, Ratio Analysis, Cash Flow Analysis, Projections and Forecasts, Valuation Methods, key performance indicators									
1					onal Hours	18				
Suggest		_	Methods: Library extra rea	ading						
ш	Types of F	ina	<b>cion and Prevention</b> Ancial Fraud, Red Flags and Chniques, Fraud Prevention S		1	3				
				Č	onal Hours	18				
Suggest	ed Learnin	g I	Methods: Online training							

	Investi	igative	Techi	าเกมอร	T hae	ools								
IV		_		-			nalvci	s, Digita	ıl Foren	sics	1		4	
1,								it Softwa		SICS	1		•	
	Dutu IV	5	una i n	iary 515,	, case	TVIUIIUE	,ciiici	it Boitwi		ruction	al Hour	'S	18	
Suggest	ed Lea	rning 1	Metho	ds: Vi	deo le	ctures						~		
	Profes						ework	ζ						
					_			s, Conf	idential	ity and				
<b>▼</b> 7		Protec		Conflict of Interest and Independence										
V	Comm		,	and Transparency. Laws and Regulations										
	Govern	ning Fi	nancia	cial Crimes in India, Investigation and Litigation										
	Process	s in Inc	lia, Ex	n, Expert Witness Testimony and Reports in India										
				Instructional Hours 18										
Suggest	ed Lea	rning 1	Metho	thods: Case studies										
										To	tal Hour	S	90	
	_		3	Note	es Con	nniled	by the	e depart	ment of	Forens	ic Scienc	ce. Neb	ırıı	
Text Bo	oks			3. Notes Compiled by the department of Forensic Science, Nehru Arts and Science College Coimbatore										
			1′	12. Forensic Accounting and Fraud Examination by William S.										
				Hopwood, Jay J. Leiner, and George R. Young										
			1.	13. Financial Investigation and Forensic Accounting, Third Edition										
						•	_	d Richa			δ,		<i>J</i>	
			14		_		_			-	for Fore	nsic		
Referen	ce Boo	ks				•		ons by I		-				
			1:			-	_	•		_	e Albrecl	nt, Cha	d O.	
									•		mbelman			
			10	6. Prin	ciples	of Frau	ıd Exa	aminatio	n, Fou	th Edit	ion by Jo	seph T		
				Wel	ls						•	-		
				Tor	de for	Δ σσρσο	ment	(25 Ma	arke)					
CIA	T	CI	A II		A III			ment	Semi	nor	Quiz	To	tal	
5			5		6	П	3		3	ıaı	3	2		
		1	-	1	•	Mai	pping				<u>~</u>			
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7		PSO1	PSO2	PSO3	PSO4	PSO5	
CO1	Н	M	L	L	Н	-	-	-	-	H	Н	L	-	
CO2	Н	Н	M					-	-	Н	Н	M	-	
CO3	Н	Н					M	-	-	Н	Н	M	-	
CO4	Н	Н	Н	Н	L	-	ı	-	-	Н	Н	M	-	
CO5	Н	M	L	L	M	-	-	-	-	M	Н	M	-	
H-High	; M-Me	dium; l	L-Low											
		Course	e desig	ned by	У				Ver	ified by	y Chairr	nan		
Mr. Akhil Benny							N	Mr. Akhil Benny						

Cou	rse Code		Title				
	FRE608	<b>Discipline Specific Elective I</b>	-	and Wirel	ess Device		
			Forensics				
Seme	ster : VI	Credits: 4	CIA: 25 Marks	ESE: 75 N			
Course	Objective	Master the techniques and analyze digital evidence from for roles in law enforcement	om mobile and wireless	devices, pre	paring you		
Course	Category	Skill Development					
Develop	pment Need	s Global					
Course	Description	This course covers the fundevices, such as smartphor analyze, and report digital e	nes and tablets. Students	s will learn	to acquire,		
Course	Outcomes		<b>Teaching Methods</b>		essment ethods		
CO 1	Technolog		Lecture/Demonstration	ı Assi	gnment		
CO 2	Understan Devices S	ecurity	Lecture/Demonstration		minar		
CO 3		verview of Mobile Forensics	Lecture/ tutorial		Quiz		
CO 4		d Android Forensics	Lecture/Video lecture		gnment		
CO 5		Forensics	Lecture/ Case studies	Cas	e study		
	l by Foren	sic Science					
Course	Content		Instruction	onal Hours	/ Week : 6		
Unit		Description		Text Book	Chapters		
I	Asynchrond Protocol (Mobile Photocol Access (TE Global System of Module (SI Bluetooth a	on to Mobile and Wireless Te ous Transfer Mode (ATM), WAP). Cellular technologies one System (AMPS), Imode, To MA), Code Division Multipletem for Mobile Communicated relative strengths. Functions M), International Mobile Equinal Mobile Payment Gateways ne operating systems – Android	Wireless Application including Advanced Time Division Multiple e Access (CDMA) and ions (GSM) including of Subscriber Identity pment Identity (IMEI), s. Understanding of the d, iOS, Windows.	1	1		
C	4.JT	- M-4l J. D. D	onal Hours	18			
Sugges		g Methods: Power point pres	sentation				
п	Mobile and Wireless Devices Security  Security issues in Bluetooth, Mobile phones including SIM cloning and other Bluetooth vulnerabilities. Attacks - Denial of Service (DOS), Packet Spoofing & Masquerading, Eavesdropping, VOIP Spam and Vishing (VOIP Phishing), Toll frauds, Phone Phreaking, Call tampering, Wireless Hack Walkthrough and Manin-the-Middle-attacks. Overview of WEP attack. Attacks on WEP, WPA and WPA-2 Encryption, fake hotspots. Wireless Public Key Infrastructure. Securing WLAN, WEP Decryption script, Understanding of SQLite Databases. Voice, SMS and Identification Data Interception in GSM. SMS						

					Instructional Hours 18											
Sugges	ted Learning Methods: Library extra 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.															
C	Instructional Hours 18															
Sugges	gested Learning Methods: Online training Android Forensics															
IV	Android imaging data extr	roid Forensics  roid Forensics — Procedures for handling android device, ing android USB mass storage devices, Logical and physical extraction techniques. Data recovery techniques. Forensic tools CDR and IPDR analysis.														
	I		Instructional Hours													
Sugges	sted Learr	ning Metho	ds: Video lectu		s   18											
V	iOS For iOS For iPhones, Extractin	iOS Forensics iOS Forensics – File Systems, iOS architecture, Data stored in iPhones, Crosscontamination and Syncing, Data extraction - 1 Extracting Image Geo-Tags, Data Analysis and Recovery - SQLite databases, Forensic Tools used.														
	database	s, i orensie	room asca.		Instructio	nal Hour	s 18									
Sugges	sted Learr	ning Method	ds: Case studi	PS	Ilisti uctio	nai Hour	5   10									
~	2002	<b>g</b> 1/1 <b>//</b>			To	otal Hour	s 90									
Text B	ooks		Arts and Scie	iled by the departmence College Coin	nbatore											
		17		"Mobile Forensic llection, Analysis,	_		to									
		18	_	w. "Android Fore rity for Google Ar	_	gation, An	alysis, and									
		19	19. Morrissey, Sean. "iOS Forensic Analysis: for iPhone, iPad, and iPod touch."													
Refere	ence Books	s 20	20. Davidoff, Sherri, and Jonathan Ham. "Network Forensics: Tracking Hackers through Cyberspace."													
		21	_	il, Mike Stanfield bile: Security Secr			eking									
		22		rard. "Digital For de to Deploying I		-										
			Response."													
			-	ssessment (25 Ma	arks)											
CI	AI	CIA II	-	ssessment (25 Ma	arks) Seminar	Quiz	Total									

	Mapping												
CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	Н	M	L	L	Н	ı	ı	ı	ı	Н	Н	L	-
CO2	Н	Н	M	Н	L	1	M	-	-	Н	Н	M	-
CO3	Н	Н	M	Н	L	-	M	-	-	Н	Н	M	-
CO4	Н	Н	Н	Н	L	-	ı	ı	-	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	irse Code			Title								
23U3	FRE609											
Seme	ster : VI	Credits: 4		CIA : 25 Marks	ESE: 75 N	<b>Aarks</b>						
	Objective Category			l interrogation techniquigative skills, and ensure								
		1										
	pment Need  Description	Learn the skills and interrogations. This c	course	tegies for conducting covers communication, enforcement and securi	rapport-bui	lding, and						
Course	Outcomes			<b>Teaching Methods</b>		ssment thods						
CO 1	Understan Basis of th	nd the Psychophysiolo he Forensic Assessment	gical	Lecture/Demonstration	Assi	gnment						
CO 2		Gain an insight into the preparation for the Interview/Interrogation  Lecture/Demonstration  Seminar										
CO 3		Interrogation Techniques  Lecture/ tutorial  Quiz										
CO 4	Know question formulation and Cognitive Interviewing  Lecture/Video lecture  Assignment											
CO 5	Aggira knowledge on Specialized											
Offered	d by Foren	nsic Science										
Course	Content			Instruction	nal Hours	/ Week : 6						
Unit		Descripti	on		Text Book	Chapter s						
I	Introduction Understand Polygraph I	siological Basis of the Fo n to Psychophysiology in ling the Physiology of Str Examination and its Appl nsiderations in Psychophy	Interress Re lication	ogation esponses n in Interrogations	1	1						
		<u> </u>	, <u></u>	Č	nal Hours	18						
Sugges	ted Learnin	g Methods: Powerpoin	t prese	entation								
II	The Impor	n for the Interview/Interror rtance of PreInterview Strategy Gathering Ba e Legal and Ethical Co.	Prepar ckgrou	ration Developing an and Information and	1	2						
				Instructio	nal Hours	18						
Sugges		g Methods: Library ext	ra rea	ding								
III	Morgan Int Analysis Pr Scoring of	Interrogation Techniques terview Theme Technique ojective Analysis of Unw f the Forensic Assessment of the Forensic Assessment	itting ent In	Verbal Cues Traditional aterview (FAINT) The	1	3						
				Instructio	nal Hours	18						
Sugges	ted Learnin	g Methods: Online train	ning									

	Questic	on For	mulatio	on and	Cogni	tive In	tervies	ving						
	-				_			_	Com	parison				
	-								ncing M		1		4	
			-			_	_		sideration	-	1		7	
	Questio					-		n Con	siacian	7113 111				
	Questi	Jillig t	ina co	SIIILIVC	inter	VIC WIII	5		Inst	ruction	ı al Haur	's	18	
Suggest	Instructional Hours 18 Suggested Learning Methods: Video lectures													
				rogation Scenarios tnesses and Victims Hypnosis in Interrogation										
				nterviewing Passenger Screening with Verbal and										
V	Nonve													
				Aggressive Behavior and Dealing with Angry										
	People.		and something with ringry											
	1 copie.	•							Inst	ruction	al Hour	·c	18	
Suggest	ed Lea	rning	ning Methods: Case studies											
Buggest	ca Bea	· · · · · · · · · · · · · · · · · · ·	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	usi Ci	ise stu	dies				Tot	al Hour	rs	90	
				NT 4		'1 1	1 41	1 .	4 6					
Text Bo	oks		5. Notes Compiled by the department of Forensic Science, Nehru Arts and Science College Coimbatore											
							`			0.7		(2010)		
			2.	23. Inbau, F. E., Reid, J. E., Buckley, J. P., & Jayne, B. C. (2013).  Essentials of the Reid Technique: Criminal Interrogation and										
			Essentials of the Reid Technique: Criminal Interrogation and											
			Confessions. Jones & Bartlett Learning. 24. Inbau, F. E., Reid, J. E., Buckley, J. P., & Jayne, B. C. (2011).											
			2						-	-			).	
						nterrog	gation	and Co	nfession	s. Jones	& Bart	lett		
Referen	ce Boo	ks			ning.		_							
11010101	<b>CC D G G</b>		2:							riewing	and Inte	rrogatio	on:	
			_			•		. CRC				. ~		
			20			•				). The I	nvestiga	tor's G	uide	
			2				_	Spring		(2002)	_			
			2			,			*	` ,	Practica	I Aspec	cts of	
									RC Pres	SS.				
CTA	T	CI	A TT					(25 Ma	Semii		Quiz	Та	tal	
CIA 5	. 1		<u>A II </u>	CI	<u>A III</u> 6	A	ssigni 3	пепі	3	<b>таг</b>	Quiz 3			
3		•	<u> </u>	6   3   3   25										
COLDO	DO1	DO2	DO2											
CO\PO	PO1 H	PO2 M	PO3	L L	H	PO6	ru/	rus	F501	PSO2 H	H H	PSU4	r505	
CO2	Н	H	M	H	L	-	M	<u> </u>	_	H	Н	M	<u> </u>	
CO2	H	H	M	H	L	-	M	-	-	H	H	M	<del>  </del>	
CO4	Н	H	Н	Н	L		- 141	<del>-</del>		H	Н	M		
CO5	Н	M	L	L	M	_	_	_	_	M	Н	M	_	
H-High;	1					<u> </u>	<u> </u>	_1	<u> </u>			1 111	<u> </u>	
		Course	e desig	ned by	V				Verifi	ed by C	hairma	n		
N.C. A.1.1			ucsig	Hed D	,		N	ſr Akh	il Benny					
Mr. Akh	ııı Beni	ny					14			,				

Course	Code				Title						
23U4F	RS604		Skill Based Paper IV - Outdoor Training								
Semeste	er : VI		Credits: 3	CIA	: 30 Marks	ESE: 45 Marks					
Course	Objecti	ve	To make the students compo	eten	t for physical tests						
Course	Categor	<b>. y</b>	Skill Development								
Develop	ment N	eeds	National								
Course	Descrip	narks. This course id ngth in this regard.									
Course Outcomes					<b>Teaching Methods</b>	Assessment Methods					
CO 1	Do ph healthy	-	exercises which keep the	em	Outdoor Activities	Physical test					
CO 2	Do bas	ic dril	l movements		Outdoor Activities	Physical test					
CO 3	Play va		games which require physic	cal	Outdoor Activities	Physical test					
CO 4	Follow with tea		mands properly and coordinates.	ate	Outdoor Activities	Physical test					
CO 5	Showed tactics.	ase lif	esaving skills and self defer	nse	Outdoor Activities	Physical test					
Offered	by Fo	rensi	e 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.

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   Activity   Total									
4	4	4	7	7	4	30				

	ESE (45Marks)									
Activity - I	Activity - II Activity - III Activity - IV									
15	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

H-High; M-Medium; L-Low

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

ehru Arts and Science College (Autonomous) Coimbatore, Tamil Nadu-641105.

