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# Department of Computer Science B.Sc. Computer Science (Cloud Computing and Cyber Security)

S.No	Course Code	Course Name	Course Outcomes
		1	SEMESTER- I
1.	23UTAG11	Podhu Tamil / Hindi – I	CO1[K1]: பாரதியார் காலந்தொட்டு தற்காலக் கவிதைகள் வரை கவிதை இலக்கியம் அறிமுகப்படுத்தப்படுவதால் அவற்றை அடையாளம் காண்பர்.  CO2[K2]: கவிதை வரலாற்றினை புரிந்து கொண்டு பிழை இல்லாமல் எழுதும் திறன் பெறுவர்.  CO3[K3]: இக்கால இலக்கிய வகைகள் மற்றும் இலக்கணம் கற்பதன் மூலம் அவற்றை தம் வாழ்நிலையோடு பொருத்திப் பார்ப்பர்.  CO4[K4]: மொழியறிவோடு சிந்தனைத்திறன் பெற்று இலக்கியம் மற்றும் இலக்கணங்களைப் பகுப்பாய்வர்.  CO5[K5]: உலகளாவிய இலக்கியங்களைக் கற்று மதிப்பீடு செய்வர்.

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			CO1[K1]: identify the use of the language skills i.e. Reading, Listening,
			Speaking and Writing.
			CO2[K2]: demonstrate communicative skills by articulating simple
			dialogues and instructions.
2.	23UENL11	General English – I	CO3[K3]: apply knowledge of word power and grammar in framing
			correctsentences.
			CO4[K4]: analyze prose, poetry and short stories to develop language
			skills through literature.
			CO5[K5]: assess the linguistic competence that enables them, in the
		Core Course - I: Python	future topresent their views in various social academic and CO1[K1]: describe the concepts of python
			CO2[K2]: discuss arrays, control statements, Lists and file handling of
	2211000011		python
3.	23UCYC11	Programming	<b>CO3[K3]:</b> apply the concept of python to implement simple problem
		110g.u	CO4[K4]: analyze arrays, control statements, lists, tuples, dictionary and
			functions
			CO5[K6]: develop a solution for a simple program using nython concents CO1[K2]: demonstrate the syntax and semantics of python language
			<b>CO2[K3]:</b> find out the problem and solve using python programming
		Core Course - II:	techniques.
4.	23UCYC1P	23UCYC1P Practical: Python Programming	CO3[K4]: discover suitable programming constructs for problem solving.
			<b>CO4[K5]:</b> evaluate various concepts of python language to solve the
			problem in anefficient way.
			COSIK61. develon a nython program for a given problem

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		<b>CO1[K1]:</b> define the discrete objects in the context of mathematical
		structures forcomputer science and applications
		CO2[K2]: recognize the properties of set operations, relations and
	Elective Course	functions, matrix operations, logic statements, various graphs
2211CVA11	Generic / Discipline	CO3[K3]: compute various operations on sets, relations, functions,
230C1A11	Specific -I: Discrete	matrices, graphs and truth values of logic statements
	Mathematics-I	CO4[K4]: classify the types of relations, functions, matrices, logic
		statements andgraphs
		CO5[K5]: assess the equivalency of relations, invertibility of functions,
		tautological implications and equivalence of logic formulae, the
		CO1[K1]: describe various concepts of C
23UCYS11		CO2[K2]: illustrate the statements, arrays, functions, structures and
	Skill Enhancement	pointers
	Course - I: Foundation -	<b>CO3[K3]:</b> apply simple solutions using appropriate programming control
	Programming in C	statements of C
		CO4[K4]: analyze the working of control statements, arrays, functions
		and pointers
		COCIVEL shoose the appropriate way for providing a solution using C
23IICYN11	Skill Enhancement	CO1[K1]: describe the basic concepts of internet
200011111		<b>CO2[K2]:</b> explain the various features of concept of internet
	•	<b>CO3[K3]:</b> write about internet, web, searching and creating web pages
		<b>CO4[K4]:</b> analyze the applications of internet
	Internet	CO5[K5]: assess the concepts of internet
	23UCYS11 23UCYN11	23UCYS11  Skill Enhancement Course – I: Foundation – Programming in C  Skill Enhancement Course – II Non Major Elective Course: Understanding The

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SEMESTER- II			
8.	23UTAG21	Podhu Tamil / Hindi – II	CO1[K1]: பக்தி இலக்கியங்களைக் கற்பதன் மூலம் பக்தி நெறியினையும், சமய நல்லிணக்கத்தையும் அறிவர்.  CO2[K2]: சமயப்பாடல்கள் மற்றும் சிற்றிலக்கியங்களின் அமைப்பினையும், நோக்கத்தினையும் தெளிவாகக் கூறுவர்.  CO3[K3]: தமிழில் உள்ள பக்தி இலக்கியம் மற்றும் சிற்றிலக்கியங்களின்
		,	பொருண்மைகளுடன் இலக்கணத் தெளிவையும் அடைவர்.  CO4[K4]: தமிழ்ச் சமூகப் பண்பாட்டு வரலாற்றினை இலக்கியங்கள் வாயிலாக அறிந்து கொண்டு பாகுபடுத்துவர்.  CO5[K5]: போட்டித் தேர்வுகளில் வெற்றி பெறுவதற்குத் தமிழ்ப் பாடத்தினைப்
9.	23UENL21	General English – II	<ul> <li>CO1 [K1]: identify appropriate literary terms such as diction, tone, imagery, figures of speech, motif etc.,</li> <li>CO2 [K2]: define verbs, tenses and concord and its role in speaking and writingeffectively.</li> <li>CO3 [K3]: apply the knowledge of language competency at workplace and day-to-day life</li> <li>CO4 [K4]: analyze prose, poetry and short stories to develop language skillsthrough literature.</li> </ul>
10.	23UCYC21	Core Course - III: Data Structures & Algorithms	CO1[K1]: describe the concepts of data structures CO2[K2]: explain the working of data structures CO3[K3]: apply the required data structure to solve a problem CO4[K4]: analyze the working of data structures CO5[K5]: choose appropriate data structure to solve a problem.

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11.	23UCYC2P	Core Course - IV: Practical: Data Structures & Algorithms	CO1[K2]: demonstrate the concept of data structures CO2[K3]: apply required data structure to solve a problem CO3[K4]: analyze the appropriate data structure to solve a problem CO4[K5]: develop a program involving graphs, trees and heaps. CO5[K6]: construct programs with required data structure algorithm
12.	23UCYA21	Elective Course Generic/ Discipline Specific -II: Discrete Mathematics - II	CO1[K1]: state the basic terminologies of linear programming problem, transportation problem, assignment problem, curve fitting, numerical solutions of polynomial equations  CO2[K2]: explain the methods of solving linear programming problem, transportation problem,assignment problem, fitting curve for given data, solving polynomial equations numerically  CO3[K3]: find optimal solution of linear programming problem, transportation problem, assignment problem, numerical solution of polynomial equations and a curve that best fit the given data  CO4[K4]: examine the optimality of solutions of linear programming problem, transportation problem, assignment problem and the empirical relationof given data

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			<b>CO1[K2]:</b> demonstrate the options in word, spreadsheet and powerpoint
			CO2[K3]: apply the various options in office package
		Skill Enhancement	CO3[K4]: analyze appropriate tools and options to create a neat
13.	23UCYS2P	Course - III: Office	document, worksheet and presentation
		Automation	CO4[K5]: choose the required tools in word, spreadsheet and
			powerpoint toproduce the required output
			CO5[K6]: design a simple document, presentation slide and do
			CO1[K1]: describe the basic functions, validation techniques, pivot
			tables, data time functions and charts
		Skill Enhancement Course - IV: Non Major Elective Course : Advanced Excel	CO2[K2]: explain the steps for validation, creating pivot tables, charts
			and syntax offormulas, data time functions
14.	23UCYN21		CO3[K3]: apply required steps for creating validation, pivot tables,
			charts
			<b>CO4[K4]:</b> analyze different chart types, date time functions and various
			validationtechniques
			CO5[K6]: create an Excel sheet with tables, charts, date time functions.
			SEMESTER- III
			CO1[K1]: இலக்கியங்களின் வழி வாழ்வியல் சிந்தனைகள் பற்றி அறிவர்.
			CO2[K2]: காப்பிய சமயக் கருத்துக்களையும் நோக்கங்களையும் அடையாளம்
15	23UTAG31	Dodhu Tamil/Hind: III	காண்பா்.
15.	2301AG31	Podhu Tamil/Hindi- III	CO3[K3]: தமிழ் புதினங்களின் வழி சமகாலப் படைப்புகளின் வாழ்க்கை
			முறையின் ஆற்றலைப் பெறுவர்.
			CO4[K4]: காப்பியங்கள் மற்றும் புதினங்களின் வரலாற்றினைப் பாகுபடுத்துவர்.
			COFINEL CONTINUE CONT

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18.	23UCYC3P	Core Course - VI: Practical: Database Management Systems	CO5[K6]: develop database schema and perform SQL and PL/SQL  CO1[K2]: demonstrate the commands required to create, alter and handle tables  CO2[K3]: apply various SQL, PL/SQL constructs for a database system  CO3[K4]: analyze a given database problem and to design a database schema  CO4[K5]: develop database system solutions using SQL and PL/SQL
17.	23UCYC31	Core Course - V: Database Management Systems	CO1[K1]: describe the concepts of database systems CO2[K2]: explain the basics of database, design concepts, normalization,
16.	23UENL31	General English – III	<ul> <li>CO1 [K1]: relate and state ideas by reading simple poems and scenes From Shakespearean plays.</li> <li>CO2 [K2]: demonstrate effective speaking skills by listening to speeches of famous personalities and express it in day-to-day life.</li> <li>CO3 [K3]: apply the knowledge of language competency in writing letters, emailsand display social etiquettes in everyday life.</li> <li>CO4 [K4]: analyse data interpretation, meeting etiquettes, organizing And participating in a meeting.</li> <li>CO5 [K5]: develop language skills through literature and assess the</li> </ul>

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			CO1[K1]: describe the basic concepts in numerical analysis
			CO2[K2]: explain the methods of solving algebraic, transcendental,
			differential equations
			CO3[K3]: apply numerical methods to obtain approximate solutions of
		Elective Course	algebraic, transcendental and differential equations, numerical
19.	23UCYA31	Generic/ Discipline	differentiation andintegration of given functions
17.	250C1A51	Specific -III: Numerical	<b>CO4[K4]</b> : examine the numerical solution of algebraic, transcendental
		Methods	differential equations, numerical differentiation and integration
			of functions and interpolating values of the given data
			CO5[K5]: determine the appropriate method of solving algebraic,
			transcendental differential equations numerically and
			integration of functions and findingmissing values of a given
	23UCYS31	Skill Enhancement	CO1[K1]: describe various types of software testing
		Course- V:	CO2[K2]: explain the concepts of software testing
20.		(Entrepreneurial	CO3[K3]: write the required steps to perform various testing
		<b>Skill)</b> - Software	CO4[K4]: analyze different testing methods
		Testing	CO5[K5]: assess the appropriate testing method for a given scenario
			CO1[K2]: demonstrate various HTML tags
			CO2[K3]: apply the required HTML tags and attributes to design a
		Skill Enhancement	website
21.	23UCYS3P	Course - VI: Web	CO3[K4]: analyze the appropriate HTML tags and CSS to create a neat
		Designing	website.
			CO4[K5]:choose the required tags, CSS and Ajax technology to create a
			website.
		<u> </u>	COELTACE I I I I I I I I I I I I I I I I I I I

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	SEMESTER- IV			
22.	23UTAG41	Podhu Tamil / Hindi – IV	CO1[K1]: சங்க இலக்கியத்தில் காணப்பெறும் அறக்கருத்துக்களை அறிந்து கொள்வர்.  CO2[K2]: சங்க இலக்கியங்கள் மற்றும் நாடக இலக்கியம் வாயிலாக மக்களின் வாழ்க்கை முறையினை எடுத்துரைப்பர்.  CO3[K3]: நாடக இலக்கியம் மூலம் நடிப்பாற்றலையும், கலைத்தன்மையையும்,	
	230111411		படைப்பாற்றலையும் கற்பர். மேலும் மொழிபெயர்ப்பு ஆற்றலையும் பெறுவர்.  CO4[K4]: கலைச்சொற்களைக் கண்டறிந்து அவற்றோடு தொடர்புடைய சொல்லைப்பகுப்பர்.	
23.	23UENL41	General English – IV	CO1 [K1]: state ideas effectively and appropriately in real life situations.  CO2 [K2]: demonstrate speaking skills in appreciating literature.  CO3 [K3]: use grammar and pronunciation effectively and appropriately.  CO4 [K4]: examine the literary works to develop language skills.  CO5 [K6]: construct grammatically correct and meaning full sentences.	
24.	23UCYC41	Core Course - VII: Industry Module- Java Programming	CO1[K1]: describe the various concepts of Java programming CO2[K2]: explain the Java Programming paradigms in detail CO3[K3]: apply the required Java techniques to solve simple problem. CO4[K4]: analyze the concepts of Inheritance, Multithreading, Exception handling and Swings CO5[K5]: choose appropriate java constructs to solve a basic problem	

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			CO1[K2]: demonstrate the constructs of Java
		Come Common VIII	CO2[K3]: apply the required concepts of Java to solve a simple problem
25	2211CVC4D	Core Course - VIII:	CO3[K4]: analyze various control statements in java
25.	23UCYC4P	Practical: Java	<b>CO4[K5]:</b> examine the working Java statements, exception, threading and
		Programming	Swing controls
			CO5[K6]:create a simple java program
			CO1[K1]: define the basics of computer network architecture, OSI and
			TCP/IP reference models
	23UCYA41	Elective Course	CO2[K2]: explain the working and performance of telephone systems and
26.		Generic/ Discipline	satellite communications
20.		Specific -IV: Computer	CO3[K3]: state the concept of elementary data link protocols
		Networks	<b>CO4[K4]:</b> analyze the characteristics of routing and congestion control
			algorithms
			CO5[K5]: discuss about network security and various protocols such as
			CO1[K2]: demonstrate the PHP server side scripts
		Skill Enhancement	CO2[K3]: apply required PHP constructs to create a server side script
27.	2211CVC4D		CO3[K4]: examine the possible PHP constructs to solve a server side
	23UCYS4P	Course - VII: PHP	application
		Programming	CO4[K5]: choose PHP scripts to handle HTML forms
			CO5[K6]: develop dynamic web pages using PHP

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28.	23UCYS41	Skill Enhancement Course – VIII: Cyber Forensics	CO1[K1]: recall the concepts of cyber forensics CO2[K2]: explain the cyber forensics fundamentals CO3[K3]: apply the methods for data recovery, evidence collection and data seizure. CO4[K4]: analyze various computer forensic systems CO5[K5]: evaluate the different types of computer forensics technology	
29.	23UESR41	Environmental Studies	CO1[K1]: recognize the importance of environment and role of Individuals in its protection.  CO2[K2]: explain the key concepts of Ecosystem, biodiversity and climatic change  CO3[K3]: apply the right measures for the sustainable use of natural resources.  CO4[K4]: analyse the ethical, cross-cultural, and historical context of environmentalissues and the links between Human and natural Systems.  CO5[K5]: evaluate the impact of human action on the biological environment	
	SEMESTER- V			

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30.	23UCYC51	Core Course - IX: Machine Learning	CO1[K1]: appreciate the importance of visualization in the data analytics solution  CO2[K2]: apply structured thinking to unstructured problems  CO3[K3]: understand a very broad collection of machine learning algorithms and problems  CO4[K4]: learn algorithmic topics of machine learning and mathematically deep enough to introduce the required theory  CO5[K5]: develop an appreciation for what is involved in learning from
31.	23UCYC52	Core Course - X: Cloud Computing	CO1[K1]: describe the terminologies of Cloud computing. CO2[K2]: explain the services given by cloud computing. CO3[K3]: use the cloud in designing an application. CO4[K4]: examine the cloud application in benchmarking and tuning. CO5[K5]: evaluate the application of cloud in various fields tuning
32.	23UCYC5P	Core Course - XI: Practical: Cloud Computing	CO1[K2]: demonstrate the concept of Cloud computing. CO2[K3]: apply the services given by cloud computing. CO3[K4]: analyze to design and cloud application CO4[K5]: evaluate the cloud application. CO5[K6]: integrate the application of cloud in various fields.

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			CO1[K2]: express their views with ppt illustrations and critical support
22	23UCYJ51		CO2[K3]: organize the views and solutions as modules of the project
		Core Course - XII:	<b>CO3[K4]:</b> analyze the various possible solutions of the chosen problem
33.		Project with Viva-Voce	domain
		,	CO4[K5]: evaluate the adopted solution with various testing
			CO5[K6]: compile the development of solution as Documentation
			CO1[K1]: describe the fundamentals of OS, process life cycle, Scheduling
	23UCY051	Elective Courses	algorithms, Deadlock and Memory management
		Generic/ Discipline	CO2[K2]: summarize the process involving threads and semaphores
34.		Specific -V:	CO3[K3]: apply respective algorithms for handling deadlock
		Operating Systems	CO4[K4]: analyze various methods to schedule the process and
			managing memory
			CO5[K5]: determine memory management and organization

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35.	23UCY052	Elective Courses Generic/ Discipline Specific -V: .NET Programming	CO1[K1]: describe CLR, C# Fundamental, IDE, Data Reader, Adapter and dataBinding, XML Classes in .NET Framework  CO2[K2]: summarize Web Form Controls, File Stream Classes, File Mode & its Operations, Data Controls and its Operations in Web application creation  CO3[K3]: use Web Form and HTML controls in a Web Application, File streamoperations, Grid View control in Database operation.  CO4[K4]: examine various conditional and looping statements, authentication and Authorization properties in Web application creation  CO5[K5]: choose conditional and looping statements, HTML and Web form controlsand Validation controls in creating Web applications
36.	23UCY053	Elective Courses Generic/ Discipline Specific -VI: Big Data Analytics	CO1[K1]: recognize the evolution of big data. CO2[K2]: discuss the classification and clustering, CO3[K3]: apply and split data using classification and clustering. CO4[K4]: analyze data streams clustering CO5[K5]: evaluate the usage of NOSQL in Big Data

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			CO1[K1]: describe data, data science process, machine learning
			algorithms and Hadoop
		Elective Courses	CO2[K2]: explain data, data science process, machine learning
		Generic/ Discipline	algorithms and Hadoop
37.		Specific -VI:	CO3[K3]: write about data science process, machine learning algorithms
	23UCY054	Introduction to Data	And Hadoop
		Science	CO4[K4]: analyze different data science process and machine learning
			Algorithms
			CO5[K5]: justify appropriate data science process and machine learning
			CO1[K1]: identify the basic human values and ethics necessary for harmonious humanrelationship
	23UVED51		<b>CO2[K2]:</b> explain the significance of social values and religious tolerance
			to live in peace
38.		Value Education	CO3[K3]: articulate the life-changing principles of brotherhood,
			honesty, loyalty and community solidarity
			<b>CO4[K4]:</b> analyse emotional, social, spiritual attribute to acquire well
			balancedpersonality
			<b>CO5[K5]:</b> assess the importance of harmonious living in the multi-
			cultural pluralistic society

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39.	23UCYJ52	Internship/Industrial Training	CO1[K1]: identify different career paths within the industry and gain insights intopotential future roles.  CO2[K3]: apply theoretical concepts and academic knowledge to realworld situations and challenges encountered during the internship.  CO3[K4]: analyse problems, generate innovative solutions, and make informed decisions.  CO4[K5]: evaluate how to manage time effectively and prioritize tasks to meetdeadlines and deliver quality work.  CO5[K6]: create a portfolio of the work, projects, and achievements during the internship.
			CO1[K1]: describe the concepts of cyber security
40.	23UCYC61	Core Course – XIII: Cyber Security	CO2[K2]: explain the features of cyber security CO3[K3]: apply cyber security algorithms to solve simple real world problem CO4[K4]: differentiate various governing bodies of cyber laws CO5[K5]: evaluate various privacy policies for an organization

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41.	23UCYC62	Core Course - XIV: Cryptography & Network Security	CO1[K1]: describe process of the cryptographic algorithms CO2[K2]: illustrate encryption and decryption techniques CO3[K3]: apply security techniques to solve network security problem CO4[K4]: compare and apply different encryption and decryption techniques tosolve problems related to confidentiality and authentication CO5[K5]: evaluate the use of appropriate security techniques to solve network security problem
42.	23UCYC6P	Core Course - XV: PRACTICAL: Cryptography & Network Security	CO1[K2]: recall the basic concepts of Cryptography and Network security.  CO2[K3]: use Symmetric and Asymmetric key algorithms for cryptography andNetwork Security.  CO3[K4]: examine the various malware attacks and analyze various encryption and decryption techniques.  CO4[K5]: evaluate the uses of different encryption and decryption techniques.  CO5[K6]: develop simple digital signature scheme and cryptographic algorithms.

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43.	23UCY061	Elective Courses Generic/ Discipline Specific -VII: Information Security	CO1[K1]: describe information security, computer security, cryptographictechniques and program security CO2[K2]: describe information security, computer security, cryptographictechniques and program security CO3[K3]: write about information security, computer security, cryptographictechniques and program security CO4[K4]: analyze information security, computer security, cryptographic techniques CO5[K5]: assess information security, computer security, cryptographic techniques
44.	23UCY062	Elective Courses Generic/ Discipline Specific -VII: Human Computer Interaction	CO1[K1]: explain the fundamentals of Human Computer Interaction CO2[K2]: describe the Human Computer Interaction design and software processtechnologies CO3[K3]: write about design & software process, models and theories, mobile HCI CO4[K4]: analyze various Human Computer Interaction CO5[K5]: assess the various types of Web Interface Design

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45.	23UCY063	Elective Courses Generic/ Discipline Specific -VIII: Ethical Hacking	CO1[K1]: describe about fundamentals of security, hacking, malware threats andsession hijacking, web server hacking and attacks CO2[K2]: explain about security, hacking, malware threats and session hijacking, web server hacking and attacks CO3[K3]: write about hacking, malware threats and session hijacking, web serverhacking and attacks CO4[K4]: analyse security fundamentals, hijacking CO5[K5]: assess the various security threats, hacking, malware threats and session hijacking
46.	23UCY064	Elective Courses Generic/ Discipline Specific -VIII: Database Security	CO1[K1]: describe the various database security issues CO2[K2]: explain the concepts of database security CO3[K3]: write about security models, software security design, various models ofnew generation security design CO4[K4]: analyze security models, software security design, various models of newgeneration security design CO5[K5]: assess security models and software security design
47.	23UCYS6P	Skill Enhancement Course – IX: Professional Competency Skill: Enterprise Resource	CO1[K2]: show the basic concepts of ERP. CO2[K3]: apply different technologies used in ERP CO3[K4]: analyze different ERPs CO4[K5]: evaluate the benefits of ERP CO5[K6]: create a simple module in ERP.

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			CO1 [K1]: recognize the importance of community service through
			training andeducation
			CO2 [K2]: interpret ecological concerns, consumer rights, gender issues
			& legalprotection
48.	-	Extension	CO3 [K3]: develop team spirit, verbal/nonverbal communication and
			organizationalethics by participating in community service
			CO4 [K4]: examine the necessity of professional skills & community-
			orientedservices for a holistic development
			CO5 [K6]: create awareness on human rights, legal rights, First Aid,