

Gowrivakkam, Chennai-600073. Affiliated to University of Madras, ISO 9001:2015 Certified Institution Recognized by UGC under section 2(f) of UGC Act 1956

DEPARTMENT OF ELECTRONICS AND COMMUNICATION SCIENCE

2022-2023

COURSE OUTCOMES

YEAR/ SEM: I/ I – LA11A - TAMIL I

NO.	COURSE OUTCOME
C101.1	மரபு மற்றும் புதுக்கவிதைகளின் வாயிலாக அக்காலச் சூழல் மற்றும் சமூகச் சிக்கல்களை அறிகின்றனர்.
C101.2	நாட்டுப்புறப்பாடல்களின் வாயிலாக சமூகஅமைப்பு, வேளாண் செய்திகள் மற்றும் நீர்ப்பாசனம் போன்ற செய்திகளை அறிகின்றனர்.
C101.3	சிறுகதை மற்றும் உரைநடையின் வாயிலாகப் பல்வேறுகாலச் சூழல்களை அறிகின்றனர்.
C101.4	நாற்காலிக்காரர் நாடகத்தின் வாயிலாக தேர்தல் களம் பற்றி அறிகின்றனர்.
C101.5	மொழிப்பயிற்சியின் வாயிலாக வாக்கியங்கள், இருவழக்குகள், சொல்வகைகள் ஆகியவற்றை அறிகின்றனர்.

YEAR/ SEM: I/ I – LE11A - HINDI I

NO.	COURSE OUTCOME
C102.1	To Develop Communicating, Reading and Writing skills in Hindi.
C102.2	To Understand the vision of Premchand about the poor people
C102.3	To Learn the literary work on the basis of foundation laid by the Scholars.
C102.4	To Develop the approach of Hindi language
C102.5	To Understand the various forms of Functional Hindi according to its area of application.



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YEAR/ SEM: I/I – LZ11A – COMMUNICATIVE ENGLISH

NO.	COURSE OUTCOME
C103.1	To develop the knowledge of skillful learning
C103.2	Ability to write coherent paragraphs with wide range of vocabulary
C103.3	To teach the aspects of grammar
C103.4	To learn word power and vocabulary skills other aspects of Communicative skill
C103.5	Ability to participate in short group conversations. Ability to use collocations, fixed and semifixed expressions.

YEAR/ SEM: I/I – SG21A – BASIC CIRCUIT THEORY

NO.	COURSE OUTCOME
C104.1	To simplify and identify solutions to electrical circuit
C104.2	To implement the techniques to solve simple circuits using ohm's law, Kirchhoff's law and the properties of the elements
C104.3	To categorize series and parallel equivalents using Thevenin and Norton equivalents
C104.4	To recognize resistors capacitors, inductors, and transient circuit responses
C104.5	To solve numerical problems based on circuits

YEAR/ SEM: I/I – SG211 – MAIN PRACTICAL I

NO.	COURSE OUTCOME
C105.1	To study CRO, Multimeter and other Testing Device
C105.2	To develop the ability to apply circuit analysis to DC circuits.



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C105.3	To verify Ohm's Law using voltmeter and Ammeter
C105.4	To study Kirchhoff's law
C105.5	To construct Resistors in Series and Parallel

YEAR/ SEM: I/I – SM3AA – MATHEMATICS I

NO.	COURSE OUTCOME
C106.1	To apply tools and ideas in Mathematics for Solving Applied Problems
C106.2	To understand the importance of Matrices and its Applications
C106.3	To acquire ideas on Theory of Equations and its Applications
C106.4	To understand knowledge about the Expansions of Trigonometric Functions, Hyperbolic Functions
C106.5	To acquire basics of differentiation, its applications and the notation of curvature and polar coordinates.

YEAR/ SEM: I/I – NLT1C – BASIC TAMIL

NO.	COURSE OUTCOME
C107.1	தமிழ் எழுத்துகளைத் தெரிந்து கொள்ளுதல்.
C107.2	தமிழ் ஒலியன்களை உச்சரிக்கக்கற்றுக் கொள்ளுதல்.
C107.3	எழுத்துக்களைக் கொண்டு சொற்களை உருவாக்குதல்.
C107.4	அன்றாடப் பயன்பாட்டு சொற்களைப் பயிற்றுவித்தல்.
C107.5	தமிழ் மொழியை அறிந்து கொள்ளுதல்.

YEAR/ SEM: I/I – SM5AA – FUNCTIONAL MATHEMATICS I

NO.	COURSE OUTCOME



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C108.1	To apply Mathematical methodologies to understand and solve problems
C108.2	To understand brief description of learning objective
C108.3	To understand Quantitative Reasoning and improve mental alertness
C108.4	To increase arithmetic ability in problem solving and mathematical skills.
C108.5	To enable important measures for prospective business executive abilities.

YEAR/ SEM: I/I – PZ1SA – ENGLISH FOR PHYSICAL SCIENCE I

NO.	COURSE OUTCOME
C109.1	To listen and comprehend complex academic texts
C109.2	To read and infer the denotative and connotative meanings of technical texts
C109.3	To write definitions, descriptions, narrations and essays on various topics
C109.4	To speak fluently and accurately in formal and informal communicative contexts
C109.5	To express their opinions effectively in both oral and written medium of communication

YEAR/ SEM: I/II — LA12A – TAMIL II

NO.	COURSE OUTCOME
C110 .1	சங்க இலக்கியங்களின் வாயிலாக அக்காலமக்களின் வாழ்வியலை அறிகின்றனர்.
C110.2	புறநானூற்றின் வாயிலாக மன்னர்களின் போர்ச் சமூக அமைப்பை அறிகின்றனர்.
C110.3	முல்லைப்பாட்டின் வாயிலாக முல்லைநிலமக்களின் வாழ்வியல், பண்பாடு ஆகியவற்றை அறிகின்றனர்.



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C110.4	திருக்குறள் மற்றும் நாலடியார் வாயிலாக ஈகை மற்றும் ஒழுக்கத்தை அறிகின்றனர்.
C110.5	மொழிப்பயிற்சி வாயிலாக தமிழைப் பிழையில்லாமல் எழுதவும் பேசவும் அறிகின்றனர்.

YEAR/ SEM: I/II — LE12A – HINDI II

NO.	COURSE OUTCOME
C111.1	To understand the Drama and the stories based on social problems.
C111.2	Understand the change in content and style of expression in short stories in modern period
C111.3	Develop the skills of Translation from Hindi to English by using high technical words
C111.4	Analyse the development of one act play.
C111.5	Understand the meaning concept of Functional Hindi

YEAR/ SEM: I/II – LZ12A – COMMUNICATIVE ENGLISH II

NO.	COURSE OUTCOME
C112.1	Ability to comprehend both the written and spoken texts. Ability to frame questions and answer them. Ability to write/speak grammatically correct sentences.
C112.2	To enroll people in our ideas, our visions, and our visions.
C112.3	To enhance listening skills
C112.4	Awareness of the art of personal letter/email writing without grammatical errors.
C112.5	To analyse crucial for effectiveness – particularly in sales or leadership roles.



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YEAR/ SEM: I/II – SG22A – ELECTRONICS DEVICES

NO.	COURSE OUTCOME
C113.1	To Recognize the diodes as rectifiers
C113.2	To Identify the operation of transistors and as switching circuits
C113.3	To Compare the operation of transistors and FETs
C113.4	To Describe the fundamental operation of semiconductor electronic devices
C113.5	To analyze PN junctions in semiconductor devices under various conditions.

YEAR/ SEM: I/II – SG221 – MAIN PRACTICAL II

NO.	COURSE OUTCOME
C114.1	To study V-I Characteristics of Junction Diode.
C114.2	To learn Rectifier circuits – Half Wave, Center-tapped Full wave.
C114.3	To construct Bridge Rectifier
C114.4	To observe V-I Characteristics of Zener Diode
C114.5	To note Regulated Power Supply using Zener Diode

YEAR/ SEM: I/II – SM3AE – MATHEMATICS II

NO.	COURSE OUTCOME
C115.1	To gain knowledge about basic concepts of Differential Equation, Laplace Transforms, Vector Analysis and Calculus
C115.2	To acquire the knowledge of mathematics to Computer studies



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C115.3	To understand the different methods of solving. Laplace and Inverse Laplace Transforms problems and applying it on solving Differential Equations
C115.4	To understand the Types of Integration and Reduction Formula
C115.5	To apply ideas in vector analysis and understand the interpretation in science.

YEAR/ SEM: I/II – SM5AB – FUNCTIONAL MATHEMATICS II

NO.	COURSE OUTCOME
C116.1	To make mathematics functional in everyday life
C116.2	To include recognizing and being able to solve Mensuration problems
C116.3	To understand and evaluate problems in Time, Work and Distance
C116.4	To have a grasp of stock and shares
C116.5	To make effective use in better understanding of the world and in meeting its challenges

YEAR/ SEM: I/II – NLT2D – BASIC TAMIL

NO.	COURSE OUTCOME
C117.1	தமிழ் இலக்கியங்களை அறிந்து கொள்ளுதல்.
C117.2	அற இலக்கியங்களைத் தெரிந்து கொள்ளுதல்.
C117.3	திருக்குறளின் சிறப்புகளை அறிந்து கொள்ளுதல்.
C117.4	தமிழர்களின் பண்பாடு ,நாகரிகம் போன்றவற்றைத் தெரிந்து கொள்ளுதல்.
C117.5	தமிழகத்தின் விழாக்களை அறிந்து கொள்ளுதல்.



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YEAR/ SEM: I/II – PZ1SC – ENGLISH FOR PHYSICAL SCIENCES II

NO.	COURSE OUTCOME
C118.1	To understand the basic objective of the course by being acquainted with specific dimensions of communication skills i.e. Reading, Writing, Listening, Thinking and Speaking
C118.2	To create substantial base by the formation of strong professional vocabulary for its application at different platforms and through numerous modes as Comprehension, reading, writing and speaking etc
C118.3	Students will apply it at their work place for writing purposes such as Presentation/official drafting/administrative communication and use it for document/project/report/research paper writing.
C118.4	To evaluate the correct & error-free writing by being well-versed in rules of English grammar & cultivate relevant technical style of communication & presentation at their work place & also for academic uses
C118.5	To apply it for practical and oral presentation purposes by being honed up in presentation skills and voice-dynamics. They will apply techniques for developing inter-personal communication skills and positive attitude leading to their professional competence.

YEAR/ SEM: II/III – SG23A –ANALOG ELECTRONICS

NO.	COURSE OUTCOME
C201.1	To design and analyze electronic circuits
C201.2	To recognize power amplifier circuits, their design and uses in electronics and communication circuits
C201.3	To know the concept of Multistage and feedback amplifier and their characteristics
C201.4	To design different oscillators circuits for various frequencies
C201.5	To study about design of circuits using Operational Amplifier and IC 555



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YEAR/ SEM: II/III - SG23B - NUMERICAL METHODS

NO.	COURSE OUTCOME
C202.1	To identify and classify the numerical problem to be solved
C202.2	To choose the most appropriate numerical method for its solution based on characteristics of the problem
C202.3	To understand the characteristics of the method to correctly interpret the results
C202.4	To understand the basic methods, algorithms and programming techniques to solve mathematical problems
C202.5	To study about Gauss elimination method, Cofactor method and Partition method.

YEAR/ SEM: II/III – SG23C – DIGITAL ELECTRONICS

NO.	COURSE OUTCOME
C203.1	To identify the structure of various number systems and its application in digital design
C203.2	To analyze various combinational and sequential circuits
C203.3	To analyze how to interface digital circuits with analog components
C203.4	To identify and differentiate digital electronics applications.
C203.5	To implement simple logical operations using combinational and sequential logic circuits.

YEAR/ SEM: II/III – SG33A – BASIC PHYSICS I

NO.	COURSE OUTCOME
C204.1	To define the basics of properties of matter, how Young's modulus and rigidity modulus are defined and how they are evaluated for different shapes of practical relevance



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C204.2	To describe the fundamentals of harmonic oscillator model, including damped and forced oscillators and grasp the significance of terms like quality factor and damping coefficient
C204.3	To describe the general equation of wave motion in general and TM waves in stretched strings and longitudinal waves in gases
C204.4	To recognize the general terms in acoustics like intensity, loudness, reverberation etc.,
C204.5	To study in detail about production, detection, properties and uses of ultrasonic waves

YEAR/ SEM: II/III – SG231 – CORE PRACTICAL III

NO.	COURSE OUTCOME
C205.1	To design OPAMP - Inverting and Non-Inverting modes, Unity Follower
C205.2	To design OPAMP – Summing Amplifiers (Inverting and Non-Inverting Modes)
C205.3	To analyze OPAMP - Integrator and Differentiator
C205.4	To construct OPAMP –Square Wave Generator
C205.5	To construct OPAMP – Sine Wave Generator

YEAR/ SEM: II/III – SG232 – CORE PRACTICAL IV

NO.	COURSE OUTCOME
C206.1	To study of RS, D, T and JK Flip-Flops with IC's
C206.2	To study about Universality of NAND & NOR gates
C206.3	Verification of Boolean laws using NAND gates (Associative, Commutative & Distributive Laws
C206.4	To learn about verification of Boolean laws using NOR gates (Associative,



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	Commutative & Distributive Laws
C206.5	To analyze Half and Full Adder using Simple & NAND Gates.

YEAR/ SEM: II/IV – TSSEG – PERSONALITY ENRICHMENT I

NO.	COURSE OUTCOME
C207.1	To develop and exhibit an accurate sense of self.
C207.2	To demonstrate knowledge of personal beliefs and values and a commitment to continuing personal reflection and reassessment
C207.3	To evaluate and improve upon personal leadership strengths and weaknesses
C207.4	To build self-awareness, personal development, and life skills.
C207.5	To assert strengthened personal character and further, an enhanced ethical sense.

YEAR/ SEM: II/IV – SG24A – PRINCIPLES OF COMMUNICATION

NO.	COURSE OUTCOME
C208.1	To describe the basic principles of communication system.
C208.2	To differentiate analog and digital communication systems
C208.3	To demonstrate the parameters for various types of modulation and demodulation techniques
C208.4	To identify basic communication problem
C208.5	To analyze transmitter and receiver circuits

YEAR/ SEM: II/IV - SG24B - PROGRAMMING IN 'C'

NO.	COURSE OUTCOME



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C209.1	To implement programs using Functions, Pointers, and Structures in C language
C209.2	To implement files and perform file operations
C209.3	To perform the execution of programs written in C language
C209.4	To identify the C code for a given algorithm
C209.5	To study application of C language

YEAR/ SEM: II/IV - SG24C - MICROPROCESSOR (INTEL 8085)

NO.	COURSE OUTCOME
C210.1	To describe the architecture of 8085 microprocessor
C210.2	To analyze assembly language Programmes
C210.3	To implement programme efficiency using various addressing modes
C210.4	To perform Interfacing of memory & various I/O devices with 8085 microprocessors
C210.5	To design simple interfaces to Intel-8085

YEAR/ SEM: II/IV - SG241 - PROGRAMMING IN C PRACTICAL

NO.	COURSE OUTCOME
C211.1	To understand the different types of variables and operators in C programming and their use in different types of operations
C211.2	To understand the decision making and looping structures in C and use it in program implementations
C211.3	To understand the purpose of functions in C
C211.4	To understand how data storage and access in arrays in C.



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C211.5 To learn file operations and data manipulations using pointers in C

YEAR/ SEM: II/IV – SG242 – CORE PRACTICAL V

NO.	COURSE OUTCOME
C212.1	To recognize the microprocessor as a programmable digital system element.
C212.2	To learn basic concepts of microprocessors using assembly language programming
C212.3	To develop an in-depth understanding of the operation of microprocessors and machine language programming & interfacing techniques
C212.4	To design simple interfaces to Intel-8085.
C212.5	To comprehend the various peripheral interface circuits that are necessary for the operation of Intel-8085

YEAR/ SEM: II/IV – SG34A – BASIC PHYSICS - II

NO.	COURSE OUTCOME
C213.1	To define the basic concepts behind Optics, Nuclear Properties and Radio Activity
C213.2	To describe the basics in Laser
C213.3	To implement the applications of fibre Optics
C213.4	To understand the fundamental laws and their applications in measuring many physical quantities
C213.5	To understand telecommunication.

YEAR/ SEM: II/IV - SG341 - BASIC PHYSICS PRACTICAL

NO.	COURSE OUTCOME
C214.1	To understand the basic principles and fundamentals of Physics



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C214.2	To comprehend different fields of Physics.
C214.3	To analyze the tools and methods that Physicists use range from balance scales to ultrasonics, laser beam emitters
C214.4	To recognize the fundamental laws and their applications in measuring many physical quantities
C214.5	To understand where Physics principles can be applied to the development of Technology

YEAR/ SEM: II/IV – TSSEN – QUANTITATIVE APPTITUDE

NO.	COURSE OUTCOME
C215.1	To apply Quantitative Reasoning and Mathematical Methodologies to understand and to solve problems
C215.2	To understand Brief Description of Learning Objective
C215.3	To acquire mental alertness and have a sharp mind.
C215.4	To ensure testing ability in various Competitive examinations.
C215.5	To enable the important measure for prospective business executives' abilities

YEAR/ SEM: II/IV - ENV4B - ENVIRONMENTAL STUDIES

NO.	COURSE OUTCOME
C216.1	To know the scope and importance of environmental studies and to create public awareness for environmental protection.
C216.2	To elucidate the problems created by the over utilization of resources and to suggest alternate energy to meet our energy crisis/demand
C216.3	To give a neat sketch explanation of ecosystem, ecological succession, ecological pyramid, food chain and food web
C216.4	To know the different methods of biodiversity conservation



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C216.5 To analyse the effects of pollution and the role of individual for pollution control programme

YEAR/ SEM: III/V – SG25A-MICROCONTROLLER

	COURSE OUTCOME
C301.1	To familiarize with different types of microcontroller
C301.2	To know 8051 microcontroller in detail
C301.3	To learn programming and Interfacing with 8051 microcontroller
C301.4	To develop an in-depth understanding of the operation of microcontroller and interfacing techniques
C301.5	Demonstrate keyboard, display, stepper motor, ADC & DAC interfaces

YEAR/ SEM: III/V - SG25B-ELECTRICAL AND ELECTRONICS INSTRUMENTATION

NO.	COURSE OUTCOME
C302.1	To know the basic concepts related to the operation of Electrical and Electronics Measurement Instruments
C302.2	To study the basics of design of analog and digital circuits used in electronic instrumentation
C302.3	To understand basic electronic instrument terminology
C302.4	To understand the proper application of electronic instruments
C302.5	To recognize various ac and dc bridges

YEAR/ SEM: III/V –SG25C– ANTENNAS THEORY AND READER SYSTEM

NO.	COURSE OUTCOME
C303.1	Define the concept of Antenna parameters and types.



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C303.2	Explain the fundamental concepts of television transmission, reception and scanning methods
C303.3	Define the fundamental concepts of Wave Propagation.
	Define the fundamental concepts of wave fropagation.
C303.4	Describe the working principles of latest digital TV and HDTV, LED and OLED.
C303.5	Recognize the concept of RADAR

YEAR/ SEM: III/V - SG4AH-PROGRAMMING IN C++

NO.	COURSE OUTCOME
C304.1	To introduce the concepts of Object-Oriented Programming language.
C304.2	To learn the object oriented concepts of C++.
C304.3	To handle exceptions in C++
C304.4	To learn and program the concepts of Files, Templates, Containers and Iterators
C304.5	To implement applications using files, templates, containers and iterators.

YEAR/ SEM: III/V – SG251-PRACTICAL-VI

NO.	COURSE OUTCOME
C305.1	To recognize the microcontroller as a programmable digital system element.
C305.2	To learn basic concepts of microcontroller using assembly language programming
C305.3	To develop an in-depth understanding of the operation of microcontroller and machine language programming & interfacing techniques
C305.4	To design simple interfaces to Intel-8085.
C305.5	To comprehend the various peripheral interface circuits that are necessary for the operation of Intel-8085



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YEAR/ SEM: III/V - VAE5Q - VALUE EDUCATION

NO.	COURSE OUTCOME
C306.1	To understand the importance of value education
C306.2	To learn about salient values for life and problem solving and decision-making skills
C306.3	To know the importance of human rights & social values
C306.4	To know the importance of environment and ecological balance
C306.5	To learn about social evils and how to tackle them.

YEAR/ SEM: III/VI – SG26A-COMPUTER NETWORKS

NO.	COURSE OUTCOME
C307.1	To explain the OSI Reference Model
C307.2	To Analyze the requirements for a given organizational structure and select the most appropriate networking architecture and technologies
C307.3	To Describe the functions of Physical, Data Link, Network layers in OSI model
C307.4	To Define the transport, session and presentation layers
C307.5	To Describe the individual components and functioning of the internet

YEAR/ SEM: III/VI – SG26B-REAL TIME EMBEDDED SYSTEM

NO.	COURSE OUTCOME
C308.1	To Explain Arduino environment and its applications
C308.2	To Design Smart systems applications



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C308.3	To Implement circuits using Arduino
C308.4	To Perform Raspberry Pi using the programming language Python
C308.5	To Analyze the IOT based applications

YEAR/ SEM: III/VI – SG26C-BIOMEDICAL INSTRUMENTATION

NO.	COURSE OUTCOME
C309.1	To Describe the origin of biopotentials and explain the role of biopotential electrodes;
C309.2	To Design and operate biopotential amplifiers
C309.3	To Describe common biomedical signals and distinguish characteristic features
C309.4	To Measure biomedical information
C309.5	To Demonstrate the position of biomedical instrumentation in modern hospital care

YEAR/ SEM: III/VI – SG261 – MAIN PRACTICAL 7

NO.	COURSE OUTCOME
C310.1	To familiarize with Arduino as IDE, programming language & platform.
C310.2	To provide knowledge of Arduino boards and basic components.
C310.3	To Develop skills to design and implement various smart system application
C310.4	To gain knowledge about various Arduino Boards
C310.5	To learn interfacing with 8085

YEAR/SEM: III/VI – SG26Q - PROJECT



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NO.	COURSE OUTCOME
C311.1	To construct circuit with Arduino board
C311.2	To Identify real-life problems and suggest possible solutions
C311.3	To Design an electronic circuit using hardware-software interfacing.
C311.4	To enhance the ability to communicate technical information by means of written reports and oral presentation
C311.5	To Apply project management skills in development of projects.

YEAR/ SEM: III/VI – SG4AD- CONSUMER ELECTRONICS

NO.	COURSE OUTCOME
C312.1	To Explain the functions of microwave oven
C312.2	To Perform electronic fund transfer and online ticketing
C312.3	To Describe the working of Air conditioner and Refrigerator
C312.4	To Define the basics behind facsimile machine, calculators and digital clocks
C312.5	To Familiarize with online ticketing and electronic fund transfer

YEAR/ SEM: III/VI - CES6Q-EXTENSION ACTIVITIES

NO.	COURSE OUTCOME
C313.1	Acquire leadership qualities and democratic attitude.
C313.2	Develop capacity to meet emergencies and natural disasters.
C313.3	Utilize knowledge in finding practical solution to individual and community



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	problems.
C313.4	Gain skill in mobilizing community participation.
C313.5	Identify the needs and problems of the society and involve them in problem solving process.