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### 2.6.1 PSOs and COs 2023 Onwards

Programme Specific Outcomes and Course Outcomes

Department	Programme Specific Outcomes
B.Sc. (Physics with Computer Applications)	PSO1: Disciplinary Knowledge: Understand the fundamental principles, concepts, and theories related to physics and computer science. Also, exhibit proficiency in performing experiments in the laboratory.  PSO2: Critical Thinking & Problem Solving: Analyse complex problems, evaluate information, synthesize information, apply theoretical concepts to practical situations, identify assumptions and biases, make informed decisions and communicate effectively. Employ theoretical concepts and critical reasoning ability with physical, mathematical and technical skills to solve problems, acquire data, analyze their physical significance and explore new design possibilities.  PSO3:Analytical & Scientific Reasoning: Apply scientific methods, collect and analyse data, test hypotheses, evaluate evidence, apply statistical techniques and use computational models.  PSO4: Research related skills: Formulate research questions, conduct literature reviews, design and execute research studies, communicate research findings and collaborate in research projects.  PSO5: Self-directed & Lifelong Learning: Set learning goals, manage their own learning, reflect on their learning, adapt to new contexts, seek out new knowledge, collaborate with others and to continuously improve their skills and knowledge, through ongoing learning and professional development, and contribute to the growth and development of their field.



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Programme Name: B.Sc. with Computer Applic		Programme Code: UGPY004
Subject Code and Subject Name	Course Outcomes	
I Year - I Semester		
100L1A General Tamil–I		ங்க இலக்கியத்தில் காணப்பெறும் வாழ்வியல் ளஅறிந்துகொள்வர்
	CO2: அற	இலக்கியம் மற்றும் தமிழ் காப்பியங்களின்வழி வாழ்வியல் ளப் பெறுவர்
	-	இலக்கியங்களைக் கற்பதன் மூலம் பக்திநெறியினையும், இலக்கியங்களைக் கற்பதன்வழி நல்லிணக்கத்தையும் தெரிந்து
	CO4: மொழிம	பறிவோடு சிந்தனைத் திறனைப் பெறுவார்
	CO5: மொழிப்	ப்பயிற்சிக்குத் தேவையான இலக்கணங்களைக் கற்பர்
100L1G Sanskrit–I	CO1: Understand the basic Sanskrit sentence structure CO2: To provide the glimpses of the rich Sanskrit literary tradition through reading the literary composition. CO3: Explain the language of this Mahakavya which is highly elaborate and polished with continual play upon words and variety of meters CO4: Analyse and interpret expressions of cause, effect, purpose, and opposition in Sanskrit CO5: Evaluate grammatical nature of verses	
100L1Z General English – I	CO1: Acquire self awareness and positive thinking required in various life situations  CO2: Acquire the attribute of empathy  CO3: Acquire creative and critical thinking abilities  CO4: Learn basic grammar  CO5: Development and integrate the use of four language skills - LSRW (Listening, Speaking, Reading and Writing)	
138C1A Properties of Matter and Sound	CO1: Relate and working CO2: Unde	e elastic behaviour in terms of three moduli of elasticity g of torsion pendulum erstand and appreciate the concept of bending of beams e the expression, quantify and understand nature of

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विश्वया विन्त्रतं अपूर्ण	
	<b>CO3:</b> Explain the surface tension and viscosity of fluid and support
	the interesting phenomena associated with liquid surface, soap films
	provide an analogue solution to many engineering problems
	CO4: Analyze simple harmonic motions mathematically and apply
	them. Understand the concept of resonance and use it to evaluate the
	frequency of vibration
	CO5: Justify the importance of constructing buildings with good
	acoustics after understanding the concept of acoustics. Able to apply
	their knowledge of ultrasonics in real life, especially in medical
	field and assimilate different methods of production of ultrasonic
	waves
	CO1: Discuss the fundamental concepts involved with gates,
	standard representation of logic functions and arithmetic circuits.
	Apply De-Morgan's theorem, minimization techniques to solve and
	design circuits
	CO2: Understand the construction and working of various Flip-
138C1B	_ =
Electronics	Flops and appreciate their application
Electronics	<b>CO3:</b> Know the principles and applications of transistors and types of transistor bigging and applifiers
	of transistor biasing and amplifiers  CO4: Discuss the role of negative and positive feedback amplifiers.
	Explain the Constructional features, basic theory of operation and I-
	V characteristics of various semiconductor devices
	CO1: Understand the concepts of Symmetries of Soci
	CO1: Understand the concepts of Summation of Seri
	CO2: Understand the concepts of Cayley–Hamilton Theorem and
120E1 A	inverse matrices
138E1A	CO3: Understand the concepts of finite differences
Mathematics – I	<b>CO4:</b> Understand the knowledge about expansions, hyperbolic and
	inverse hyperbolic functions
	CO5: Understand the concept of Leibnitz theorem and functions of
	two variables
138S0A	CO1: Know where all physics principles have been put to use in
Physics for Everyday	daily life and appreciate the concepts with a better understanding
Life	CO2: Know about Indian scientists who have made significant
	contributions to Physics
	<b>CO1:</b> Apply concept of vectors to understand concepts of physics
	and solve problems
	CO2: Explain the theory of error analysis and estimate the
138B1A	percentage of errors in the experimental values
Introductory Physics	CO3: Demonstrate the use of mechanical, electrical and electronic
	instruments required for performing experiments in this course
	<b>CO4:</b> Differentiate the various number systems in use and do the
	numerical conversion

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भावन्वतं अ	
	CO5:Justify the need for various semiconductor devices and understand their characteristics and working
	CO1: சமகால இலக்கியங்களின் நோக்குகள் – போக்குகள் குறித்து
	மாணவர்கள் அறிந்து கொள்வர்
	CO2: நாட்டுப்புற மக்களின் வாழ்வியல், அறிவாற்றல், இன்றைய நிலை
	ஆகியவை குறித்து சிந்திப்பர்
100L1M	CO3: தங்கள் கற்பனை வளத்தை மாணவர்கள் பெருக்கிக் கொள்வர்
Advanced Tamil – I	CO4: மொழியில் பிழைகள் நேராவண்ணம் எழுதக் கற்றுக்கொள்வதோடு,
	திறனாய்வு செய்யும் ஆற்றல்பெறுவர்
	CO5: திரைப்படம், சின்னத்திரை, தொலைக்காட்சி உள்ளிட்ட
	ஊடகங்களில் பாடல், இசை, எழுத்து எனப் பல்வேறு வேலைவாய்ப்புகள்
	பெறுவர்
	I Year - II Semester
	CO1: சிற்றிலக்கியங்களின்வழி இலக்கியச் சுவையினையும் பண்பாட்டு
	அறிவினையும் பெறுவர்
	CO2: புதுக்கவிதை வரலாற்றினை அறிந்துகொள்வர்
4007.04	CO3: திராவிட இயக்க இலக்கியங்களைக் கற்பதன் மூலம் மொழிஉணர்வு,
100L2A Tamil – II	இனஉணர்வு, சமத்துவம் சார்ந்த சிந்தனைகளைப் பெறுவர்
Taimi – II	CO4: தமிழ்மொழியைப் பிழையின்றி எழுதவும், புதிய கலைச்சொற்களை
	உருவாக்கவும் அறிந்துகொள்வர்
	CO5: போட்டித் தேர்வுகளில் வெற்றி பெறுவதற்குத் தமிழ்ப்பாடத்தினைப்
	பயன்கொள்ளும் வகையில் பயிற்சி பெறுவர்
	CO1: Understand and apply grammatical concepts in drafting
	sentences and paragraphs
	CO2: Apply the rules and regulations in handling usage of Lrtlakara and AsmadSabdah, practice exercises and identify errors
100L2G	CO3: Form an idea of the aesthetic expressions that make Sanskrit
Sanskrit – II	composition get the position of pride in world literature
	<b>CO4:</b> Demonstrate knowledge of various expressions of opinion,
	emotions, cause, effect, purpose, and hypothesis in Sanskrit
	<b>CO5:</b> Appreciate the art of employment of Alankaras in a prose form of poetry
	CO1: Realize the importance of resilience
	CO2: Become good decision-makers
100L2Z	CO3: Imbibe problem-solving skills
English – II	CO4: Use tenses appropriately
	CO5: Use English effectively at the work place
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138C2A	<b>CO1:</b> Focuses to relate the laws of thermodynamics, entropy in	
Heat, Thermo dynamics	everyday life	
and Statistical Physics	CO2: Explore the knowledge of statistical mechanics and its	
•	relation	
	CO1: Apply various physics concepts to understand Properties of	
129.021	Matter, set up experimentation to verify theories, quantify and	
138C21	analyse, able to do error analysis and correlate results.	
Physics Core Practical-I	CO2: To perform basic experiments on characteristics of electronic	
	devices and then get into the applications such as amplifiers, oscillators, counters and multivibrators.	
	CO1: To gain some knowledge in Integral Calculus and Differential	
138E2A	Equations	
Mathematics – II	CO2: Learn the basic concepts in Laplace Transforms and Vector	
Withtenaucs – II	Calculus	
	<b>CO1:</b> Intends to introduce principles of astrophysics describing the	
	science of formation and evolution of stars and interpretation of	
938SEC2	various heavenly phenomena.	
Astrophysics	CO2: Provides an understanding of the physical nature of celestial	
1 0	bodies along with the instrumentation and techniques used in	
	astronomical research.	
938SEC3	CO1: Exposes to instruments like ECG, EEG, EMG, medical	
Physics of Medical	imaging, diagnostic specialties, operation theater and its safety	
Instruments	which will kindle interest to specialize in instrument servicing	
	CO1: உரைநடை இலக்கியத்தின் பெருமைகளை உணர்ந்து, அதனை	
	அன்றாட வாழ்வில் பயன்படுத்தும் திறன்பெறுவர்.	
	CO2: பண்டைத்தமிழ் இலக்கியங்கள் காட்டும் சமூக, பண்பாட்டு,	
	வாழ்வியல் முறைகளை அறிந்துகொள்வர்.	
100S2B	CO3: காப்பியக் கட்டமைப்புகளை இன்றைய புதினம், திரைப்படங்கள்	
Advanced Tamil – II	ஆகியவற்றுடன் ஒப்பிட்டுக்காணும் அறிவைப்பெறுவர்.	
	CO4: தமிழ் இலக்கிய மரபினையும், மாற்றங்களையும் ஆய்ந்து உணரும்	
	ஆற்றல் பெறுவர்.	
	CO5: மொழிபெயர்ப்புத் திறன் பெறுவதோடு, அன்றாட வாழ்வின்	
	தேவைகளான பல்வகை அலுவலகக் கடிதங்கள் எழுதும் திறன் பெறுவர்.	
	II Year - III Semester	
	CO1: தமிழக வரலாற்றை அறிந்து கொள்வர்	
200L3A Tamil – III	CO2: தமிழரின் வாழ்வியல் தொன்மையை அறிவர்	
	CO3: தமிழரின் பண்பாட்டு கூறுகளை அறிந்து கொள்வர்	
	CO4: பிற பண்பாட்டுத் தாக்கம் மற்றும் அணுகு முறைகளை அறிவர்	
	CO5: மொழிப்பெயர்ச்சிக்குத் தேவையான இலக்கணங்களைக் கற்பர்	

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	<b>CO1:</b> Be familiar with the style of the great Sanskrit Dramatist	
200L3G Sanskrit–III	Bhasa	
	<b>CO2:</b> Be able to appreciate the aesthetical, social, political, cultural,	
	etc., values expressed in prescribed composition	
	CO3: Understand the structural patterns of Sanskrit dramatic	
	composition	
	CO4: Develop the finer and minor nuances of Nataka form of	
	drama	
	CO5: Analyze the literary texts	
	CO2: Develop interpersual relationship skills	
200L3Z	CO2: Develop interpersonal relationship skills	
English – III	CO3: Acquire self-confidence to cope with stress	
0	CO4: Master grammar skills	
	CO5: Carry out business communication effectively	
	CO1: Understand the Newton's Law of motion, general theory of	
	relativity, Kepler's laws and realize the basic principles behind	
	planetary motion	
	CO2: Acquire the knowledge on the conservation laws	
238C3A	CO3: Apply conservation law and calculate energy of various	
General Mechanics and	systems. Understand and differentiate conservative and non-	
Classical Mechanics	conservative forces	
	<b>CO4:</b> Gain knowledge on rigid body dynamics and solve problems	
	based on this concept	
	CO5: Understand the importance of Lagrangian system of	
	mechanics	
	<b>CO1:</b> Gain the knowledge in the concepts of heat and sound waves,	
238C31	resonance, calculate frequency of a.c. mains	
Physics Core Practical-II	CO2: Verified theories, quantified and analysed, done error analysis	
	and correlate results	
	<b>CO1:</b> Outline the fundamental concepts of computers, programming	
	languages and Problem-solving Techniques using C	
238E3A	CO2: Demonstrate the programming methodology	
Programming	CO3: Identify suitable programming constructs for problem solving	
<b>Techniques Using C</b>	CO4: Select the appropriate data representation, control structures,	
	functions and concepts based on the problem requirement	
	CO5: Solve simple, mathematical and logical problems in 'C'	
938SEC4	<b>CO1:</b> To get the knowledge on electrical instruments, installations	
Home Electrical	and domestic wiring techniques with safety precautions and	
Installation	servicing	
938SEC5	<b>CO1:</b> To apprise and train students on the role of Physics in music	
Physics of Music	and get the knowledge on the musical notes and instruments	



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Tarian or S	II Year - IV Semester
	CO1: தாய்மொழி வழியாக அறிவியல்பற்றிச் சிந்திக்கும்திறன் பெற்றிருப்பர்
	CO2: அறிவியல் கலைச்சொல்லாக்கம் பற்றிய விதிகள், நுணுக்கங்களைத்
2001 44	தெரிந்திருப்பர்
200L4A Tamil–IV	CO3: அறிவியல் தமிழ் வளர்ச்சியில் மொழிபெயர்ப்பின் பங்கு குறித்து
	அறிந்திருப்பர்
	CO4: மொழியறிவோடு சிந்தனைத் திறனைப் பெறுவர்
	CO5: மொழிப்பெயர்ச்சிக்குத் தேவையான இலக்கணங்களைக் கற்பர்
	CO1: Apply the usage of compound words
	CO2: Differentiate the Alankaras
200L4G	CO3: Translate the prose passages prescribed
Sanskrit–IV	CO4: Identify and apply different grammatical tenses of
	"Mahabharata" related translation
	CO5: Analyze and critically assess the literary texts
	CO1: Determine their own goals
200L4Z	CO2: Identify the value of integrity
English – IV	CO3: Deal with emotions
	CO4: Frame grammatically correct sentences
	CO5: Write cohesive reports
	<b>CO1:</b> Outline the basics of optics and concepts associated with lenses, prisms, eyepieces. Differentiate the resolving power of
	different optical instruments, and articulate their technological
	applications
	CO2: Discuss the principle of superposition of waves, use these
	ideas to understand the wave nature of light through working of
238C4A	interferometer
Optics and	CO3: Extend the knowledge about nature of light through
Spectroscopy	diffraction techniques, apply mathematical principles to analyse the
	optical instruments
	CO4: Interpret basic formulation of polarization and gain
	knowledge about polarimeter, appraise its usage in industries
	CO5: Relate the principles of optics to various fields of IR, Raman
	and UV spectroscopy and understand their instrumentation and application in industries
238C41	CO1: Demonstrate various optical phenomena, discover the
Physics Core Practical -III	
	<b>CO1:</b> Outline the basic terminologies of OOP, programming
238E4A	language techniques
Java Programming	CO2: Solve problems using basic constructs, mechanisms,
	techniques and technologies of Java

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Tarean or 1	
	CO3: Analyse and explain the behavior of simple programs
	involving different techniques such as Inheritance, Interfaces and
	Exception Handling
	CO4: Assess various problem-solving strategies involved in Java
	CO5: Design Java programs using suitable OOP concepts and
	techniques for any given concept
	<b>CO1:</b> Providing an overview of the principles, operation and
	applications of special diodes. Introducing transistor and transistor
	biasing
	<b>CO2:</b> Providing an overview of the principles, operation and
938SEC6	applications of special devices
<b>Electronic Devices</b>	CO3: Providing an overview of amplifiers, oscillators and their
	applications in different electronic fields
	CO4: To acquire knowledge about Boolean algebra, logic circuits,
	designing counters and the basic concepts of memory and
	programmable logic device
	<b>CO1:</b> To enable to understand the different types of
938SEC7	communications
<b>Communication System</b>	CO2: To make them appreciate the flavour of physics in
	communication
	III Year - V Semester
	<b>CO1:</b> Understand various postulates of special theory of relativity
	CO2: Appreciate the importance of transformation equations and
	also the general theory of relativity
338C5A	CO3: Realize the wave nature of matter and understand its
Relativity and Quantum	importance
Mechanics	CO4: Derive Schrodinger equation and also realize the use of
	operators
	CO5: Apply Schrödinger equation to simple problems
	CO1: Classify the bonding & crystal structure also learn about
	crystal structure analysis using X-ray diffraction
	CO2: Understand the lattice dynamics and thus learn the electrical
	COZI Chacistana the lattice a maines and thas learn the ciccuitear
	and thermal properties of materials
338C5B	and thermal properties of materials  CO3: Give reason for classifying magnetic material on the basis of
338C5B Solid State Physics	CO3: Give reason for classifying magnetic material on the basis of
	<b>CO3:</b> Give reason for classifying magnetic material on the basis of their behaviour
	CO3: Give reason for classifying magnetic material on the basis of their behaviour CO4: Comprehend the dielectric behavior of materials
	CO3: Give reason for classifying magnetic material on the basis of their behaviour  CO4: Comprehend the dielectric behavior of materials  CO5: Appreciate the ferroelectric and super conducting properties
	CO3: Give reason for classifying magnetic material on the basis of their behaviour  CO4: Comprehend the dielectric behavior of materials  CO5: Appreciate the ferroelectric and super conducting properties of materials
Solid State Physics	CO3: Give reason for classifying magnetic material on the basis of their behaviour  CO4: Comprehend the dielectric behavior of materials  CO5: Appreciate the ferroelectric and super conducting properties of materials  CO1: List the properties of electrons and positive rays, define
Solid State Physics  338C5C	CO3: Give reason for classifying magnetic material on the basis of their behaviour  CO4: Comprehend the dielectric behavior of materials  CO5: Appreciate the ferroelectric and super conducting properties of materials  CO1: List the properties of electrons and positive rays, define specific charge of positive rays and know different mass
Solid State Physics  338C5C Atomic Physics and	CO3: Give reason for classifying magnetic material on the basis of their behaviour  CO4: Comprehend the dielectric behavior of materials  CO5: Appreciate the ferroelectric and super conducting properties of materials  CO1: List the properties of electrons and positive rays, define specific charge of positive rays and know different mass spectrographs
Solid State Physics  338C5C	CO3: Give reason for classifying magnetic material on the basis of their behaviour  CO4: Comprehend the dielectric behavior of materials  CO5: Appreciate the ferroelectric and super conducting properties of materials  CO1: List the properties of electrons and positive rays, define specific charge of positive rays and know different mass



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विवयम् विन्यतं अमृतन	
	applications of photo electric effect, solve problems based on
	photoelectric equation
	CO3: Explain different atom models, describe different quantum
	numbers and different coupling schemes
	<b>CO4:</b> Differentiate excitation and ionization potentials, explain
	Davis and Goucher's experiment, apply selection rule, analyse
	Paschen-Back effect, compare Zeeman and Stark effect
	CO5: Understand the condition for production of laser and
	appreciate various properties & applications of lasers
	CO1: Understand the architecture & organization of microprocessor
	8085 and familiarize the instruction set of microprocessors 8085
338C5D	<b>CO2:</b> Apply the software instructions to write efficient assembly
Microprocessor 8085	language programs
and Microcontroller	CO3: Illustrate the interfacing of peripheral devices with 8085
	microprocessors
	CO4: Acquire basic knowledge on the hardware of 8051
	microcontroller
	CO5: Execute assembly language programs through practical work
	CO1: Understand the fundamental concepts in python
338E5A	CO2: Acquire programming skills in python
Python Programming	CO3: Apply the different data types available in python
	<b>CO4:</b> Analyze and select proper concepts to execute python script
	<b>CO5:</b> To develop python script to solve the given problems
	<b>CO1:</b> Understand the model, architecture and Schema of RDBMS
	CO2: Outline the fundamental RDBMS concepts and PL/SQL
338E5B	CO3: Apply database operations, normalization, SQL and PL/SQL
Relational Database	<b>CO4:</b> Analyze the requirements to implement relational database
Management System	concepts
· ·	CO5: Evaluate the database based on various models and
	normalization
	III Year - VI Semester
	<b>CO1:</b> 1 Describe the concept of electric charges and electric fields.
	Explain Gauss' Law, its differential form and application
	CO2: Understand the basics of capacitors and dielectrics and solve
	relevant problems
	CO3: Differentiate electric field and potential and solve problems.
338C6A Electricity and Electromagnetism	Explain Poisson's and Laplace's equations. Discuss the AC circuits
	containing resistance, Inductance and capacitance
	CO4: Discuss the magnetic effect of electric current and its
	application
	CO5: Interpret the magnetic properties of materials. Derive
	Maxwell's equations and discuss the nature of electromagnetic
	waves
	waves

 $\label{lem:model} \begin{tabular}{ll} Mocheri Road, Madurantakam, Chengalpattu Dt, Tamilnadu, India, Pin-603306 \\ Phone: 044 - 2755 3011 / 12 & Email: malolancollege@gmail.com \\ \end{tabular}$ 



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	CO1: Describe various models that explain about the nuclear	
338C6B Nuclear and Particle Physics	structures	
	CO2: Give reason for various kinds of radioactivity and also know	
	laws governing them	
	CO3: Know the principles and applications of various particle	
	detectors and accelerators	
	CO4: Discuss the concepts used in nuclear reaction	
	CO5: Classify various elementary particles and study the effect of	
	cosmic rays	
	CO1: Construct circuits to learn about the concept of electricity,	
	current, resistance in the path of current, different parameters that	
	affect a circuit	
338C61	CO2: Demonstrate various optical phenomena principles, working,	
<b>Physics Core Practical-IV</b>	apply with various materials and interpret the results	
	CO3: Set up experiments, observe, analyse and assimilate the	
	concept	
	CO1: Chart the requirements needed for developing android	
	application	
2200.	CO2: Apply proper interface setup, styles & themes, storing and	
338E6A	management	
Mobile Application Development	<b>CO3:</b> To know the Techniques for the application activities	
Laboratory	CO4: Analyze the problem and add necessary user interface	
Laboratory	components, graphics and multimedia components into the	
	application	
	<b>CO5</b> : Evaluate the results by implementing the concept behind the	
	problem with proper code	
	CO1: Understand the fundamentals of IoT	
338E6B	<b>CO2:</b> Outline the fundamentals and Architectural Overview of IoT	
Internet of Things	CO3: Apply the sensors effectively for IoT application	
	<b>CO4:</b> Analyze the challenges faced by IoT smart devices	
	CO5: Design IoT applications using the technology available	
338S6A	<b>CO1:</b> To enhance the communication and decision making skill	
Professional	CO2: To equip for success in the workplace and lifelong career	
Competency Skill	management	