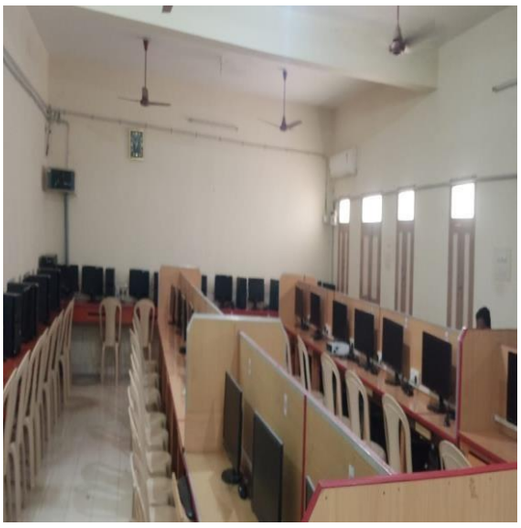
Department of Tamil

Experimental Learning

COMPUTER-ASSISTED LANGUAGE INSTRUCTION (CALI)

Utilizing headphones, students are seated in front of computers to engage in language learning through interactive listening and speaking exercises. This immersive method involves listening to prompts or conversations through the headphones and responding verbally to the computer, allowing for real-time language practice and reinforcement. Additionally, this interactive approach not only enhances speaking skills but also encourages active participation, aiding in the development of language fluency and confidence in communication.



Participative Learning

MUSICAL MNEMONICS: POETRY SINGING FOR EVERLASTING VERSE RETENTION

In our pursuit of instilling enduring literary wisdom, our teachers have ingeniously crafted a methodology that intertwines musicality with mnemonic retention. Through the art of composing poems of eminent poets like Barathiyar, Barathidasan, Thiruvalluvar, and others into songs, they've transformed classroom learning into a harmonious experience. This innovative approach underpins both Experiential and Participative Learning, enriching students' understanding of these timeless verses. By engaging in songwriting and live performances, students become active participants, embedding these revered lines deep within their memories while fostering a profound appreciation for the poets' works. The melodies not only resonate within classroom walls but also grace

stages, creating an immersive learning journey that transcends conventional methods, nurturing a lifelong connection to the poetic masterpieces.

LEGACY OF KNOWLEDGE: THE EVOLUTION OF 'PANDITHAMANI, SEMMAL, V.SP. MANICKANAR AAIVARANGAM' RESEARCH HUB

Since its inception in the 1987 within our esteemed Tamil Department, the "Pandthamani, Semmal, V.Sp. Manikanar Aaivarangam" Research Hub stands as a testament to our commitment to fostering academic growth and collaboration among research students and scholars. This hub serves as a nexus for intellectual discourse, employing ICT methodologies to propel scholarly discussions to greater heights. Weekly gatherings facilitate the exchange of ideas, where PG students, M.Phil, and Ph.D. scholars converge to dissect published articles, novels, or any literary pieces that have inspired their research endeavors. These sessions not only serve as a platform for discussing external works but also provide a forum for scholars to showcase their own published articles. Leveraging digital platforms, this hub has transcended temporal and spatial barriers, allowing for seamless discussions, even in the virtual realm. This long-standing research hub remains a beacon of scholarly engagement, enriching the academic pursuits of generations, and nurturing a legacy of collaborative learning within our department.


ஆய்வரங்கம்


கணேசர் கலை அறிவியல் கல்லூரி
ஆய்வரங்கம்

GANESAR COLLEGE OF ARTS AND SCIENCE,
MELAISIVAPURI.
DEPARTMENT OF COMMERCE
2018 - 2019

PARTICIPATED LEARNING

B.Com. student was taken seminar in the class room with related to Income Tax Especially Capital Gain

GANESAR COLLEGE OF ARTS AND SCIENCE,
MELAISIVAPURI.
DEPARTMENT OF COMMERCE
2018 - 2019

EXPERIENCED LEARNING

The student will constantly interact with the teacher guide through Group Discussion. Normally a teacher will be given five to ten students for group discussion regarding Current Issue

GANESAR COLLEGE OF ARTS AND SCIENCE

Accredited with "B" Grade by NAAC

Melasivapuri - 622403, Pudukkottai district, Tamilnadu - India

Report on student Centric Teaching Method for the Academic Year 2018-2019

Subject : **Indian financial System**

With the right teaching methods, educators can create an enjoyable and productive classroom experience for students where they can learn important academic and social skills to last a lifetime.

Power point presentation.

Teaching Methods

- The term Teaching method refers to the general principles, pedagogy and management strategies used for classroom instruction. Your choice of teaching method depends on what fits you — your educational philosophy, classroom demographic, subject area(s) and school mission statement.
- It is important that teachers learn to use a variety of teaching methodologies in order to cater for the range of learning needs and requirements that are present within most class environments. Within this section a variety of teaching methodologies will be explored and their various advantages and disadvantages outlined.

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Students presentation.

A presentation is a channel for students to share with others what they have learned. It is also a chance to challenge and expand on their understanding of the topic by having others ask questions.

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Teaching Indian financial System

The profession of those who give instruction, especially in an elementary school or a secondary school or in a university.

One of the universal languages widely spoken around the globe is English. It is used for communication and as a medium of instructionglobally. In a globalized world, the field of language acquisition is continuously expanding. Thus, the use of e-learning resources in thestudy of languages is inevitable. Because conventional language teaching techniques cannot accommodate the new technology, thus theymust be revised to fit the evolving needs of both teachers and students. (Istifci, Lomidazde & Demiray, 2011). Integrating ICT intoteaching and learning methodologies is a critical step toward improving teaching and learning tactics (Bingimlas, 2009). The world isundergoing a technological revolution in various aspects of human life. Almost everyone is now acquainted with the use of technologicalequipment such as computers, laptops, and mobile phones. Technology is employed for a variety of purposes in our daily lives, one ofwhich is education (Fu, 2013). In the twenty-first century, ICT is utilized in education and most governments have made ICTa part oftheir educational curricula

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NUMERICAL METHODS WITH MATLAB PROGRAMMING(PPT)

Numerical Methods with MATLAB provides a highly-practical reference work to assist anyone working with numerical methods. A wide range of techniques are introduced, their merits discussed and fully working MATLAB code samples supplied to demonstrate how they can be coded and applied.

Numerical methods have wide applicability across many scientific, mathematical, and engineering disciplines and are most often employed in situations where working out an exact answer to the problem by another method is impractical.

Numerical Methods with MATLAB presents each topic in a concise and readable format to help you learn fast and effectively. It is not intended to be a reference work to the conceptual theory that underpins the numerical methods themselves. A wide range of reference works are readily available to supply this information. If, however, you want assistance in applying numerical methods then this is the book for you.

ELASTIC COLLISION

An elastic collision is a collision in which there is no net loss in kinetic energy in the system as a result of the collision. Both momentum and kinetic energy are conserved quantities in elastic collisions.

Suppose two similar trolleys are traveling toward each other with equal speed. They collide, bouncing off each other with no loss in speed. This collision is *perfectly elastic* because no energy has been lost.

In reality, examples of perfectly elastic collisions are not part of our everyday experience. Some collisions between atoms in gases are examples of perfectly elastic collisions. However, there are some examples of collisions in mechanics where the energy lost can be negligible. These collisions can be considered *elastic*, even though they are not perfectly elastic. Collisions of rigid billiard balls or the balls in a Newton's cradle are two such examples.

DIFFERENTIAL EQUATION(Group Discussion)

In Mathematics, a differential equation is an equation that contains one or more functions with its derivatives. The derivatives of the function define the rate of change of a function at a point. It is mainly used in fields such as physics, engineering, biology and so on.

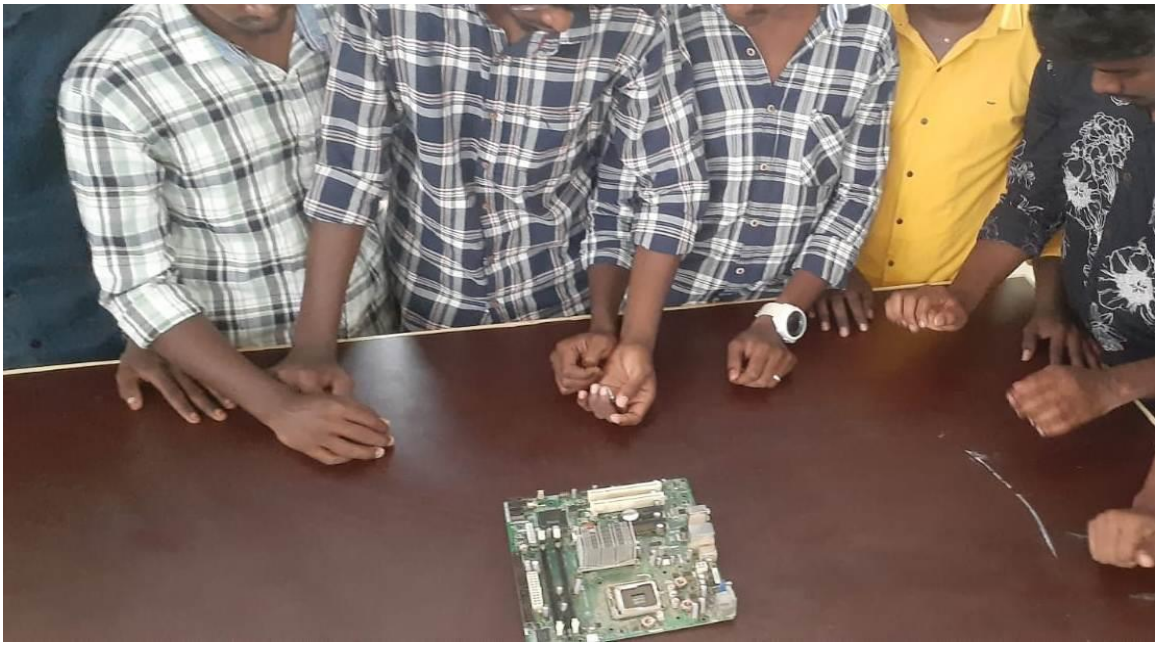
The study of differential equations consists mainly of the study of their solutions (the set of functions that satisfy each equation), and of the properties of their solutions. Only the simplest differential equations are soluble by explicit formulas; however, many properties of solutions of a given differential equation may be determined without computing them exactly.

Often when a closed-form expression for the solutions is not available, solutions may be approximated numerically using computers. The theory of dynamical systems puts emphasis on qualitative analysis of systems described by differential equations, while many numerical methods have been developed to determine solutions with a given degree of accuracy.

2.3.1 Experiential Learning

Experiential Learning is the process of learning by doing. By engaging students in hands-on experiences and reflection, they are better able to connect theories and knowledge learned in the classroom to real-world situations. Experiential learning opportunities exist in a variety of course- and non-course-based forms and may include community service, service-learning, to name a few.

Computer Lab (Web design ASP,PHP)



PC Trouble Shooting

Participative Learning

The field of computer science experiences significant participation, belongingness, and achievement gaps for students from traditionally underrepresented backgrounds. Interviews were conducted in which the students reflected on their interests and experiences with CS prior to and during their studies, as well as on their future career.

GANESAR COLLEGE OF ARTS & SCIENCE,MELAISIVAPURI

(Affiliated to Bharathidasan University, Tiruchirappalli-24)

DEPARTMENT OF ENGLISH -2018-2019

STUDENT CENTRIC METHOD

Student-centered learning, also known as learner-centered education, broadly encompasses methods of teaching that shift the focus of instruction from the teacher to the student. In original usage, student-centered learning aims to develop learner autonomy and independence by putting responsibility for the learning path in the hands of students by imparting to them skills, and the basis on how to learn a specific subject and schemata required to measure up to the specific performance requirement. Student-centered instruction focuses on skills and practices that enable lifelong learning and independent problem-solving. Student-centered learning theory and practice are based on the constructivist learning theory that emphasizes the learner's critical role in constructing meaning from new information and prior experience.The Department of English provide an effective platform for students to develop latest skills, knowledge attitude and values to shape their behavior in the correct manner.The department conducts various student centric activities throughout the year. Learning becomes more experiential, participatory and socialistic by organizing activities like group discussions.

I EXPERIENTIAL LEARNING:

1.1**Seminars:**

- To enhance the teaching/ technical delivery skills among individual students' seminar sessions are arranged. The Choice of the seminar topic is done in such a manner that certain topics post-lecture requires a marginal change for the consecutive concepts.. Benefits associated with seminars, include opportunities to:
- Learn ideas from peers
- Clarify the complex concepts.

1.2 GUEST LECTURE:

Guest lecture by eminent experts from other colleges and academics from across the world are organised to supplement the teaching process and provide experiential learning.

1.3. RESEARCH ACTIVITIES:

- Research activities are conducted in our Department under the guidance of senior faculty where the students of different semester get knowledge about emerging area and them to promote in Research aptitude.

II PARTICIPATIVE LEARNING:

2.1 GROUP DISCUSSION:

Group removes shyness of students and develops their communication skill. It builds their self-confidence. It nurtures them to express their views regarding a subject in a polite manner. Group discussion are arranged and facilitated by faculty members. All the end of a group discussion, the student members have clear and unbiased thoughts.

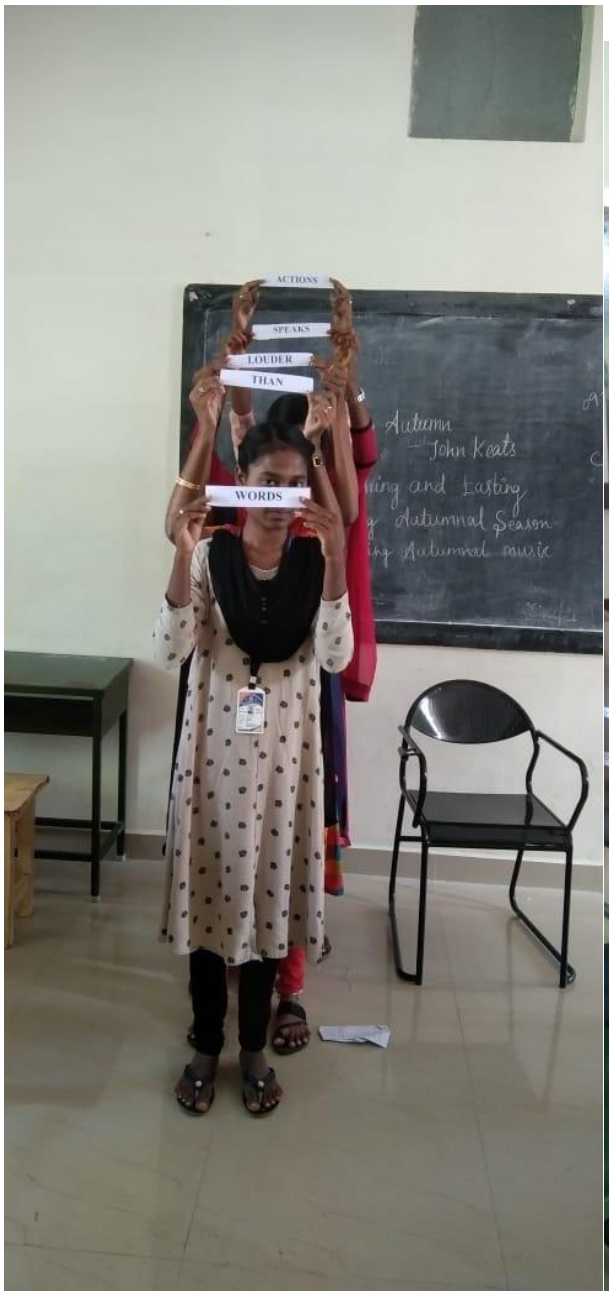
2.2 QUIZ:

Periodical and quick assessment of the student's understanding the concepts is carried out by conducting quiz program. The quiz is either an online one or the traditional paper mode. The scores are recorded for assessing the student's understanding of the concepts.

III PROBLEM- SOLVING METHOD:

3.1 ANALYSIS AND REASONING:

All questions in examination are based on analysis and reasoning. Free internet access in the department and wifi facilities promotes the habit of self learning and discussion.



Department of Physics
2018-2019

Participating learning

One sort of qualitative research that can be used to get a comprehensive understanding of a education or student ability is called Participatory Learning. In projects involving students, it is frequently utilized. Because PLA is a participatory methodology, students should always be fully and actively involved in its execution. PLA's primary goal is to assist the students in analyzing their education and knowledge rather than having outsiders do so, and to make sure that any knowledge

Experiential learning

Experiential Learning is the process of learning by doing. By engaging students in hands-on experiences and reflection, they are better able to connect theories and knowledge learned in the classroom to real-world situations.

Experiential learning opportunities exist in a variety of course and non-course-based forms and may include community service, service-learning, undergraduate research, study abroad/away, and culminating experiences such as internships, student teaching, and capstone projects, to name a few.

GANESAR COLLEGE OF ARTS AND SCIENCE

DEPARTMENT OF SOCIAL WORK

Academic year 2018-19

EXPERIENTIAL METHOD

PARTICIPATORY METHOD

The department of social work organized to collect the data from the society to know their economic status and also conducted the rally for awareness on plastic free society .The social work student gathered the experiential and participatory learning through their social work activities This kind of learning was useful to the students for their future implementation.

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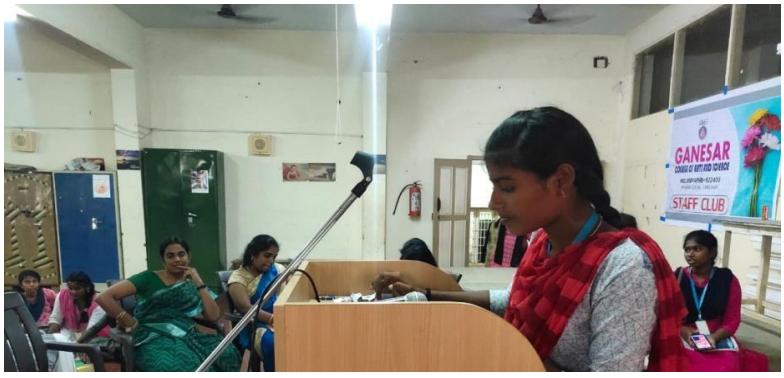
Department of Tamil

EXPERIENTIAL LEARNING USING TANGIBLE OBJECTS

In our department, teachers employ an educational method that integrates ICT tools by utilizing tangible representations such as flowers, trees, and statues, as referenced in Sangam literature in Tamil. These tangible elements are presented to students, inviting them to engage physically, touch, and immerse themselves in the tactile experience of these natural elements. This hands-on pedagogy serves the purpose of deepening students' understanding and connection with the natural world depicted in the literature. By fostering direct interaction, this approach aims to create a more profound and sensory understanding of the cultural and natural references embedded within the texts, aligning with the principles of experiential learning within ICT-enhanced education.

CREATIVE NARRATIVES: FOSTERING LITERARY PROFICIENCY THROUGH STUDENT-WRITTEN WORKS

As part of our comprehensive approach to enriching students' literary knowledge, we integrate a unique methodology that invites students to craft their poems, short stories, and novels. These written compositions serve as a canvas for students to explore their creativity while honing their literary skills. Leveraging ICT, we encourage students to share their works in both classroom settings and open forums. This innovative approach not only nurtures their writing prowess but also fosters a deeper understanding and appreciation for literary craftsmanship. By engaging in the creation and subsequent presentation of their works, students actively participate in a creative process that transcends traditional learning boundaries. Through these endeavors, students not only expand their literary horizons but also develop a profound connection with the art of storytelling and expression. This methodology empowers them to explore diverse narrative styles and themes, enhancing their overall comprehension of literature.



MULTIMEDIA-ASSISTED INSTRUCTION OR MULTIMEDIA LEARNING

Certainly, leveraging ICT tools such as projectors and screens to display movies in our department serves as a multifaceted approach to enriching students' understanding of literary works. Beyond aiding comprehension of novels and dramas, this method stimulates visual learning, offering a sensory experience that vividly brings narratives to life. Additionally, it cultivates a platform for nuanced discussions and analysis, allowing students to explore themes, character dynamics, and plot intricacies in a more immersive manner. Furthermore, this approach encourages creative interpretation, enabling students to perceive and interpret literary elements in diverse ways, fostering a deeper appreciation for the artistry and depth within the texts.

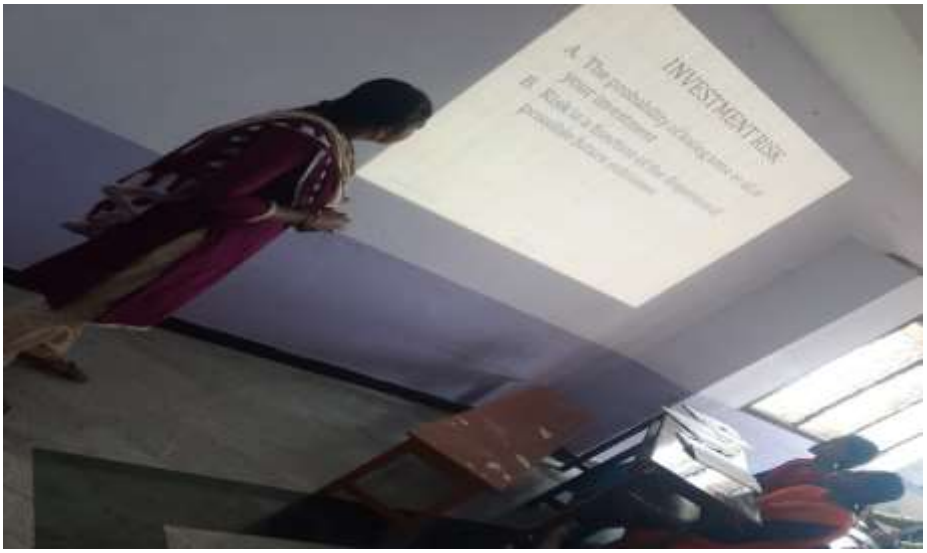
GANESAR COLLEGE OF ARTS AND SCIENCE,
MELAISIVAPURI.
DEPARTMENT OF COMMERCE
2019 - 2020

PARTICIPATED LEARNING

The student will constantly interact with the teacher guide through Group Discussion. Normally a teacher will be given five to ten students for group discussion regarding Current Issue

GANESAR COLLEGE OF ARTS AND SCIENCE, MELAISIVAPURI.
DEPARTMENT OF COMMERCE
2019 - 2020

EXPERIENCED LEARNING



M.Com student was taken seminar using with ICT tools in the class room with related to Security Analysis and Portfolio Management Specially Investment Risk.

GANESAR COLLEGE OF ARTS AND SCIENCE

Accredited with "B" Grade by NAAC

Melasivapuri - 622403, Pudukkottai district, Tamilnadu - India

Report on student Centric Teaching Method for the Academic Year 2019-2020

Subject : **BUSINESS TOOL FOR DECISION MAKING**

With the right teaching methods, educators can create an enjoyable and productive classroom experience for students where they can learn important academic and social skills to last a lifetime.

Power point presentation.

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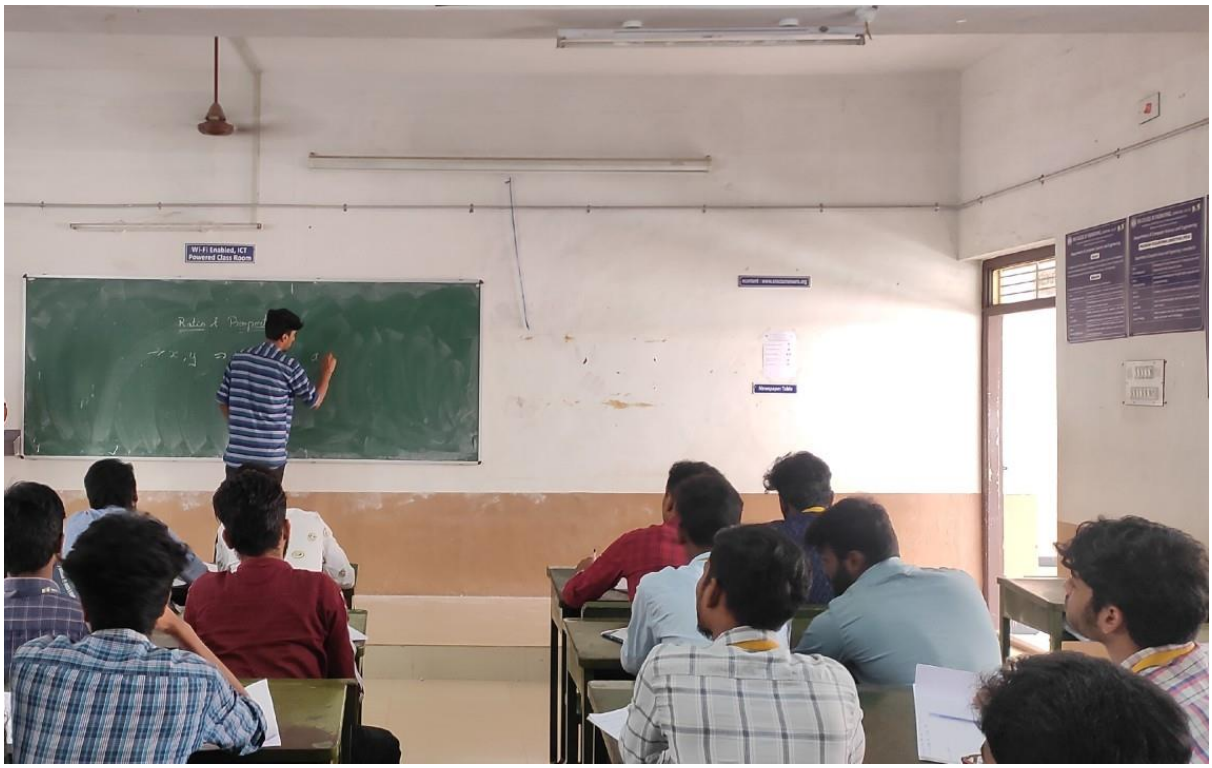
Teaching BUSINESS TOOL FOR DECISION MAKING

The profession of those who give instruction, especially in an elementary school or a secondary school or in a university.



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In the twenty-first century, ICT is utilized in education and most governments have made ICTa part oftheir educational curricula

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GRAPH THEORY

In mathematics, graph theory is the study of graphs, which are mathematical structures used to model pair wise relations between objects. A graph in this context is made up of vertices (also called nodes or points) which are connected by edges (also called links or lines).

Graph theory, branch of mathematics concerned with networks of points connected by lines. The subject of graph theory had its beginnings in recreational math problems (*see* number game), but it has grown into a significant area of mathematical research, with applications in chemistry, operations research, social sciences, and computer science.

The history of graph theory may be specifically traced to 1735, when the Swiss mathematician Leonhard Euler solved the Königsberg bridge problem. The Königsberg bridge problem was an old puzzle concerning the possibility of finding a path over every one of seven bridges that span a forked river flowing past an island—but without crossing any bridge twice. Euler argued that no such path exists. His proof involved only references to the physical arrangement of the bridges, but essentially he proved the first theorem in graph theory.

TOPOLOGY - STUDENTS SEMINAR

OPERATION RESEARCH- ASSIGNMENT PROBLEM

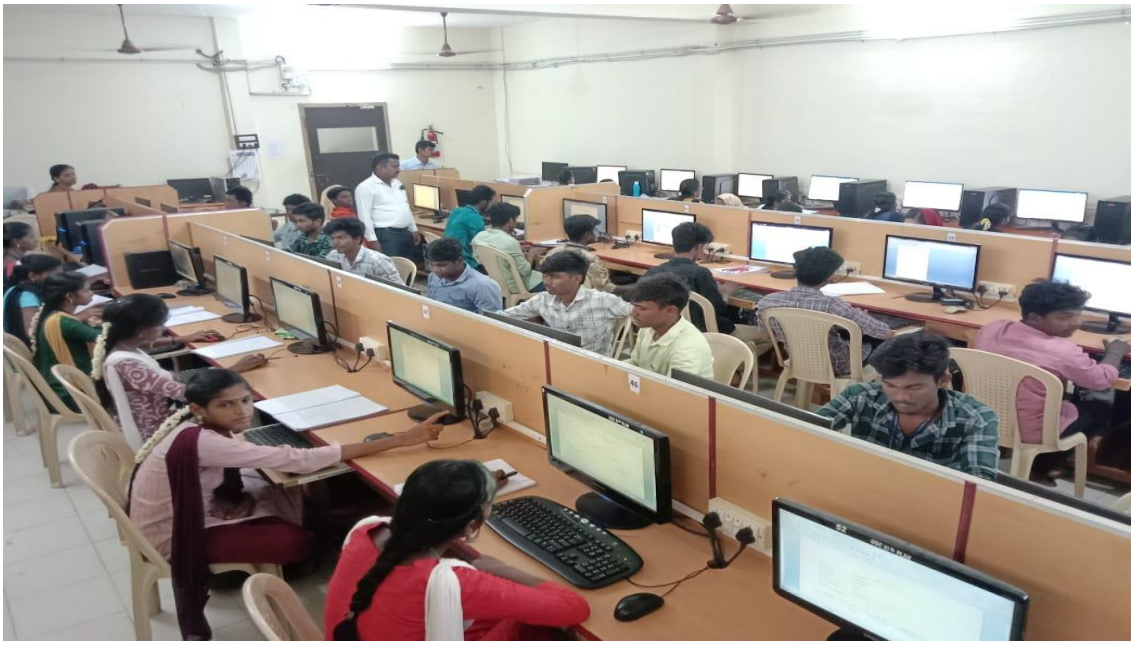
An assignment problem is a particular case of transportation problem where the objective is to assign a number of resources to an equal number of activities so as to minimize total cost or maximize total profit of allocation.

The problem of assignment arises because available resources such as men, machines etc. have varying degrees of efficiency for performing different activities, therefore, cost, profit or loss of performing the different activities is different.

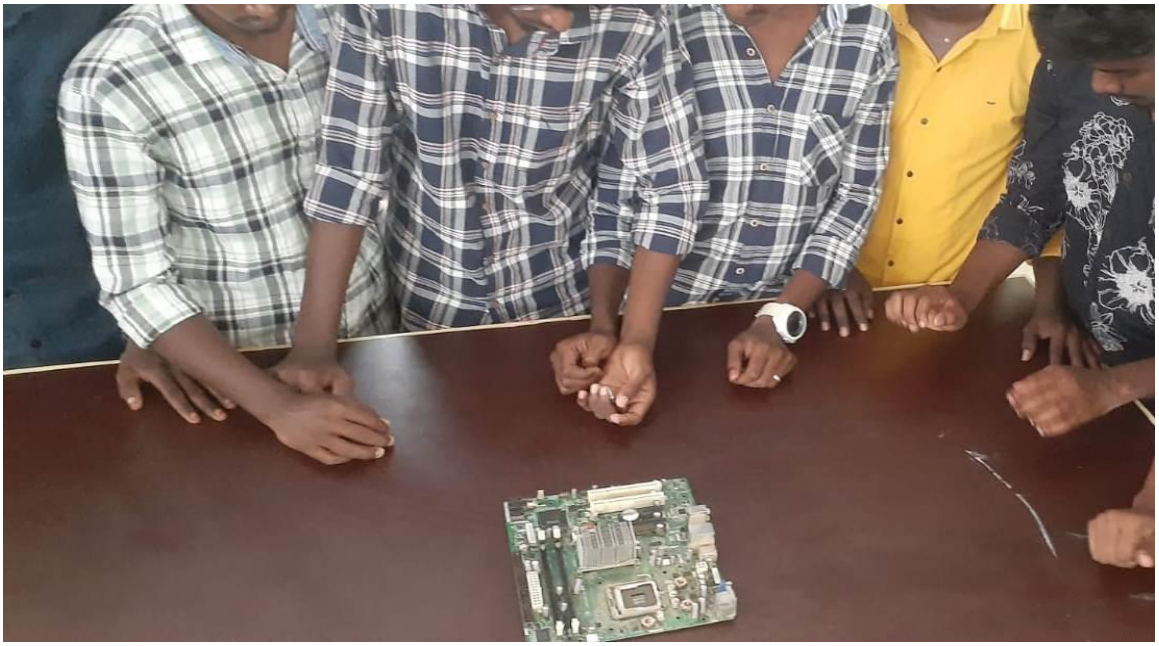
Thus, the problem is “How should the assignments be made so as to optimize the given objective”. Some of the problem where the assignment technique may be useful are assignment of workers to machines, salesman to different sales areas.

2.3.1 Experiential Learning

Learning by doing is considered one of the best means of arousing intellectual process among the rural, first-generation learners. The goal of computer science Experiential Learning (EL) activities is to provide students with the opportunity to apply their knowledge to real-world situations and develop practical and technical expertise.. These activities involve simulations, virtual environment setup, designing, hardware assembling, and other interactive tools



Computer Lab (Program Language C, C++ and Java)



PC mother Board

Participative Learning

Peer-Learning is a strategy adopted to step up the slow learners. Advanced learners are encouraged to learn through presentation of assignments, discussion and debate in classrooms and in Association meetings. Film presentation and analysis provide visual access for easy learning

GANESAR COLLEGE OF ARTS & SCIENCE, MELAISIVAPURI

(Affiliated to Bharathidasan University, Tiruchirappalli-24)

DEPARTMENT OF ENGLISH -2019-2020

STUDENT CENTRIC METHOD

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I EXPERIENTIAL LEARNING:

1.1 GUEST LECTURE:

Guest lecture by eminent experts from other colleges and academics from across the world are organised to supplement the teaching process and provide experiential learning.

1.2 DRILL AND PRACTICES:

Despite following the innovative practices of course delivery, it's at times necessary to impinge the traditional way of making the student to remember certain important formulae and steps involved in designing. One such approach which involved is the drills and practices.

II PARTICIPATIVE LEARNING:

2.1 COMPUTER – ASSISTED LEARNING:

The Department has required number of computers, printers, LCD projector. These are effectively used for teaching.

2.2 SMART CLASS ROOM:

Faculties are using SMART CLASS room to interactive session project is used for demonstration, video and audio methods.

2.3 INVITED LECTURES:

For each course besides regular lecture, the department interacts with the scholars to deliver the lecture to the students based on literature.

2.4 ROLE PLAY:

Role play excercises give students the opportunity to assume the role of person or act out a given situation. These roles can be performed by individual students, in pairs,or ingroups which can playout amore complex scenario.

III PROBLEM- SOLVING METHOD:

3.1 PROBLEM SOLVING METHODOLOGY:

In English department Tutorial classes, Projector classes online classes are conducted by our faculty members for the subjects Grammar, Poetry and Research Methodology etc.

Department of Physics
2019-2020

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Participating learning

Experiential learning

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Experiential learning opportunities exist in a variety of course- and non-course-based forms and may include community service, service-learning, undergraduate research, study abroad/away, and culminating experiences such as internships, student teaching, and capstone projects, to name a few.

GANESAR COLLEGE OF ARTS AND SCIENCE

DEPARTMENT OF SOCIAL WORK

Academic year 2019-20

PARTICIPATORY METHOD

The department of social work visit the primary school of varpattu and give the awareness of good touch and bad touch of the students. Through this programme the social work traniess gained the experiential learning .

The student attend the conference with the experts of NGOs ,through this the social work trainees gained the participatory learning.

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DEPARTMENT OF TAMIL
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UGC Recognized 2(f) and 12(B) Institution
Affiliated to Bharathidasan University
Melasivapuri – 622 403, Ponnamaravathi, Tamil Nadu, India

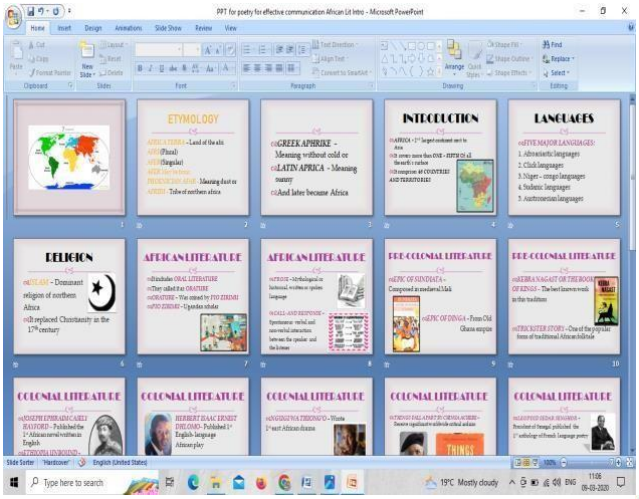
2020-2021 COVID-19 PANDAMIC TIME

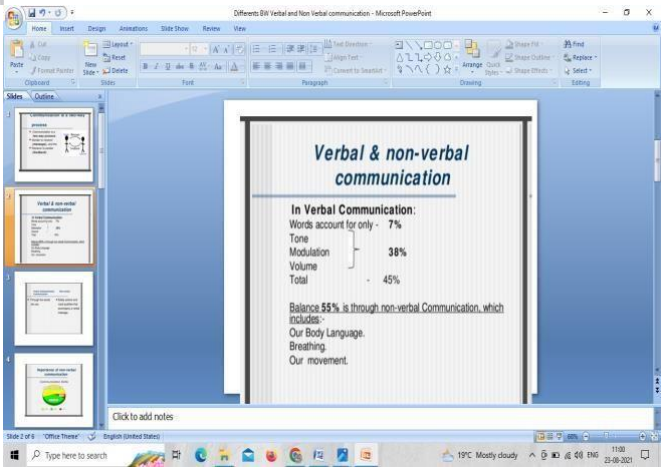
NAVIGATING EDUCATION AMIDST PANDEMIC: HARNESSING DIGITAL TOOLS FOR ENGAGED LEARNING

During the challenging times of the pandemic, our teaching methodologies underwent a transformative shift, embracing a diverse array of digital tools under the umbrella of ICT. WhatsApp, Google Meet, and Zoom Meet emerged as essential platforms, seamlessly connecting educators and students in the online realm. These platforms facilitated live lectures, interactive sessions, and one-on-one discussions, ensuring uninterrupted learning despite physical barriers. To enhance comprehension and engagement, the integration of Jam Board empowered collaborative brainstorming and idea-sharing, allowing real-time interaction on digital whiteboards. Furthermore, leveraging YouTube videos became instrumental in supplementing lectures, providing visual aids and explanatory content, enriching the learning experience. Through this amalgamation of digital tools, we navigated the pandemic's educational landscape, fostering a dynamic and enriched online learning environment for our students.

ADAPTING EDUCATION DURING CRISIS: UTILIZING ONLINE CLASSES AND POWERPOINT PRESENTATIONS

During the challenging period of the COVID lockdown, our college swiftly transitioned to online classes to ensure continuous education for our students. Leveraging the power of information and communication technology (ICT), we embraced a variety of tools, prominently featuring PowerPoint presentations. These presentations became an essential method for delivering comprehensive and engaging content to our students. By meticulously curating informative slideshows, we transformed remote learning into an interactive and immersive experience. Each presentation was carefully crafted, incorporating visuals, text, and multimedia elements to convey complex concepts effectively. This approach not only facilitated the continuation of the curriculum but also enhanced student engagement, comprehension, and retention. Amidst the uncertainties, the use of PowerPoint presentations stood as a testament to our college's commitment to providing quality education despite challenging circumstances.





Zooming into the Future: Navigating Education with Virtual Tools during the 2020 Pandemic

Amid the 2020 COVID-19 pandemic, Zoom emerged as a pivotal ICT (Information and Communication Technology) tool for education. Teachers leveraged the platform to conduct virtual classes, ensuring seamless communication with students. Zoom's interactive features facilitated real-time engagement, enabling educators to share resources, conduct discussions, and assess learning progress. This demonstrated the transformative power of ICT tools in maintaining educational continuity despite physical constraints. Zoom became a symbol of adaptability, showcasing how technology played a crucial role in overcoming challenges during unprecedented times.

DEPARTMENT OF TAMIL
GANESAR COLLEGE OF ARTS AND SCIENCE
Accredited with "B" Grade by NAAC
UGC Recognized 2(f) and 12(B) Institution
Affiliated to Bharathidasan University
Melasivapuri – 622 403, Ponnamaravathi, Tamil Nadu, India

Department of Tamil

TECHNOLOGY-ENHANCED INSTRUCTION OR VISUAL-AIDED TEACHING

In the instructional setting of our departmental classrooms, the integration of projectors and screens to deliver PowerPoint presentations serves as a pivotal tool for faculty members. This utilization significantly augments the pedagogical approach, enabling educators to provide visually enriched content that complements their teachings. Moreover, the incorporation of multimedia presentations enhances engagement and sustains students' attention, fostering a more interactive and dynamic learning environment. This method not only facilitates comprehensive comprehension of subject matter but also encourages active participation and critical thinking among students, fostering a more profound grasp of the curriculum's intricacies.

AUTHORIAL DISCOURSE: UNVEILING LITERARY INSIGHTS THROUGH DEBATE FORUMS

Integrating debate forums as an ICT method has emerged as a potent tool in our teaching approach, particularly in the exploration of authors and their literary works. By providing students with platforms to engage in lively discussions about various authors or even specific novels, this practice serves as a catalyst for intensive research and solution-finding. These forums foster an environment where students not only debate but also collaborate, pooling their diverse perspectives to unveil multifaceted insights into the authors' styles, themes, and contributions to literature. Through these dynamic exchanges facilitated by technology, students embark on a collective journey of discovery, enhancing their research skills and gaining a deeper understanding of the nuanced complexities embedded within literary works. This approach not only promotes critical thinking but also cultivates a profound appreciation for the diverse range of authors and their literary creations.

EMBODIED LEARNING: EPIGRAPHY EXPLORATION THROUGH ON-SITE EXPERIENCES

In our pursuit of fostering a comprehensive understanding of Epigraphy, or "Kalvettuviyal," our faculty employs a unique ICT teaching technique that transcends the confines of traditional classrooms. By leveraging technology to facilitate on-site experiences, students are taken to temples and mountains adorned with inscriptions. Here, amidst these historical sites, students engage directly with the subject matter, deciphering inscriptions and gaining practical insights into Epigraphy. Leveraging digital tools, such as handheld devices or tablets, students document and analyze these inscriptions, fostering a deeper connection to the ancient art of engraving on stone or metal. This immersive approach not only augments theoretical knowledge but also nurtures a tangible understanding of the cultural and historical significance embedded within these inscriptions, offering students a firsthand encounter with the world of Epigraphy beyond textbooks.

GANESAR COLLEGE OF ARTS AND SCIENCE,
MELAISIVAPURI.
DEPARTMENT OF COMMERCE
2021 – 2022

EXPERIENCED LEARNING

Students were working with computer in the laboratory and they understood various fields of computer program. All of them acquired experience from the demonstration which was given by the mentor and students same as follow.

GANESAR COLLEGE OF ARTS AND SCIENCE,
MELAISIVAPURI.
DEPARTMENT OF COMMERCE
2021 - 2022

PARTICIPATED LEARNING

This was an evidence of new initiative has enabled students to understand the nature and the extent of problems and the possibility of intervention and the change that could be envisage.

GANESAR COLLEGE OF ARTS AND SCIENCE

Accredited with "B" Grade by NAAC

Melasivapuri - 622403, Pudukkottai district, Tamilnadu - India

Report on Teaching Method for the Academic Year 2021-2022

ICT tools – Edmodo

Subject : **COMPUTER APPLICATION & BANKS**

With the right teaching methods, educators can create an enjoyable and productive classroom experience for students where they can learn important academic and social skills to last a lifetime.

HOD.
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Melasivapuri, Ponnamaravathi
Pudukkottai - 622403

PRINCIPAL
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Ganesar College Of Arts & Science
MELASIVAPURI - 622 403

Participative Learning

A presentation is a channel for students to share with others what they have learned. It is also a chance to challenge and expand on their understanding of the topic by having others ask questions.

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GANESAR COLLEGE OF ARTS AND SCIENCE

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Melasivapuri - 622403, Pudukkottai district, Tamilnadu - India

Experiential Learning

Teaching **COMPUTER APPLICATION & BANKS**

The profession of those who give instruction, especially in an elementary school or a secondary school or in a university.

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Problem Solving Method

One of the universal languages widely spoken around the globe is English. It is used for communication and as a medium of instructionglobally. In a globalized world, the field of language acquisition is continuously expanding. Thus, the use of e-learning resources in thestudy of languages is inevitable. Because conventional language teaching techniques cannot accommodate the new technology, thus theymust be revised to fit the evolving needs of both teachers and students. (Istifci, Lomidazde & Demiray, 2011). Integrating ICT intoteaching and learning methodologies is a critical step toward improving teaching and learning tactics (Bingimlas, 2009). The world isundergoing a technological revolution in various aspects of human life. Almost everyone is now acquainted with the use of technologicalequipment such as computers, laptops, and mobile phones. Technology is employed for a variety of purposes in our daily lives, one ofwhich is education (Fu, 2013). In the twenty-first century, ICT is utilized in education and most governments have made ICTa part oftheir educational curricula

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CRYPTOGRAPHY

Cryptography is the science of using mathematics to hide data behind encryption. It involves storing secret information with a key that people must have in order to access the raw data.

Mathematics is at the heart of cryptography, which is the study of techniques for secure communication in the presence of third parties. Cryptography uses mathematical algorithms to encode messages in a way that only the intended recipient can decode them, while keeping the message confidential from any unauthorized parties.

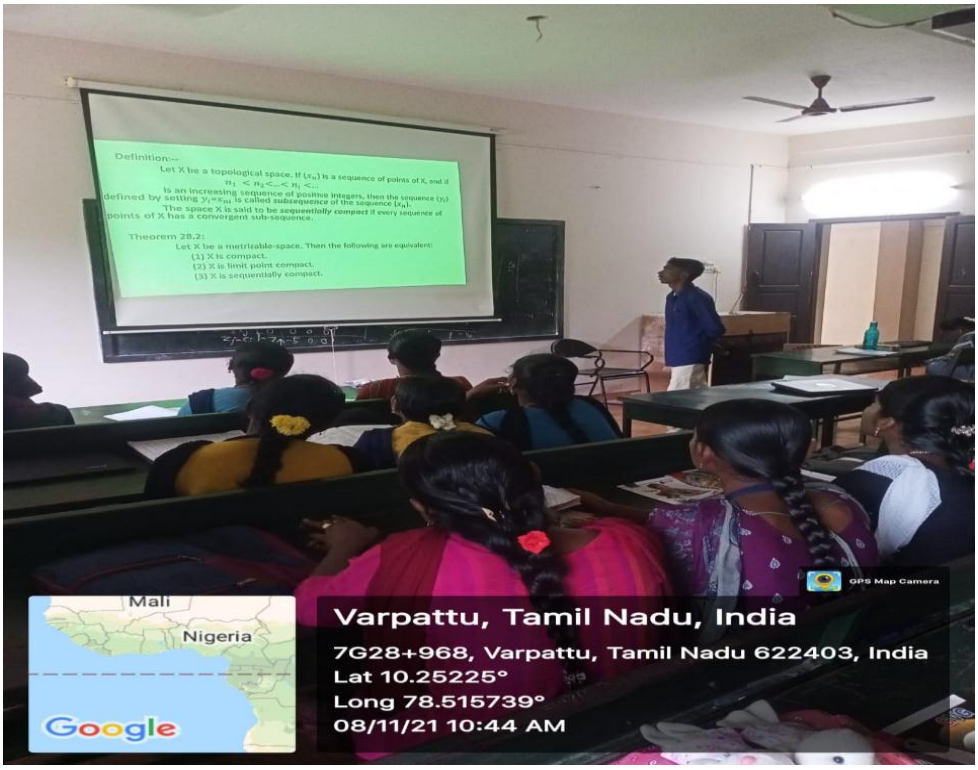
One of the most important mathematical concepts used in cryptography is modular arithmetic, which involves operations on numbers that wrap around after reaching a certain value (known as the modulus). This is used to perform operations on large numbers that are difficult to break using brute force methods.

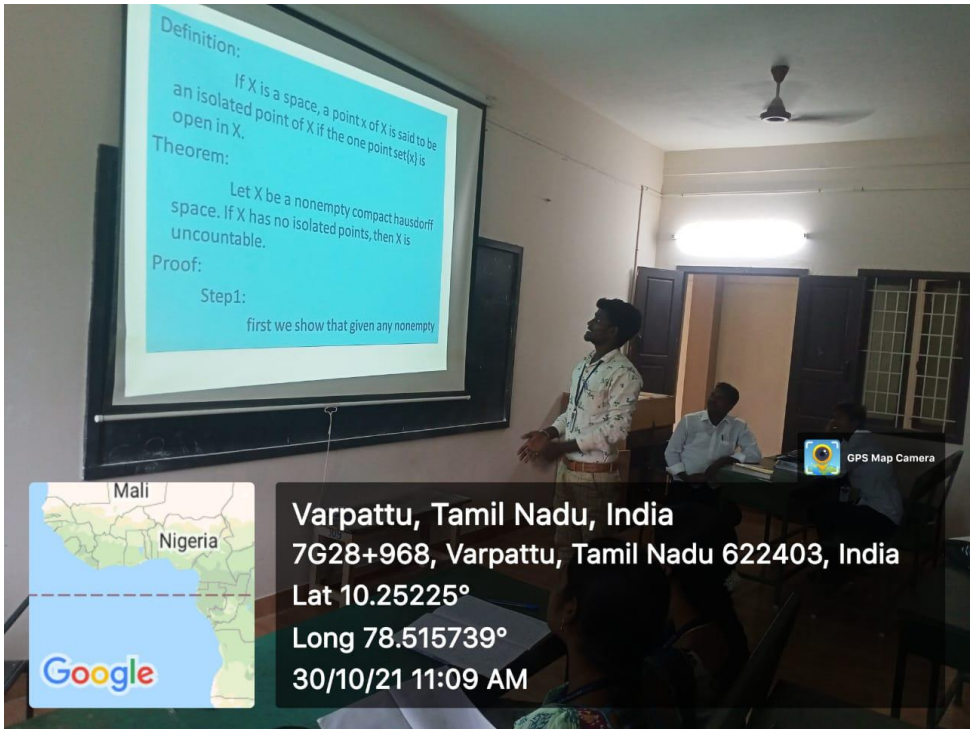
Another important mathematical concept in cryptography is number theory, which is the study of the properties of whole numbers. Prime numbers are of particular importance, as they are used to generate cryptographic keys, which are used to encode and decode messages. The difficulty of factoring large prime numbers is at the heart of many modern cryptographic systems.

Cryptography also uses advanced mathematical concepts like group theory, finite fields, and elliptic curves to create more secure encryption techniques. For example, the RSA algorithm, one of the most widely used cryptographic algorithms, uses modular arithmetic, prime numbers, and number theory to encrypt and decrypt messages.

TOPOLOGY- TIETZE EXTENSION THEOREM

STUDENT SEMINOR





MATLAB IS A PROGRAMMING

MATLAB is a programming platform designed specifically for engineers and scientists to analyze and design systems and products that transform our world. The heart of MATLAB is the MATLAB language, a matrix-based language allowing the most natural expression of computational mathematics.

MATLAB is a high-performance language for technical computing. It integrates computation, visualization, and programming in an easy-to-use environment where problems and solutions are expressed in familiar mathematical notation. Typical uses include:

- Math and computation
- Algorithm development
- Modeling, simulation, and prototyping
- Data analysis, exploration, and visualization
- Scientific and engineering graphics
- Application development, including Graphical User Interface building

MATLAB is an interactive system whose basic data element is an array that does not require dimensioning. This allows you to solve many technical computing problems, especially those with matrix and vector formulations, in a fraction of the time it would take to write a program in a scalar non interactive language such as C or Fortran.

2.3.1 Experiential Learning

Experiential learning (EL) permeates the Computer Science discipline. This work seeks to codify Experiential learning practices for computer science pedagogy into key pillars. These pillars have been successfully applied at a small to mid-sized college within the heavily competitive area.

PC Mother Board

Computer Graphics(CRT Monitor)

Participative Learning

The field of computer science experiences significant participation, belongingness, and achievement gaps for students from traditionally underrepresented backgrounds. However, research shows that these gaps can be narrowed with specific interventions. In the work of this grant, I propose to implement one such intervention -- the use of realistic and socially relevant examples, data, and questions -- in order to narrow these gaps at one specific point in the computer science

ICT Class

GANESAR COLLEGE OF ARTS & SCIENCEMELAISIVAPURI

(Affiliated to Bharathidasan University, Tiruchirappalli-24)

DEPARTMENT OF ENGLISH -2021-2022

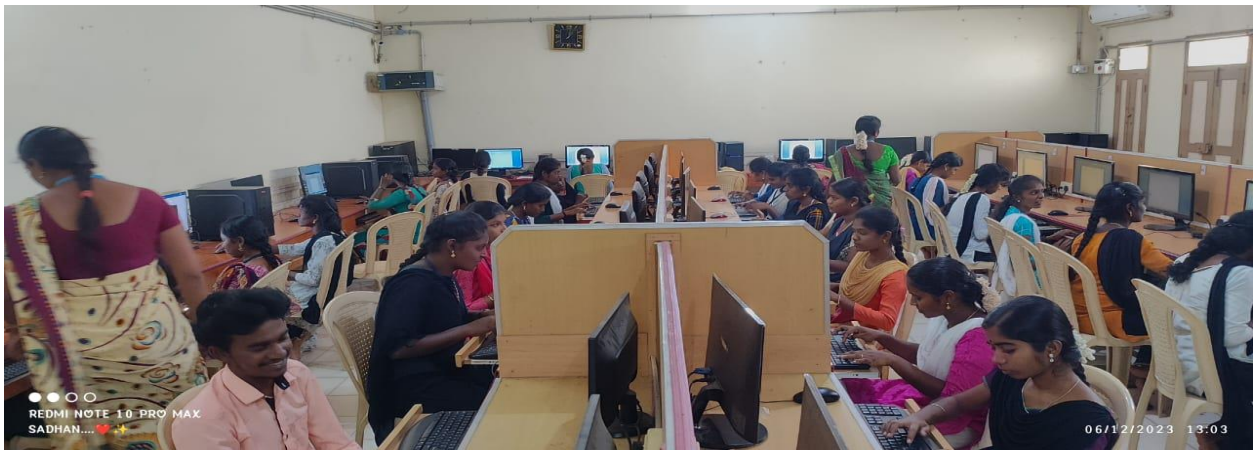
STUDENT CENTRIC METHOD

Student-centered learning, also known as learner-centered education, broadly encompasses methods of teaching that shift the focus of instruction from the teacher to the student. In original usage, student-centered learning aims to develop learner autonomy and independence by putting responsibility for the learning path in the hands of students by imparting to them skills, and the basis on how to learn a specific subject and schemata required to measure up to the specific performance requirement. Student-centered instruction focuses on skills and practices that enable lifelong learning and independent problem-solving. Student-centered learning theory and practice are based on the constructivist learning theory that emphasizes the learner's critical role in constructing meaning from new information and prior experience.The Department of English provide an effective platform for students to develop latest skills, knowledge attitude and values to shape their behavior in the correct manner.The department conducts various student centric activities throughout the year. Learning becomes more experiential, participatory and socialistic by organizing activities like group discussions.

I EXPERIENTIAL LEARNING:

1.1 RESEARCH ACTIVITIES:

Research activities are conducted in each Department under the guidance of senior faculty where the students of different semester get knowledge about emerging area and them to promote in Research aptitude.



1.2 SEMINARS:

- To enhance the teaching/ technical delivery skills among individual students' seminar sessions are arranged. The Choice of the seminar topic is done in such a manner that certain topics post-lecture requires a marginal change for the consecutive concepts.. Benefits associated with seminars, include opportunities to:
- Learn ideas from peers
- Clarify the complex concepts.

II PARTICIPATIVE LEARNING:

2.1 ROLE PLAY:

Role play excercises give students the opportunity to assume the role of person or act out a given situation. These roles can be performed by individual students, in pairs, or in groups which can play out a more complex scenario**:**

2.2 CASE DISCUSSION:

University follows the discussion methods in many of the subjects as it makes the students to think wide and participate in coming up with the opinions and suggestions to check their current knowledge. Discussions are held basically in soft skills, communications etc.

2.3 DEBATES:

Debates are followed in many of the subjects where students are required to come with different opinion thought processes thus the learning process gets justified in the argue mental way of learning.

2.4THINK PAIR SHARE:

The Think-pair-share activity gives the opportunity to feel the students more comfortable sharing their thoughts. It is a collaborative learning strategy where students work together to solve a problem or answer a question about an assigned reading.

III PROBLEM-SOLVING LEARNING:

3.1 PROBLEM SOLVING METHODOLOGY:

In English department Tutorial classes, Projector classes online classes are conducted by our faculty members for the subjects Grammar, Poetry and Research Methodology etc.

Department of Physics
2021-2022

Participating learning

One sort of qualitative research that can be used to get a comprehensive understanding of a education or student ability is called Participatory Learning. In projects involving students, it is frequently utilized. Because PLA is a participatory methodology, students should always be fully and actively involved in its execution. PLA's primary goal is to assist the students in analyzing their education and knowledge rather than having outsiders do so, and to make sure that any knowledge gained is put into practice.

Experiential learning

Experiential Learning is the process of learning by doing. By engaging students in hands-on experiences and reflection, they are better able to connect theories and knowledge learned in the classroom to real-world situations.

Experiential learning opportunities exist in a variety of course- and non-course-based forms and may include community service, service-learning, undergraduate research, study abroad/away, and culminating experiences such as internships, student teaching, and capstone projects, to name a few.

GANESAR COLLEGE OF ARTS AND SCIENCE

DEPARTMENT OF SOCIAL WORK

Academic year 2021-22

PARTICIPATORY METHOD

The department of social work started the Mary Richmond club. The main motto of this club is to develop the internal and external skill. The social work trainees presented and participated in this club to show their skills. And the department organized the catharsis programme. In this programme the trainees express their skills and cope up the confidence.

Department of Tamil

HARMONIZING HERITAGE: BOW SONGS AS EXPERIENTIAL LEARNING IN FOLKLORE STUDIES

In our Postgraduate Tamil Department, where Folklore holds a vital place, the teacher employed an ingenious method to deepen students' comprehension: practicing Bow Songs. This unique approach marries ancient storytelling with modern pedagogy, immersing students in the melodic tales of Bow Song, enhancing their understanding of folklore. The teacher's guidance through this practice harmonizes tradition with contemporary learning, fostering a deeper connection between students and the cultural heritage embedded within Bow Songs.

COMPUTER-ASSISTED LANGUAGE LEARNING (CALL)

Within our department, our English teacher employs a unique pedagogical method using laptops, dividing students into groups of ten for interactive learning. Students engage in listening to visual conversations, sequentially expressing their understanding first in their regional language and subsequently in English. This approach serves as a catalyst for multifaceted development, not only nurturing English speaking skills but fostering collaborative learning. Through small group interactions, students delve deeper into language nuances, cultivating a supportive environment for collective problem-solving and comprehension. The method's sequential structure, starting with the regional language and progressing to English, acts as a scaffold, bolstering confidence and easing language barriers. Furthermore, it champions cultural exchange, promoting respect for linguistic diversity while empowering students to navigate different linguistic landscapes, thereby cultivating a more inclusive and enriched educational setting.

DIGITALLY DISCOURSING NANNUL: FOSTERING UNDERSTANDING THROUGH COLLABORATIVE DIALOGUES

Group discussions integrated as an ICT method in our teaching approach have proven instrumental, especially in subjects like Nannul. By assigning specific topics from Nannul, we encourage students to engage in collaborative discussions within their groups. This approach fosters a dynamic exchange of ideas, allowing them to dissect intricate points, interpretations, and applications of the subject matter. Leveraging technology, we utilize digital forums or video conferencing tools to facilitate these discussions, enabling participation regardless of physical proximity. These group dialogues not only encourage active learning but also promote critical thinking, enhancing students' understanding of the complexities inherent in Nannul. Through this ICT-enabled approach, students harness the collective wisdom of their peers, enriching their comprehension of this intricate subject matter.

LANGUAGE FLUENCY CHALLENGE: ‘ENNODU TAMIL PESUNGAL’ COMPETITION REVOLUTIONIZING LANGUAGE SKILLS THROUGH ICT

Our innovative teaching methodology incorporates an ICT-driven competition known as “Ennodu Tamil Pesava,” encouraging students to communicate exclusively in pure Tamil. This competition serves as a pivotal platform for refining language skills, compelling participants to articulate their thoughts, ideas, and expressions solely in the Tamil language, excluding any trace of English or other South Indian language words. Leveraging technology, we facilitate this competition through digital platforms, ensuring widespread participation and providing a stage for students to engage in this linguistic challenge. Through this ICT-enabled approach, students not only enhance their Tamil language proficiency but also develop a deeper appreciation for linguistic purity and cultural heritage. The competition fosters an environment that nurtures language fluency, reinforcing the significance of effective communication skills within the realm of our rich Tamil linguistic tradition.

MULTIMEDIA-ENHANCED PUBLIC SPEAKING

Every week, our department's literary association, known as Nanery Kalagam, , harnesses ICT tools like projectors, microphones, and podiums for students to showcase their talents through skits, monologues, debates, and poetry readings. These activities are designed to bolster their public speaking skills. In fact, our esteemed alumni often laud this practice as exceptional because it helps in conquering stage fright. Many of our former students, now esteemed educators and professors, view this approach as a remarkable way to foster literary knowledge. Additionally, as part of our commitment to recognizing and encouraging excellence, Nanery Kalagam acknowledges the best performers each month by awarding prizes. To fund these awards, we collect contributions from the department of Tamil faculties, ensuring that our appreciation for outstanding talent is celebrated regularly. It's a point of pride that we've upheld this tradition for over a century, evolving alongside technological advancements, starting from the college's inception and adapting with new tools like ICT.

GANESAR COLLEGE OF ARTS AND SCIENCE,
MELAISIVAPURI.
DEPARTMENT OF COMMERCE
2022 - 2023

PROBLEM SOLVING LEARNING

The department of commerce PG Students has been participated in the problem solved learning, information technology lab IN THE YEAR 2022 to 2023. The commerce faculty member has been explained, how to solve that problems.

GANESAR COLLEGE OF ARTS AND SCIENCE,
MELAISIVAPURI.
DEPARTMENT OF COMMERCE
2022 - 2023

PARTICIPATED LEARNING

The department of commerce UG Students has been participated in the Participative learning, in our college library through group discussion. In the year 2022 to 2023. The students have been discussed current scenario about human resource technologies.

GANESAR COLLEGE OF ARTS AND SCIENCE

Accredited with "B" Grade by NAAC

Melasivapuri - 622403, Pudukkottai district, Tamilnadu - India

Report on Teaching Method for the Academic Year 2022-2023

PPT presentations

Subject : ENTREPRENEURIAL DEVELOPMENT

With the right teaching methods, educators can create an enjoyable and productive classroom experience for students where they can learn important academic and social skills to last a lifetime.

Power point presentation.

HOD.
Head
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Participative Learning

Students presentation.

A presentation is a channel for students to share with others what they have learned. It is also a chance to challenge and expand on their understanding of the topic by having others ask questions.

HOD.
Head
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MELASIVAPURI - 622 403

Experiential Learning

Teaching **ENTREPRENEURIAL DEVELOPMENT**

The profession of those who give instruction, especially in an elementary school or a secondary school or in a university.

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Experiential Learning

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CSIR NET

Important Preparation Tips for CSIR NET Mathematical Sciences Exam

As per the CSIR NET exam pattern, the Mathematical Sciences exam is divided into 3 parts- Part A, B and C for 120 questions. Some of the important topics of the CSIR NET Mathematical syllabus are- Linear Algebra, Complex Analysis, Ordinary Differential Equations, Partial Differential Equations, Classical Mechanics etc. In this article, we have discussed some of the best CSIR NET Mathematical Sciences preparation tips below that will for sure candidates while preparing for the exam.

S.No	CSIR NET Mathematics Syllabus (Part B & Part C)
Unit 1	○ Analysis ○ Linear Algebra
Unit 2	○ Complex Analysis ○ Algebra
Unit 3	○ Ordinary Differential Equations (ODEs) ○ Partial Differential Equations (PDEs) ○ Numerical Analysis ○ Calculus of Variations ○ Linear Integral Equations ○ Classical Mechanics
Unit 4	○ Descriptive Statistics, Exploratory Data Analysis

MOCK TEST USING MOBILE

Mock tests basically are practice papers that are prepared purely based on the latest exam pattern and syllabus of the respective examination. These are a simulation of actual exams practicing which aspirants can gauge their actual potential.

Mock test are practice tests that are designed to be similar to actual exams. They are used to help students prepare for exams by giving them the opportunity to practice answering questions under similar conditions to the actual exam.

Mock tests can be used to familiarize students with the online exam platform, as well as to help students identify areas where they need to improve their knowledge or skills.

Some advantages of mock tests include:

1. They can help students to better understand the format and content of the actual exam.
2. They can help students to identify their strengths and weaknesses.
3. They can help students to develop good test-taking strategies.
4. They can help students to manage their time effectively during the exam.

STATICS-FORCE ACTIVITY

Force is an external agent capable of changing a body's state of rest or motion. It has a magnitude and a direction. The direction towards which the force is applied is known as the direction of the force, and the application of force is the point where force is applied.

2.3.1 Experiential Learning

"Real-world" experience is a great way to enhance classroom material. It brings to life the things you learn and gives them a chance to breathe with real-world applications. It also gives you a chance to appreciate both the importance and the limitation of theory ... not everything works out as neatly as it says in the book! But with a solid scientific foundation, you are better able to evaluate and adapt, gaining greater insight into the process of software and systems development.

Computer Graphics (CRT Monitor)

Digital Electronic Lab

Participative Learning

The aim has been to explore the students' relationship to their field of study and how it changes as the students engage in their studies. Interviews were conducted in which the students reflected on their interests and experiences with CS prior to and during their studies, as well as on their future career. Informed by social identity theory, the focus has been to analyse and describe students' experiences of participation in their field of study, i.e. doing, thinking, and feeling, in relation to CS, negotiated among different people, and to discuss learner trajectories based on the insights into participation.

GANESAR COLLEGE OF ARTS & SCIENCE, MELAISIVAPURI

(Affiliated to Bharathidasan University, Tiruchirappalli-24)

DEPARTMENT OF ENGLISH -2022-2023

STUDENT CENTRIC METHOD

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1.1 Seminars:

- To enhance the teaching/ technical delivery skills among individual students' seminar sessions are arranged. The Choice of the seminar topic is done in such a manner that certain topics post-lecture requires a marginal change for the consecutive concepts.aaa

1.2 SMART CLASS ROOM:

Faculties are using SMART CLASS room to interactive session project is used for demonstration, video and audio methods.

1.3 RESEARCH ACTIVITIES:

- Research activities are conducted in each Department under the guidance of senior faculty where the students of different semester get knowledge about emerging area and them to promote in Research aptitude.
- traditional paper mode. The scores are recorded for assessing the student's understanding of the concepts.

II PARTICIPATIVE LEARNING:

2.1 ROLE PLAY:

Role play excercises give students the opportunity to assume the role of person or act out a given situation. These roles can be performed by individual students, in pairs, or in groups which can play out a more complex scenario.

2.2 CASE DISCUSSION:

University follows the discussion methods in many of the subjects as it makes the students to think wide and participate in coming up with the opinions and suggestions to check their current knowledge. Discussions are held basically in soft skills, communications etc.

III PROBLEM- SOLVING METHOD:

3.1 PROBLEM SOLVING METHODOLOGY:

In English department Tutorial classes, Projector classes online classes are conducted by our faculty members for the subjects Grammar, Poetry and Research Methodology etc.

Department of Physics
2022-2023

Participating learning

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Experiential learning

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Experiential learning opportunities exist in a variety of course- and non-course-based forms and may include community service, service-learning, undergraduate research, study abroad/away, and culminating experiences such as internships, student teaching, and capstone projects, to name a few.

GANESAR COLLEGE OF ARTS AND SCIENCE

DEPARTMENT OF SOCIAL WORK

Academic year 2022-23

PARTICIPATORY METHOD

EXPERIENTIAL METHOD

The department of social work organized to collect the data from the tribal society to know their economic status of tribes and also conducted the give awareness on education. .The social work student gained the experiential and participatory learning through their social work activities. This kind of learning was useful to the students for their future implementation.

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GANESAR COLLEGE OF ARTS AND SCIENCE

Department of Fashion Technology and Costume Designing

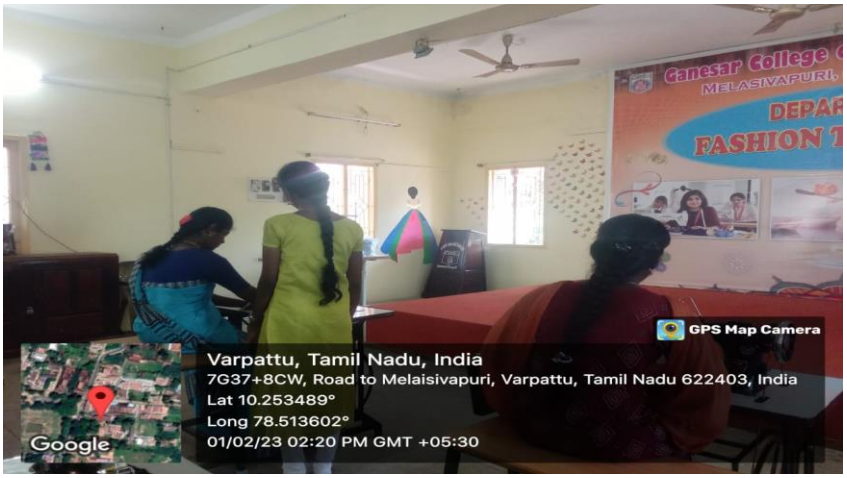
STUDENT CENTRIC METHOD

A Student Centric Method approach can be employed to foster increased student engagement within the framework of Participative learning, Experiential learning and Problem solving method. Role Plays, Team work, Debates, Seminar and Quizzes. Specially Student Centric Method are exemplified in the Project work, Field work, Industrial visit and Analysis and Reasoning

1. **Experiential Learning**

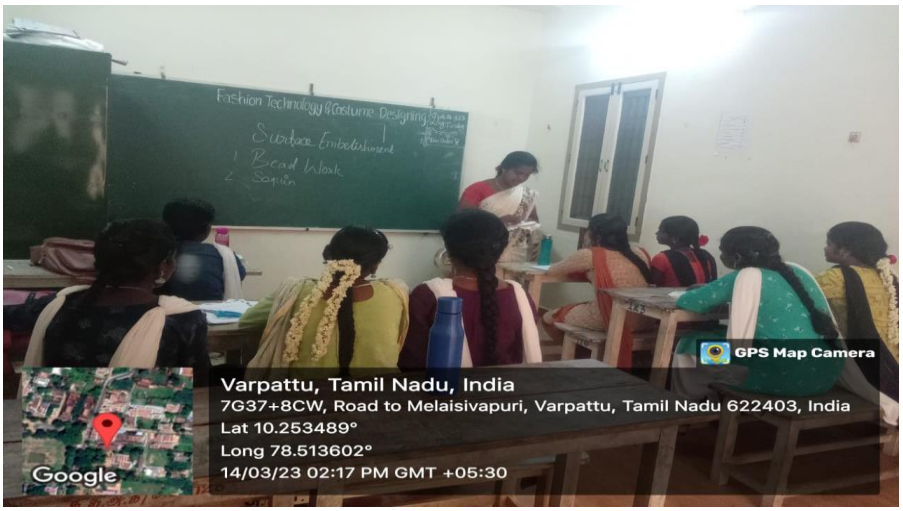
1.1 Departmental Laboratories

- A range of design and apparel laboratories are available for students to acquire knowledge and enhance their skills in the latest techniques.
- For instance, the lab focusing on basic sewing skills ensures that students develop and refine their abilities to meet industry standards. Embroidery serves as a means to convey concepts or add unique elements of texture to garments or fabrics.



1.2 Guest Lecture

- Students get new perspective and opinions that are often missed in a regular class and actively join in a more convenient way of teaching.



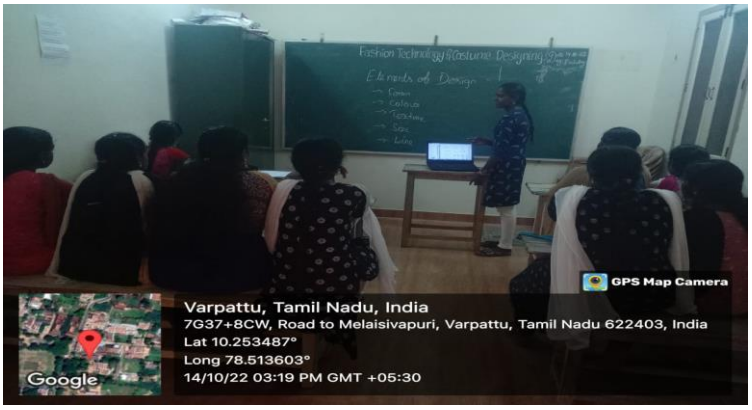
2. Participative Learning

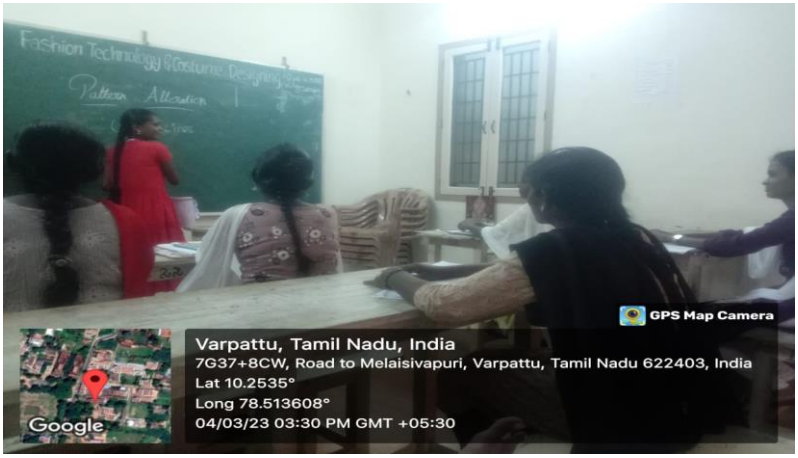
2.1 Group Discussion

- Group discussions promote a deeper understanding of a topic and increase long-term attention.
- After completing each unit, the students engage in group discussions where the topics and accumulate the notes and discussions.

2.2 Student Seminar

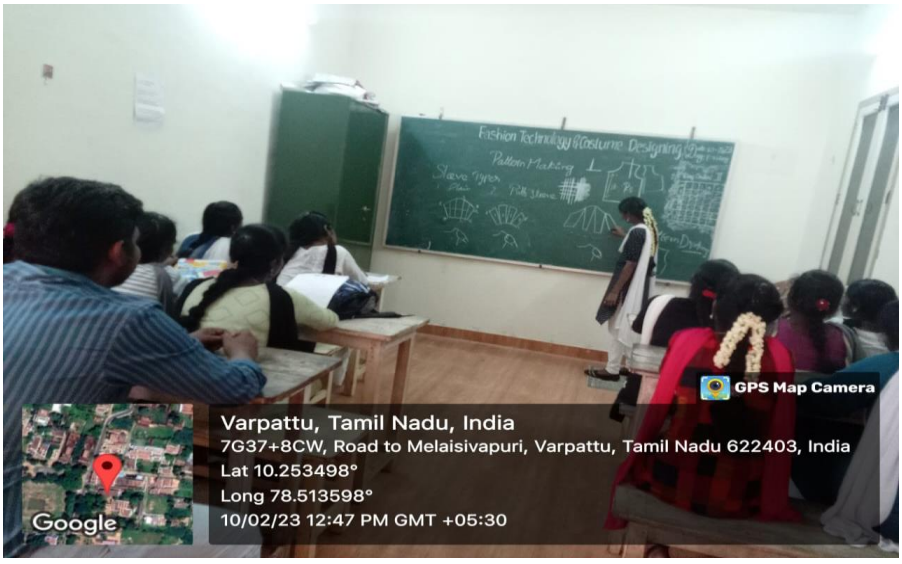
- Students make the PDF or Power point presentation for the particular topics and discuss during the class. It including improving communication skills, gaining knowledge and renewing motivation and confidence.

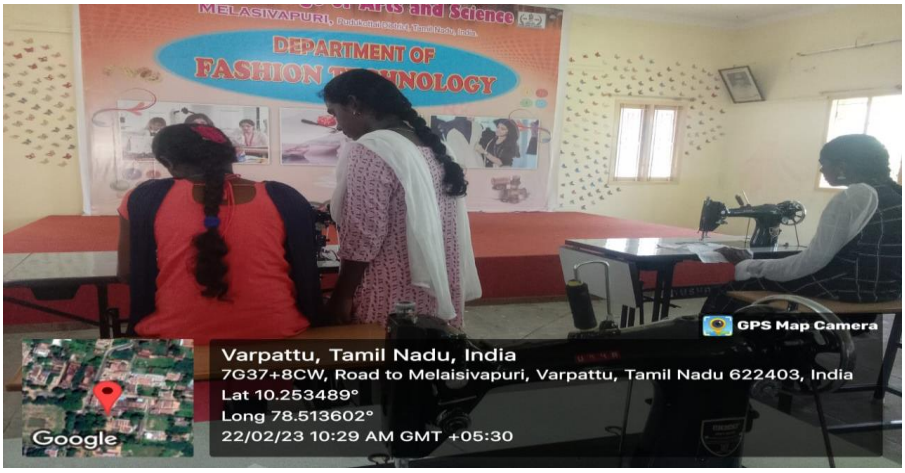




2.3 Peer Learning

- Peer learning is a method that helps students solidifies their knowledge by teaching each other.
- It is highly used for practical classes one student clear the doubts to another one.





3. Problem-Solving Method

3.1Analysis and Reasoning

- At the conclusion of the every unit, it is recommended that a set of 25 single-pointed questions be distributed to all students.
- In order to answer the questions, students should use in the library resources such as reference books and internet.