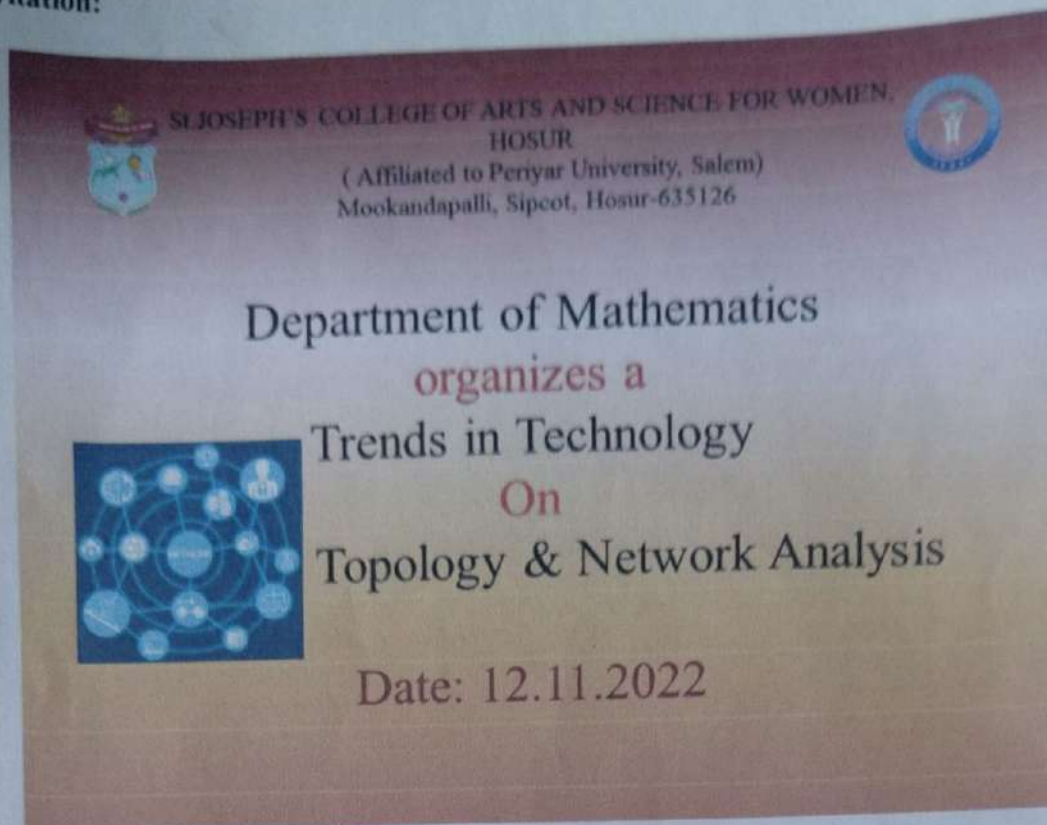


# Report for Topology and Network Analysis

## -Trends in Technology(2022-2023)

### Invitation:



Date : 12.11.2022

Resource Person : Mrs.T.Mahalakshmi  
Assistant Professor,  
Department of Commerce,  
St. Joseph's College of Arts and Science for  
Women,  
Hosur

Class : III B.Sc (Maths)

No of Beneficiaries : 16

### Report:

Mrs.T.Mahalakshmi, an Assistant Professor in the Department of Mathematics, delivered an insightful presentation on the intricate concepts of Topology and Network Analysis. Her expertise and comprehensive understanding of the subject matter were evident throughout the session. The presentation was enriched with real-world examples showcasing the practical implications of topology and network analysis. From the study of biological systems to the functioning of social networks, She illustrated how these mathematical concepts find relevance in diverse domains.

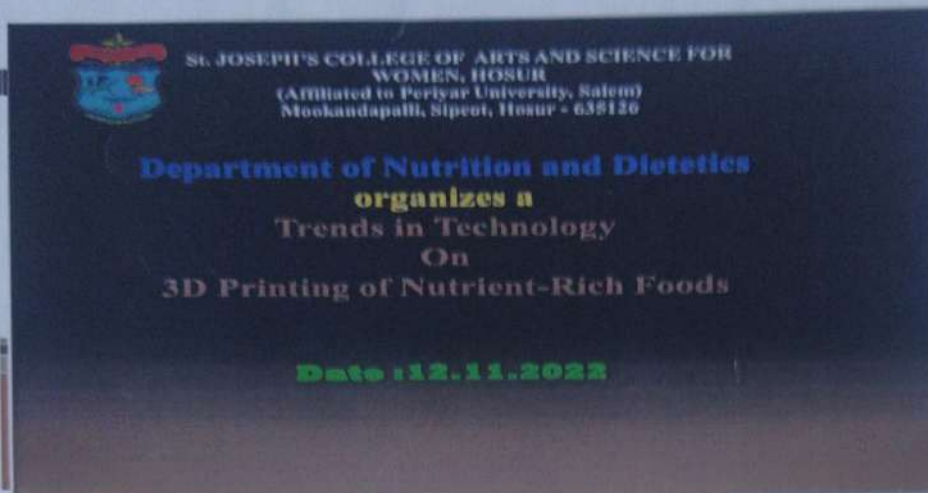






## REPORT FOR WORKSHOP ON 3D-PRINTING OF NUTRIENT RICH FOODS – TRENDS IN TECHNOLOGY (2022-2023)

### Invitation:



Date : 12.11.2022

Resource Person : Mrs.R.Prailin,  
Assistant Professor,  
Department of Nutrition and Dietetics,  
St. Joseph's College of Arts and Science for Women, Hosur.

Class : II B.Sc Nutrition and Dietetics

No. of Beneficiaries : 16

### Report:

Department of Nutrition and Dietetics organized trends in technology workshop on 3D-printing of nutrient rich foods. Mrs.R.Prailin, Assistant Professor, Department of Nutrition and Dietetics was the resource person of the workshop. The workshop on 3D printing of nutrient-rich foods showcased the innovative intersection of technology and nutrition. Students explored the capabilities of 3D food printing in creating customized, nutritious meals. Discussions highlighted advancements in food materials, printing techniques, and the potential impact on personalized nutrition. Practical demonstrations illustrated the process of designing and printing nutrient-dense foods, emphasizing the fusion of culinary artistry with health-focused innovation. The workshop aimed to revolutionize food production, offering insights into the future of tailored nutrition through 3D printing, encouraging exploration and adoption of cutting-edge technologies in the realm of healthy eating.



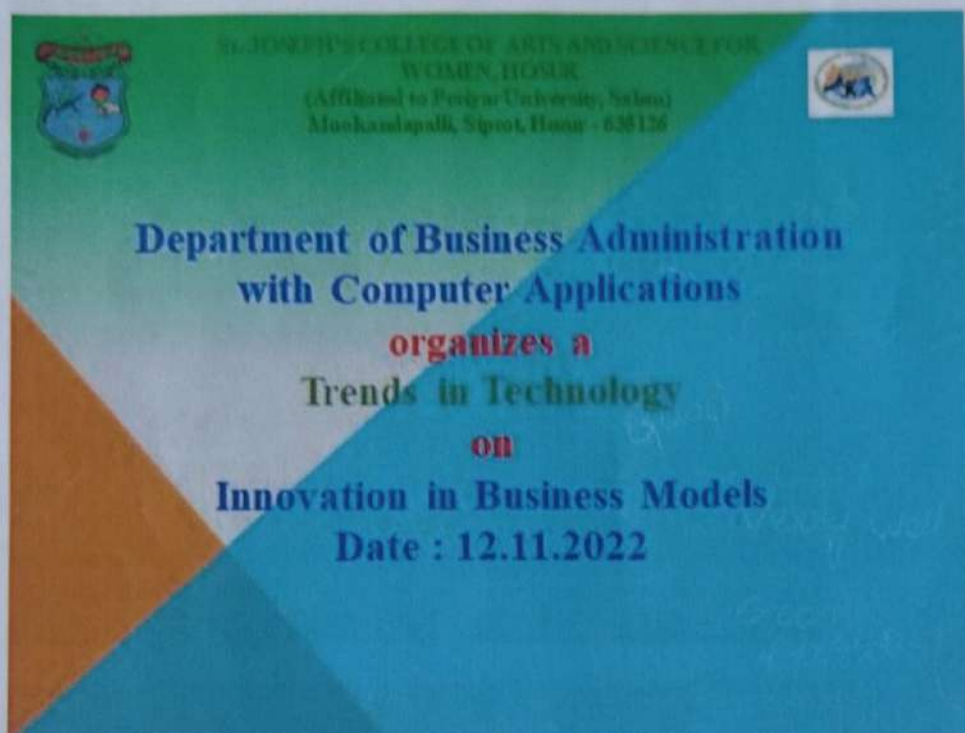
Photos:





# Report for Innovation in Business Models – Trends in Technology (2022-2023)

## Invitation:



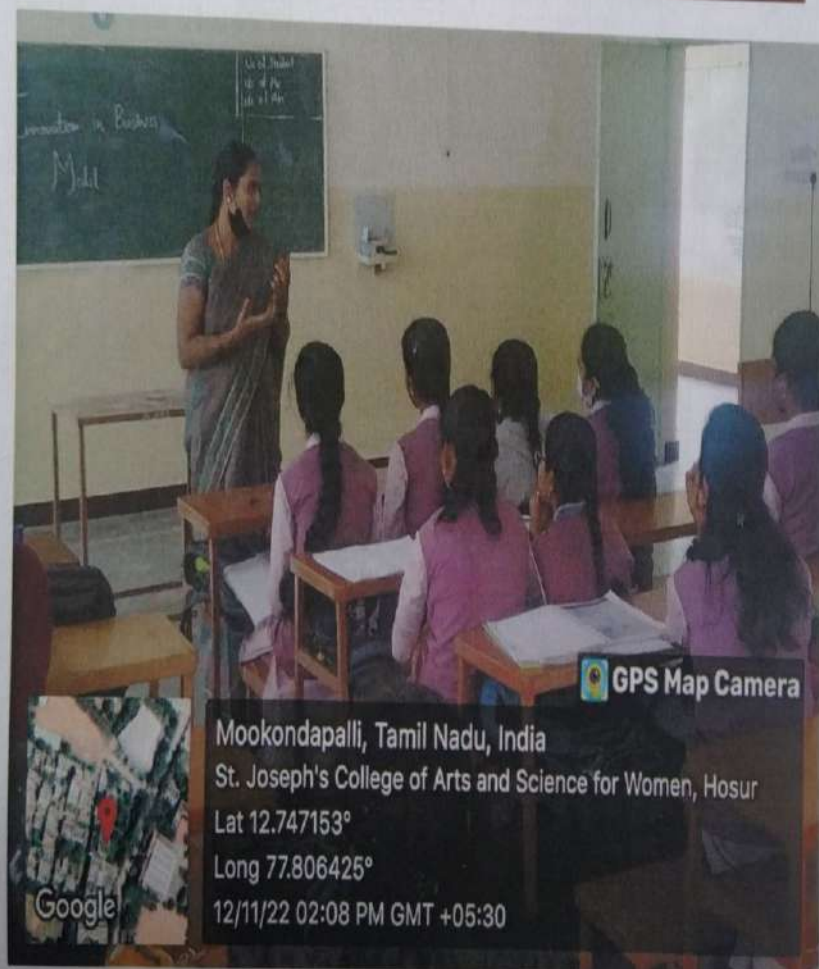
Date	:	12.11.2022
Resource Person	:	Mrs. Magila.C Assistant Professor, Department of BBA (CA) St. Joseph's College of Arts and Science for Women, HOSUR
Class	:	III – BBA (CA)
No of Beneficiaries	:	33

## Report:

Mrs. Magila led an insightful discussion on the latest technology trends, focusing on innovation in business models. The session explored how disruptive technologies, such as block chain and IoT, are reshaping traditional business structures. Students gained insights into the importance of embracing digital transformation for sustained competitiveness. Mrs. Magila highlighted real-world examples of businesses adapting to these trends and encouraged III BBA (CA) students to think innovatively about future business models. The session aimed to instil a forward-thinking mind-set, preparing students to navigate the dynamic landscape of technology-driven business innovation.



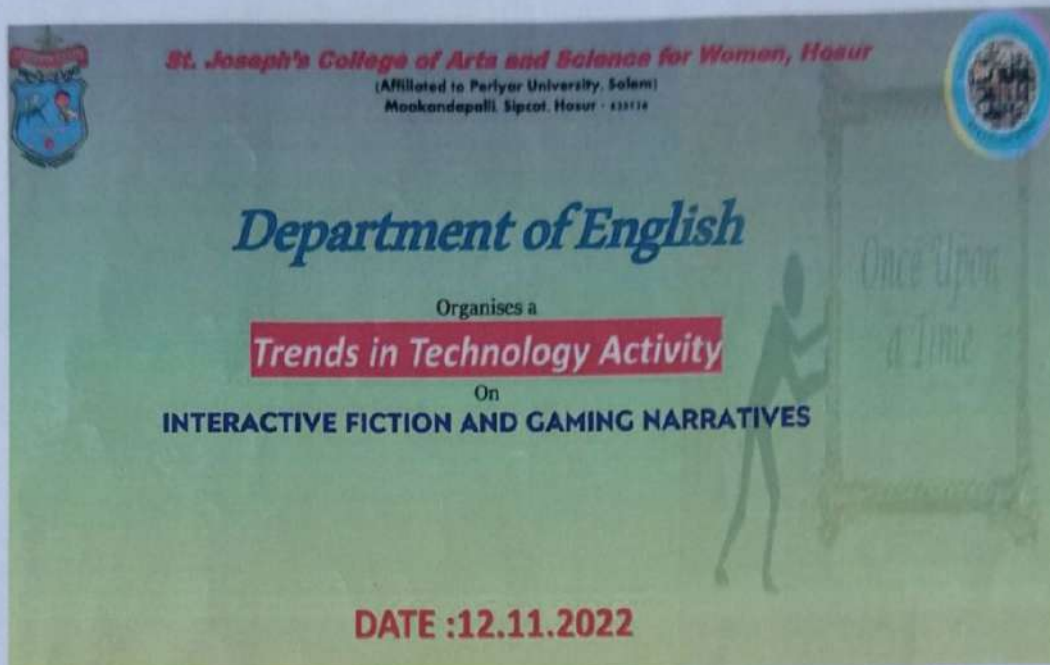
**Photos:**





## Report for Interactive Fiction and Gaming Narratives – Trends in Technology (2022-2023)

Invitation:



Date : 12.11.2022

Resource Person: : Dr. L. Jennifer  
Assistant Professor,  
Department of English,  
St. Joseph's College of Arts and Science for Women,  
Hosur.

Class : I B.A (English)

No of Beneficiaries : 39

### Report:

The Trends in Technology activity on Interactive Fiction and Gaming Narratives, conducted for I B.A (English) students by the Department of English, featured Dr. L. Jennifer, an Assistant Professor in the department, as a resource person. The session delved into the dynamic intersection of technology and storytelling, exploring the evolution of interactive fiction and gaming narratives. Dr. L. Jennifer illuminated emerging trends, emphasizing the fusion of traditional narrative structures with cutting-edge technology. Students gained insights into the role of artificial intelligence, virtual reality, and immersive experiences in shaping contemporary storytelling. Dr. L. Jennifer's expertise provided a comprehensive understanding of the evolving landscape, equipping students with valuable knowledge to navigate the synthesis of literature and technology. The event proved instrumental in



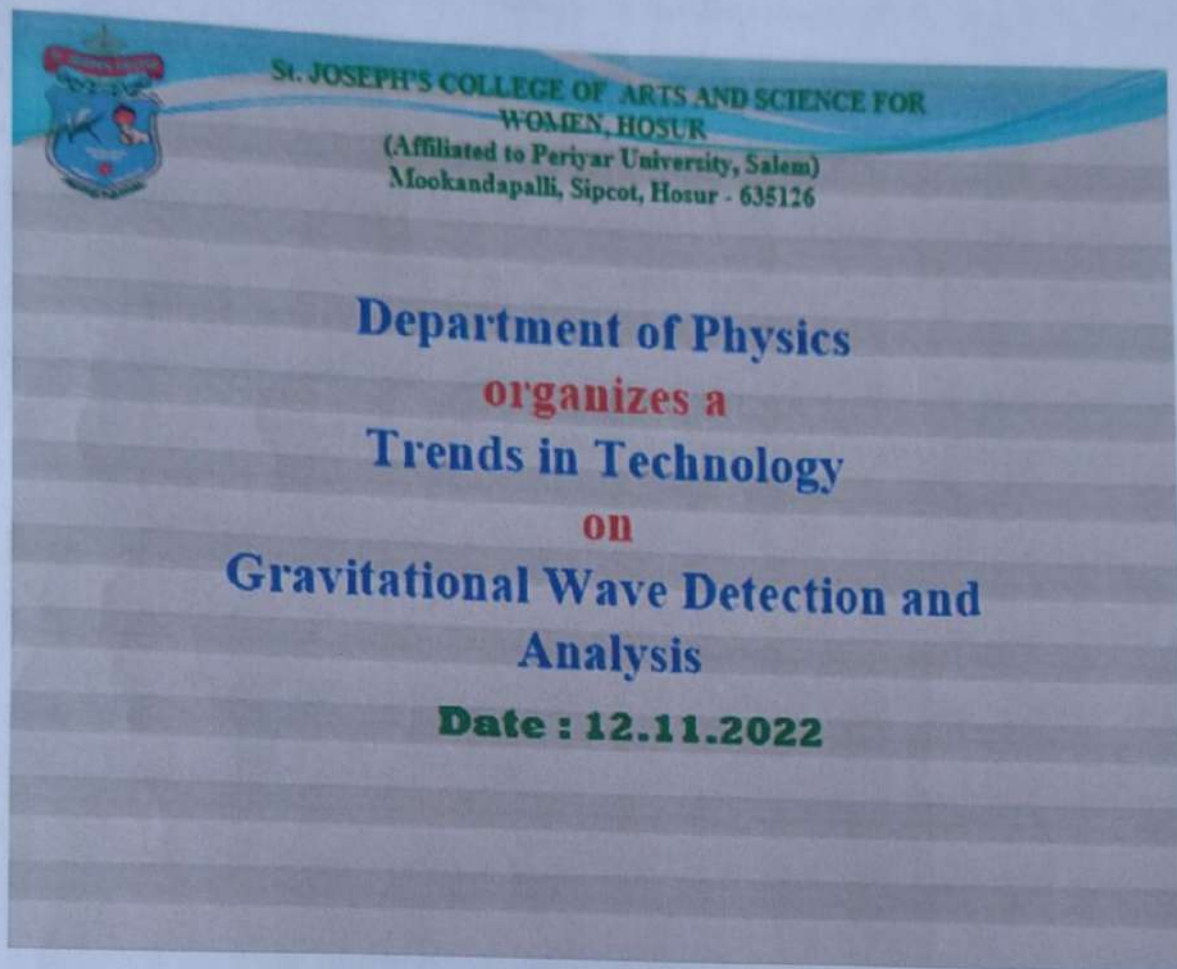
fostering a deeper appreciation for the symbiotic relationship between technology and narrative in the realm of interactive fiction and gaming.





**Report for Gravitational wave detection & analysis**  
**(2022-2023)**

Invitation:



Date : 12.11.2022

Resource Person : T. SIVAPRIYA

Assistant Professor

Department of Physics,

St. Joseph's College of Arts and Science for Women,  
Hosur.

Class : III – B.Sc Physics

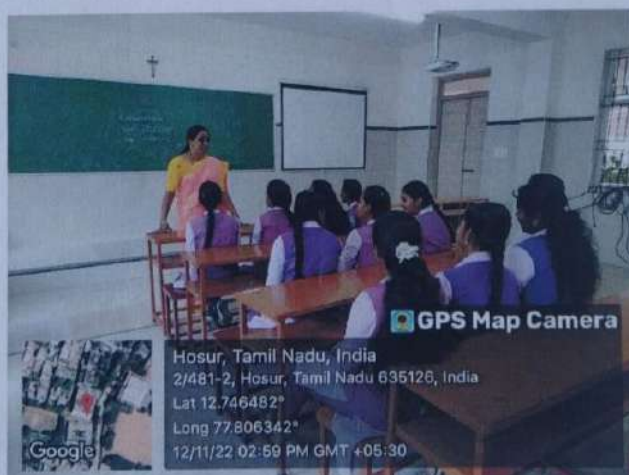
No of Beneficiaries : 11



### Report:

Mrs. T. Sivapriya, Assistant Professor in the Department of Physics, delivered a compelling report on trends in technology, specifically focusing on gravitational wave detection and analysis. Addressing third-year B.Sc Physics students, Mrs. Sivapriya elucidated the groundbreaking advancements in detecting and analyzing gravitational waves. The report explored the significance of gravitational wave astronomy, discussing recent breakthroughs and future prospects in the field. Students gained insights into the innovative technologies behind gravitational wave detectors, such as LIGO and Virgo, and how they are unraveling previously unexplored aspects of the cosmos. Mrs. Sivapriya's presentation underscored the transformative impact of gravitational wave research on our understanding of the universe

### Photos:





**Reports on Cyber Security in Business protecting: Trends in Technology**  
**Academic Year 2022-23**

**Invitation**



Date	:	26.11.2022
Resource person	:	Mrs.N.Vadivu Assistant professor Department of commerce St.Joseph's college of Arts & science for women, Hosur
Class	:	I B.COM CA B
No. of Beneficiaries	:	57

**Report**

Globally, the use of social media, Cloud storage, digital downloads, an increase in devices and online and mobile payments are all contributing factors to the rise in cybercrime. There is no shortage of consumer financial and personal data, and hackers are becoming more adopt at obtaining it. Mrs. N.Vadivu, Assistant professor in the Department of Commerce, adorn the students with the knowledge to update the students about cyber security and it helped the students to properly use their artificial intelligence.

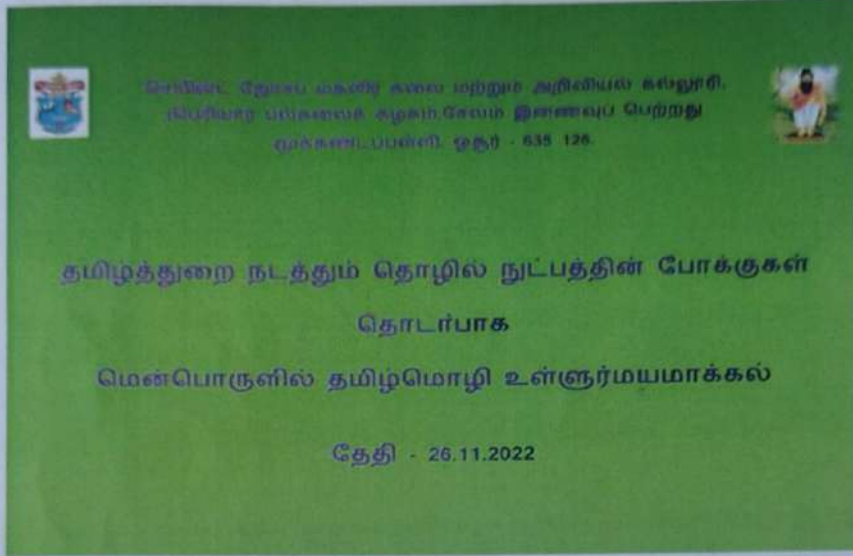


Photos:





தொழில் நுட்பத்தின் போக்குகள் - மென்பொருளில்  
தமிழ்மொழி உள்ளூர்மயமாக்கல்  
2022 - 2023  
அழைப்பிதழ்



தேதி

- 26.11.2022

சிறப்புரையாற்றியவர்

- திருமதி. ந.கனிமொழி,

உதவிப் பேராசிரியர், தமிழ்த்துறை,  
செயின்ட் ஜோசப் மகளிர் கலை

மற்றும் அறிவியல் கல்லூரி, ஓதூர்.

வகுப்பு

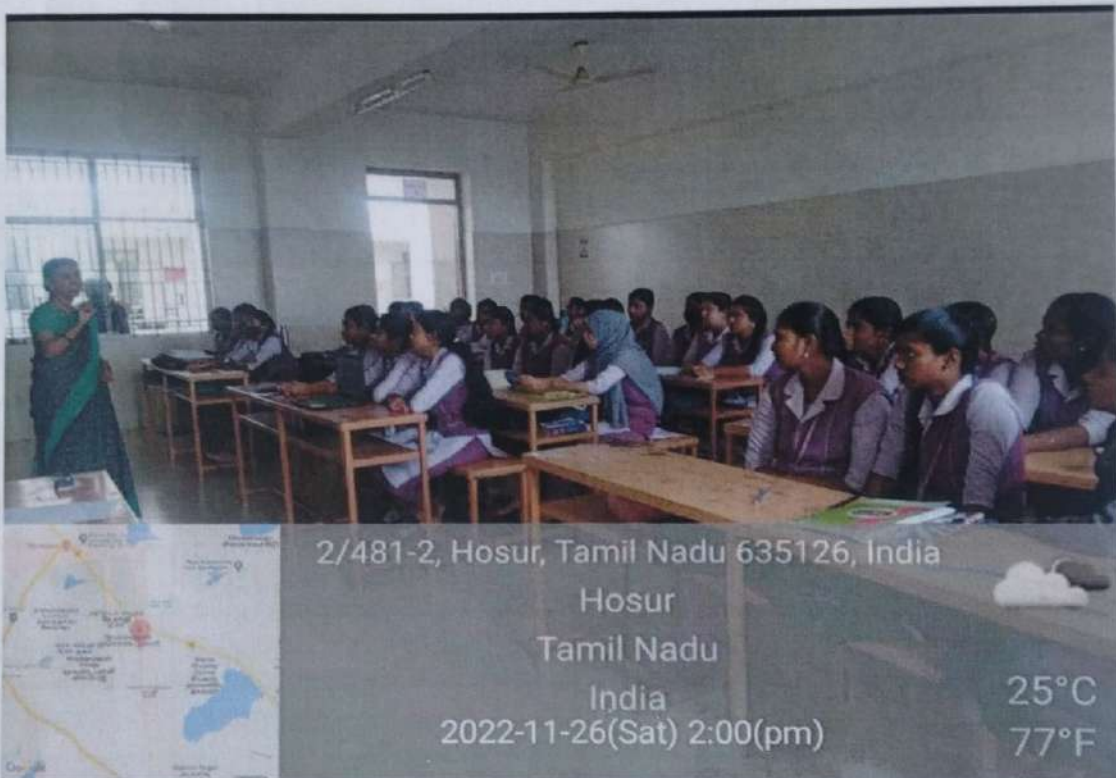
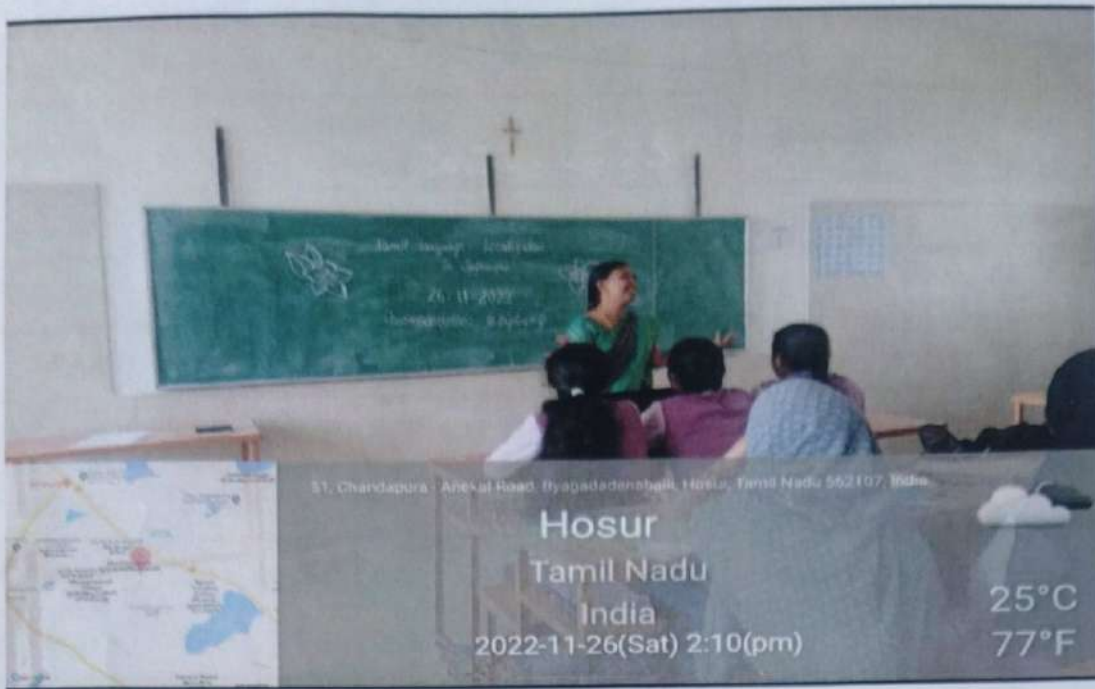
- I B.A (English)

மாணவிகளின் எண்ணிக்கை - 35

அறிக்கை

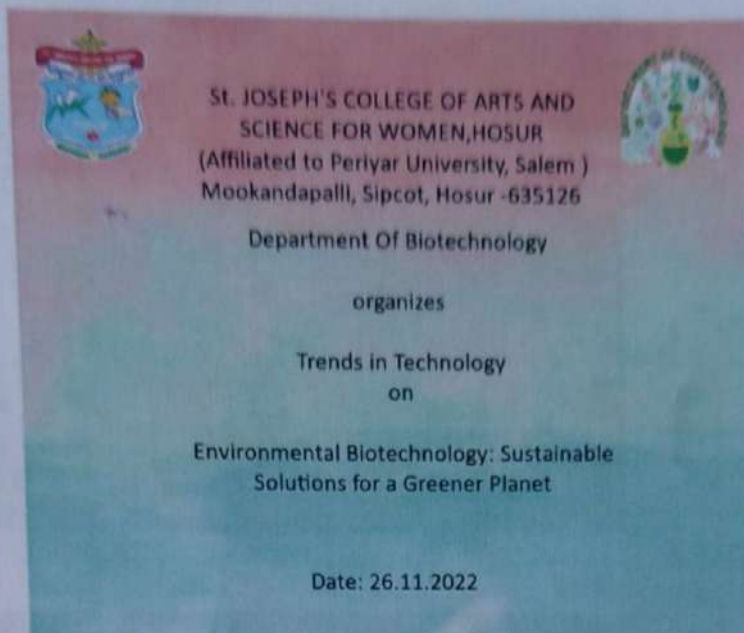
திருமதி. ந.கனிமொழி, உதவிப் பேராசிரியர், தமிழ்த்துறை, அவர்கள் வளர்ந்து வரும் தொழில்நுட்பத்தில் அனைத்து துறைகளிலும் தமிழ் மொழியானது கலைச் சொல்லாக்கத்தின் வாயிலாக ஓர் தனி இடத்தைப் பெற்றுள்ளதையும், இன்றைய கால சூழலில் மென்பொருள் துறையிலும் தனக்கென ஓர் அடையாளத்தை ஏற்படுத்தியிருப்பதையும் மாணவிகளுக்கு எடுத்துரைத்தார்.







**REPORT FOR TRENDS IN TECHNOLOGY ON ENVIRONMENTAL  
BIOTECHNOLOGY- SUSTAINABLE SOLUTION FOR A GREENER PLANET ON  
LIFE SKILLS (2022-2023)**



Date: 26.11.2022

Resource Person: Mrs. Margret Kanimozhi,  
Head of the Department of Biotechnology  
St. Joseph's College of Arts and Science for Women,  
Hosur

Class: III – B.Sc., Biotechnology

No of Beneficiaries: 41

**Report**

Mrs. Margret Kanimozhi, Head of the Department of Biotechnology, headed a session on Environmental Biotechnology- Sustainable solution for a greener planet for III – B. Sc (Biotechnology) students on 26.11.22. Speaking on the occasion, she discussed that consuming natural resources day by day on larger extent ultimately causes their stocks to cease in the earth's crust. She then explained about the environmental hazards like water pollution, air pollution, and depletion of ozone layer. She emphasised the need to find alternate resources to cope with the



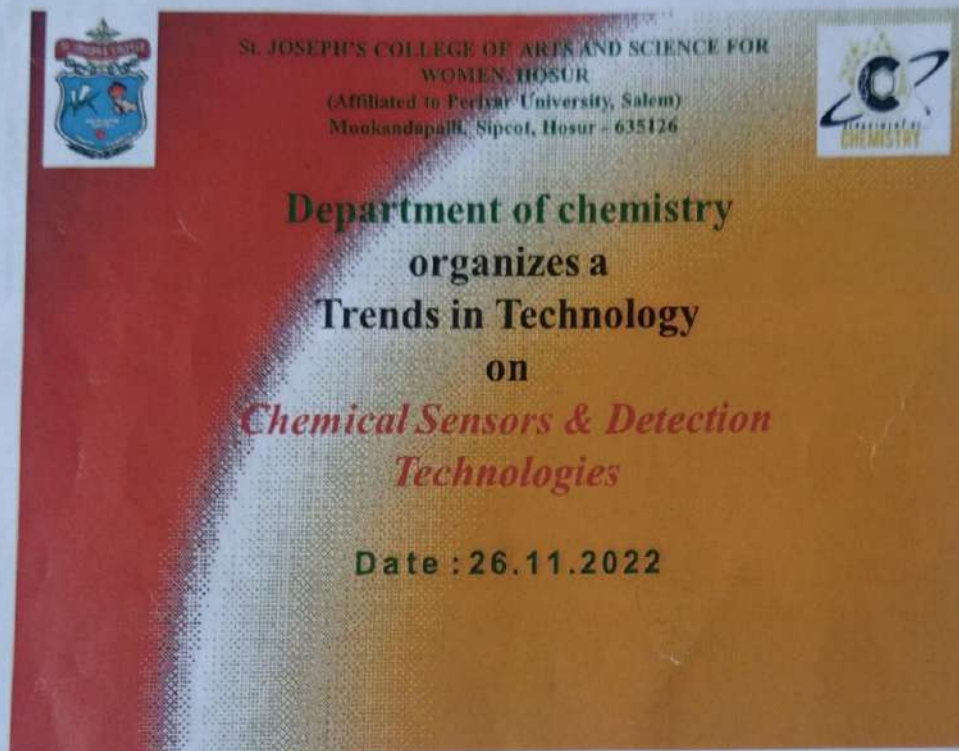
effects on environment. She advised the students to take Green initiatives to minimize the impact of human activities on environment.





# Report for Chemical Sensors and Detection Technologies - Trends in Technology (2022-2023)

## Invitation:



Date : 26.11.2022

Resource Person : Mrs.K.Lavanya  
Assistant Professor,  
Department of Chemistry,  
St. Joseph's College of Arts and Science for Women,Hosur

Class : III – B.Sc Chemistry

No of Beneficiaries : 29

## Report:

Mrs. Lavanya, Assistant Professor in the Department of Chemistry, presents an insightful report on the evolving landscape of Chemical Sensors & Detection Technologies. The report showcases innovations in sensor miniaturization, selective recognition elements, and real-time analysis methodologies. It emphasizes technology's role in enhancing sensitivity, selectivity, and portability of sensors across diverse applications. Addressing III B.Sc Chemistry students, this report aims to illustrate how technology drives the development of cutting-edge sensors, empowering precision in environmental monitoring, healthcare diagnostics, and industrial safety, fostering a deeper understanding of analytical methodologies critical for modern scientific endeavors.



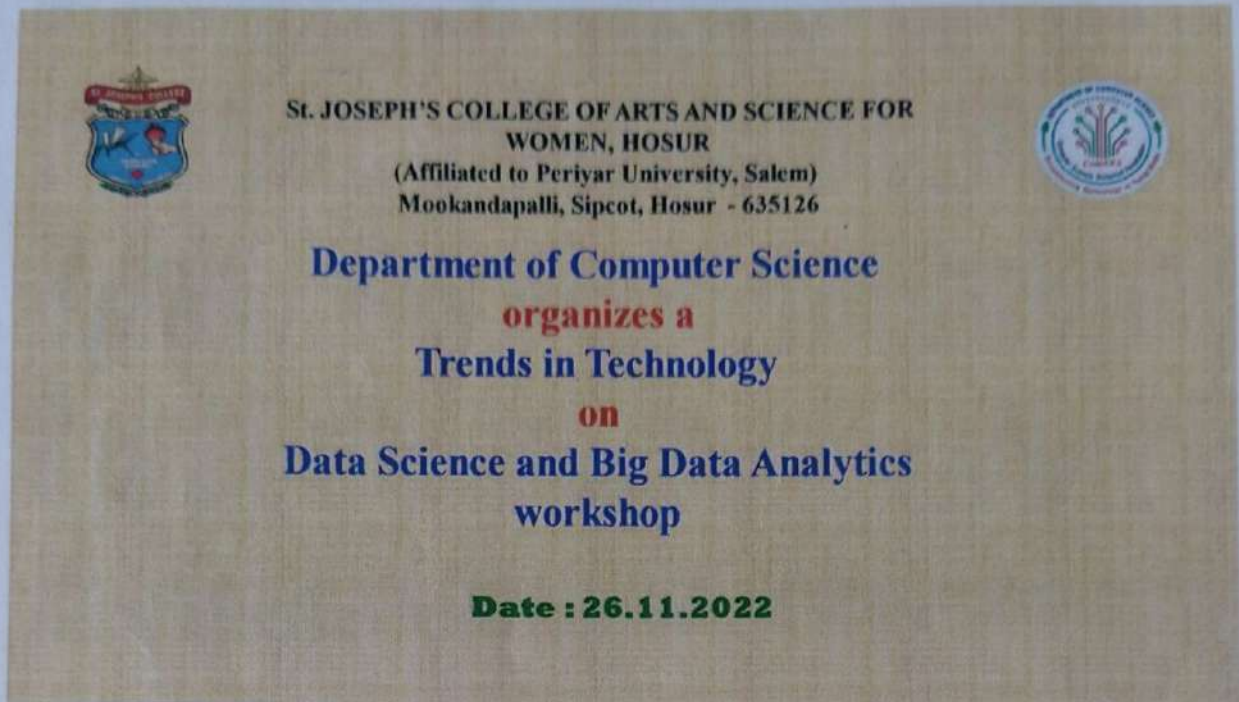
Photos:





# Report for Data Science and Big Data Analytics Workshop- Trends in Technology (2022-2023)

## Invitation:



Date : 26.11.2022

Resource Person : Gopinath. K  
Full Stack | DevOps | Automation | Data Engineering  
Bangalore-562107.

Class : III – B.Sc(CS)

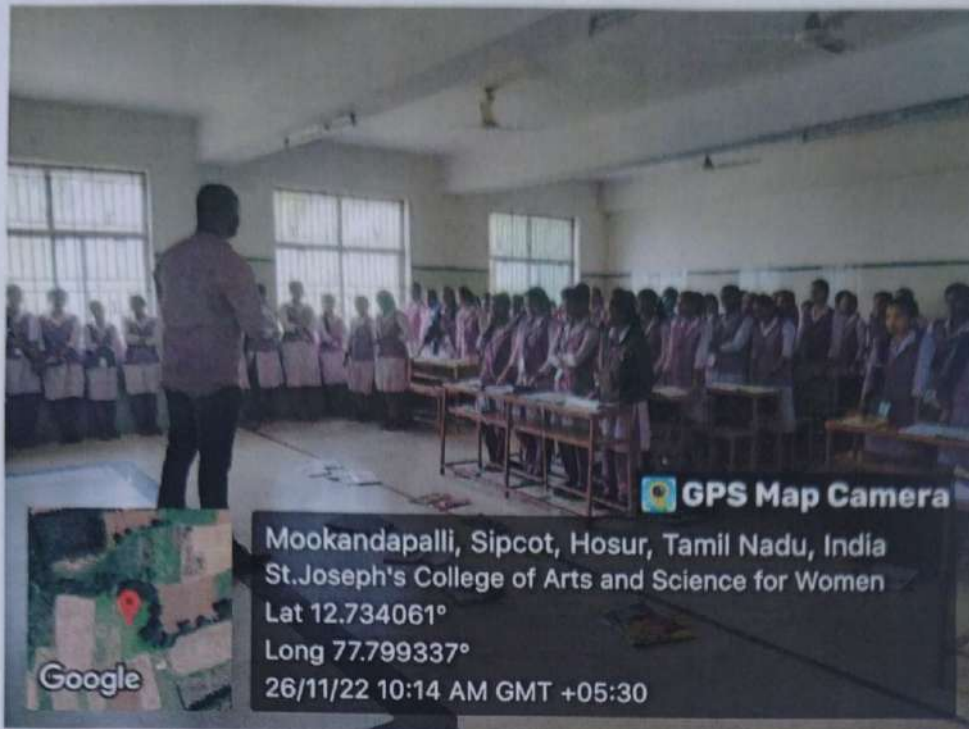
No of Beneficiaries : 36

## Report:

The workshop delved into 2023's data science advancements, emphasizing big data analytics' pivotal role. Students explored AI-driven insights, machine learning models, and cloud-based analytics frameworks. Real-time data processing and IoT integration showcased practical applications. Privacy and ethics in data handling emerged as crucial topics. Understanding the synergy between data engineering and DevOps methodologies became evident. The workshop urged III B.Sc CS students to grasp these trends, fostering a holistic approach to leverage data for innovation while prioritizing ethical considerations in technology's evolving landscape.



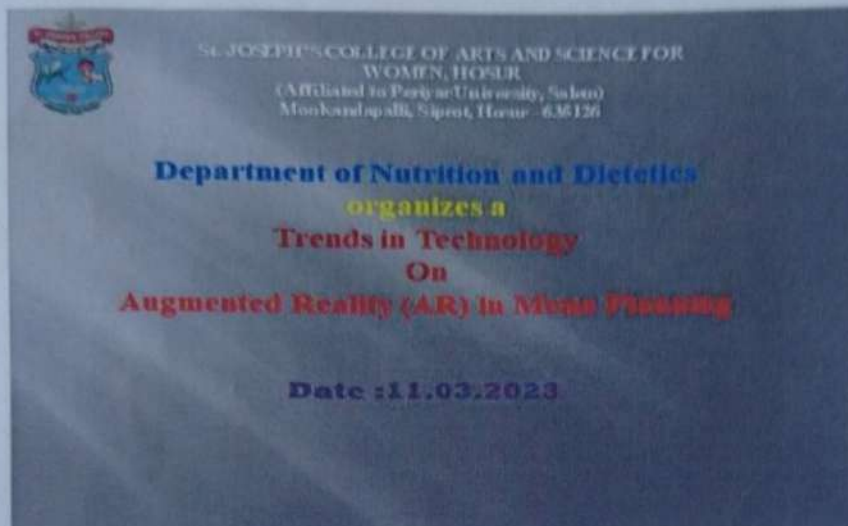
Photos:





## REPORT FOR WORKSHOP ON AUGMENTED REALITY (AR) IN MENU PLANNING – TRENDS IN TECHNOLOGY (2022-2023)

Invitation:



Date : 11.03.2023

Resource Person : Mrs.R.Prailin,  
Assistant Professor,  
Department of Nutrition and Dietetics,  
St. Joseph's College of Arts and Science for Women, Hosur.

Class : II B.Sc Nutrition and Dietetics

No. of Beneficiaries : 22

Report:

Department of Nutrition and Dietetics organized trends in technology workshop on augmented reality (AR) in menu planning. Mrs.R.Prailin, Assistant Professor, Department of Nutrition and Dietetics was the resource person of the workshop. The Augmented Reality (AR) in Menu Planning Workshop showcased innovative ways to revolutionize the culinary experience. Students explored the integration of AR technology in menu design and presentation. Practical demonstrations highlighted how AR enhances menu visualization, offering interactive and immersive dining experiences. Discussions focused on utilizing AR to display nutritional information, ingredient details, and meal customization options. The workshop aimed to empower culinary professionals with tools to craft engaging, informative menus, catering to diverse customer preferences. Students gained insights into leveraging AR to elevate the dining journey, merging technology and gastronomy for enhanced customer engagement and satisfaction.



Photos:





# Report for Data Journalism – Trends in Technology (2022-2023)

Invitation:



**St. Joseph's College of Arts and Science for Women, Hosur**

(Affiliated to Periyar University, Salem)  
Mookandapalli, Sipcot, Hosur - 635134



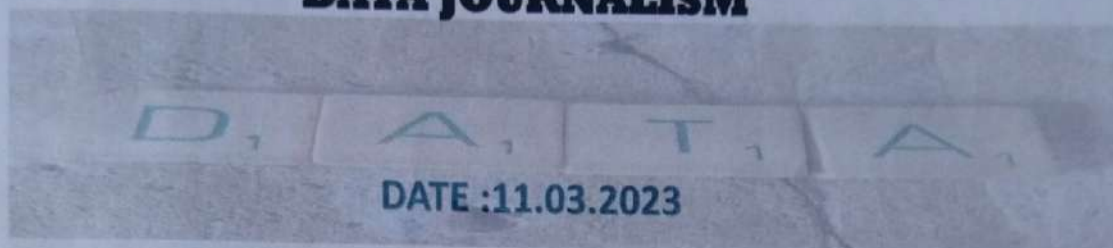
## *Department of English*

Organises a

**Trends in Technology Activity**

On

**DATA JOURNALISM**



Date : 11.03.2023

Resource Person: : Mrs. S. Julia Persis  
Assistant Professor,  
Department of English,  
St. Joseph's College of Arts and Science for Women,  
Hosur

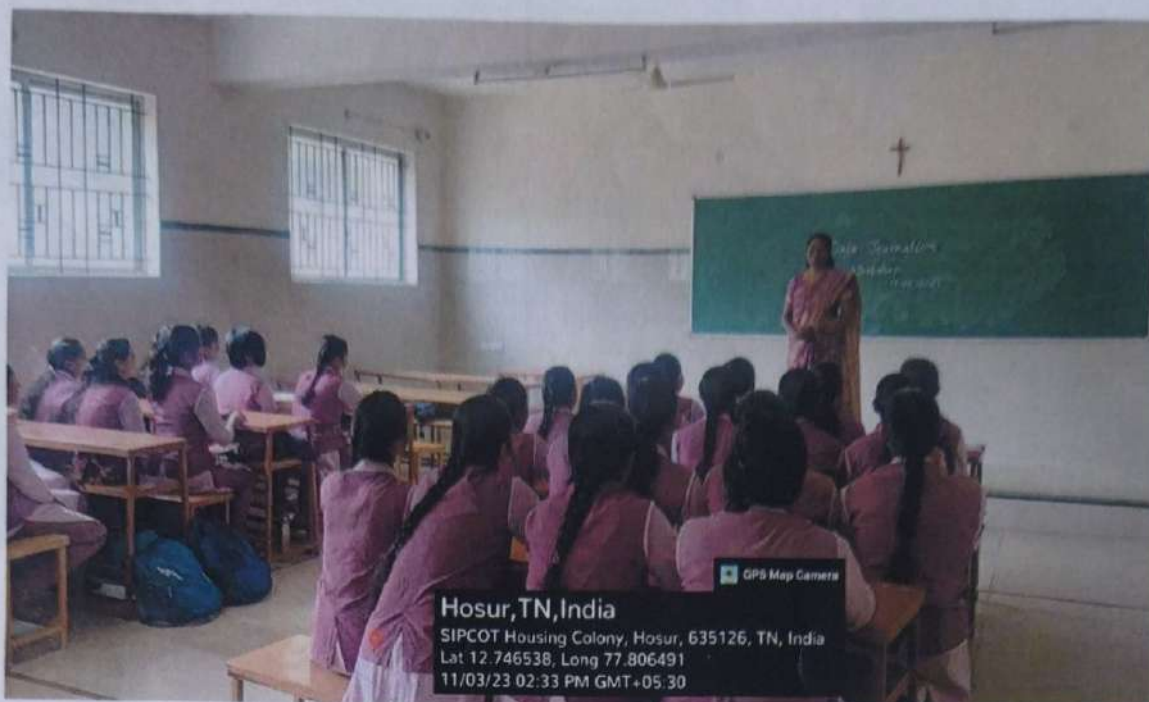
Class : III B.A **ENGLISH**

No of Beneficiaries : 23

### Report:

The Data Journalism Workshop for III B.A students, organized by the Department of English, showcased the evolving trends in technology within the realm of journalism. Mrs. S. Julia Persis, Assistant Professor in the Department of English, served as the expert resource person, offering valuable insights into the intersection of technology and data-driven journalism. The workshop delved into the latest tools and techniques employed by journalists to analyse and present data effectively, enhancing the storytelling process. Attendees gained hands-on experience with cutting-edge technologies, fostering a deeper understanding of how data can be harnessed to create compelling narratives. The workshop not only equipped students with practical skills but also instilled a sense of awareness about the pivotal role technology plays in shaping the future of journalism.

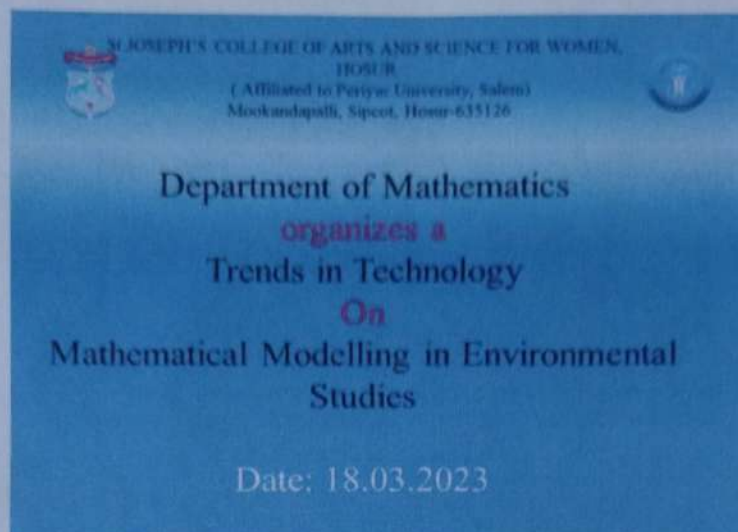






# Report for Mathematical Modelling in Environmental Studies– Trends in Technology (2022 -2023)

## Invitation:



Date : 18.03.2023

Resource Person : Mrs.B.K.Jaleesha  
HOD,  
Department of Mathematics,  
St. Joseph's College of Arts and Science for  
Women,  
Hosur

Class : III B.Sc (Maths)

No of Beneficiaries : 16

## Report:

Mrs.B.K.Jaleesha, Head of the Department in the Department of Mathematics headed the Trends in Technology on Mathematical Modelling in Environmental Studies for III B.Sc Maths students. Mathematical Modelling in Environmental studies was an illuminating journey into the intersection of mathematics and our understanding of the environment. She adeptly navigated through complex concepts, demonstrating how mathematical models serve as powerful tools to comprehend, predict, and address environmental challenges. With clarity and depth, She illustrated the application of differential equations, probability theory, and statistical methods in studying ecological systems, climate change dynamics, and pollution spread. Her engaging examples showcased how these models enable scientists to simulate scenarios, analyze data, and make informed decisions crucial for sustainable environmental management. Students left the session inspired by the potential of mathematics to decipher and mitigate environmental issues.







# REPORT FOR FINTECH AND FINANCIAL INNOVATION TRENDS IN TECHNOLOGY (2022-2023)

Invitation :



Date : 18.03.2023

Resource Person : Mrs. Magila.C  
Assistant Professor,  
Department of BBA (CA),  
St. Joseph's College of Arts and Science for Women,  
HOSUR

Class : III – BBA (CA)

No of Beneficiaries : 33

## Report:

Mrs. Magila delivered an insightful session on the dynamic trends in technology, focusing on FinTech and financial innovation. The discussion explored the transformative impact of technologies like block chain, artificial intelligence, and mobile applications on the financial landscape. Students gained an understanding of how these innovations are reshaping traditional financial services, promoting efficiency and accessibility. Mrs. Magila emphasized the need for adaptability and technological literacy in the financial sector. The session aimed to equip III BBA (CA) students with a forward-looking perspective, preparing them for the evolving landscape of FinTech and financial technologies.



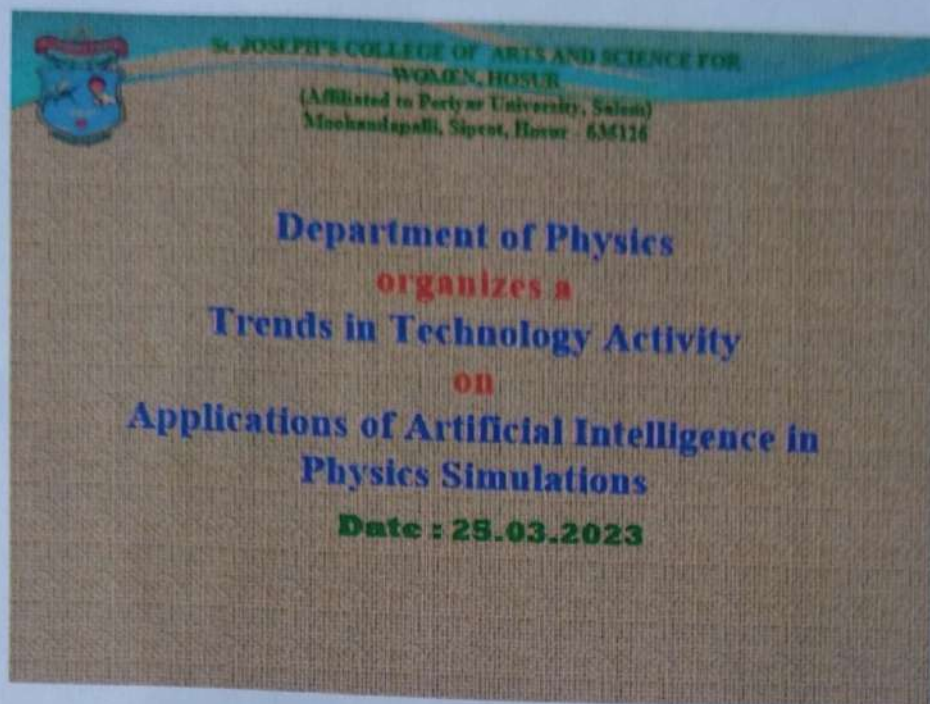
Photos:





Report for Applications of Artificial Intelligence in Physics Simulations –  
Trends in Technology Activity (2022-2023)

Invitation:



Date : 25.03.2023  
Resource Person : T. SIVAPRIYA  
Department of Physics,  
St. Joseph's College of Arts and Science for Women,  
Hosur.  
Class : III-B.Sc Physics  
No of Beneficiaries : 22

**Report:**

Mrs. T. Sivapriya, Assistant Professor in the Department of Physics, presented a captivating report on trends in technology, specifically exploring the applications of Artificial Intelligence (AI) in physics. Addressing third-year B.Sc Physics students, Mrs. Sivapriya highlighted the transformative role of AI in data analysis, simulations, and pattern recognition within the realm of physics research. The report showcased how machine learning algorithms enhance experimental and theoretical investigations, fostering efficiency and precision. Students gained valuable insights into the synergy between AI and physics, recognizing its potential to revolutionize data-driven discoveries and accelerate advancements in scientific understanding. Mrs. Sivapriya's presentation illuminated the evolving landscape where AI and physics intersect.



Photos:





# **Report for DevOps and Continuous Integration / Continuous Deployment (CI/CD) -Trends in Technology (2022-2023)**

**Invitation:**



Date : 25.03.2023

Resource Person: Mrs. Geethanjali  
Assistant Professor,  
Department of Computer Science,  
St. Joseph's College of Arts and Science for Women,  
Hosur.

Class : III BCA

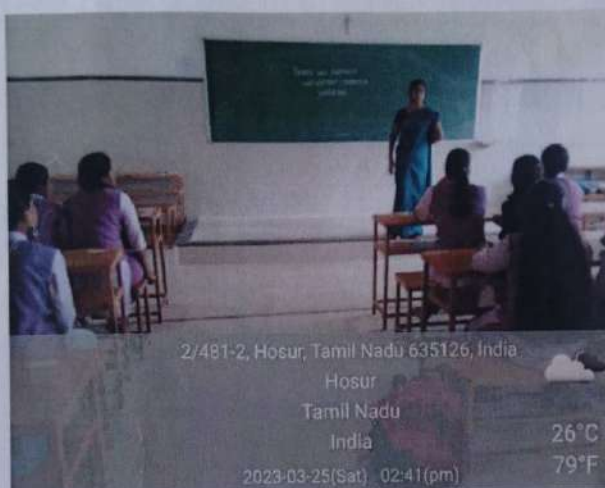
No of Beneficiaries : 58

## **Report:**

Mrs. Geethanjali, Assistant Professor in the Department of Computer Science, recently conducted an insightful session on the Trends in Technology, focusing on DevOps and Continuous Integration/Continuous Deployment (CI/CD) for the III BCA students. The session delved into the evolving software development landscape, emphasizing the crucial role of DevOps methodologies and CI/CD practices. Mrs. Geethanjali highlighted how these trends enhance collaboration, streamline workflows, and accelerate software delivery. Students gained valuable insights into industry best practices, tools, and the impact of adopting these technologies. The session aimed to equip students with the essential knowledge to stay abreast of contemporary technological advancements and enhance their prospects in the field.



Photos:





# Report on Sustainable Business Practices Integrating Environmental and Social Responsibility Trends in Technology

Academic year 2022-2023

## Invitation



Date : 25.3.2023

Resource person : Dr.P.Maithili  
Assistant professor  
Department of commerce  
St.Joseph's college of Arts and Science for  
Women,Hosur.

Class : I B.COM CA B

No. Of Beneficiaries : 57

## Report:

Dr.P.Maithili, Assistant professor in the Department of Commerce, enriched the students to know the practices on sustainable business practices integrating environmental and social responsibility, Leaders are realizing more and more that strategies that include sustainable policies, practices, and actions for both the environment and workers will pay off in the long run. A sustainable business strategy is one that considers resource conservation and preservation while integrating economic, environmental and social considerations into an organization's practices, policies and procedures to generate long-term benefits for the company and its workers. The session helped the students to know trends in technology, which can be used for sustainable business practices integrating environment and social responsibility.



Photo:





# Report for Electrochemical Energy Storage -Trends in Technology (2022-2023)

## Invitation:



ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE FOR  
WOMEN, HOSUR  
(Affiliated to Periyar University, Salem)  
Mookandapalli, Sipcot, Hosur - 635126



Department of chemistry  
organizes a  
Trends in Technology  
on  
*Electrochemical Energy Storage*

Date : 25.03.2023

Date : 25.03.2023

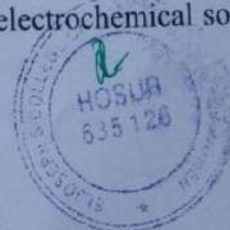
Resource Person : Mrs.S.V.Ishwarya  
Assistant Professor,  
Department of Chemistry,  
St. Joseph's College of Arts and Science for Women,  
Hosur

Class : III – B.Sc Chemistry

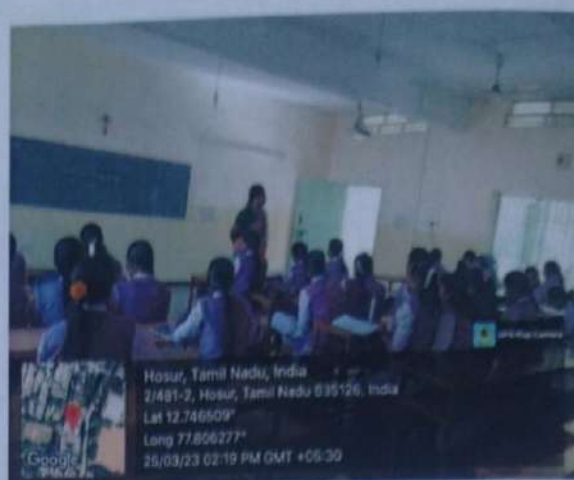
No of Beneficiaries : 29

Report:

Mrs. S.V. Ishwarya, Assistant Professor in the Department of Chemistry, presents a compelling report on the dynamic advancements in Electrochemical Energy Storage. The report elucidates breakthroughs in battery technology, supercapacitors, and emerging materials for efficient energy storage. It highlights technology's pivotal role in enhancing energy density, lifespan, and sustainability of storage devices. Addressing III B.Sc Chemistry students, this report aims to underscore how technology innovations drive the evolution of energy storage, enabling renewable energy integration, portable electronics, and electric vehicle advancements, inspiring a deeper engagement with the transformative potential of electrochemical solutions in today's energy landscape.



Photos:





தொழில் நுட்பத்தின் போக்குகள் - TAMIL SPEECH RECOGNITION  
SYSTEMS  
2022-2023

அழைப்பிதழ்



தேதி - 25/03/2023

சிறப்புரையாற்றியவர் - திருமதி ஈ.கவிதா,  
உதவிப் பேராசிரியர், தமிழ்த்துறை,  
செயின்ட் ஜோசப் மகளிர் கலை மற்றும்  
அறிவியல் கல்லூரி, ஓதூர்.

வகுப்பு - இயற்பியல், உணவு மற்றும்  
ஊட்டச்சத்து துறை 2-ஆம் ஆண்டு

பயனாளிகளின் எண்ணிக்கை - 28



அறிக்கை

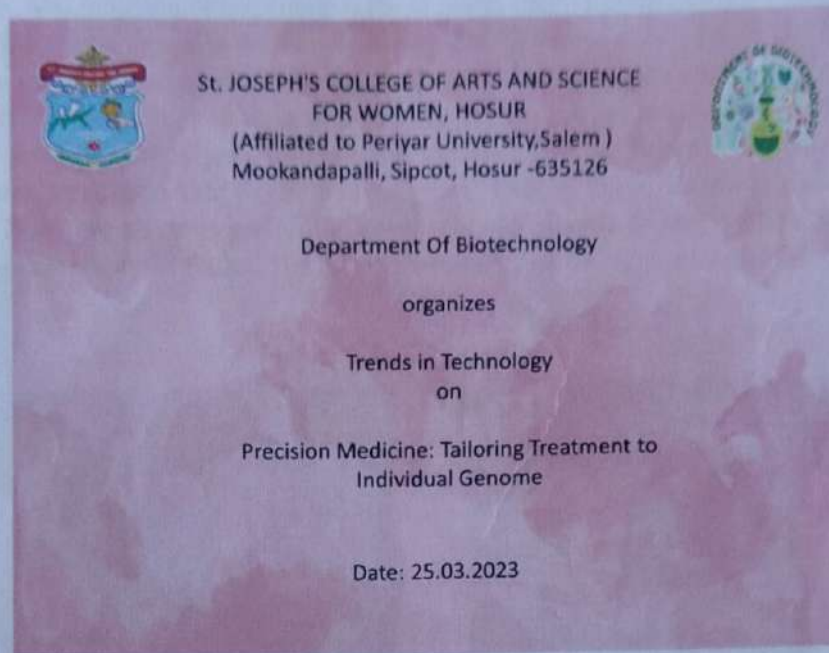
திருமதி ஈ.கவிதா, உதவிப் பேராசிரியர், தமிழ்த்துறை, அவர்கள் தமிழ்மொழியின் பேச்சுக்கலை முக்கியத்துவத்தையும், மாணவர்களுக்கு அதனால் ஏற்படக்கூடிய நன்மை குறித்தும், எடுத்துரைத்தார்.

புகைப்படம்





**REPORT FOR TRENDS IN TECHNOLOGY ON PRECISION MEDICINE-  
TAILORING TREATMENT TO INDIVIDUAL GENOMES ON LIFE  
SKILLS (2022-2023)**



Date : 25.03.23

Resource Person : Mrs. Margret Kanimozhi,  
Head of the Department of Biotechnology  
St. Joseph's College of Arts and Science for Women,  
Hosur

Class : III – B.Sc., Biotechnology

No of Beneficiaries: 41



## Report

Mrs. Margret Kanimozhi, Head of the Department of Biotechnology, headed a session on precision Medicine- Tailoring treatment to individual genomes for III – B. Sc(Biotechnology) students on 25.03.23. Around 40 students participated in the session. Speaking on the occasion, she gave an outline on how to analyse a person's unique genetic profile, and explained how the healthcare providers could gain insights into the underlying causes of diseases. This enables them to tailor treatments that target the root cause, leading to more effective and personalized outcomes. She gave an overview on the advancements of gene therapy and discussed on better treatment outcomes in the future. The session was very interesting, useful and interactive.

