

#### **SELF DRIVEN ACTIVITY**

Activity Name	NATIONAL LEVEL WORKSHOP
Date of Activity	18.08.2023 to 19.08.2023
Mode of Conduct	Offline
Time	10.00 AM to 3.30 PM
Participants (offline)	Faculty: 24
	Students: 263
Description	About the workshop:
	The Department of Mathematics of Auxilium College of Arts and Science for
	Women organized a "Two Days National Level Workshop on "An Introduction
	to the Scientific Softwares MATLAB, LaTeX and Maple". This workshop was
	arranged to serve the objective of the workshop, that is, To enhance the
	knowledge of programming and writing skills, To build the computational
	knowledge of programming and writing skins, to build the computational knowledge for students, researchers, and faculties by utilizing Maple, and
	MATLAB packages, To provide high-quality typesetting for producing
	scientific and technical documents with an aid of LaTeX. This report provides
	an overview of the program and highlights the key sessions and activities
	conducted each day.
	Date and Venue: The workshop took place on 18-19 August 2023 at
	Auxilium College of Arts and Science for Women, Regunathapuram. The
	Organizing team prepared everything in advance to meet for fine-tuning of the
	agenda and coordination of facilitation.
	Course Content:
	<ul> <li>Introduction to MATLAB-Basics of Programming</li> </ul>
	<ul> <li>Numerical Computations using MATLAB</li> </ul>
	<ul> <li>Introduction to LaTeX -Typesetting Simple Documents</li> </ul>
	<ul> <li>Creating Research Articles, Thesis Writing, and CV writing using LaTeX</li> </ul>
	<ul> <li>Introduction to Maple-Beyond the Basics</li> </ul>
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	<b>Training Team &amp; Organizing Team:</b> The members of the training team were
	Dr. J. Clement, VIT, Vellore, and Dr. S. Arul Amirtha Raja, St. Joseph's
	College of Engg., Chennai, Convener of the Workshop Dr.Teresa, Co-
	Conveners; Dr.Leema and Mrs.Saranya, Organizing Secretary; Mrs.Sumithra,
	Organizing Committee members were Mrs.Paramelshwari, Mrs.Priyanka,
	Mrs.Illakia and Mrs.Jancy.

Participants Details: The were 24 faculty members, and 263students
participants consisting of UG, PG, and research Scholars for this workshop
from various colleges;
✓ SRI BHARATHI COLLEGE, Pudukottai -
✓ BHARATH COLLEGE, Thanjavur -
✓ QUEENS COLLEGE, Pudukottai -
✓ ARPUTHA COLLEGE, Pudukottai -
✓ RabiammalAhamed Maiden College for Women, Tihruvarur -
✓ Achariya College of Engineering, Pandichery -
✓ PERIYAR Manniyammi University, Thanjavur -
✓ RACE ACADEMY, Trichy -
✓ ALAGAPPA University, Karaikudi -
✓ MaruduPandiar College, Thanjavur -
✓ Bon Securs College, Thanjavur -
<ul> <li>✓ Government Arts and Science College, Kallakottai.</li> </ul>
<ul> <li>✓ Auxilium College of Arts and Science, Pudukottai.</li> </ul>
• Auxinum Conege of Arts and Science, Fudukottai.
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Day1:
Agenda:
Introduction to MATLAB-Basics of Programming
Numerical Computations using MATLAB
Hands-on Training Session
The program commenced with a prayer, invoking God's presence on all the
participants, after which began, the lighting of the Ceremonial lamp by Rev. Sr.
S.Magnificat, the secretary of the college, Dr. Sr.Pushpa, the Principal of the
college, Dr.Clement, Dr.Arul Amirtha Raj and Dr.Teresa, the Vice Principal
and Head of the Department of the Mathematics. After the Inaugural ceremony,
welcoming the dignitaries and the participants were done by Dr. Sr.Teresa. It
was followed by the felicitation for the dignitaries on the dias read by
Mrs.Sumithra. Sr.Magnificat gave an inaugural speech on learning and
relearning scientific software. The vote of thanks was given by Dr.Leema.
<ul> <li>Dr. Clement began vigorously his topic on Introduction to MATLAB-Basics</li> </ul>
of Programming which was a highly interactive session on the scientific
software. The second session of Numerical Computations using MATLAB
was delivered by Dr. Amirtha Raja. The session covered the conversational
model of learning, which emphasized participation in a dialogue that
generates knowledge and upskilling. He explained the importance of
scientific software.
Day II:
Agenda:
Session on Introduction to LaTeX -Typesetting Simple Documents
Session on Creating Research Articles, Thesis Writing, and CV writing using
LaTeX Session on Introduction to Manla Devend the Design
Session on Introduction to Maple-Beyond the Basics

	On the Second day 19 August 2023, the workshop began with the prayer song which was followed by a welcome address by Mrs.Jancy, Assistant Professor, Department of Mathematics. The first session was a session on Introduction to LaTeX -Typesetting Simple Documents by Dr.Clement, in which he described several scientific tools of LaTeX to be used. After this, a lecture on Creating Research Articles, Thesis Writing, and CV writing using LaTeX was delivered by Dr.Amir, which comprised general information on creative writing of Research articles and Thesis writing. The last session was on Introduction to Maple-Beyond the Basics by Dr. Juliet Raja.
	The two-day National Workshop has successfully achieved its objectives of providing faculty members and research scholars with valuable insights into the concepts of scientific software and its research perspective. The program not only enhanced the participants' knowledge but also forested collaboration and multi- disciplinary opportunities. The positive feedback received from participants reflects the program's effectiveness and its contribution to some relevant knowledge of scientific software. Finally, the National workshop ended with a vote of thanks by Mrs.Elakia. We hope that the knowledge and skills acquired during the program will empower the faculty members and students to
	incorporate the latest software. Stay connected and be safe. Thank you, everyone.
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## **INTERNATIONAL CONFERENCE**

Activity Name	International Conference On Recent Trends In Mathematics and Computer Science (ICRTMCS – 2023)
Date of Activity	(1000000000000000000000000000000000000
Mode of Conduct	Hybrid
Time	9.30 am to 3.30 pm
Participants (Hybrid)	Students: 368
T al ticipants (Hybrid)	Faculty: 18
	External Participants (Faculties): 77
	External Participants (Students): 217
Description	The Departments of Mathematics and Computer Science of Auxilium College of
	Arts and Science for Women organized a three-day International Conference on
	Recent Trends in Mathematics and Computer Science. The objective of the
	Conference is to bring together eminent academicians, research scholars, and
	students to exchange ideas, communicate, to discuss research findings and new
	advances on recent and emerging trends in the field of Mathematics and Computer
	Science. The conference took place on 19-21October 2023 at Auxilium College of
	Arts and Science for Women, Regunathapuram. We were joined by 680 participants
	from 12 states, from 69 institutions representing diverse fields and disciplines. We
	were honored to have Dr. Kassem A Saleh, Dr. M S Jagadeesh Kumar,
	Dr. Antony Xavier, Dr. Peerbasha, and Dr. J. Sabaskar as our keynote speakers.
	Their insightful addresses provided a strong foundation for the conference, setting
	the tone for exploration and innovation.
	The inaugural ceremony commenced with a prayer, invoking God's presence
	on all the participants, after which began the lighting of the Ceremonial lamp by
	Rev. Sr. S.Magnificat, the secretary of the college, Sr. Pushpa, the Principal of the
	college, the keynote speakers Dr. M S Jagadeesh Kumar, Dr. Antony Xavier and
	convener Sr. Teresa, the Vice Principal and Head of the Department of the
	Mathematics. It was followed by the presentation of the Scope of the Conference by
	the convener Sr. Teresa. At the conclusion of the scope of the conference, the book
	of abstracts was released by Sr.Magnificat, the Secretary of the College. It was a
	significant moment to feel proud of our college. This was followed by the
	presidential address of Sr.Magnificat, the Secretary of the College on the origin and
	development of the college and motivated the participants to shine well. Sr.Pushpa,
	the principal of the college gave a felicitation address.
	Dr.M S Jagadeesh Kumar began dynamically his topic on Matrix decomposition

and its applications in image processing which was a highly interactive and innovative session. The second session on Spectral Graph Theory was delivered by Dr. Antony Xavier. The session covered the Eigenvalues, which emphasized participation in a dialogue that generates knowledge and up skilling. The third session was on What Makes (AI) Algorithms Ethical and Trustworthy by Dr. Kassem A Saleh which was a relevant topic for today's era. Around 3.40 pm, the paper presentation of both disciplines Mathematics and computer science was started. There were 24 presenters from the Department of Mathematics, who presented their papers in online under the supervision of the scientific chairs Dr. Arul Amirtha Raja, St.Joseph's College of Engineering, Chennai, Dr. Joseph Clement, Department of Mathematics VIT, Vellore. And 17 presenters from the Department of Mathematics presented their papers offline under the supervision of the scientific chair Dr. Sr. Kulandai Therese, Deputy Principal, St. Mary's College, Tuticorin. 14 presenters from the Department of Computer Science presented their papers online under the supervision of the scientific chair Dr. Peerbasha, Department of Computer Science Jamal Mohammed College, Trichy.

On the Second day 20 October 2023, the Conference began with the prayer song which was followed by a welcome address by Mrs. Illakia, Assistant Professor, Department of Mathematics. Introducing the keynote speaker of the day Dr. Peerbasha, Department of Computer Science Jamal Mohammed College, Trichy, was done by Dr. Padma, Head, Department of Computer Science. The first session was on Recent Trends in Machine Learning by Dr. Peerbasha, in which he described several scientific tools of Machine Learning. After this, a lecture on Neural networking was explained by Dr. J. Sabaskar in a more creative and detailed way.

During the parallel sessions, there were 12 presenters from the Department of Computer Science presented their papers offline under the supervision of the scientific chair Dr. Peerbasha, Department of Computer Science Jamal Mohammed College, Trichy. And 12 presenters from the Department of Mathematics presented their papers online under the supervision of the scientific chair Dr. Arul Amirtha Raja, St.Joseph's College of Engineering, Chennai.

The three-day International conference has successfully achieved its objectives of providing faculty members, research scholars, and students with valuable insights into the concepts of Recent Trends in Mathematics and Computer science.

The conference received a total of 77 abstract submissions which were accepted for presentation, ensuring high-quality content. On the second day of the conference, the special invitees were honored and felicitated during the valedictory function. The report of the conference was presented to the gathering by the Convener Sr. Teresa. The feedback from the participants was highly appreciative and encouraging. The ICRTMCS-2023 came to an end with the conference tour on 21, October 2023 to Our Lady of good health shrine at Vellankani.





# **<u>IIC CALENDER ACTIVITY</u>**

Activity Name	Inter/Intra Institutional Idea Competition /Challenge/ Hackathon and Reward Best							
	Ideas							
Date of Activity	10.11.2023							
Mode of Conduct	Offline							
Time	9.00 am to 6.00 pm							
Participants (offline)	) Students: 170							
	Faculty: 10							
Description	The Auxilium Institution innovation council in collaboration with the Department of							
-	Mathematics organized an Inter/Intra Institutional Ide							
	Competition/Challenge/Hackathon and Reward Best Ideas on 10 November, 2023 t							
	enlighten the participants to encourage the idea presentation on innovation and start							
	ups developed. The detail of the IDEATHON2023 was sent in circular format on 0							
	November 2023 to all the Heads of the department and faculty members, the							
	encourage the students to participate in it actively. Instantaneously there was a goo							
	response from the students of our institution from seven departments. There were 1							
	teams participated and exhibited their innovative ideas in the form of poster							
	presentation (five teams), PPT presentation (six teams), and Exhibition (four teams)							
	There were three judges Mrs. K. Sivakarthika, Head, Department of English							
	Dr. S. Padmavathi Head, Department of Computer Science, and Mrs. M. Rajaman							
	Head, Department of Physics to evaluate the presentation of the participants. The							
Participants List	Head, Department of Physics to evaluate the presentation of the participants. The best two ideas were selected and were given a cash award with a gift.							
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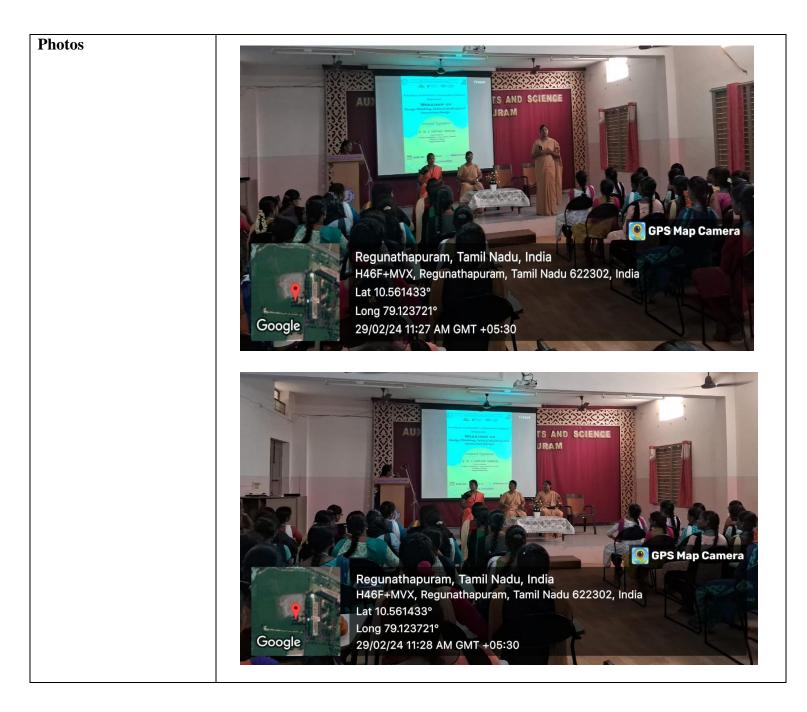
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3 4	Team 1	Lavanya A Mahalakshmi R		Physics I M.sc		4	1	Snega S Pushpalatha M						
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### **<u>IIC CALENDER ACTIVITY</u>**

Activity Name	Workshop on Design Thinking, Critical thinking and Innovation Design
Date of Activity	28.02.2024
Mode of Conduct	Offline
Time	9.00 am – 06.00 pm
Participants (offline)	Students: 258 Faculty: 07
Description	The Auxilium Institution Innovation Council recently hosted a workshop on February
	28, 2024, for all 258 final-year students. The event commenced with a warm welcome
	extended to the resource person and participants. The workshop featured a
	distinguished speaker, Dr. Santiagu Theresal V, the Vice President of AIIC. During the
	session, she delved into the topics of Design Thinking, Critical Thinking, and
	Innovation Design, with a particular emphasis on identifying and addressing struggle
	points in the pursuit of innovative ideas. She underscored the significance of
	maintaining a clear vision for innovation and business, as well as the importance of
	exploring markets and options that resonate with that vision. She further highlighted the
	necessity for creative and innovative solutions to direct challenges and defeat struggle
	points. In addition to discussing the innovation process, she also shed light on the
	advantages of digital marketing and entrepreneurship. She explained how entrepreneurs
	could utilize digital marketing strategies to target their audience effectively and foster
	business growth. Furthermore, she pointed out the crucial distinction between organic
	and inorganic advertisements in Google search engine results. Overall, the workshop
	proved to be an enlightening and beneficial experience, equipping attendees with
	essential knowledge and tools to propel innovation and business development.





### **INTERNATIONAL WOMEN'S DAY**

Activity Name	INTERNATIONAL WOMEN'S DAY
Date of Activity	08.03.2024
Mode of Conduct	Offline
Time	9.30 AM – 2.30 PM
Participants (offline)	Students: 292 Faculty: 25
Description	The Auxilium Institution Innovation Council, in collaboration with the Department
	of Mathematics, organized a Women's Day celebration on March 8, 2024. The event
	commenced with a song on women's empowerment, followed by a welcome address to
	all dignitaries. The chief guest was Rev. Sr. Magnificat, the Secretary of the College,
	with special invitees including Dr. Sangeetha, the Social Media Coordinator, and Mr.
	Prema, the Internship Activity Coordinator from the Auxilium Institution Innovation
	Council.
	The inaugural address was delivered by Chief Guest Sr. Magnificat, who spoke on
	the empowering attitudes of women, emphasizing their capacity for caring, loving,
	enduring, daring, and uplifting. This was followed by a mime performance depicting
	women's roles in the family, society, sports, business, and education. Five dynamic girls,
	selected from various departments, eloquently addressed the role of women in these
	fields. Their speeches were marked by strength, clarity, and vision, making for an
	inspiring session. Students then presented a rhythmic dance that portrayed the role of
	women in the family and society at large. The special invitees beautifully discussed the
	history of Women's Day and the development of women in today's society, enriching
	their talks with numerous lived examples and notable personalities.
	The event reached its climax with the Women's Day anthem, during which
	snapshots of the college's activities were displayed, delighting all participants. The event
	concluded with a vote of thanks. This initiative instilled in the students a sense of

