

# ETHIRAJ COLLEGE FOR WOMEN (AUTONOMOUS)

# INTERNATIONAL MULTIDISCIPLINARY CONFERENCE ON "EMBRACING THE FUTURE WITH ADVANCES IN SCIENCE AND TECHNOLOGY" 1<sup>st</sup> and 2<sup>nd</sup> February, 2024

Organized by:

Department of Biochemistry Department of Microbiology Department of Psychology Department of BCA Department of Mathematics with Computer Applications



## **ABOUT THE COLLEGE**

Started by **Thiru V.L Ethiraj**, a magnanimous barrister and philanthropist, Ethiraj College for Women, Chennai provides quality education to women students with the sole mission of empowering them. The college was recognized as "**College with Potential for Excellence**" by UGC and was granted the **'A+'** grade by NAAC in 2023. The college fosters academic excellence, independent thinking and sensitization to social and environmental needs and aims to develop women holistically to achieve success and fulfilment. Seventy-five years since its inception, the college continues to grow to scale greater heights to fulfil its mission

# **ABOUT THE CONFERENCE**

#### "The most incomprehensible thing about the world is that it is at all comprehensible." Albert Einstein

From looking at the moon imagining what it would be like to landing on the moon's south pole, science despite its limitations is a magical gift human have been bestowed with. The groundbreaking discoveries of the past has not only equipped man with the greater understanding of the planet he inhabits but also has been an instrument in making his life longer, healthier, safer, and easier. While we stood in rapt wonder as new discoveries paved way for gaining more knowledge and exercising better control over our environment, we, humbled by the intellect of the cosmos, acknowledge human frailty, and recognize our responsibility in making wise and effective use of scientific and technological tools for innovation and progress. This Multidisciplinary conference brings together Departments of Biochemistry, Microbiology, Psychology, BCA and Mathematics with Computer applications to ignite and rekindle the flame of curiosity and imagination by raising new questions and re-thinking existing assumptions and practices in the fields of life science, social science and technology within the realm of ethics, morality, values and conscience. The technical sessions and scientific paper presentation are aimed at deliberating the endless potential of each of these disciplines in contributing to a sustainable and better future.

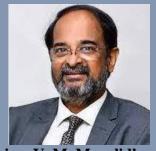
#### INTERNATIONAL MULTIDISCIPLINARY CONFERENCE

ON

"EMBRACING THE FUTURE WITH ADVANCES IN SCIENCE & TECHNOLOGY"

## **ORGANIZING COMMITTEE**

#### **CHIEF PATRON**



**Thiru. V. M. Muralidharan** Chairman, Ethiraj College Trust, Ethiraj College for Women Chennai

#### PATRON



**Dr. S. Uma Gowrie** Principal & Secretary Ethiraj College for Women, Chennai

# CONVENORS



**Dr. K. Krishna Prema** Associate Professor & Head, Department of Microbiology



**Dr. M. Sujatha** Director, Centre for Women Studies(SS) Associate Professor & Head, Department of Biochemistry



Dr. K. Prasanna Lakshmi Associate Professor & Head, Department of Mathematics with Computer Applications



Dr. M. Ramya Maheswari Associate Professor & Head, Department of Psychology



**Dr. M. Henila** Assistant Professor & Head, Department of Computer Applications (BCA)

#### **ORGANIZING SECRETARIES**

Dr. C. N. Deepa, Associate Professor Dr. K. Jayanthi Rani, Assistant Professor Mrs. S. Janes Pushparani, Assistant Professor

#### TREASURERS

**Dr. V. Gayathri**, Associate Professor **Dr. S. Vasanthi**, Assistant Professor

#### **EDITORIAL BOARD**

Dr. A. Subhashini, Associate Professor
Dr. S. Vijayalatha, Associate Professor
Dr. Safiya, Associate Professor
Dr. S. Nandhini, Associate Professor
Mrs. M. Meharunnisa, Assistant Professor
Mrs. M. R. Rathika, Assistant Professor
Mrs. Radhikaa K., Assistant Professor
Ms. Helina Susan Shaji, Assistant Professor

#### **ORGANIZING COMMITTEE MEMBERS**

Dr. C. Ganga Baheerathi, Associate Professor Dr. V. Malathi, Associate Professor Dr. Anusha Balasingh, Associate Professor Dr. M. Linnett Naveena, Associate Professor Dr. Vidhya C.V., Associate Professor Dr. Mary Sheela J., Associate Professor Dr. J. Priya, Associate Professor Dr. G. Sangeetha Vani, Associate Professor Dr. M. Reenaa, Associate Professor Mrs. A. Radhika, Assistant Professor Mrs. Padmini Mary G., Assistant Professor Dr. B. Shathya, Assistant Professor Mrs. A. Monisha, Assistant Professor
Dr. B. Thendral Hepsibha, Assistant Professor
Mrs. G. Sandhya, Assistant Professor
Mrs. Keren Fredrick, Assistant Professor
Dr. Fatima Cynthia A., Assistant Professor
Dr. N. Sudha, Assistant Professor
Dr. N. Sudha, Assistant Professor
Mrs. A. Divya, Assistant Professor
Mrs. A. Divya, Assistant Professor
Dr. K. Sonia, Assistant Professor
Ms. E. Karthiga, Assistant Professor
Ms. Mrnalini Ranganathan, Assistant Professor
Ms. K. R. Sophia, Assistant Professor
Ms. K. R. Sophia, Assistant Professor



#### **CHIEF GUEST**



Distinguished Professor & Advisor to Chancellor, Vellore Institute of Technology, Vellore. (Former Vice-Chancellor, University of Madras), (Former Pro-Chancellor/Dean(Research), Sri Ramachandra University, Porur) (Former Chancellor, Avinashilingam Institute for Home Science & Higher Education for Women, Coimbatore.)

## **KEYNOTE ADDRESS - INAUGURAL**



**Prof. N.Thajuddin** 

Pro-Vice Chancellor B.S.Abdur Rahman Crescent Institute of Science & Technology, Vandalur, Chennai. (Former Director, National Facility for Marine Cyanobacteria, Former Head, Department of Microbiology Former Dean, Faculty of Science, Engineering & Technology, Bharathidasan University, Tiruchirapalli)

## VALEDICTORY ADDRESS



Dr. E.Vivekanandan

Advisor & Senior Scientific Consultant Bay of Bengal Programme, Inter Governmental Organization.

# INVITED SPEAKERS - DAY 1 [01-02-2024] AND DAY 2 [02-02-2024]



# **PROGRAM SCHEDULE**

# INAUGURATION

00 am hai Vazhthu JVILAKKU RISHNA PREMA Professor and Head ht of Microbiology Ilege for Women, Chennai JATHA Centre for Women Studies (SS) Professor and Head ht of Biochemistry Ilege for Women, Chennai M. MURALIDHARAN Ethiraj College Trust, Chennai
JVILAKKU RISHNA PREMA Professor and Head at of Microbiology Ilege for Women, Chennai JATHA Centre for Women Studies (SS) Professor and Head at of Biochemistry Ilege for Women, Chennai M. MURALIDHARAN
RISHNA PREMA Professor and Head at of Microbiology Illege for Women, Chennai JATHA Centre for Women Studies (SS) Professor and Head at of Biochemistry Illege for Women, Chennai M. MURALIDHARAN
Professor and Head at of Microbiology Illege for Women, Chennai UJATHA Centre for Women Studies (SS) Professor and Head at of Biochemistry Illege for Women, Chennai M. MURALIDHARAN
Centre for Women Studies (SS) Professor and Head at of Biochemistry Ilege for Women, Chennai M. MURALIDHARAN
I <b>A GOWRIE</b> & Secretary Ilege for Women, Chennai
THYAGARAJAN, hed Professor & Advisor to Chancellor, Vellore Technology, Vellore. ice-Chancellor, University of Madras), ro-Chancellor/Dean(Research), Sri Ramachandra Porur) hancellor, Avinashilingam Institute for Home Higher Education for Women, Coimbatore.)
hajuddin Chancellor Rahman Crescent Institute of Science & y, Vandalur, Chennai. virector, National Facility for Marine veria, ead, Department of Microbiology ean, Faculty of Science, Engineering & y, asan University, Tiruchirapalli)
ASANNA LAKSHMI Professor and Head
De De De idd <b>PR</b>

DAY 1 – 1 <sup>st</sup> FEBRUARY 2024		
	SSION - I (11.30 - 1.00 pm)	
11.30 - 12. 15 pm	Dr. BALAN RATHAKRISHNAN	
	Faculty of Psychology and Education	
Invited Lecture-1 Online	Universiti Malaysia Sabah	
Venue : Main Auditorium	TOPIC : "Building Positive Communities and Societies	
12. 15 pm - 1.00 pm	for a Better Future" Mr. SHIVA THIRUMAZHUSAI	
12. 15 pm - 1.00 pm	CEO, Nasotech, U.S.A	
Invited Lecture- 2 Online	TOPIC : "Healthcare with On-Device AI"	
Venue : Main Auditorium		
1.00 - 2.00 pm	LUNCH BREAK SSION - II (2.00 - 4.00 pm)	
2.00 - 2.45 pm	Prof. Dr.U.S.MAHADEVA RAO	
Invited Lecture-3 & 4 Online	Fakultu Perubatan Universiti Sultan Zainal Abidin, Kampus Kolta	
Venue : Main Auditorium	20400 Kuala Terengganu, Malaysia	
	TOPIC : "Role of Artificial Intelligence in the	
	development of Herbal Medicine"	
	Ms.LEE WAN ZHEN	
	Fakulti Sains Kesihatan	
	Universiti Sultan	
	Zainal Abidin, Kampus Gong Badak	
	21300 Kuala Nerus, Terengganu, Malaysia	
	TOPIC : "Role of Artificial Intelligence in	
	<i>Physiotherapy among the Cerebrovascular accident patients</i> "	
2.00 - 2.45 pm	Mr. VIVEK MISRA	
2.00 2.10 pm	Assistant Clinical Director and Head	
Invited Lecture-5	Neuromodulation and Clinical Neurosciences, Buddhi	
Venue : Mini Auditorium	Clinic, Chennai	
2.00 - 2.45 pm	TOPIC : "Stimulating the Brain to Heal the Mind" Dr. PAUL MANUEL	
2.00 - 2.43 pm	Professor of Information Science	
Invited Lecture- 6 Online	Kuwait University, Kuwait	
Venue : Steve Jobs Hall	TOPIC : "Data Science"	
0.00 0.45		
2.00 - 2.45 pm	Dr. K. JEGANATHAN (Chairperson) Assistant Professor	
Paper Presentation-Mathematics with	Ramanujan Institute for Advanced Study in	
Computer Applications	Mathematics	
Venue : Campus II, Room No- A437	University of Madras, Chennai	
2.00 4.00 mm		
3.00 - 4.00 pm	<b>Dr. D. PRABHU</b> Head i/c, Department of Microbiology	
Invited Lecture-7	Dr. ALM PG IBMS, University of Madras, Chennai.	
Venue : Main Auditorium	TOPIC : "Automation and Artificial Intelligence	
	applications in Microbiology"	
3.00 to 4.00	Dr. K. VIJAYALAKSHMI (Chairperson)	
Paper Presentation - Biochemistry &	Assistant Professor Department of Biochemistry	
Microbiology	Faculty of Science and Humanities,	
Venue: Campus I, Room No. 145	SRM Institute of Science and Technology,	
-	Kattankulathur, Chengalpet	
3.00 to 4.00	Dr. Mrs. SUMATHY KINGSLIN (Chairperson)	
Dapar Presentation DCA	Associate Professor	
Paper Presentation - BCA Venue: Steve Jobs Hall	Department of Computer Science Quaid - E - Milleth Govt. College for Women, Chennai	
	Quald 12 million Sovi, conege for women, chemian	
3.00 - 4.00 pm	Dr. S. SASIKALA (Chairperson)	
	Assistant Professor and Head i/c.	
Paper Presentation - Psychology	Department of Counseling Psychology	

Venue 1: Mini Auditorium	University of Madras, Chennai	
3.00 - 4.00 pm Paper Presentation -Psychology	Dr. A.Zarina (Chairperson) Associate Professor and Head Department of Psychology (Aided)	
Venue 2: Shyam Kothari hall	Women's Christian College, Chennai	
3.00 - 4.00 pm	Dr. H. SAIGEETHA (Chairperson)	
Paper Presentation-Psychology Venue 3: Campus II, Room No A220	Associate Professor and Head Dr. Ambedkar Government Arts College, Chennai	
3.00 - 4.00 pm	Dr. R.Subashree (Chairperson)	
Paper Presentation -Psychology Venue 4: Campus II, Room No A235	Assistant Professor and Head Department of Psychology Madras School of Social Work, Chennai	
DAY 2 - 2'	<sup>1d</sup> FEBRUARY 2024	
TECHNICAL SESSION - III (9.30 to 10.15 am)		
9.30 - 10.15 am	Dr.HALEEMA. P. K	
Invited Lecture- 8 Online Venue : Main Auditorium	Senior Lecturer School of Computing and Engineering University of West London RAK Branch Campus, U.A.E. <i>TOPIC : "Applications of Mathematics in Industry 4.0</i> <i>Technologies"</i>	
9.30 - 10.15 am	Dr. MADHAVI RANGASWAMY	
Invited Lecture-9 Venue : Mini Auditorium	Professor and Research Coordinator, Department of Psychology Christ (Deemed to be University), Bengaluru <i>TOPIC : "Influences on Decision Making and its</i> <i>Implication for Current and Future Well-Being"</i>	
9.30 -10.15 am	Dr. R. JOHN MARTIN	
Invited Lecture-10 Online Venue: Steve Jobs Hall	School of Computer Science and Information Technology Jazan University, KSA, Saudi Arabia <i>TOPIC : "AI Unveiled"</i>	
TECHNICAL SES	SION - IV (10.15 - 11.00 am)	
10.15 - 11.00 am	Dr. ROHINI KARUNAKARAN	
Invited Lecture-11 Online Venue : Main Auditorium	Deputy Dean - Academics & International Affairs Faculty of Medicine, AIMST University Malaysia TOPIC : "ESG Integrated Education - Need of the Hour for Sustainable Future"	
10.15 - 11.00 am	Mrs. GHAYATRI SWETHA KUMARI	
Poster Presentation	(Chairperson) Assistant Professor and Head	
Venue : Library	Department of Psychology MOP Vaishnav College, Chennai	
10.15 - 11.00 am	Dr. T. VEL MURUGAN	
Invited Lecture- 12 Online	Associate Professor	
Venue : Steve Jobs Hall	Department of Computer Science D. G. Vaishnav College, Chennai	
	TOPIC : "Intelligent Process Automation"	
11.00 - 11.30 am	TEA BREAK	
TECHNICAL SES	SION - V (11.30 - 12.15 pm)	
11.30 - 12.15 pm	Dr.ELANGOVAN VELLAICHAMY	
Invited Lecture- 13	Professor & Head, Department of Biochemistry	
Venue : Main Auditorium	Controller of Examination i/c. University of Madras, Chepauk, Chennai	

	TOPIC : "Gene Therapy :Where we stand ?"
11.30 - 12.15 pm	Ms. SHIKAINAH CHAMPION SAMUEL
Invited Lecture- 14 Online	Psychological Therapist National Health Service, London, UK
Venue : Mini Auditorium	TOPIC : "The Neuroscience behind Eye Movement
	Desensitization and Reprocessing (EDMR)"
11.30 - 12.15 pm	Dr. S. BHARATHIDASON
	Head, Department of Computer Science
Invited Lecture-15	Loyola College, Chennai
Venue : Steve Jobs Hall	TOPIC : "Decision Optimization with Genetic
	Algorithm"

VALEDICTORY

2<sup>nd</sup> FEBRUARY 2024 VENUE: MAIN AUDITORIUM, 2.00-3.00 pm

INVOCATION	
WELCOME ADDRESS	Dr. M. RAMYA MAHESWARI
	Associate Professor & Head
	Department of Psychology
	Ethiraj College for Women, Chennai
CONFERENCE REPORT	Dr. M. HENILA
	Assistant Professor & Head
	Department of BCA
	Ethiraj College for Women, Chennai
SPECIAL ADDRESS	Dr. S. UMA GOWRIE
	Principal & Secretary
	Ethiraj College for Women, Chennai
VALEDICTORY ADDRESS	Dr. E.VIVEKANANDAN
	Advisor and Senior Scientific Consultant
	Bay of Bengal Program
	Inter-Governmental Organization
PRIZE DISTRIBUTION	
VOTE OF THANKS	Dr.V. GAYATHRI
	Associate Professor
	Department of Microbiology
	Ethiraj College for Women, Chennai
COLLEGE SONG	